PROTECH®

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8K 4K Solution

* Please note that the actual product appearance may differ slightly from the photos in this catalog.
* Product specifications are subject to change without notice.
*The list price of each product described in this catalog does not include tax, delivery fee, construction, connection adjustment and other expenses.

Jointly developed by Kyodo television and PROTECH.
New Hikari Jeep "MASTER LINE" series is born.

Kyodo Television's latest technology 4K HDR broadcast vehicle "KR-supreme" multipurpose audio relay vehicle "KR-mix". 8 HIKARI(optical fiber) Jeep as "MASTER LINE" series which are jointly developed by Kyodo television and PROTECH and used the latest technology, are deployed in the 4K HDR broadcast vehicle "KR-supreme".

12G-SDI
22 systems optical fiber transmission.

6ch sending, 16ch receiving / large optical fiber transmission equipment   MASTER LINE

MASTER LINE incorporating the latest technology of PROTECH. It becomes the "mainstay" of optical fiber transmission relay.

Long distance transmission with one cable

By using an optical fiber cable, 12G/6G/3G/HD/SD signals, intercom, tally, AES/EBU L/R, RS-232/422/485, and even a power supply can be easily transmitted over a long distance with one cable. The maximum to 2km. PROTECH's MASTER LINE can transmit 22 systems in large size and 11 systems in small size.

* For 12G transmission, the transmission distance may be shorter depending on the situation.

6ch sending, 16ch receiving
Large Optical Fiber Transmission
Handset

ML-0616F price: discretionary price

Specifications ● INPUT/OUTPUT / SDI IN : BNCx6 12G/6G/3G/HD SDI /SD SDI/ SDI OUT : BNCx16 12G/6G/3G/HD SDI /SD SDI /THROUGH OUT BNCx6 12G/6G/3G/HD SDI/SD SDI / AES/EBU L/R IN BNC×4 1/2, 3/4, 5/6, 7/8 /AES/EBU L/R OUT BNC×4 1/2, 3/4, 5/6, 7/8 /GPI IN/OUT: XLR-3Px5 /TC IN: BNCx1/TC OUT: BNCx1/TARRY IN :D Sub 15P x1/ DC OUT : XLR-4 x4 /MADI IN:BNC×1/MADI OUT:BNC×1/ ● FUNCTION /REMOTE×4 RS-232/422/485 / LAN : RJ45x1/ LAN/POE: RJ45x4 1Gbps / INTERCOM 2W 1/2:XLR 3P×2 / NTERCOM 4WT/4WR :XLR 3P×2 / ● GENERAL / Size (WxHxD) : 220x130x390 mm / Weight : 9 kg / Transmission distance is up to 2.4km

16ch sending, 6ch receiving / large optical fiber transmission equipment   MASTER LINE

16ch sending, 6ch receiving
Large Optical Fiber Transmission
Base station

ML-1606M price: discretionary price

Specifications ● INPUT/OUTPUT / SDI IN : BNCx16 12G/6G/3G/HD SDI /SD SDI/ SDI OUT : BNCx6 12G/6G/3G/HD SDI /SD SDI / THROUGH OUT BNCx16 12G/6G/3G/HD SDI/SD SDI /AES/EBU L/R IN BNC×4 1/2, 3/4, 5/6, 7/8 /AES/EBU L/R OUT BNC×4 1/2, 3/4, 5/6, 7/8 / GPI IN/OUT: XLR-3Px5 /TC IN: BNCx1/TC OUT: BNCx1/TARRY IN :D Sub 15P x1/ DC OUT : 450W/AC IN: 100~240V MAX 450W /MADI IN:BNC×1/MADI OUT:BNC×1/ ● FUNCTION / REMOTE ×4 RS-232/422/485 / LAN : RJ45x1 /LAN/POE: RJ45x4 1Gbps / INTERCOM 2W 1/2:XLR 3P×2 /NTERCOM 4WT/4WR :XLR 3P×2 / ● GENERAL / Size (WxHxD) : 220x174x390 mm / Weight : 12kg /Transmission distance up to 2.4km

AC input / DC input

PROTECH's MASTER LINE allows AC input not only DC input. Because it doesn't need for an outlet, you can use it anywhere. Both AC and DC can use with the same functions.

Asynchronous transmission

If it 's a large HIKARI JEEP, 22 lines are transmitted, and if it 's a small HIKARI JEEP, 11 lines are transmitted. In PROTECH's MASTER LINE, asynchronous transmission was realized independently for each system. When you performe synchronous transmission, time codes may be misaligned unless the camera types are unified. Asynchronous transmission does not cause problems even if the type of camera connected to the MASTER LINE is different.

12G-SDI
22 systems optical fiber transmission.

3ch sending, 8ch receiving / Small optical fiber transmission equipment   MASTER LINE

BTO

3ch sending, 8ch receiving
Small Optical Fiber Transmission
Handset

ML-0308F price: discretionary price

Specifications ● INPUT/OUTPUT / SDI IN : BNCx3 12G/6G/3G/HD SDI /SD SDI/ SDI OUT : BNCx8 12G/6G/3G/HD SDI /SD SDI / THROUGH OUT BNCx3 12G/6G/3G/HD SDI/SD SDI /AES/EBU L/R IN BNCx2 1/2, 3/4 /AES/EBU L/R OUT BNCx2 1/2, 3/4 / TC IN: BNCx1/TC OUT: BNCx1/TARRY IN :D Sub 15P x1/ DC OUT : XLR-4 x4 /MADI IN:BNC×1/MADI OUT:BNC×1/ ● FUNCTION / REMOTE ×4 RS-232/422/485 / LAN : RJ45x1 /LAN/POE: RJ45x41Gbps / INTERCOM 2W 1/2:XLR 3P×2 / INTERCOM 4WT/4WR :XLR 3P×2 / ● GENERAL / Size (WxHxD) : 220x88x390 mm / Weight : 6 kg /Transmission distance is up to 2.4km

8ch sending, 3ch receiving /Small optical fiber transmission equipment   MASTER LINE

BTO

8ch sending, 3ch receiving
Small Optical Fiber Transmission
Base station

ML-0803M price: discretionary price

Specifications ● INPUT/OUTPUT / SDI IN : BNCx8 12G/6G/3G/HD SDI /SD SDI/ SDI OUT : BNCx3 12G/6G/3G/HD SDI /SD SDI / THROUGH OUT BNCx8 12G/6G/3G/HD SDI/SD SDI /AES/EBU L/R IN BNCx2 1/2, 3/4 /AES/EBU L/R OUT BNCx2 1/2, 3/4 / TC IN: BNCx1/TC OUT: BNCx1/TARRY IN :D Sub 15P x1/ DC IN : XLR-4 x3 /MADI IN:BNC×1/MADI OUT:BNC×1/ ● FUNCTION /REMOTE × 4 RS-232/422/485 / LAN : RJ45x1 /LAN/POE: RJ45x4 1Gbps / INTERCOM 2W 1/2:XLR 3P×2 /INTERCOM 4WT/4WR :XLR 3P×2 / ● GENERAL / Size (WxHxD) : 220x130x390 mm / Weight : 11 kg /Transmission distance is up to 2.4km

Identify the type of connector at a glance with coloring

In recent years, many BNC connectors are used for various signal transmissions. BNC connectors have a wide range of uses such as SDI signal input / output, through-out, tally, GENLOCK, time code and audio signals, and it is difficult to tell which connector is compatible with which signals. PROTECH has made it possible to immediately determine which connector has which function by coloring to the connector (patent pending). The installation time can be shortened.

4 camera remotes

PROTECH's HIKARI JEEP has four remote connectors. The camera remote serial interface supports RS-232/422/485. Many types of remote control are possible.

12G-SDI
8 systems optical fiber transmission

The function is simple, 12G-SDI 8 systems receiving/sending High-cost performance model

8ch sending/Small optical fiber transmission   MASTER LINE

BTO

8ch sending
Small Optical Fiber Transmission
Handset

ML-0800F price: **$22,000**

Specifications ● INPUT/OUTPUT / SDI IN : BNCx8   12G/6G/3G/HD SDI /SD SDI/THROUGH OUT BNCx8 12G/6G/3G/HD SDI/SD SDI /AES/EBU L/R IN BNC×2 1/2, 3/4 /AES/EBU L/R OUT BNC×2 1/2, 3/4 / TC IN: BNCx1/TC OUT: BNCx1 ● FUNCTION LAN : RJ45x1 1Gbps ● GENERAL / Size (WxHxD) : 220x88x390 mm / Weight : 6 kg /Transmission distance is up to 2.4km

8ch receiving/Small optical fiber transmission   MASTER LINE

BTO

8ch receiving
Small Optical Fiber Transmission
Base station

**ML-0008M** price: **$22,000**

Specifications ● INPUT/OUTPUT / SDI OUT: BNCx8   12G/6G/3G/HD SDI /SD SDI/THROUGH OUT BNCx8 12G/6G/3G/HD SDI/SD SDI /AES/EBU L/R IN BNC×2 1/2, 3/4 /AES/EBU L/R OUT BNC×2 1/2, 3/4 / TC IN: BNCx1/TC OUT: BNCx1 ● FUNCTION LAN : RJ45x1 1Gbps ● GENERAL / Size (WxHxD) : 220x88x390 mm / Weight : 6 kg /Transmission distance is up to 2.4km

8K120P transmission*World First

The top of optical fiber camera adapter   LS-900

Sending 12G ～ HD-SDI × 10/ Return 12G × 2、
Intercom, LAN line, Power output 170W, Carbon body
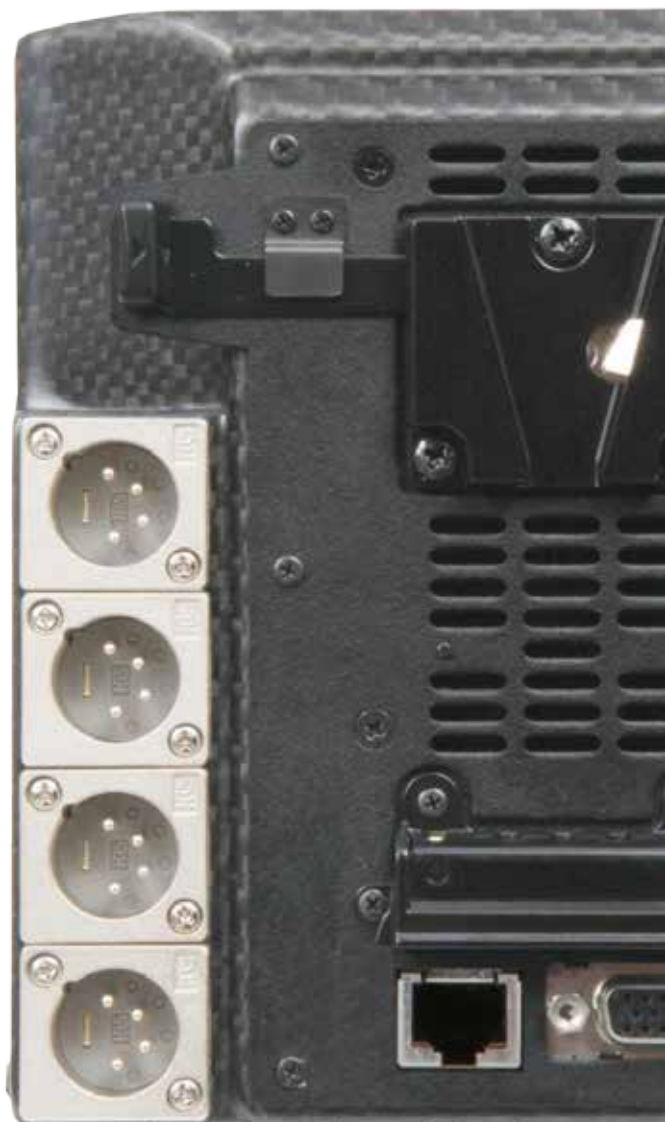
12G 10ch 8K 120P
Optical Fiber Camera Adapter
LS-900 price: **$44,800**

● **Accessories** : BNC-04M x 10 BNC x 1/ RCC-450S/ Instruction manual / Guarantee

LS-900

Features ● 12G 4ch 8K support optical fiber camera adapter ● 4K/HD, HD/4K can be intermixed ● 12G/HD-SDI/SD-SDI, return, remote signal, tally, intercom two systems ● 170W power supply ● HD-SD/SD-SDI multi format support

Specifications ● INPUT/OUTPUT / SDI IN : BNCx10 12G/6G/3G/HD / SDI OUT : BNCx1 SDI IN through out / SDI RET OUT : BNCx1 SDI/VBS / GENLOCK OUT : BNCx1 SDI/VBS / AUDIO Headphone : ϕ 3.5 Stereo Mini Jackx2 / MONITOR IF OUT : Mini 6Px1 / OPTION I/O : HD D-SUB 15Px1 (TC, AUDIO I/O, AES/EBU I/O, LANC) / DC OUT : 150W (CAMTAP x2) ● FUNCTION / TALLY Indicator : Indicator LEDx2 / REMOTE : 8P femalex1 / LAN : RJ45 / INTERCOM HEADSET : XLR 4P male x1 ● GENERAL / Size (WxHxD) : 148x145x115 mm / Weight : 1.4 kg ● ACCESSORIES / Remote Cablex1

Transmit two main line 12G10, RET12G at this size
12G/6G/3G/HD Dual link, quad link asynchronous support

Minimum・Actual size

**12G 10ch 8K 120P
Optical Fiber Camera Adapter**

LS-950 price: **$44,800**

● **Accessories**：BNC-04M x 10 BNC x 1/ RCC-450S/ Instruction manual / Guarante

LS-950

Features ● 12G 4ch 8K support optical fiber camera adapter ● 4K/HD, HD/4K can be intermixed ● 12G/HD-SDI/SD-SDI, return, remote signal, tally, intercom two systems ● 170W power supply ● HD-SD/SD-SDI multi format support

PROTECH challenges with technology to be needed.

Because No.1 Optical Fiber Transmission

The world's first 8K broadcast camera-mounted transmission device Successful 12G × 4 relay

The world's first NSR-412 and NS-X4012 retrofitted with 8K satellite relays succeeded on June 9, 2018. Since then, NSR-412 and NS-X4012 have been working stably at various 8K relay sites. Optical fiber transmission of the latest cameras in the video industry, such as Canon 8K cameras and Astrodesign 8K camera recorders, can be realized.

Very active in drama and movie shooting

It has been adopted and photographed at the latest drama shooting sites of each broadcasting station. In the drama scene and movie shooting scene, the selection of the camera model may change depending on the purpose and the director's idea. Also, the recording format may change depending on the situation. PROTECH's optical fiber transmission equipment can transmit even if the camera manufacturer changes, so the biggest feature is that you can use it with any type of cameras.

World's first 8K aerial recording success

On April 1, 2019, in cooperation with Canon, Toho Airlines, and Totsu Creative Vision, the new NSR-X412 was installed in a gyroscope for photography equipped with the latest Canon 8K camera and our optical transmission device in a helicopter. We succeeded in transmitting 8K video into the helicopter and recording the world's first 8K aerial photography.

Photo cooperation and document provision : Canon Inc. Toho Airlines Co., Ltd. Totsu Creative Vision Co., Ltd. Full Score Co., Ltd.

Supporting the latest sites with the latest technology

This is NSR-X412 TBS Tex special specification shooting site. Optical fiber transmission scene that camera to recording equipment. In combination with Canon's ultra-compact 8K camera, cameramen can record in almost the same shooting style as before. In this location field, PROTECH optical fiber transmission device NSR-X412 (TBS-Tex specifications), 16-inch 12G input 4K monitor HDX-1600 that is easy to use on site, the latest battery BP-98Li×16 and BP-160Li×6 that is ideal for overseas locations and battery charger DS-4×4 were used. All 8K shots are recorded with our batteries.

写真・文却提供 TBS テックス　高垣俊宏様

PROTECH Optical Fiber Transmission

Number of patents holder for camera-mounted optical transmission system

PROTECH has 38 patents for camera-mounted optical fiber transmission equipment. This number of patents is the result of the technology that PROTECH has cultivated. PROTECH, which is at the forefront of 8K 4K optical fiber transmission technology, has created a number of optical fiber transmission equipment that can only be realized by PROTECH.

An optical transmission system can transmit analog video signals to digital without switching (Patent No,5873207)

An epoch-making system with only the same delay as metal transmission is built, and there is no extra menu operation to avoid bugs on site. Have you ever felt that you want to send another HD line even though there are surplus analog lines? That's right. Realizing what everyone thinks, the world's first digital-analog recognition with the same BNC input and output terminals. (Installed by model)

Lots of ingenuity to transmit the most advanced optical transmission with better characteristics.

There are a number of high hurdles in the design team when developing 12G-SDI optical fiber transmission. Advanced skills are required from circuit design to connector parts, harnesses, and basic artwork. 12G-SDI is a severe signal that does not pass through the joint of the BNC-BNC cable. For this reason, the PROTECH engineering team is not convinced with commercially available parts, and BNC connectors are also developed by own. In order to manufacture more advanced products. We spend a great deal of research and development and develop even connectors. We are constantly practicing new development of necessary parts that do not exist in the world.
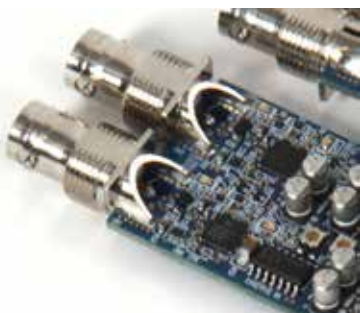
The most ideal analog waveform

Analog optical fiber transmission technology is also at the top level in the industry. Realizes analog transmission with optical fiber transmission as if it were metal transmission. Among optical fiber transmission technologies, analog transmission requires the most technical capability. In particular, when sending standard signals such as genlock, temporary interruptions can cause problems for the entire system. Resistant to temperature changes, it operates stably from the cold to the equator.
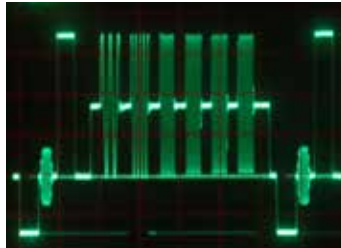
After optical fiber transmission of multi-burst signal from signal generator observe output waveform with wave form monitor

Motion controller, electric head control, LANC circuit can also be transmitted

It can transmit motion control signals and electric pan head signals from Cmotion and other companies. In particular, the PROTECH Motion Controller can be controlled by driving the lens retrofit motor with the 12-pin lens output of the camera (patent No.59774744), focus expansion with the motion controller (patent), position memory (patent), etc. It also supports LANC lines and the new Canon remote control communication.

Compatible with custom systems for OB VAN,stadium,e.t.c.,

With an integrated development system, we can adopt handle custom systems such as video signals, focus control signals, zoom control signals, iris control signals, motorized head control signals, camera control signals (Ikegami Tsushinki Co., Ltd., Canon new cameras, Panasonic cameras) , JVC Kenwood camera, Sony camera, NEC camera, KOWA high sensitivity camera) remote control optical transmission, ARRI, RED remote control transmission, each company intercom connection, audio table connection, AES / EBU audio signals, tally signals and etc. Return switching within the transmitter (patented) and connecting the slave unit to the slave unit (patented) can be used to connect cables smartly. From the Build-up Unit®, viewfinders, multiple monitors for relays, 12G-SDI distributors, Field Mixer®, etc., we can propose equipment that is required in the field.

Return switching with optical transmission system (Option) (Patent No,5162719)

The PROTECH optical fiber transmission device enables return switching as an option within the camera adapter. (Patent 5162719) Optional return adapter VIF-55FS (built-in frame synchronizer) is also available. In addition, return switching with the viewfinder (patent 5038469) and return switching with the system camera adapter (patent 5873207) are also possible.

Equipped with optical transmission and safety power transmission circuit (Patent No,5922294)

On-site transmission equipment such as studio cameras is equipped with a circuit that does not supply power even when an SMPTE cable is plugged into another company's studio camera. Patented in Japan and the US for optical fiber transmission equipment (Patent No.5922294) Power supply after recognizing that the handset connected to the base station is PROTECH. PROTECH can build a system that is very important in terms of safety.

Full range of adapters for handy camera as shoulder camera (Patent No,5957158)

The shoulder adapter makes it easy to attach the optical transmission device to the camera. The shoulder adapter ST-7R can be attached and removed when the studio is in operation, with an optical transmission device installed outdoors, and when the battery is operated and the camera's center of gravity changes in an operating state. Equipped with two attachment / detachment mechanisms when mounting on a tripod plate. (Patent) Furthermore, the grip part is equipped with a light terminal. (Patent)

System camera adapter is also substantial (Patent No,5873207)

Lens exchange is possible for shoulder cameras, Astrodesign 8K cameras, ARRI 4K cameras, RED 8K / 4K cameras, Canon 8K / 4K cameras, Panasonic 4K cameras, Sony 4K cameras, etc. It can be operated like a system camera by combining the camera with a box lens. A system can be constructed by combining with the Protech Remote Control Panel RCP-824 for cameras that cannot be equipped with a CCU. Iris control is possible from the photographer side by the iris control equipment (patent) on the system camera adapter.

No.1 in total sales in Japan
The functions that can only be realized by PROTECH.

Professional cameramans are also resident in development

In order to realize optical transmission at the latest camera shooting site, we deepen development cooperation with each famous camera manufacturer, and also conduct tests with actual actual devices before release. In addition, we are also engaged in production work in-house, and professional photographers are in-house. Active photographers who regularly handle shootings for kindergarten playgrounds and weddings are participating in the development, and we are developing accurate products that put users first.

Shooting sites for popular radio programs at Nagoya, Aichi

8K camera optical fiber transmission verification scene

Advanced development environment. Many state-of-the-art equipment has been introduced

In order to realize optical fiber transmission at the latest camera shooting site, we develop with each famous camera manufacturer, and also conduct tests with actual devices before release. At our in-house development center, our staff who have been involved in the design of SDI equipment for decades make full use of the most advanced 12G measuring instruments and 12G signal generators. The 12G-SDI load test environment, temperature environment test environment, EMI test environment, and chip mounter facilities are also in-house. In addition, we have introduced the latest surface mounting equipment, the latest fiber laser processing machine, and the cable crimping machine to make harnesses in the factory. We have strong focus on development, can produce the prototype parts that it has designed with its own equipment. Our great feature and strength is that it has a very light footwork for prototype development by having many the latest equipment.
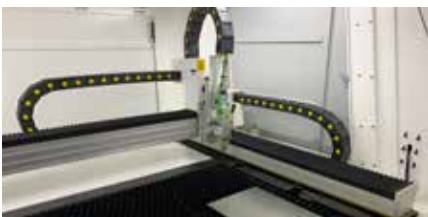
The latest SDI development environment

Surface mount equipment

Before delivery

Before shipping VF

Equipped with two the latest fiber laser processing machines

Real machine verification room

2 NC milling machines

We can make total proposals including accessories with our optical transmission system

PROTECH can construct a consistent system including optical fiber transmission devices, viewfinders, system camera adapters, SMPTE optical fiber cables, motion controllers, lens remote control devices, and tally display devices. Based on our abundant experience and long-term experience, we can propose various systems and combinations with products from other companies. In addition to HD optical fiber transmission, it strongly supports 8K / 4K sites.

Optical transmission systems Line-up

Optical Fiber Camera Adapter/Optical Fiber Base Station NS/NSR series

8K	4K		4K		4K		8K	4K		4K

NSR-X412 **NSR-X4** **NSR-X1/N** **NS-X412** **NS-X4** **NS-X1**

NS-X4012GTS **NS-X40GTS** **NS-X10/N** **NS-X4012GTS** **NS-X40** **NS-X10**

Model	NSR-X412	NSR-X4	NSR-X1	NS-X412	NS-X4	NS-X1
Features	• 8K/4K/HD multirate format support • 12G-SDI × 4-IN 1 thru-out • Thru-out can be changed to 12G-SDIIN when ordering • 3G-SDI RET × 1 REMOTE × 1 • DC OUT 120W TALLY support • LANC, analog audio by installing optional unit • AES/EBU L/R total 2CH input/output • Carbon body	• 4K/HD multirate format support • 3G-SDI × 4-IN 1 thru-out • Thru-out can be changed to 3G-SDIIN when ordering • 3G-SDI RET × 1 REMOTE × 1 • DC OUT 120W TALLY support • LANC, analog audio by installing optional unit • AES/EBU L/R total 2CH input/ output • Carbon body	• HD multirate format support • 3G-SDI × 1 -IN 1thru-out • Thru-out can be changed to 12G-SDIIN when ordering • 3G-SDI RET × 1 REMOTE × 1 • DC OUT 120W TALLY support • LANC, analog audio by installing optional unit • AES/EBU L/R total 2CH input/ output • Carbon body	• 8K/4K/HD multirate format support • 12G-SDI × 4-IN 1 thru-out • 3G-SDI RET × 1 REMOTE × 1 • DC OUT 120W TALLY support • LANC, analog audio • AES/EBU L/R total 2CH input/output	• 4K/HD multirate format support • 3G-SDI × 4-IN 1thru-out • Thru-out can be changed to 3G-SDIIN when ordering • 3G-SDI RET × 1 REMOTE × 1 • DC OUT 120W TALLY support • LANC, analog audio • AES/EBU L/R total 2CHinput/output	• HD multirate format support • 3G-SDI × 1 -IN 1thru-out • Thru-out can be changed to 3G-SDIIN when ordering • 3G-SDI RET × 1 REMOTE × 1 • DC OUT 120W TALLY support • LANC, analog audio • AES/EBU L/R total 2CH input/output
Supported base station	NS-X4012/NS-X4012GTS	NS-X40/NS-X40GTS	NS-X10	NS-X4012/NS-X4012GTS	NS-X40/NS-X40GTS	NS-X10
SDI input	12G-SDI x 4(12G-SDI × 5 by custom)	3G-SDI x 4	3G-SDI x 1	12G-SDI x4(12G-SDI × 5 by custom)	3G-SDI x 4	3G-SDI x 1
SDI through output	12G-SDI x 1(CH1、unable for custom)	3G-SDI x 1(CH1)	3G-SDI x 1(CH1)	12G-SDI x 1(CH1、unable for custom)	3G-SDI x 1(CH1)	3G-SDI x 1(CH1)
Base side SDI output	12G-SDI each 2 x 4	3G-SDI each 2 x 4	3G-SDI 2 x 1	12G-SDI each 2 x 4	3G-SDI each 2 x 4	3G-SDI each 2 x 1
Base side RETURN IN	12G-SDI/Analog 2 switching	3G-SDI/Analog 2 switching	3G-SDI/Analog 2 switching	12G-SDI/Analog 4 switching	3G-SDI/Analog 4 switching	3G-SDI/Analog 4 switching
GENLOCK	3G-SDI/Analog x 1	3G-SDI/Analog x 1	3G-SDI/Analog x 1	3G-SDI/Analog x 1	3G-SDI/Analog x 1	3G-SDI/Analog x 1
Analog input	–	–	–	–	–	–
Light intensity display	○	○	○	○	○	○
REMOTE	Supports for SONY Compatible with others by conversion cable	Supports for SONY Compatible with others by conversion cable	Supports for SONY Compatible with others by conversion cable	Supports for SONY and Panasonic Compatible with others by conversion cable	Supports for SONY and Panasonic Compatible with others by conversion cable	Supports for SONY and Panasonic Compatible with others by conversion cable
φ 2.5 remote	LANC(Supported by optional unit)	LANC(Supported by optional unit)	LANC(Supported by optional unit)	LANC(Supported by optional unit)	LANC(Supported by optional unit)	LANC(Supported by optional unit)
LAN	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps
Base intercom input	2W/4W S25 pin suppport/Clearcom's intercom/Connectable to base station	2W/4W S25 pin support/Clearcom' s intercom/Connectable to base station	2W/4W S25 pin support/Clearcom' s intercom/Connectable to base station	2W/4W S25 pin support/Clearcom's intercom/Connectable to base station	2W/4W S25 pin support/Clearcom's intercom/Connectable to base station	2W/4W S25 pin support/Clearcom' s intercom/Connectable to base station
Intercom head set	ENG/PRD 2 headset available	ENG/PRD 2 headset available	ENG/PRD 2 headset available	ENG/PRD 2 headset available	ENG/PRD 2 headset available	ENG/PRD 2 headset available
Handset side clear com compatible with belt back adapter	○ Compatible with an optional adapter	○ Compatible with an optional adapter	○ Compatible with an optional adapter	○ Compatible with an optional adapter	○ Compatible with an optional adapter	○ Compatible with an optional adapter
Contact tally	R tally/G tally support (option)	R tally/G tally support (option)	R tally/G tally support (option)	–	–	–
PROTECH HS Voltage tally	R tally/G tally support	R tally/G tally support	R tally/G tally support	R tally/G tally support	R tally/G tally support	R tally/G tally support
TC	I/O(Supported by optional unit)	I/O(Supported by optional unit)	I/O(Supported by optional unit)	IN OUT no switching, can be used simultaneously	IN OUT no switching, can be used simultaneously	IN OUT no switching, can be used simultaneously
Audio	Analog IN x2/OUT x2 AES/EBU degital L/R x1pair input/ output (Supported by optional unit)	Analog IN x2/OUT x2 AES/EBU degital L/R x1pair input/ output (Supported by optional unit)	Anaog IN x2/OUT x2 AES/EBU degital L/R x1pair input/ output (Supported by optional unit)	Anaog IN x2/OUT x2 AES/EBU degital L/R x1 pair input/ output	Anaog IN x2/OUT x2 AES/EBU degital L/R x1 pair input/ output	Anaog IN x2/OUT x2 AES/EBU degital L/R x1 pair input/ output
Optical cable	LEMO/Select when ordering Tajimi	LEMO/Select when ordering Tajimi	LEMO/Select when ordering Tajimi	LEMO/Select when ordering Tajimi	LEMO/Select when ordering Tajimi	LEMO/Select when ordering Tajimi
Cable power supply distance	about 2400m(Varies depending on the cable)	about 2400m(Varies depending on the cable)	about 2400m(Varies depending on the cable)	about 2400m(Varies depending on the cable)	about 2400m(Varies depending on the cable)	about 2400m(Varies depending on the cable)
No power supply distance	About 10km(Varies depending on the cable)	About 10km	About 10km	About 10km	About 10km	About 10km
Power supply	AC; 120W (NS-X4012) 170W (NS-X4012GTS)	AC; 120W (NS-X40) 170W (NS-X40GTS)	AC; 120W (NS-X10)	AC; 120W (NS-X4012) 170W (NS-X4012GTS)	AC; 120W (NS-X40) 170W (NS-X40GTS)	AC; 120W (NS-X10)
Outside (WxHxD) mm	151 x148 x101	151 x148 x101	151 x148 x101	201 x163 x90(body) 201 x163 x126(Including power supply)	201 x163 x90(body) 201 x163 x126(Including power supply)	201 x163 x90(body) 201 x163 x126(Including power supply)
Weight	1.4kg	1.4kg	1.4kg	2.3kg	2.3kg	2.3kg
Accessory	Instruction manual CD, Guarantee, BNC-04M x4、BNC-1M x1、RCC-450S	Instruction manual CD, Guarantee, BNC-04M x4、BNC-1M x1、RCC-450S	Instruction manual CD, Guarantee, BNC-04M x1、BNC-1M x1、RCC-450S	Instruction manual CD, Guarantee, BNC-04M x 4、BNC-1M x 1、RCC-450S	Instruction manual CD, Guarantee, BNC-04M x 4、BNC-1M x 1、RCC-450S	Instruction manual CD, Guarantee, BNC-04M x 1、BNC-1M x 1、RCC-450S

The field evolves.

What kind of system is necessary to realize the ideal of the site? We have been developing with that thought. Video transmission must be PROTECH. Our driving force is our brand and strong intentions. On-site systematization evolves when the expressive ability is expanded as much as possible and equipped with all power .

LS series	PS series	For CANON C700	ST-7 HIKARI	MASTER LINE

4K LS-750 / LS-850

4K PS-470RHD/N / PS-570RHD/N

4K NS-C700 / NS-X40

4K ST-7HIKARI / IS-X100

8K 4K ML-0616F / ML-1606M

8K 4K ML-0308F / ML-0803M

	LS-750	PS-470	NS-C700	ST-7 HIKARI
Features	• 4K/HD multirate format support • 3G-SDI × 5-IN 1 thru-out • 1G-SDI RET × 2 REMOTE × 1 • DC OUT 120W (GTS200W) TALLY support • LANC, analog audio • AES/EBU L/R total 2CH input/output	• HD multirate format support • 3G-SDI × 1-IN 1 thru-out • 3G-SDI RET 1 REMOTE × 1 • DC OUT 120W TALLY support • LANC, analog audio	• 4K/HD multirate format support • 3G-SDI × 5-IN • 3G-SDI RET × 1 REMOTE × 1 • DC OUT 120W TALLY support	• 4K/HD multirate format support • 12G-SDI × 4-IN 1 thru-out • 3G-SDI RET × 1 REMOTE × 1 • DC OUT 120W TALLY support
	LS-850/850GTS/850GT	570RHD/1	NS-X40/NS-X40GTS	IS-X100
SDI input	3G-SDI x 5	3G-SDI x 1	3G-SDI x 5 (12G-SDI × 5 by custom)	12G-SDI x 1
	SG-SDI x 5	–	3G-SDI x 1 (CH1, unable for custom)	12G-SDI x 1
	3G-SDI each 2 x 5	3G-SDI 2CH	3G-SDI each 2 x 4	12G-SDI each 2 x 1
	For 3G-SDI x1/For analog 2 switching	3G-SDI x1/For analog x1	3G-SDI/Analog 2 switching	3G-SDI/Analog 2 switching
	Analog x 1	Analog x 1	3G-SDI/Analog 2 switching	3G-SDI/Analog x 1
	–	–	–	–
	○	–	○	○
	Supports for SONY・Panasonic	Supports for SONY・Panasonic	Supports for SONY Compatible with others by conversion cable	Supports for SONY・Panasonic Select when ordering
	Only old type	Only old type	LANC/PROREMOTE/PRO2 support	LANC/PROREMOTE/PRO2 support (option)
	100Mbps	–	1Gbps	–
	2W/4W S25 pin support/Clearcom's intercom/Connectable to base station	2W/4W S25 pin support/Clearcom intercom/Connectable to base station	2W/4W S25 pin support/Clearcom's intercom/Connectable to base station	2W/4W S25 pin support/Clearcom's intercom/Connectable to base station
	ENG/PRD 2 headset available	ENG/PRD 2 headset available	ENG/PRD 2 headset available	ENG/PRD 2 headset available
	○ Compatible with an optional adapter	–	○ Compatible with an optional adapter	○ Compatible with an optional adapter
	R tally/G tally support	R tally/G tally support	R tally/G tally (option)	–
	R tally/G tally support	R tally/G tally support	R tally/G tally support	R tally/G tally support
	I/O	I/O	IN OUT no switching, can be used simultaneously	I/O
	Analog IN x2/OUT x2	–	Analog IN x2/OUT x2 AES/EBU degital L/R x1 pair input/output (Supported by optional unit)	–
	LEMO/Select when ordering Tajimi	LEMO/Select when ordering Tajimi	LEMO/Select when ordering Tajimi	LEMO/Select when ordering Tajimi
	about 2400m(Varies depending on the cable)	about 2400m(Varies depending on the cable)	about 2400m(Varies depending on the cable)	about 2400m(Varies depending on the cable)
	Over 2km	Over 2km	About 10km	About 10km
	AC; 60W (LS-750/850) 120W (LS-750GTS/850GTS) 160W (LS-750GT/850GT)	AC; 120W (PS-570)	AC; 120W (NS-X40) 170W (NS-X40GTS)	AC; 100W (IS-X100)
	750 : 203 x175 x106 750GTS : 203 x175 x133 750GT : 203 x175 x170	151 x148 x101	151 x148 x106	197 x246 x500
	750 : 2.3kg/750GTS : 2.6kg 750GT : 3.3kg	1.8kg	1.4kg	2.9kg
	取扱説明書 CD、保証書、BNC-04M x4、BNC-1M x1、RCC-450S	取扱説明書 CD、保証書、BNC-04M x2、BNC-1M x1、RCC-450S		取扱説明書 CD、保証書、BNC-04M x 4、BNC-1M x 1、RCC-450S

Optical JEEP handset	ML-0616F	ML-0308F
Features	• 8K/4K/HD/SD multirate format support • 12G – 22 lines etc. are possible	• 8K/4K/HD/SD multirate fornat support • 12G – 11 lines etc. are possible
Supported optical JEEP base unit	ML-1606M	ML-0803M
SDI input	12G-SDI x 16	12G-SDI x 8
SDI thru-output	12G-SDI x 16	12G-SDI x 8
Base side SDI output	12G-SDI x 16	12G-SDI x 8
Bse side RETURN IN	12G-SDI x 6	12G-SDI x 3
Analog input	Analog x 2	Analog x 2
Light intensity display	○	○
REMOTE	x 4 systems RS-232/422/485 support	x 4 systems RS-232/422/485 support
GPI IN/OUT	○	–
LAN	RJ45 x1	RJ45 x1
LAN/POE	RJ45 x4 1Gbps POE support Ethernet compatible	1Gbps POE support Ethernet compatible
Base intercom input	2W 1/2 : XLR 3P x2 4WT/4WR : XLR 3P x2	2W 1/2 : XLR 3P x2 4WT/4WR : XLR 3P x2
Intercom headset	ENG/PRD 2 headset available	ENG/PRD 2 headset available
Handset side claercom belt back adapter support	○	○
Contact tally	R tally/G tally	R tally/G tally
TC	I/O	I/O
Audio	Analog IN x1/OUT x 1 AES/EBU L/R IN x4/ OUTx4	AES/EBU L/R IN x2/ OUTx2
Optical cable	LEMO/Select when ordering Tajimi	LEMO/Select when ordering Tajimi
Cable power supply distance	about 2400m(Varies depending on the cable)	about 2400m(Varies depending on the cable)
No power supply distance	About 10km	About 10km
Power supply	AC; 450W	AC; 450W
Outside (WxHxD) mm	220: 220 x130 x390 2200: 220 x174 x390	220: 220 x130 x390 2200: 220 x174 x390
Weight	220:9kg 2200:12kg	220:9kg 2200:12kg
Accessory	Instruction manual CD, Guarantee, BNC-04M x 1, BNC-1M x 1, RCC-450S	Instruction manual CD, Guarantee, BNC-04M x 1, BNC-1M x 1, RCC-450S

Improved all technology by on-site professionals.

A supreme system accessories that extends the capabilities of the latest cameras to the limit.

※ Product composition in this photo
Camera   SONY PXW-Z450
Lens   FUJIFILM UA24×7.8BE
Optical fiber conversion system   PROTECH NSR-X4
Tripod   ACEBIL CINE60

PROTECH has a lineup of various products that make the camera more sophisticated by taking advantage of years of experience in system construction, development, and custom-ordering at various shooting sites.
With a variety of products such as build-up units and professional viewfinders, focusing on optical fiber conversion systems, the site is backed up strongly.

Simultaneous transmission of 4K video and 2K video. PROTECH technology realizes the ultimate optical fiber transmission.

Aggregating a number of innovative technologies to become professionals around the world.
A completely new optical conversion system that overturns the conventional concept of camera transmission.
Supports the absolute quality required for the camera system at the broadcast site.
Reliability that cannot be expressed only by numerical values demonstrates true mobility.

※ Product composition in this photo
Camera   JVC GY-HC900CH
Lens   Canon CJ20e×7.8B IASE
Optical fiber conversion system   PROTECH NSR-X1
Tripod   ACEBIL CINE60

8K/4K/HD Optical fiber transmission

Optical fiber camera adapter   NSR series

Sending 12G 〜 HD-SDI ✕ 5/Return 3G 〜 Analog transmission、Intercom, LAN line, Power output 120W, Carbon body

Minimum・Actual size

12G 4ch 8K
Optical Fiber Camera Adapter
NSR-X412 price: **$24,480**

● **Accessories**：BNC-04M x 4/ BNC x 1/ RCC-450S/Instruction manual/Guarantee

NSR-X412

Features ● 12G 4ch 8K support optical fiber camera adapter ● 4K/HD, HD/4K can be intermixed ● 12G/HD-SDI/SD-SDI, return, remote signal, tally, intercom two systems　● 170W power supply ● HD-SD/SD-SDI multi format support

Specifications ● INPUT/OUTPUT / SDI IN : BNCx4 12G/6G/3G/HD / SDI OUT : BNCx1 SDI IN through out / SDI RET OUT : BNCx1 SDI/VBS / GENLOCK OUT : BNCx1 SDI/VBS / AUDIO Headphone : φ 3.5 Stereo Mini Jackx1 / MONITOR IF OUT : Mini 6Px1 / OPTION I/O : HD D-SUB 15Px1 (TC, AUDIO I/O, AES/EBU I/O, LANC) / DC OUT : 120W (NS-X4012) 170W (NS-X4012GTS ● FUNCTION / TALLY Indicator : Indicator LED x2 / REMOTE : 8P femalex1 / LAN : RJ45 / INTERCOM HEADSET : XLR 4P male x2 ● GENERAL / Size (WxHxD) : 151x148x101 mm / Weight : 1.4 kg ● ACCESSORIES / Remote Cablex1

Transmission 12G x4 + HD at this size
12G/6G/3G/HD Dual link, quad link support

NSR-X412/NS-X412 capable
12G 4ch 8K Optical Fiber Base Station
(300W Power supply)

NS-X4012GTS price: $24,480

● **Accessories** : AC cable / Instruction manual / Guarantee

NS-X4012GTS

NSR-X412 capable Base Station

Features ● 12G 4ch 8K support optical fiber base station

Specifications ● INPUT 12G/3G/HD/SDI/VBS RET IN : BNCx4(NSR-X412 selects 1ch) / REFERENCE/3G/HD/SDI/VBS IN : BNCx1 for Reference / AUDIO-PGM IN : XLR 3P female x2 / AES EBU-PGM IN : XLR 3P female x1 ● OUTPUT 12G/3G/HD/SD-SDI OUT : BNCx2 x4 / THROUGH OUT(3G/HD/SDI OUT) : BNCx1 3G/HD/SDI RET IN 1 Input Through out / AUDIO-CA OUT : XLR 3P male x2 / AES EBU OUT : XLR 3P male x1 / AUDIO MONITOR Headphone : φ 6.3 Stereo Jackx1 / Optical Fiber Connector : SMPTEx1 OPT Cable Length maximum 2km ● FUNCTION / TC IN / TC OUT : BNCx1/BNCx1 / TC OUT THROUGH OUT : BNCx1 / 2W INTERCOM : XLR 3P female x2 for connection to 2W intercom 2 line / 4W INTERCOM TALLY : D-sub 25Px1   for connection to INTERCOM line and TALLY signal / INTERCOM HEADSET : XLR 4P malex1 / TALLY IN : BNCx1 PROTECH SYSTEM/VOLTAGE TYPE tally signal / TALLY Indicator : Indicator LEDx1 GREEN / RED / REMOTE : 10P malex1 / 8P femalex1 / CONTROL L1(LANC) : φ 2.5 3P Mini Jack x1 for connection to LANC Camera / CONTROL L12 / LAN : RJ45 ● GENERAL / AC POWER/DC POWER / Power Requirement : 360W / Power Supply : 300W / Size (WxHxD) : 215x160x302 mm / Weight : 5 kg

NSR-X412/NS-X412 capable
12G 4ch 8K Optical Fiber Base Station
(150W Power supply)

NS-X4012 price: $22,980

● **Accessories** : AC cable / Instruction manual / Guarantee

NS-X4012

NSR-X412 capable Base Station

Features ● 12G 4ch 8K support optical fiber base station

Specifications ● INPUT 12G/3G/HD/SDI/VBS RET IN : BNCx4(NSR-X412 selects 1ch) / REFERENCE/3G/HD/SDI/VBS IN : BNCx1 for Reference / AUDIO-PGM IN : XLR 3P female x2 / AES EBU-PGM IN : XLR 3P female x1 ● OUTPUT 12G/3G/HD/SD-SDI OUT : BNCx2 x4 / THROUGH OUT(3G/HD/SDI OUT) : BNCx1 3G/HD/SDI RET IN 1 Input Through out / AUDIO-CA OUT : XLR 3P male x2 / AES EBU OUT : XLR 3P male x1 / AUDIO MONITOR Headphone : φ 6.3 Stereo Jackx1 / Optical Fiber Connector : SMPTEx1 OPT Cable Length maximum 2km ● FUNCTION / TC IN / TC OUT : BNCx1/BNCx1 / TC OUT THROUGH OUT : BNCx1 / 2W INTERCOM : XLR 3P female x2 for connection to 2W intercom 2 line / 4W INTERCOM TALLY : D-sub 25Px1   for connection to INTERCOM line and TALLY signal / INTERCOM HEADSET : XLR 4P malex1 / TALLY IN : BNCx1 PROTECH SYSTEM/VOLTAGE TYPE tally signal / TALLY Indicator : Indicator LEDx1 GREEN / RED / REMOTE : 10P malex1 / 8P femalex1 / CONTROL L1(LANC) : φ 2.5 3P Mini Jack x1 for connection to LANC Camera / CONTROL L12 / LAN : RJ45 ● GENERAL / AC POWER/DC POWER / Power Requirement : 150W / Power Supply : 120W / Size (WxHxD) : 215x115x302 mm / Weight : 3.8 kg

This is NS-X4012GTS.

All channel ULTRA-SDI 2 outputs

4K/HD Optical fiber transmission

Optical fiber camera adapter   NSR series

*Sending 3G 〜 HD-SDI × 4/ Return 3G 〜 Analog transmission, Intercom, LAN line, Power output 120W, Carbon body**

Minimum・Actual size

3G 4ch 4K
Optical Fiber Camera Adapter
NSR-X4 price: **$14,480**

● 付属品 : BNC-04M x 4/ BNC x 1/ RCC-450S/ 取扱説明書 / 保証書

NSR-X4

Features ● 3G 4ch 4K support optical fiber camera adapter ● 4K/HD, HD/4K can be intermixed ● 3G/HD-SDI/SD-SDI, return, remote signal, tally, intercom two systems ● 170W power supply（Instantaneous maximum output value) ● SDI supports 3G level A/B ● HD-SD/SD-SDI multi format support

Specifications ● INPUT/OUTPUT / SDI IN : BNCx4   3G/HD / SDI OUT : BNCx1   SDI IN   through out / SDI RET OUT : BNCx1 SDI/VBS / GENLOCK OUT : BNCx1 SDI/VBS / AUDIO Headphone : φ 3.5 Stereo Mini Jackx1   / MONITOR IF OUT : Mini 6Px1 / OPTION I/O : HD D-SUB 15Px1 (TC, AUDIO I/O, AES/EBU I/O, LANC) / DC OUT : 120W (NS-X4012) 170W (NS-X4012GTS)   ● FUNCTION / TALLY Indicator : Indicator LEDx2 / REMOTE : 8P femalex1 / LAN : RJ45 / INTERCOM HEADSET : XLR 4P male x2   ● GENERAL / Size (WxHxD) : 151x148x101 mm   / Weight : 1.4 kg   ● ACCESSORIES / Remote Cablex1

Transmission 3Gx5 at this size
3G/HD Dual link, quad link support

3G 4ch 4K Optical Fiber Base Station
(300W Power supply)
NSR-X4/NS-X4 capable

NS-X40GTS price: **$15,980**

● **Accessories**：AC cable / Instruction manual / Guarantee

NS-X40GTS

NSR-X4/NS-X4 capable Base Station

Features ● 3G 4ch 4K support optical fiber base station

Specifications ● INPUT 3G/HD/SDI/VBS RET IN : BNCx4(NSR-X4 selects 1ch) / REFERENCE/3G/HD/SDI/VBS IN : BNCx1 for Reference / AUDIO-PGM IN : XLR 3P female x2 / AES EBU-PGM IN : XLR 3P female x1 ● OUTPUT ＜出力＞ 3G/HD/SD-SDI OUT : BNCx2 x4 / THROUGH OUT(3G/HD/SDI OUT) : BNCx1 3G/HD/SDI RET IN 1 Input Through out / AUDIO-CA OUT : XLR 3P male x2 / AES EBU OUT : XLR 3P male x1 / AUDIO MONITOR Headphone : φ 6.3 Stereo Jackx1 / Optical Fiber Connector : SMPTEx1 OPT Cable Length maximum 2km ● FUNCTION / TC IN / TC OUT : BNCx1/BNCx1 / TC OUT THROUGH OUT : BNCx1 / 2W INTERCOM : XLR 3P female x2 for connection to 2W intercom 2 line / 4W INTERCOM TALLY : D-sub 25Px1 for connection to INTERCOM line and TALLY signal / INTERCOM HEADSET : XLR 4P malex1 / TALLY IN : BNCx1 PROTECH SYSTEM/VOLTAGE TYPE tally signal / TALLY Indicator : Indicator LEDx1 GREEN / RED / REMOTE : 10P malex1 / 8P femalex1 / CONTROL L1(LANC) : φ 2.5 3P Mini Jack x1 for connection to LANC Camera / CONTROL L12 / LAN : RJ45 ● GENERAL / AC POWER/DC POWER / Power Requirement : 360W / Power Supply : 300W / Size (WxHxD) : 215x160x302 mm / Weight : 5 kg

This is NS-X40GTS.

3G 4ch 8K Optical Fiber Base Station
(150W Power supply)
NSR-X4/NS-X4 capable

NS-X40 price: **$14,480**

● **Accessories**：AC cable/Instruction manual/Guarantee

NS-X40

NSR-X4/NS-X4 capable Base Station

Features ● 3G 4ch 8K support optical fiber base station

Specifications ● INPUT 3G/HD/SDI/VBS RET IN : BNCx4(NSR-X4/NS-X4 selects 1ch) / REFERENCE/3G/HD/SDI/VBS IN : BNCx1 for Reference / AUDIO-PGM IN : XLR 3P female x2 / AES EBU-PGM IN : XLR 3P female x1 ● OUTPUT 3G/HD/SD-SDI OUT : BNCx2 x4 / THROUGH OUT(3G/HD/SDI OUT) : BNCx1 3G/HD/SDI RET IN 1 Input Through out / AUDIO-CA OUT : XLR 3P male x2 / AES EBU OUT : XLR 3P male x1 / AUDIO MONITOR Headphone : φ 6.3 Stereo Jackx1 / Optical Fiber Connector : SMPTEx1 OPT Cable Length maximum 2km ● FUNCTION/ TC IN / TC OUT : BNCx1/BNCx1 / TC OUT THROUGH OUT : BNCx1 / 2W INTERCOM : XLR 3P female x2 for connection to 2W intercom 2 line / 4W INTERCOM TALLY : D-sub 25Px1 for connection to INTERCOM line and TALLY signal / INTERCOM HEADSET : XLR 4P malex1 / TALLY IN : BNCx1 PROTECH SYSTEM/VOLTAGE TYPE tally signal / TALLY Indicator : Indicator LEDx1 GREEN / RED / REMOTE : 10P malex1 / 8P femalex1 / CONTROL L1(LANC) : φ 2.5 3P Mini Jack x1 for connection to LANC Camera / CONTROL L12 / LAN : RJ45 ● GENERAL / AC POWER/DC POWER / Power Requirement : 150W / Power Supply : 120W / Size (WxHxD) : 215x115x302 mm / Weight : 3.8 kg

All channel
3G/HD-SDI 2 outputs

4K/HD Optical fiber transmision

Sending 12G~ HD-SDI/RET 12G ~ Analog transmission, Intercom, LAN line, Power output 120W, Carbon body*

12G 1ch Optical Fiber Camera Adapter

NSR-X1/N price: **$8480**

● **Accessories** : BNC-04M x 1 / BNC x 1 / RCC-450S / Instruction manual/ Guarantee

Features ● 12G 1ch 4K support optical fiber camera adapter ● 4K/HD, HD/4K can be intermixed ● 3G/HD-SDI/SD-SDI, return, remote signal, tally, intercom two systems ● 170W power supply(Instantaneous maximum output value) ● SDI supports 3G level A/B ● HD-SD/SD-SDI multi format support

NSR-X1

Specifications ● INPUT/OUTPUT / 12G-SDI IN : BNCx1 (Base station output : 2 Outputs for each Input) / 12G-SDI OUT : BNCx1   SDI IN input through out / SDI RET OUT /VBS : BNCx1 / GENLOCK OUT /SDI : BNCx1 / MONITOR IF OUT : Mini 6Px1 / OPTION I/O : HD D-SUB 15P x1 (TC, AUDIO I/O, AES/EBU I/O, LANC) / DC OUT : 120W (NS-X10) 170W (NS-X10GTS) ● FUNCTION / TALLY Indicator : Indicator LEDx2 / REMOTE : 8P femalex1 / LAN : RJ45 / INTERCOM HEADSET : XLR 4P male x2 ● GENERAL / Size (WxHxD) : 151x148x101 mm / Weight : 1.4 kg ● ACCESSORIES / Remote Cablex1

NSR-X1/NS-X1 capable 12G 1ch 12G supported Optical Base Station (150W Power supply)

NS-X10 price: **$8,480**

NSR-X1/NS-X1 capable Base Station

Features ● 12G 4ch 4K support optical fiber base station

NS-X10

Specifications ● INPUT 12G/HD/SDI/VBS RET IN : BNCx4(NSR-X4/NS-X4 selects 1ch) / REFERENCE/12G/HD/SDI/VBS IN : BNCx1 for Reference / AUDIO-PGM IN : XLR 3P female x2 / AES EBU-PGM IN : XLR 3P female x1 ● OUTPUT 12G/HD/SD-SDI OUT : BNCx2 x1 / THROUGH OUT(12G/HD/SDI OUT) : BNCx1   12G/HD/SDI RET IN 1 Input Through out / AUDIO-CA OUT : XLR 3P male x2 / AES EBU OUT : XLR 3P male x1 / AUDIO MONITOR Headphone : φ 6.3 Stereo Jackx1 / Optical Fiber Connector : SMPTEx1   OPT Cable Length maximum 2km ● FUNCTION / TC IN / TC OUT : BNCx1/BNCx1 / TC OUT THROUGH OUT : BNCx1 / 2W INTERCOM : XLR 3P female x2 for connection to 2W intercom 2 line / 4W INTERCOM TALLY : D-sub 25Px1 for connection to INTERCOM line and TALLY signal / INTERCOM HEADSET : XLR 4P malex1 / TALLY IN : BNCx1 PROTECH SYSTEM/VOLTAGE TYPE tally signal / TALLY Indicator : Indicator LEDx1 GREEN / RED / REMOTE : 10P malex1 / 8P femalex1 / CONTROL L1(LANC) : φ 2.5 3P Mini Jack x1 for connection to LANC Camera / CONTROL L12 / LAN : RJ45 ● GENERAL / AC POWER/DC POWER / Power Requirement : 150W / Power Supply : 120W / Size (WxHxD) 寸法 : 215x115x302 mm / Weight : 3.8 kg

Optical fiber camera adapter for Canon CINEMA EOS C700

Optical fiber conversion system for "EOS C700 / EOS C700 GS PL" Capable of shooting 4K video with a wide dynamic range

Optical Fiber Camera Adapter for Canon EOS C700

NS-C700 price: **$14,480**

● **Accessories** : Remote controller cable × 1/ Instruction manual / Guarantee

Features

Direct docking with high performance EOS C700 camera. Compact and lightweight, it is powerful for TV studios, drama shooting, and movie shooting. Can be used in combination with the base station NS-X40. With 3G-SDI x 4 systems, 4K transmission is realized without compression. Equipped with return signal, REMOTE signal, tally output, intercom, and DC-OUT 2 outputs. It plays an active part in the professional spot.

Return Input Adapter

VIF-55FS price: **$29,800**

● **Accessories** : Instruction manual /Guarantee

Features ● Return input adapter for Sony PMW-F55 camera ● Built-in frame synchronizer ● HDMI/SDI input

Specifications ● INPUT / Support Video Format : 1080/60i, 1080/59.94i, 1080/50i / Camera Interface : SDI IN BNCx1 : HDMI IN HDMI(Type A) x1 / Return Interface : SDI RET IN BNCx1 / Camera Adaptor Interface : DC/TALLY IN   Mini 6Px1 / ZOOM Demand Interface : RET CTRL IN 20Px1 ● OUTPUT / Monitor Interface : SDI MON OUT BNCx1 / VF Interface : VF 20Px1 / Lens Interface : RET CTRL OUT 20Px1 for CANON ● GENERAL / DC POWER : DC 12V / Size (WxHxD) : 49x91x124 mm / Weight : 470 g

Camera Return Adapter

HDMI / SDI cross-convertible return adapter. Broadcast zoom remote control is connected directly. Almost any camera can be used as a system camera. Because it is equipped with a broadcast frame synchronizer, it can be used on the main line as an HD switcher.

Option

VF Interface Unit **VIF-100** price: **$498**	VF Interface Unit **VIF-100P** price: **$498**	VF Interface Unit **VIF-100BC** price: **$598**	VF 6pin Cable **VC-450** price: **$110**	Remote Cable **RCC-450S/P/i** price: **$120**
Viewfinder interface unit. (Only Sony camcorders)	Viewfinder interface unit. (Only Panasonic professional camera recorders)	Viewfinder interface unit. (Only Sony professional camera recorders)	A cable that connects the camera adapter to the viewer, monitor, or VIF-100.	A remote control cable that connects the camera adapter to the camera of each company.
Alive Cable **ALC-20M** price: **$1,080**	Alive Cable **ALC-50M** price: **$1,180**	Alive Cable **ALC-100M** price: **$1,380**	Intercom Headset **DL-500** price: **$298**	Rack Mount Bracket **HS-RA95** price: **$348**
An optical cable that connects the camera adapter to the base station. 20m.	An optical cable that connects the camera adapter to the base station. 50m.	An optical cable that connects the camera adapter to the base station. 100m.	Sealed headset for income. (Dynamic type)	Hardware that enables rack mounting of the base station.

SDI signal/VF Conversion Adapter
VIF-7 price: $1,980

● **Accessories**：Instruction manual / Guarantee

Specifications ● INPUT / Support Video Format : 1080/60i, 1080/59.94i, 1080/50i / Camera Interface : SDI IN BNCx1 /Camera Adaptor Interface : DC/TALLY IN ● OUTPUT / VF Interface : VF 20Px1 ● GENERAL / DC POWER : DC 12V / Size (WxHxD) : 29x78x103 mm / Weight : 270 g ● ACCESSORY / Operating Instructions

VF Adapter for 4K / 8K / HD camera

Adapter for connecting 4K / 8K / HD and other SDI output signals (1080 60P / 1080 59.94i, etc.) to Sony round broadcast connector type viewfinders. Equipped with tally input connector. Tally signal can be input externally (tally signal cable etc. sold separately).

System Handle for SONY PMW-F55
HDS-S55 price: $1,980

●付属品：Instruction manual / Guarantee

Features ● System handle for Sony PMW-F55

Adapter for LS-750 to mount on ARRI's System handle(F55exclusive)
HDS-AR55 price: $480
●付属品：Instruction manual / Guarantee

Features ● Adapter for LS-750/750GTS/750GT to mount on ARRI system handle for F-55

System Handle for VARICAM HS
HDS-P35 price: $1,980

●付属品：Instruction manual / Guarantee

Features ● System handle for Panasonic VARICAM 35/VARICAM HS

System Handle for ARRI AMIRA
HDS-AM1 price: $880
●付属品：Instruction manual / Guarantee

Features ● System handle for ARRI AMIRA

System Handle for RED DRAGON
HDS-DR1 price: $1,980
●付属品：Instruction manual / Guarantee

Features ● System handle for RED DRAGON

System Handle for AJA CION
HDS-CI1 price: $1,980
●付属品：Instruction manual / Guarantee

Features ● System handle for AJA CION

VF Interface Unit for Monochrome
VIF-100BC price: $598
(When using with color VF, it will be monochrome.)

Viewfinder interface unit. (Only Sony camcorders for broadcasting)

VF Interface Unit for Color
VIF-200BC price: $898

Viewfinder interface unit. (Only Sony camcorders for broadcasting are available in color)

PROTECH event recording system example using JVC GY-HC900

Plarm Co,. Ltd.

Plarm Co., Ltd. has JVC GY-HC900 ×4 and PROTECH event recordings to prepare for filming demand for more than 20 years, focusing on stages / events such as orchestra concerts, live music, brass band contests, fashion shows, etc. The system was introduced and started operation in August 2019.

Plarm Co.,Ltd. Mr.Ichiro Goto

Shorter setting time and greatly improved operation reliability

JVC GYHC900 and PROTECH started the operation of the PROTECH event recording system that was built by the system, and I realized that various responses and stability were improved compared to the equipment that was used before. At the shooting site, setting may be possible only on the day due to the circumstances of the venue. This system can be set up within about one hour from the time of delivery until it can be operated, so it is easy to set up large-scale equipment until now with stable optical transmission. The camera has used other camera manufacturers until now, but the JVC GY-HC900 is a very good camera recorder that is very easy to use and can use a cheap SD card with a cheap. Since the image quality is good, I would like to actively use various event recording projects in the future.

Plum Co., Ltd. equipment

● Camera
JVC　GY-HC900 ×4
● Recorder
Panasonic　AG-MUR20
● Optical fiber transmission
PROTECH NSR-X4　×4
PROTECH NSR-X40　×4
● Monitor
Master Monitor
PROTECH HDX1600
Each channel monitor
PROTECH HDM-4000
● Stadio view finder
PROTECH HDF-500SK　×4
PROTECH HDF-700
● Switcher
PROTECH　VSE-500
● Audio
PROTECH　Audio embedder　F-1 × 2
PROTECH FS-805

For new EOS C500MKII
Studio optical fiber camera adapter

For Canon C500MKII
Optical Fiber Camera adapter
NSR-C500 price: **$7,480**
● **Accessories**：BNC-04M x 4 / BNC x 1/ RCC-450S / Instruction manual / Guarantee

12 1ch HD
Low Cost Optical Fiber Base Station
(300W power supply)
NS-X112GTS price: **$9,480**

12 1ch HD
Low Cost Optical Fiber Base Station
(150W power supply)
NSR-X1/NS-X1 capable
NS-X112 price: **$8,480**

NSR-X112

Features ● 12G 1ch 4K optical camera adapter ● 4K/HD, ● 12G/HD-SDI/SD-SDI, return, remote signal, tally, intercom two systems ● 150W power supply ● HD-SD/SD-SDI multi format

Specifications ● INPUT/OUTPUT / SDI IN : BNCx1 12G/6G/3G/HD / SDI OUT : BNCx1 SDI IN through out / SDI RET OUT : BNCx1 SDI/VBS / GENLOCK OUT : BNCx1 SDI/VBS ● FUNCTION / TALLY Indicator : Indicator LEDx2 / REMOTE : 8P femalex1   INTERCOM HEADSET : XLR 4P male x2 ● GENERAL / Size (WxHxD) : 130x145x130 mm / Weight : 1.4 kg ● ACCESSORIES / Remote Cablex1

4K/HD Optical fiber transmission

4K / HD optical camera adapter for the latest 4K cameras

Sending 12G~HD-SDI × 1 /RET3G ~ Analog transmission, Intercom, Tally, Camera control circuit, Power output 100W

The world's first shoulder-type optical transmission device that feeds back professional voices will change the future of the shooting site.

4K Shoulder Type Optical Fiber Camera Adapter*World First

ST-7HIKARI price: **$7,980**

Features ● 4K12G/HD optical fiber camera adapter ● 3G/HD-SDI/SD-SDI, return, remote signal, tally, intercom two signals ● 70W power supply ● SDI supports 3G level A/B ● HD-SD/SD-SDI multi format

12G 1ch 4K Optical Fiber Base Station (100W power supply) ST-7HIKARI supports

IS-X100 price: **$7,980**

Features ● 12G 1ch support optical fiber base satation Specifications ● INPUT 3G/HD/SDI/VBS RET IN / OUTPUT 12G/3G/HD/SD-SDI OUT : BNCx1 φ 6.3 Stereo Jackx1 / Optical Fiber Connector : SMPTEx1 OPT Cable Length maximum 600m ● FUNCTION/ TC IN / TC OUT : BNCx1/BNCx1 / TC OUT THROUGH OUT : BNCx1 / 2W INTERCOM : XLR 3P female x2 for connection to 2W intercom 2 line / 4W INTERCOM TALLY : D-sub 25Px1 for connection to INTERCOM line and TALLY signal / INTERCOM / TALLY IN : BNCx1 PROTECH SYSTEM/VOLTAGE TYPE tally signal / TALLY Indicator : Indicator LEDx1 GREEN / RED / CONTROL L1(LANC) : φ 2.5 3P Mini Jack x1 for connection to LANC Camera ● GENERAL/ AC POWER/DC POWER / Power Consumption / Power Supply : 300W / Size (WxHxD) : 215x115x302 mm / Weight : 3.8 kg

Power Pack for ST-7HIKARI (80W power supply)

DN-80 price:79,800 円

Features ● ST-7HIKARI power pack. When receiving power from the base station, the ST-7HIKARI is supplied with 15V and 80W maximum power. The distance is 600M. SONY wireless transmitters can be built in.

Power Pack for ST-7HIKARI (200W power supply)

DN-200 price: $998

Features ● ST-7HIKARI power pack. When receiving power from the base station, the ST-7HIKARI is supplied with 15V and 120W maximum power. The distance is 2400M.

Significant system expansion improve completeness of the video

Easy built-in Sony UXR-PO3 wireless transmitter. Cable extension is required.

PROTECH All types of optical conversion systems are
same as metal transmission, no deley

Transmits the latest shooting sites with the latest optical transmission technology.

PROTECH delays the optical transmitter itself **7/100,000,000** (7/100 million seconds)

Same as 14m metal BNC cable. Metal 100m delays 4/10000000

For reference, one frame is 1/30 second (1080 / 60i). If one line is expressed as a number, it is 1/420000

Same as metal transmission. No delay.

There are various methods for transmission technology. PROTECH's optical fiber transmission technology achieves the world's top level of no delay same as metal transmission. As a method of transmitting long distances, optical fiber transmission is a stable method that can transmit without any delay, bugs, and data loss. Our engineering team has also studied IP transmission for many years. However, as far as delay is concerned, it has been concluded that IP transmission has no win over optical transmission, and we are currently taking a second step toward commercialization. Because when the video could not be received, we faced various anxiety factors when using it in the field such as which hub was bad, poor connector contact such as RJ45, bad cable. Based on this experience, we want to provide stable and reliable transmission, so we have given up on IP transmission commercialization and renewed the PROTECH optical fiber transmission system that can be used in actual and stable operations. PROTECH optical fiber transmission technology that supports the ultimate broadcasting and film recording site, such as drama shooting, movie shooting, event recording, etc. is generously introduced, and it is the optimal system for field systems, large stadium construction, Olympic equipment, etc. from the field site can be built.

Reliable field-based design philosophy

NSR / NS / LS / PS series, which are the most toughest for drama shooting and movie shooting, have been adopted by many famous broadcasters and productions. All PROTECH optical fiber transmission systems have this design optical fiber transmission board designs can be transmitted without any problems even if the power supply is suddenly turned off. For example, in case of emergency, the transmission part is designed to operate immediately even if a momentary power failure occurs. In addition, all the troublesome menu setting operations are unnecessary so we remove it. Developed with a feeling of operation that can be operated without reading the instruction manual.

Faithfully transmit video signals

The digital video signal is faithfully transmitted and all data is accurately transmitted without excess or deficiency. 1080 / 59.94i, 50i as well as 1080 / 29.97p, 1080 / 23.98p, 1080 / 25p, etc., all signal formats output from the camera from 8K to SD, 3D video can be transmitted without any special settings. (The signals that can be transmitted vary depending on the model) All embedded signals and the ANCI area are also transmitted.

High quality 3G-SDI / HD-SDI / SD-SDI output circuit
The latest model supports the latest 12G-SDI / 6G-SDI video

High quality optical fiber transmission enables high quality digital output. The digital output of all SDI optical fiber transmission modules provides a clean output with little jitter.

The most ideal analog waveform

Analog optical fiber transmission technology is also at the top level in the industry. Realizes faithful analog transmission just like metal transmission. Analog transmission requires the most technical capabilities of the optical fiber transmission technologies. In particular, if the signal is interrupted even for a moment during transmission of a standard signal such as genlock, a problem will occur in the entire system. Resistant to temperature changes, it operates stably anywhere from the cold area to the equator.
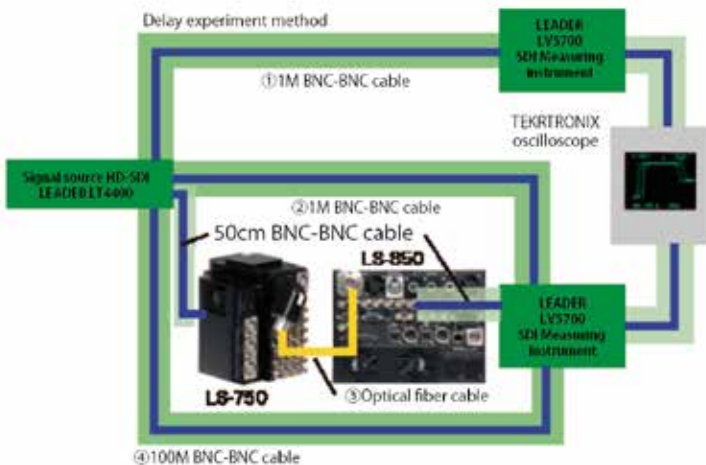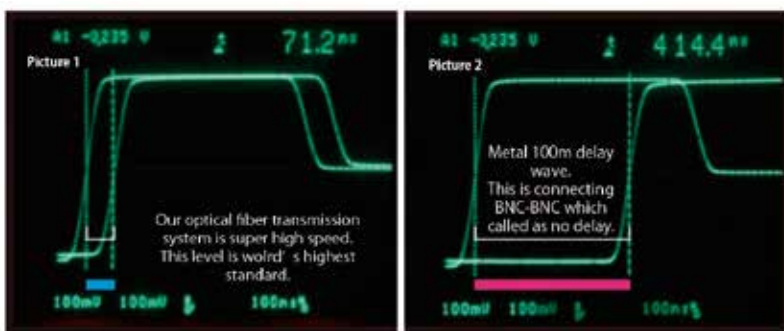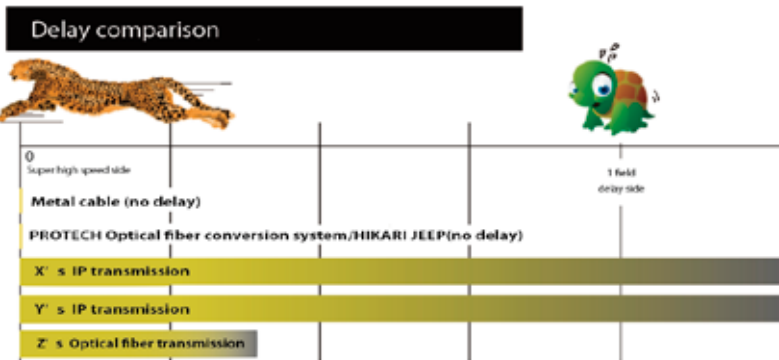
Optical fiber transmission without switching analog and digital

B.B / VBS / HD-Y / SD-SDI / HD-SDI / 3G-SDI patented technology for optical fiber transmission without switching.

Unprecedented convenience

Utilizing world-class optical fiber transmission technology that responds to real troubled voices in the field, such as when there are many input formats, there are too many connectors and mistakes are made, and transmission is not possible because it is not compatible with the type of signal. It is very convenient because it can be transmitted without switching to analog devices and digital devices. (Possible depending on installed model and board type)

Compatible with various signals

Black burst signals are also compatible with binary and ternary signals. Composite signal with many opportunities for field use. Supports HD-Y signals, SD-SDI (NTSC / PAL compatible) HD-SDI (all formats) and 3G-SDI (all formats) often used as viewfinder signals. Of course, digital is a high-quality line that can be used as a main line for pathological signals. (Possible depending on installed model and board type)

### Output the same signal as the input signal after optical transmission
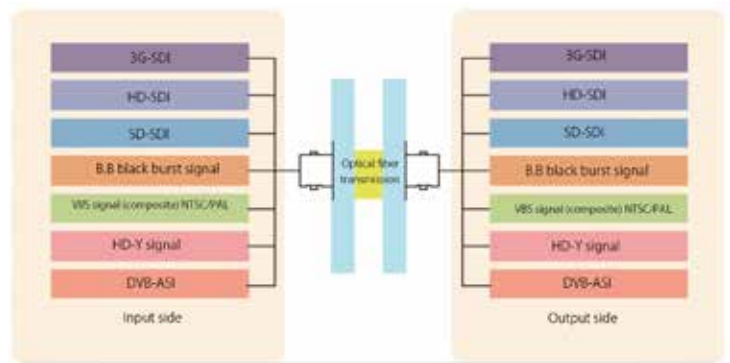

Key Features

Highly reliable output with advanced reclocking circuit

The photo shows the measurement data of 4K camera output 1080 / 59.94p output and camera 1080 / 59.94i output transmission test. The waveform on the right was measured without connecting the 1CH output of the camera and the measuring instrument with a BNC cable (5CFB 100M) and passing through the optical fiber transmission device. The photo below shows the waveform of the BNC cable (5CFB 100M) connected from the camera to the LS-750, transmitted via the alive cable, and then passed through the LS-850 (1-5). The right waveform passes through the optical conversion system, minimizing return loss and providing reliable output on all channels.

Camera PMW-F55(SONY) → BNC cable(5CFB 100M) → Measuring instrument
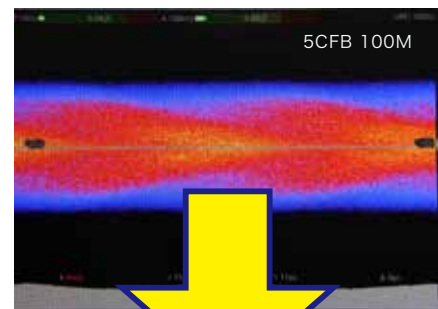
5CFB 100M

Camera /SONY CineAlta VENICE → BNC cable (5CFB 100M) → LS-750 → Alive cable → LS-850 → BNC cable (5 CFB 2M) → Measuring instrument

Output 1

Output 2

Output 3

Output 4

Output 5

Return output
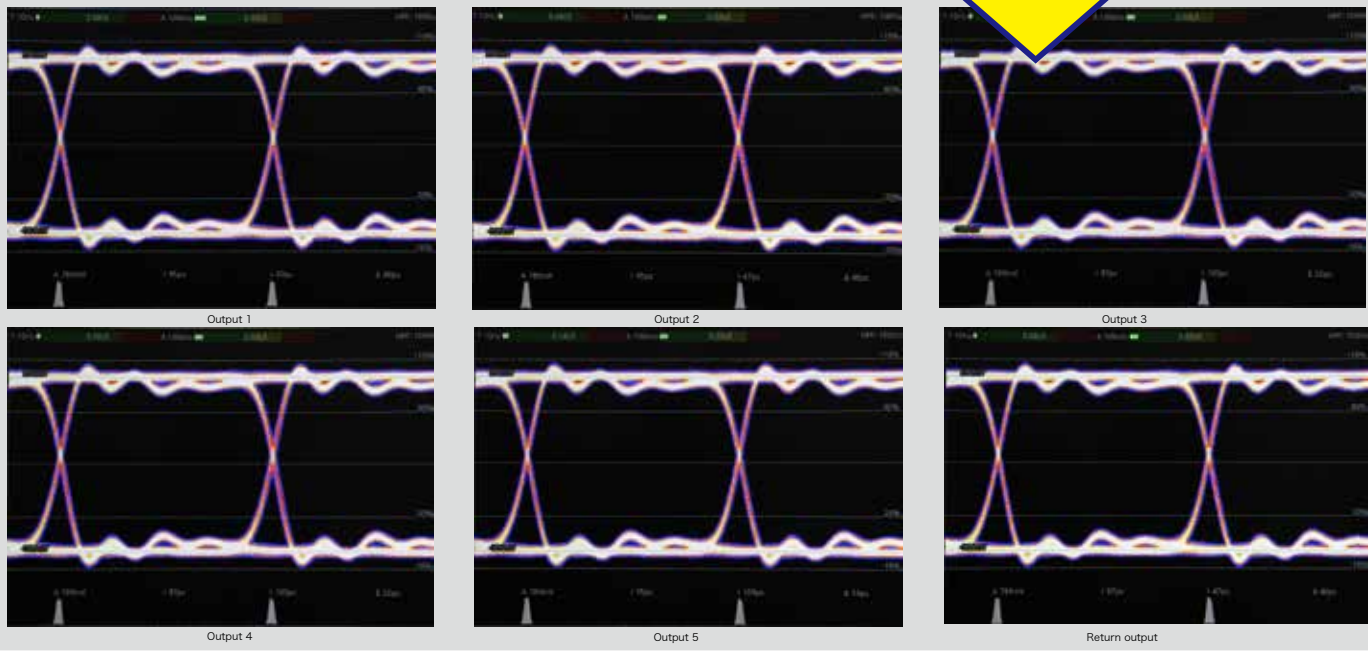
AC/DC Drive

Considering field operation as well as AC drive, both the base station and camera adapter can be driven by batteries (12V type / 14.4V type). The low power consumption design realizes long-time operation and strongly supports operation in an environment where AC power is not available. (All products)

Accurate, real time, safety transmission

It is safe to communicate between the camera adapter and the base station, and automatically check that the power adapter is connected with a compatible adapter before supplying power from the base.

Synchronization by timecode

A time code signal can be transmitted in both directions. This function enables synchronization with the time code of each camera recorder. A multi-camera system unique to a camera recorder can be constructed. Time code supports IN / OUT. (All products)

2 intercom circuit

Intercom is equipped with an engineer line and a producer line. Connection with 4W intercom system is also possible. (All products except PS series) (A separate interface is required when using the FD-300A / 400A intercom system.)

Active through circuit on camera adapter

All five input lines of the LS-750 are equipped with active through-out. This active through-out enables the camera side to check the image quality with a 4K monitor and record video with a 4K memory recorder. (NS series NSR series has 1ch only)

Each 2 12G/3G circuit output, simultaneous output is posible

Equipped with 2 distribution outputs for all channels of the base station output line. For example, while outputting to a switcher, it is possible to output simultaneously to a monitor, enabling flexible system construction. (All products)

Wear able build-up unit HDS-300S, HDS-1500

Build-up unit HDS-300S and box lens adapter HDS-1500 enable one-touch attachment / detachment of a set of camera equipment on a tripod, making setting on-site extremely easy. The slide rail mechanism neatly stores annoying cables and smartly supports professional sites in an overwhelming style.
* If you are using a tripod and a tripod base that can be attached and removed with a single touch, and the weight of the device on the tripod exceeds 15 kg, attach the tripod plate ST-2 directly to the build-up unit.

This is Canon 4K CINEMA EOS C500.

Comfortable transmission regardless of camera

Compatible with almost all HD cameras and 4K / 8K cameras. Since it is not dedicated, transmission is possible regardless of camera type, even if the model is changed or the camera manufacturer is changed. (Excluding some models)

Broadcast intercom connection

Clearcom's 2W interface XLP3P cable, commonly used in relay operations, can be directly connected to the base station engineer line and producer line.

High reliability and durability required by professionals

From the current HD / 4K operation to 8K operation, it can be used for a long time in the future.

The new generation optical conversion system was born from a thorough study of the ideal situation of this era from the voices of filming sites and reflecting their opinions.

Multi-function, high performance, high reliability

PROTECH's optical conversion system has been designed for durability under high temperatures so that it can be used directly under the equator and in deserts in the United States, considering use under severe conditions by professionals. PROTECH optical conversion system achieves best-in-class low delay. You do not feel any delay in the transmission equipment. Even if it is combined with a camera manufacturer's transmission device.

3G / HD / SD-SDI downstream 4/5 line 1 upstream line

3G-SDI / HD-SDI / SD-SDI mixed transmission for 4 HD to 8K cameras. Transmission is possible regardless of synchronous or asynchronous.

■ LS-750   ■ NSR-X412

RET

Digital lines are available to connect almost all SD-SDI / HD-SDI / 3G-SDI formats and composites, HD-Y, and SYNC directly connected by BNC cables. (Excluding some lines). Connection and transmission (PAT) is possible without any settings such as switching. 3G also supports Level A / B, SMPTE 125M: NTSC (480i / 59.94), PAL (576i / 50), SMPTE 296M: 720p 50 / 59.94 / 60 SMPTE 274M, SMPTE 292M: 1080i 50 / 59.94 / 60, 1080p 23.98 / 24/25 / 29.97 / 30, SMPTE 424M: Supports 1080p 59.94 / 60 (3G), SMPTE425M. The ANCI area and the embedded audio are transmitted exactly as they are without loss. (There are also SDI dedicated line models and terminals.)

Almost all cameras can transmit camera remote control

Nearly company-wide camera remote signals such as Panasonic and Sony can be transmitted simultaneously. Supports serial communication for lens control such as Cmotion. (All products)

SONY RM-B150/170   SONY RM-B750

Panasonic AJ-RC10G

Power supply maximum 2.4km

60W camera power can be supplied up to 2.4km away. More than 20 alive cables can be connected.

Synchronous / asynchronous support

When transmitting multiple lines of HD lines, all images can be transmitted regardless of whether the entire system is synchronized or asynchronous. As a result, it is possible to transmit images from four cameras without problems in one system.

Easy signal display

Real-time display of connected SDI signal status. The presence / absence of the signal, reclocking status, etc. are displayed, so you can check the cable connection error and the 3G / HD status of the signal. If no optical fiber cable is attached, a cable error is displayed. (All products)

■ NS-X4012GTS

■ LS-850

LAN (IP transmission) function

Equipped with a 1Gbps IP transmission function (Ethernet), it is possible to remotely control cameras operating under network control, which has become the mainstream in recent years.

4K/HD Optical fiber transmission

**3G 4ch 4K
Optical Fiber Camera Adapter**

NS-X4 price: **$14,480**

**12G 1ch HD
Low Cost Optical Fiber Camera Adapter**

NS-X1/N price: **$8,480**

Features ● 4K support optical fiber camera adapter ● 4K/HD, HD/4K can be intermixed ● 3G/HD-SDI/SD-SDI, RETURN, REOMOTE, TALLY, Intercom headset connector x 2 ● 200W power supply ● Supports 3G-SDI level A/B ● Supports HD-SD/SD-SDI multiformat support

Specifications ● INPUT / 3G-SDI IN : BNCx4   (Base station output : 2 Outputs for each Input) / 3G-SDI/VBS IN : BNCx1(Optional) / AUDIO IN : XLR 3P female x2CH   Input Level: LINE/MIC/P48   (ANALOG/AES EBU) ● OUTPUT / 3G-SDI OUT : BNCx1   SDI IN Input Through out / SDI RET OUT : BNCx1 SDI/VBS / GENLOCK OUT : BNCx1 SDI/VBS / AUDIO PROGRAM OUT : XLR 3P male x2CH   Output Level: LINE/MIC   (ANALOG/AES EBU) / AUDIO Headphone :   φ 3.5 Stereo Mini Jackx1 / MONITOR IF OUT : Mini 6Px1 / Optical Fiber Connector : SMPTEx1   OPT Cable Length maximum 2km / DC OUT : 120W (NS-X40) 170W (NS-X40GTS) ● FUNCTION / TC IN / TC OUT : BNCx1/ BNCx1 / TALLY OUT : BNCx1 / TALLY Indicator : Indicator LEDx2 / REMOTE : 10P malex1 / 8P femalex1 / LANC : φ 2.5 3P Mini Jackx1 / LAN : Optional / INTERCOM HEADSET : XLR 4P male x2 ● GENERAL / Size (WxHxD) : 201x163x90 mm / Weight : 2.3 kg ● ACCESSORIES / Remote Cable x1

Features ● Camera adapter ● 12G/6G/3G/HD-SDI/SD-SDI, RETURN, REOMOTE, TALLY, Intercom headset connector x 2 ● 120W power supply ● Supports 3G-SDI level A/B ● Supports HD-SD/SD-SDI multiformat

Specifications ● INPUT / 12G-SDI IN : BNCx1   (Base station output : 2 Outputs for each Input) / 12G-SDI/VBS IN : BNCx41 (Optional) / AUDIO IN : XLR 3P female x2CH   Input Level: LINE/MIC/P48   (ANALOG/AES EBU) ● OUTPUT / 3G-SDI OUT : BNCx1   SDI IN input through out / SDI RET OUT /VBS : BNCx1 / GENLOCK OUT /SDI : BNCx1 / AUDIO PROGRAM OUT : XLR 3P male x2CH   Output Level: LINE/MIC   (ANALOG/AES EBU) / AUDIO Headphone : φ 3.5 Stereo Mini Jackx1 / MONITOR IF OUT : Mini 6Px1 / Optical Fiber Connector : SMPTEx1 OPT Cable Length maximum 2km / DC OUT : 120W (NS-X10) 170W (NS-X10GTS) ● FUNCTION / TC IN / TC OUT : BNCx1/ BNCx1 / TALLY OUT : BNCx1 / TALLY Indicator : Indicator LEDx2 / REMOTE : 10P malex1 / 8P femalex1 / LANC : φ 2.5 3P Mini Jackx1 / LAN : Optional / INTERCOM HEADSET : XLR 4P male x2 ● GENERAL / Size (WxHxD) : 201x163x90 mm / Weight : 2.3 kg ● ACCESSORIES / Remote Cable x1

3G 4ch 4K
Optical Fiber Base Station
NS-X40GTS price: **$15,980**

3G 4ch 4K
Optical Fiber Base Station
NS-X40 price: **$14,480**

* NS-X40 does not have a 300W power supply at the bottom of the unit.

3G 1ch HD
Low Cost Optical Fiber Base Station
(300W power supply)
NS-X10GTS price: **$8,980**

3G 1ch HD
Low Cost Optical Fiber Base Station
(150W power supply)
NS-X10 price: **$8,480**

NS-X40

NSR-X4/NS-X4 capable base station

Features ● 3G 4ch 8K support optical fiber base Station

Specifications ● INPUT / 3G/HD/SDI/VBS RET IN : BNCx4(NSR-X4/NS-X4 selects 1ch) / REFERENCE/3G/HD/SDI/VBS IN : BNCx1 for Reference / AUDIO-PGM IN : XLR 3P female x2 / AES EBU-PGM IN : XLR 3P female x1 ● OUTPUT / 3G/HD/SD-SDI OUT : BNCx2 x4 / THROUGH OUT(3G/HD/SDI OUT) : BNCx1 3G/HD/SDI RET IN 1 Input Through out / AUDIO-CA OUT : XLR 3P male x2 / AES EBU OUT : XLR 3P male x1 / AUDIO MONITOR Headphone : φ 6.3 Stereo Jackx1 / Optical Fiber Connector : SMPTEx1 OPT Cable Length maximum 2km ● FUNCTION / TC IN / TC OUT : BNCx1/BNCx1 / TC OUT THROUGH OUT : BNCx1 / 2W INTERCOM : XLR 3P female x2 for connection to 2W intercom 2 line / 4W INTERCOM TALLY : D-sub 25Px1 for connection to INTERCOM line and TALLY signal / INTERCOM HEADSET : XLR 4P malex1 / TALLY IN : BNCx1 PROTECH SYSTEM/VOLTAGE TYPE tally signal / TALLY Indicator : Indicator LEDx1 GREEN / RED / REMOTE : 10P malex1 / 8P femalex1 / CONTROL L1(LANC) : φ 2.5 3P Mini Jack x1 for connection to LANC Camera / CONTROL L12 / LAN : RJ45 ● GENERAL / AC POWER/DC POWER / Power Requirement : 150W / (NS-X40) Power Supply : 120W / Size (WxHxD) : 215x115x302 mm / Weight : 3.8 kg/(NS-X40GTS)Power Supply : 170W / Size (WxHxD) : 215x160x302 mm / Weight : 5 kg

NS-X10

NSR-X1/NS-X1 capable base station

Features ● 12G/6G/3G 1ch HD support low cost optical fiber base station

Specifications ● INPUT / 12G/HD/SDI/VBS RET IN : BNCx4(NSR-X4/NS-X4 selects 1ch) / REFERENCE/3G/HD/SDI/VBS IN : BNCx1 for Reference / AUDIO-PGM IN : XLR 3P female x2 / AES EBU-PGM IN : XLR 3P female x1 ● OUTPUT / 3G/HD/SD-SDI OUT : BNCx2 x1 / THROUGH OUT(3G/HD/SDI OUT) : BNCx1 3G/HD/SDI RET IN 1 Input Through out / AUDIO-CA OUT : XLR 3P male x2 / AES EBU OUT : XLR 3P male x1 / AUDIO MONITOR Headphone : φ 6.3 Stereo Jackx1 / Optical Fiber Connector : SMPTEx1 OPT Cable Length maximum 2km ● FUNCTION / TC IN / TC OUT : BNCx1/BNCx1 / TC OUT THROUGH OUT : BNCx1 / 2W INTERCOM : XLR 3P female x2 for connection to 2W intercom 2 line / 4W INTERCOM TALLY : D-sub 25Px1 for connection to INTERCOM line and TALLY signal / INTERCOM HEADSET : XLR 4P malex1 / TALLY IN : BNCx1 PROTECH SYSTEM/VOLTAGE TYPE tally signal / TALLY Indicator : Indicator LEDx1 GREEN / RED / REMOTE : 10P malex1 / 8P femalex1 / CONTROL L1(LANC) : φ 2.5 3P Mini Jack x1 for connection to LANC Camera / CONTROL L12 / LAN : RJ45 ● GENERAL / AC POWER/DC POWER / Power Requirement : 150W / (NS-X1) Power Supply : 120W / Size (WxHxD) : 215x115x302 mm / Weight : 3.8 kg/(NS-X10GTS)Power Supply : 170W / Size (WxHxD) : 215x160x302 mm / Weight : 5 kg

4K/HD Optical fiber transmission

Aggregating many innovative technologies

Now to professionals around the world

Almost all cameras have system camera specifications

Shoulder camera type optical fiber camera adapter (60W power supply)

LS-750 price: $19,800

● **Accessories** : BNC 0.4m × 4 1m × 1 / Remote control cable × 1/ D-Sub25 pin -XLR audio cable × 1 / Instruction manual / Guarantee

Features ● optical camera adapter for shoulder camera ● LS-750:standard (60W power supply) ● LS-750GTS:high power model (200W power supply) ● LS-750GT:high power model (300W power supply) ● 4K+HD, or HD(3G) camera×5 videos and audios transmission ● 3G/HD-SDI/SD-SDI down 5 lines/up 1 line ● Transmit all SDI data, including embedded audio/ANCILLARY area, without omission ● Equipped with 3G/HD-SDI/SD-SDI active through output on all 5 lines ● Maximum transmission distance of 2km ● TALLY transmission ● TC transmission possible(Time code IN/OUT transmission) ● Intercom 2 lines+Clearcam belt pack connection line ● Camera remote 2 lines(Can be used for almost all company cameras and lens controllers such as Cmotion) ● Signal monitoring monitor ● LANC Transmission ● LAN(IP transmission)equipment ● DC output equipment

LS-750 optical fiber base station

LS-850 price: $19,800

● **Accessories** : D-Sub25 pin -XLR audio cable × 1 / AC cable / Instruction manual / Guarantee

Shoulder camera optical fiber camera adapter (200W power supply)

LS-750GTS price: **$21,500**

● **Accessories**：BNC 0.4m × 4 1m × 1 / Remote control cable × 1/ D-Sub25 pin -XLR audio cable × 1 / Instruction manual / Guarantee

LS-750GTS optical fiber base station

LS-850GTS price: **$22,500**

● **Accessories**：D-Sub25 pin -XLR audio cable × 1 / AC cable / Instruction manual / Guarantee

Shoulder camera optical fiber camera adapter high power model (300W power supply)

LS-750GT price: **$22,800**

● **Accessories**：BNC 0.4m × 4 1m × 1 / Remote control cable × 1/ D-Sub25 pin -XLR audio cable × 1 / Instruction manual / Guarantee

LS-750GT optical base station

LS-850GT price: **$24,800**

● **Accessories**：D-Sub25 pin -XLR audio cable × 1 / AC cable / Instruction manual / Guarantee

HD Optical fiber transmission

Multi-camera recording is possible with an ENG dedicated camera with HD-SDI / SD-SDI output.
Build a low-cost, high-quality coverage system.

PS-470HD/N

A multi-camera system can be built by docking the PS-470HD / N to a Sony HD camcorder, Panasonic P2 camera recorder, or other device. By disconnecting the alive cable and attaching the battery, ENG shooting is possible even when docked, and one camera can be used for many purposes.

Optical Fiber Camera Adapter
for shoulder camera
PS-470RHD/N price: $9,480

Optical Fiber Base Station
PS-570RHD/Ns price: $9,480

Side operation panel

PS-470RHD/1 side connector panel

Synchronization by timecode

It is possible to transmit time code signals in both directions. This function makes it possible to synchronize the time code with each camera, enabling the construction of a multi-camera system unique to a camera recorder.

AC/DC Drive

In addition to AC drive, optical camera adapters and base stations can be driven by batteries (12V type / 14.4V type) in consideration of field operation. The low power consumption design enables long-time operation and allows use in an environment where AC cannot be obtained.

PROTECH Intercom

Equipped with PROTECH intercom terminal. The technology of PROTECH Intercom FD-300A is included. A headset connector is placed, and headphones and microphone volumes are installed. It is also possible to connect with other company's intercom system by combining with optional FD-800S intercom station. (Some models cannot be connected.)

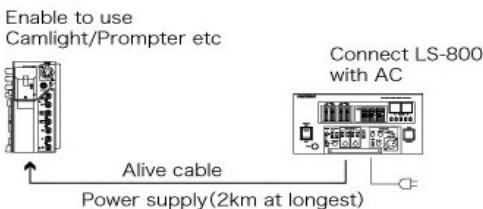* Use the DL series (sold separately) headset.

Only one cable can transmit maximum 2km

The optical fiber camera adapter can send HD / SD-SDI signals and intercom signals, and the base station can send camera power, intercom, tally, HD / SD-SDI return signals, and genlock signals. The cable can be extended up to 2km. Equipped with two HD-SDI (SD-SDI) signal outputs, making SDI system construction easy.

Optical fiber transmission system for crane

Custom order optical fiber transmission systems for relay cars are also available

Video can be interrupted and taken out between the camera adapter and the base station

A transmission system that cannot be achieved by other companies can be constructed by optical fiber transmission (Japanese and US patents acquired) connecting the handset to the handset. It is possible to design freely by taking out images under the crane or adding another camera. The lens attached to the crane can be controlled from under the crane. (Excluding some models)
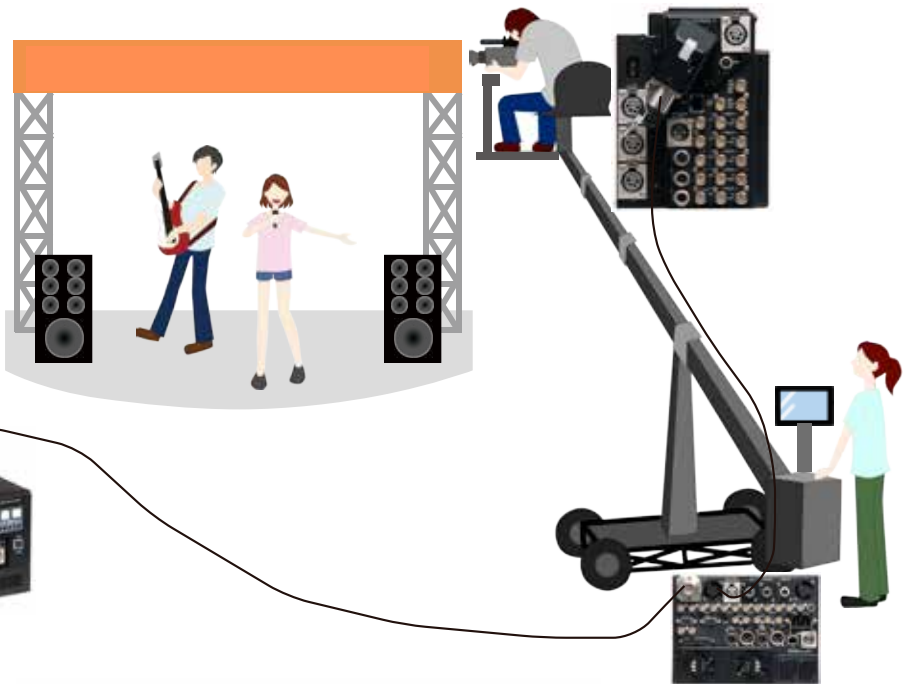
Can transmit video, intercom, power, remote, required signals

In addition to video, almost all format transmissions are supported. Intercom system connection with Clearcom, intercom connection with other system cameras, camera control, power, audio, AES / EBU and other signals are designed.

Compatible with various systems

Many small cameras have SDI outputs. In addition to shoulder cameras, it is also used as an optical fiber transmission device for drama shooting and movie shooting with a PL lens.
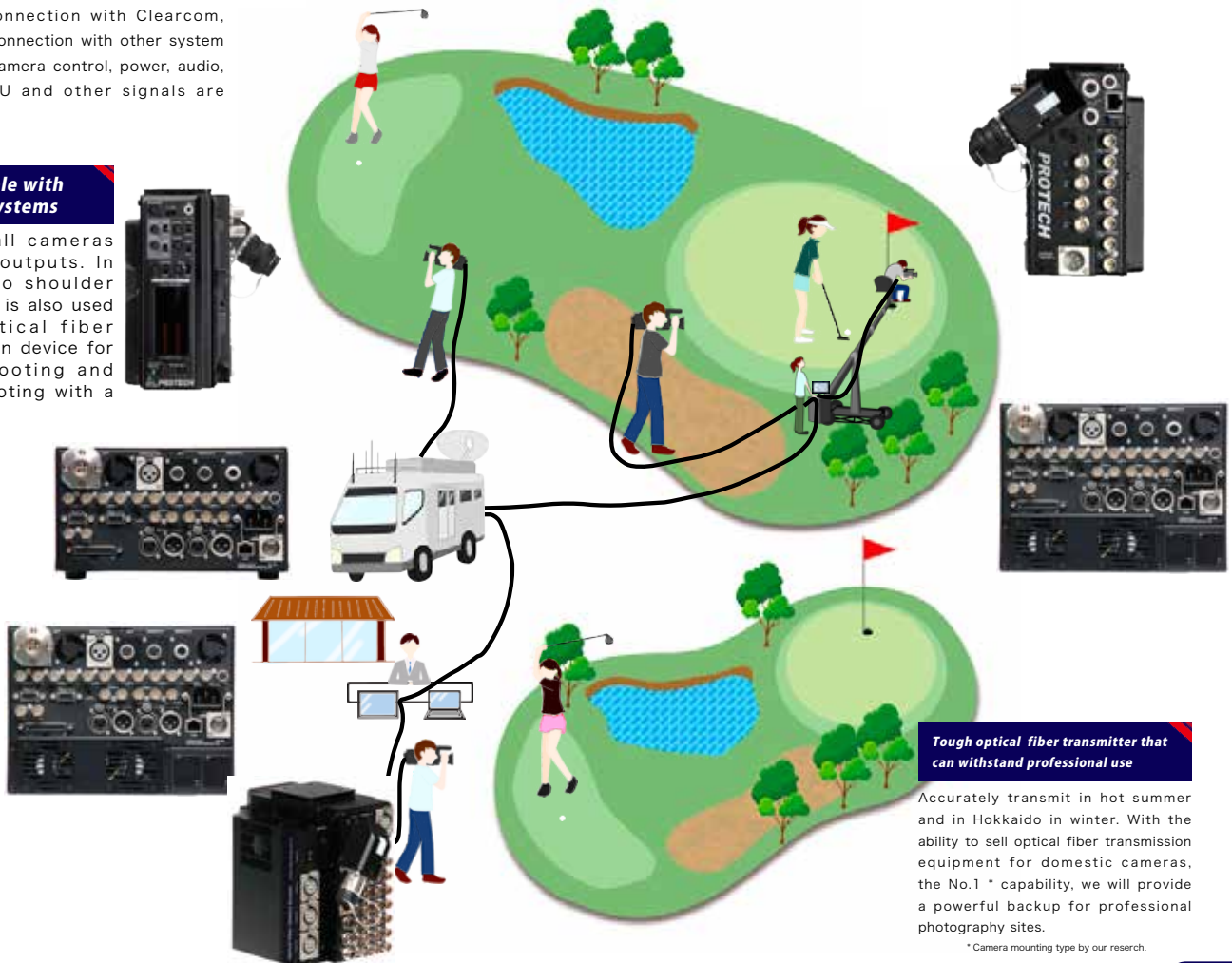
Tough optical fiber transmitter that can withstand professional use

Accurately transmit in hot summer and in Hokkaido in winter. With the ability to sell optical fiber transmission equipment for domestic cameras, the No.1 * capability, we will provide a powerful backup for professional photography sites.

* Camera mounting type by our reserch.

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If the monitor is ULTRA O-LED®,
the metronome needle can be displayed in the screen without delay.

After optical fiber transmission with Sony PDW-F700 and the new optical conversion system NX-4, a metronome was shot with the camera, and the camera SDI OUT was connected to the HDF-EL800 and displayed in real time. It is not synthesis. This is a real photo.

Equipped with zebra pattern that makes it easy to focus on overexposed areas

Multiple use as viewfinder or monitor

There are various forms of shooting styles such as 8K / 4K / HD. This ULTRA O-LED® HDF-EL800 series demonstrates its power when used in combination with a shoulder camera or small camera, as well as a system using a box lens. Clear Peaking® can catch the core of the focus and prevent defocusing. In 4K shooting etc., you can see if the focus is clearer than you see on a monitor with 4K resolution. With a wide color gamut, it is an indispensable unit for movie shooting, drama shooting, commercial shooting, field location, and studio.

Tally display with one cable/TC TALLY is equipped

Equipped with TC tally (patent) that shines with a reclan. TC Tally® function born from ideas unique to the field. A tally display is possible when the recorder starts by simply setting the camera's TC function with a video cable. Tally display is possible depending on the connected settings. Enables tally display with one HD-SDI cable without connecting annoying tally cable.
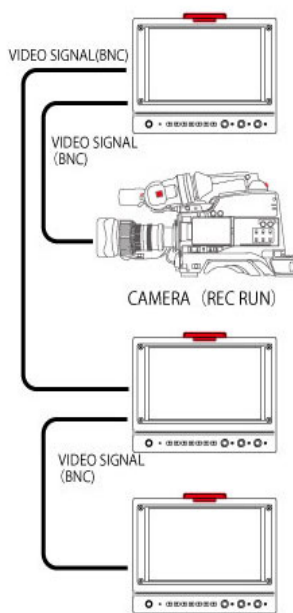
Viewfinder adjustment display function (patented)

The ULTRA O-LED® HDF-EL800 series has the greatest feature in enhancing its functions as a viewfinder. As one of its features, PEAKING can be adjusted in addition to BRIGHT / CONTRAST. In addition to HD production sites, this function is very important because 4K shooting sites require more accurate focus technology. During each setting, pressing the operation button on the front panel will light the LED, allowing the cameraman to make any adjustments. Levels are displayed in bar graphs and numbers (patented). Even after changing settings, you can return to standard settings with a single push. The usage situation can be reproduced at any time by remembering your numbers after other photographers use it. It is very convenient to use as a normal monitor. It is also ideal for checking the focus by recording check and as a monitor for relay vehicles.

Approx. zero delay
ULTRA O-LED view finder

7.4 inch Ultra O-LED view finder for 20 pin zoom lens
HDF-EL800 price: **$7,980**

● **Accessories**：Deferred stand/ AC adapter/ Instruction manual/ Guarantee

The standard HDF-EL8OO has 20 pin return connector.

*Connection image

● **Accessories**：SK-880/ AC adapter/ Instruction manual/Guarantee

7.4 inch Ultra O-LED view finder with stadio kit
HDF-EL800SK price: **$8,700**

Features ● 7.4 inch ULTRA O-LED® viewfinder 20-pin remote connector(HDF-EL800SK; HDF-EL800 with SK-880 studio kits ● Supports 3G/HD/SD-SDI, HDMI input ● Supports HD component input ● SDI return ● Vectorscope/ waveform display ● SID error display ● Multi view function ● Picture in picture ● With AS-1/A zoom demand, camera video and return can be switchable ● Red/Green tally on front panel ● Large red tally on rear panel ● Monochrome /Red /Green/Blue

Specifications ● INPUT/ DC : XLR 4Px1 / DC : V-mountx1 for Li-ion Battery Pack / SDI(3G/HD SD) : BNCx1 / SDI(3G/HD SD) RETURN : BNCx1 / HDMI : HDMI(Type A)x1 / CVBS : BNC x1 / Analog HD Component : BNCx3 YPBPR RGB / VF IF : HD D-SUB 15Px1 HD Component/TALLY/DC ● OUTPUT / SDI(3G/HD SD) : BNCx1 / AUDIO MONITOR Headphone : φ 3.5 Stereo Mini Jackx1 / MONITOR SPEAKER : Built-in ● FUNCTION/ REMOTE : 20Px2 RETURN Control IN/OUT / TALLY : BNCx2 Front GREEN RED / Rear RED / UTILITY : WAVEFORM VECTORSCOPE ZEBRA PEAKING ● GENERAL / DC POWER : DC12V(10-16V) 20W / Size (WxHxD) : 215x158x51.5 mm(WxHxD) / Weight : 1.3 kg ● ACCESSORIES / HDF-EL800; Location Stand, HDF-EL800SK; Studio Kit SK-880/ AC Adaptor

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7.4 inch Ultra O-LED view finder for 8 pin zoom lens
HDF-EL800/8 price: **$7,980**

● **Accessories**：Deferred stand/ AC adapter/ Instruction manual/Guarantee

The standard HDF-EL8OO has 8 pin return connector.

Features ● 7.4 inch ULTRA O-LED® viewfinder 8-pin return connector ● For other features, refer to HDF-EL800

Specifications ● INPUT / DC : XLR 4Px1 / DC : V-mountx1 for Li-ion Battery Pack / SDI(3G/HD SD) : BNCx1 / SDI(3G/HD SD) RETURN : BNCx1 / HDMI : HDMI(Type A)x1 / CVBS : BNCx1 / Analog HD Component : BNCx3 YPBPR RGB / VF IF : HD D-SUB 15Px1 HD Component/TALLY/DC ● OUTPUT / SDI(3G/HD SD) : BNCx1 / AUDIO MONITOR Headphone : φ 3.5 Stereo Mini Jackx1 / MONITOR SPEAKER : Built-in ●FUNCTION / REMOTE : 8Px2 RETURN Control IN/OUT / TALLY : BNCx2 Front GREEN RED / Rear RED / UTILITY : WAVEFORM VECTORSCOPE ZEBRA PEAKING ● GENERAL / DC POWER : DC12V(10-16V) 20W / Size (WxHxD) : 215x158x51.5 mm(WxHxD) / Weight : 1.3 kg ● ACCESSORIES / Location Stand / AC Adaptor

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HDF-EL800 Option

Stadio kit SK-800/880 long hood
HFC-870 price: **$238**

● **Accessories**：Instruction manual

Features ● Long hood for HDF-EL800 ● Need SK-800 or SK-880 studio kit to attach

HDF-EL800 series Pro Stadio Kit
SK-880 price: **$798**

● **Accessories**：Instruction manual

Features ● Pro Studio kits for HDF-EL800

HDF-EL800 series Stadio Kit
SK-800 price: **$360**

● **Accessories**：Instruction manual

Features ● Studio kits for HDF-EL800

HDF-EL800 dedicated studio specification, low-priced mounting bracket. Ideal for broadcast cameras and studio cameras.

Camera connection cable
VFC-700S price: **$298**

Features ● VF cable for Sony camera

Camera connection cable
VFC-700P price: **$298**

Features ● VF cable for Panasonic camera

Camera connection cable
VFC-700i price: **$298**

Features ● VF cable for Ikegami camera

Supports various input signals

HD / SD-SDI signals, RGB signals, analog HD component signals, component signals, composite signals, and HDMI signals can be monitored with high image quality.

Supports 3G-SDI and HDMI input (excluding some formats with conversion function to SDI output), allowing you to check video from any source on site. It can be used as a camera view finder, switcher image confirmation monitor, location monitor, etc.

Soft case with hood
SC-7 price: $148

● **Accessories**：Instruction manual / Guarantee

Display audio meter QUAD/DUAL

QUAD / DUAL display is supported for simultaneous video and audio meter display. It is possible to check a meter of up to 16 channels with almost no image.

Zebra pattern setting

Zebra pattern can be turned ON / OFF. In addition to the normal zebra display, an under zebra that monitors underexposed areas is also displayed. There are two display methods: ZEBRA and FILL (solid) display. In most cases, the zebra cannot be displayed unless the camera's dedicated viewfinder is used. However, since the viewer has a zebra function, the zebra can be displayed in any connection, whether it is for editing work or installed in a relay car.

HD-SDI input error display function

The HD-SDI error counter is installed. When building a system, you can measure the number of errors caused by cable troubles and troubles with connected devices. In addition to the constant ON / OFF display of the error count, the AUTO display can be displayed only when an error appears.

Patented zoom remote controller can easily switch camera or return display

By connecting the optional zoom remote control AS-1 / A to the HDF-EL800, the HD-SDI signal from the camera and the return HD-SDI signal from the switcher can be checked alternately with the return button on the zoom remote control. (PAT). This is a function that is decisively different from other small monitors.
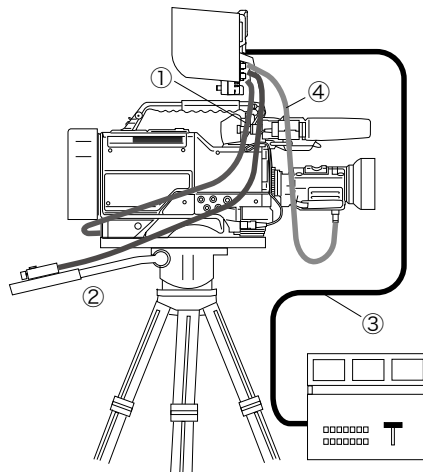
① **Camera HD-SDI video**
② **Zoom remote controller**
③ **Return video of switcher, etc.**
④ **Zoom lens-relay remote control cable**

Pro 20 pin zoom remote control type

The zoom remote control Canon ZSD-300D for broadcasting can be inserted directly into the viewer inner, and the return button on the back of the ZSD-300D allows you to check the return comfortably. The viewfinder has two connectors, and the zoom of the lens can be used by using the optional cable ASC-2.

Build-in PinP function

The HDF-EL800 is equipped with a picture-in-picture function that overlays the return video on the camera video in a sub-screen so that the return video can be checked at all times while shooting with the camera. It is very convenient because the return screen is always displayed even when the screen is prone to shake when the return button is pressed when shooting on the super-telephoto side, such as sports shooting or stage shooting, or shooting using a box lens. It is the world's first installed in O-LED viewfinder. Realizes picture-in-picture in different formats.

Visibility marker

In addition to 10 types of markers, 3 types of user markers can be set. Line thickness can be set in 3 levels: Type 1 (Thin), Type 2 (Medium), and Type 3 (Thick). The line type can be selected from gray, halftone, and white.

Option

Zoom remote control extension cable
ASC-2 price: $298

Cable to extend HDF-EL800 and zoom remote control. 1m.

Zoom remote control relay cable
ASC-2B price: $298

Cable that relays HDF-EL800 and zoom lens. 1m.

Multi-function 7-inch professional viewfinder

7 inch HD view finder recording monitor/location stand

HDF-700 price: $3,780

● **Accessories**：Stand for location/ AC adapter/ Instruction manual/ Guarantee

Front Panel

Back Panel

Features ● 7 inch HD viewfinder/ monitor ● Supports 3G/HD/SD-SDI, HDMI input ● Supports HD component, Composite input ● SDI return ● Vectorscope/ waveform display ● Multi view function ● SID error display ● With AS-1/A zoom demand, camera video and return can be switchable ● Red/Green tally on front panel ● Large red tally on rear panel

Specifications ● INPUT / DC : XLR 4Px1 / SDI(HD SD) : BNC x1 / SDI RETURN : BNC x1 / Analog HD Component : BNC x3 YPBPR RGB / VF IF : HD D-SUB 15P x1 HD Component/ TALLY/DC ● OUTPUT / SDI(HD SD) : BNCx1 / AUDIO : XLR 3Px2 -20dBu/ AUDIO MONITOR Headphone : φ 6.3 Stereo Jackx1 / MONITOR SPEAKER : Built-in ● FUNCTION / REMOTE : 8Px2 RETURN Control IN/OUT / TALLY : BNCx2 GREEN RED / UTILITY : WAVEFORM VECTORSCOPE ZEBRA PEAKING ● GENERAL/ DC POWER : DC12V(10-16V) 12W / Size (WxHxD) : 195x153x50 mm(WxHxD) / Weight : 1.0 kg ● ACCESSORIES / Location Stand / AC Adaptor

7 inch HD view finder recording monitor/location stand (V mount battery shoe)

HDF-700V price: $3,780

● **Accessories**：Stand for location/ AC adapter/ Instruction manual/ Guarantee

Front Panel

Back Panel

Features ● 7 inch HD viewfinder/ monitor (V-battery shoe) ● Supports HD/ SD-SDI input ● Supports HD component input ● SDI return ● Vectorscope/ waveform display ● SID error display ● Multi view function ● With AS-1/ A zoom demand, camera video and return can be switchable ● Red/Green tally on front panel ● Red tally on rear panel ● V-mount batery

Specifications ● INPUT / DC : XLR 4Px1 / DC : V-mountx1 / SDI(HD SD) : BNCx1 / SDI RETURN : BNCx1 / Analog HD Component : BNCx3 YPBPR RGB / VF IF : HD D-SUB 15Px1 HD Component/ TALLY/DC ● OUTPUT / SDI(HD SD) : BNCx1 / AUDIO : XLR 3Px2 -20dBu / AUDIO MONITOR Headphone : φ 6.3 Stereo Jackx1 / MONITOR SPEAKER : Built-in ● FUNCTION / REMOTE : 8Px2 RETURN Control / TALLY : BNCx2 GREEN RED / UTILITY : WAVEFORM VECTORSCOPE ZEBRA PEAKING ● GENERAL / DC POWER : DC12V(10-16V) 12W / Size (WxHxD) : 195x147x46 mm(WxHxD) / Weight : 1.1 kg ● ACCESSORIES / Location Stand / AC Adaptor

Swing arm

STF-100 price: $3,480

● **Accessories**：Instruction manual/Guarantee

Features ● Swing arm; attach HDF-500/700 to tripod base

Specifications ● GENERAL / Size (WxHxD) : 150x27x350 mm when folded / 150x27x632 mm / Weight : 0.9 kg ● ACCESSORIES / Screw : 1/4" x3 / 3/8" x2

A swing arm ensures a natural shooting style

During stage shooting and studio shooting, a swing arm is attached between the camera platform and tripod base, and the monitor moves in the same direction according to the camera pan. The conventional large viewfinder was attached to the top of the camera handle, but this swing arm method allows direct lens operation. We realized the most natural shooting style.

Swing arm/viewfinder mounting bracket set
HDF-700/S · 700V/S price: $4,480

Set content : HDF-700 or 700V body / Stand for location / Camera mounting head / Stadio kit / Cam tap power supply cable (1.2m)/AC adapter / Swing arm for tripod mounting/BNC cable (1m)/Extension cable for zoom remote control / Zoom remote control relay cable / Hood / Camera screw（1/4 inch ×2）(3/8 inch ×2)（1/4 inch male-male screw ×1）/ Instruction manual / Guarantee

Swing arm/viewfinder mounting bracket set
HDF-500/S price: $3,180

Set content : HDF-500 body / Stand for location / Camera mounting head / Stadio kit / Cam tap power supply cable (1.2m)/AC adapter / Swing arm for tripod mounting/BNC cable (1m)/Extension cable for zoom remote control / Zoom remote control relay cable /Hood / Camera screw（1/4 inch ×2）(3/8 inch ×2)（1/4 inch male-male screw ×1）/ Instruction manual / Guarantee

7 inch HD viewfinder/recording location monitor with stadio kit
HDF-700SK price: $3,980

5 inch 3G/HD viewfinder/recording monitor (V battery shoe) with stadio kit
HDF-500SK price: $2,680

7 inch HD viewfinder/recording location monitor with stadio kit
HDF-700VSK price: $3,980

● **Accessories**：SK-500/Instruction manual/Guarantee

● **Accessories**：Instruction/Guarantee

HDF-700/700V/HDM-70WV/Option

HDF–700/700V Stadio kit **SK-700** price: **$360**	HDF–700/700V Long hood for stadio kit **HFC-770** price: **$238**	HDF–700/700V Soft case with hood **SC-7** price: **$148**	HDF–700/700V Rack mount bracket **HS-RA700** price: **$298**	HDF–700/700V Hood **HFC-700** price: **$148**	Swing arm for mounting tripod **STF-100** price: **$348**
A bracket that attaches HDF-700 / V / HDM-70WV to the accessory shoe of the camera. Monitor is sold separately.	HDF-700 / V / HDM-70WV outdoor hood. Can be installed in combination with SK-700.	Soft case to protect HDF-700 / V / 70WV from scratches. Can be used as a dedicated hood when assembled.	Hardware for rack mounting HDF-700 / V / HDM-700WV to EIA4U rack.	HDF-700 exclusive cloth shading hood.	Bracket for mounting HDF-500 / HDF-700 between the pan head and tripod base.
HDF-500 Stadio kit **SK-500** price: **$360**	Stadio kit SK500 Long hood **HFC-570** price: **$238**	Rack mount bracket for HDF–500 **HS-RA550** price: **$298**	Camera connecting cable **VFC-700S** price: **$298**	Camera connecting cable **VFC-700P** price: **$298**	Camera connecting cable **VFC-700i** price: **$298**
A bracket that attaches the HDF-500 to the accessory shoe of the camera. Monitor is sold separately.	HDF-500 outdoor hood. Can be installed in combination with SK-500.	Hardware for rack-mounting the HDF-500 to an EIA4U rack.	Sony camera connecting cable for HDF-500 / HDF-700V.	Panasonic camera connecting cable for HDF-500 / HDF-700V.	Ikegami camera connecting cable for HDF-500 / HDF-700V.
HDF-700 series mounting Tilt arm stay **UH-700** price: **$248**	Aluminum case **SC-700** price: **$298**	Return selector switch **AR-70** price: **$120**	Zoom remote controller **AS-520** price: **$398**	Zoom remote controller extension cable **ASC-1** price: **$98**	Zoom remote control relay cable **ASC-1B** price: **$98**
Mounting arm stay for HDF-700 / V / HDM-70WV.	Aluminum case that can store two HDF-700 / V / HDM-70WV and accessories.	Return switch for HDF-700 / V.	Zoom remote control. Return switching is possible by connecting to HDF-700 / V.	Cable to extend HDF-700 / V and zoom remote control.	Cable to connect HDF-700 / V and lens.

Supreme maneuverability.
High-definition HD in a compact body

**5 inch 3G/HD viewfinder/recording monitor
(V battery shoe)**
HDF-500 price: **$2,480**

**5 inch 3G/HD viewfinder/with stadio kit
(V battery shoe)**
HDF-500SK price: **$2,680**

● **Accessories**：Stand for location/ AC adapter/Instruction manual/Guarantee

● **Accessories**：SK-500/Instruction manual/Guarantee

HDF-500 front panel

HDF-500 back panel

Features ● 5 inch HD3G viewfinder/ monitor (V battery shoe)　(HDF-500SK;HDF500 and SK-500 studio kits) ● Supports 3G/HD/SD-SDI, HDMI input ● Supports HD component, Composite input ● SDI return ● Vectorscope/ waveform display ● Multi view function ● SID error display ● Picture in picture ● With AS-1/A zoom demand(option), camera video and return can be switchable　● Red/Green tally on front panel ● Large red tally on rear panel ● V-mount battery

Specifications ● INPUT / DC : XLR 4Px1 / DC : V-mountx1 for Li-ion Battery Pack / SDI(HD SD) : BNCx1 / SDI(HD SD) RETURN : BNCx1 / HDMI : HDMI(Type A)x1 / CVBS : BNCx1 / VF IF : HD D-SUB 15Px1 HD Component/TALLY/DC ● OUTPUT / SDI(HD SD) : BNCx1 / AUDIO MONITOR Headphone : φ 6.3 Stereo Jackx1 / MONITOR SPEAKER : Built-in ● FUNCTION/ REMOTE : 8Px2 RETURN Control IN/OUT / TALLY IN : BNCx1 Voltage Input or ON/OFF Input　/ TALLY : BNCx2 Front GREEN RED / Rear RED / UTILITY : WAVEFORM VECTORSCOPE ZEBRA PEAKING ● GENERAL / DC POWER : DC12V(10-16V) 15W(typ.) / Size (WxHxD) : 180x117x61 mm　/ Weight : 0.94 kg ● ACCESSORIES/ HDF-500;Location Stand, HDF-500SK; SK-500 studio kits / AC Adaptor

Option

**Stadio kit for
HDF-500**
SK-50
price: **$200**

HDF-500 exclusive, studio-spec inexpensive mounting bracket. UH-35 sold separately. Monitor sold separately.

**Stadio kit for
HDF-500**
SK-500
price: **$360**

A bracket that attaches the HDF-500 to the accessory shoe of the camera. Monitor sold separately.

**Long hood
for stadio kit SK-500**
HFC-570
price: **$238**

HDF-500 outdoor hood. Can be installed in combination with SK-500.

Rack mount bracket
HS-RA550
price: **$298**

Hardware for rack mounting HDF-500 to EIA 4U rack.

4.3 inch composite input monitor

4.3 inch monitor
LVM-43W price: **$498**

● **Accessories**：Mounting bracket/Instruction manual/Guarantee

Connector panel　　Back panel　　Mounting bracket

Peaking funtion

Equipped with a peaking function. Can be used as a simple viewfinder by emphasizing the edges. Peaking level can be adjusted from the menu, and peaking can be turned ON / OFF with the front button.

Features ● 4.3 inch monitor ● VF6P ● Support Composite ● 3 inputs, 1 through out ● Tally indicator

Specifications ● INPUT / Composite : BNCx2 / Monitor I/F : Mini 6Px1 ● OUTPUT / Composite : BNCx1 (Composite Input through out) ● FUNCTION / TALLY IN : BNCx1 Voltage Input 5V for RED tally / TALLY Indicator : Indicator LEDx2 RED / MENU : PEAKING. MARKER. R/G/B ONLY, MONOCHROME ● GENERAL / DC POWER : DC 12V 3W XLR 4P malex1　/ Size (WxHxD) : 109x93x35 mm / Weight : 0.3 kg

4.3 inch monitor
LVM-43L price: **$398**

● **Accessories**：Mounting bracket/Instruction manual/Guarantee

Features ● Low-priced 4.3 inch monitor ● Support composite ● Tally indicator

Specifications ● INPUT / Composite : BNCx2 ● OUTPUT / Composite : BNCx1 (Composite Input through out) ● FUNCTION / TALLY IN : BNCx1 Voltage Input 5V for RED tally / TALLY Indicator : Indicator LEDx2 RED / MENU : PEAKING. MARKER. R/G/B ONLY, MONOCHROME ● GENERAL / DC POWER : DC 12V 3W XLR 4P malex1 / Size (WxHxD) : 109x93x35 mm / Weight : 0.3 kg

Option

AC power supply
AC-M15
price: **$70**

AC power supply that enables LVM-43W / L to be driven by AC.

Free pan head
UH-25
price: **$60**

A free pan head that secures the LVM-43W / L to a camera accessory shoe.

Lightweight・Low price 8.9 inch monitor with HDMI input

HDMI/HD component 8.9 inch monitor
LVM-89W price: **$798**

● **Accessories**：Instruction manual/Guarantee

Back panel

Features ● 8.9 inch monitor ● Support HD component, composite ● HDMI ● Red/Green tally ● 1/4" screw hole to mount on tripod

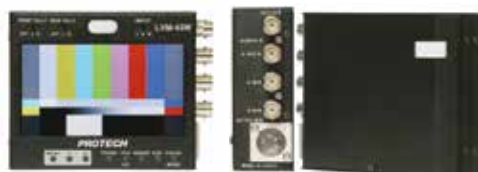Specifications ● INPUT / HDMI : HDMI(Type A)x1 / HD Component : BNCx3 YPBPR (1 Line) / Composite : BNCx1 / Monitor I/F : Mini 6Px1 ● OUTPUT / Composite : BNCx1 (Composite Input through out) ● FUNCTION / TALLY IN : BNCx1 Voltage Input for GREEN and RED tally / TALLY Indicator : Indicator LEDx2 x2 GREEN and RED / MENU : PEAKING, MARKER, R/G/B ONLY, MONOCHROME   ● GENERAL / DC POWER : DC 12V(10V-16V) 8W XLR 4P malex1 / Size (WxHxD) : 217x149x35 mm / Weight : 0.6 kg ● ACCESSORIES / Universal Head

3 inputs Through-out 1 output

One BNC composite input and one IF input are possible. Through output of one composite input is possible.

Lightweight, compact body

Professional monitor essential for on-site coverage and multi-camera recording. It has been made compact and lightweight, and has achieved a compact size of about 700g.

Peaking function

Equipped with a peaking function. Can be used as a simple viewfinder by emphasizing the edges. Peaking level can be adjusted from the menu, and peaking can be turned ON / OFF with the front button.

Tally display function

By connecting to devices such as the optical conversion system, DS / ES series, VSE-500HD / 1, tally display is possible. You can select from two systems: BNC input and IF connector.

HD-Y input support

LVM-89W supports HD component and HDMI. It is possible to display return images such as HD-Y during recording.

BLUE ONLY function

Equipped with BLUE ONLY function for monitor HUE / CONTRAST adjustment. Also equipped with RED ONLY / GREEN ONLY function.

Equipped with a tripod mounting hole

There is a 1/4 inch camera tripod screw hole on the bottom of LVM-89W. Can be fixed in combination with various stays.

DC input (Canon 4P)

It can be driven with power supply voltage from DC10V to 17V. It supports various battery voltages such as 14.4V lithium ion battery pack and 12V NiCd battery pack.

Marker display function

Compatible with 16: 9/4: 3 recording. You can shoot while displaying markers, and support content creation.

* HD-Y signal may not be output depending on the camera model.

Battery type

HDMI/HD component 8.9 inch monitor AA battery powered
LVM-89WB price: **$898**

● **Accessories**：Instruction manual/Guarantee

Features ● 8.9 inch monitor with AA battery operation ● 1.5 hour operation with 8 x AA batteries ● For other features, refer to LVM-89W

HDMI/HD component 8.9 inch monitor V mount battery powered
LVM-89WV price: **$948**

● **Accessories**：Instruction manual/Guarantee

Features ● 8.9 inch monitor with V-mount lithium-ion battery operation ● For other feat ures, refer to LVM-89W

Option

Dry battery adapter	Lithium V mount adapter
BAT-89W price: **$100**	**PBU-L89W** price: **$160**
Adapter that drives LVM-89W with 8 AA batteries.	An adapter that enables installation of a Sony lithium-ion battery.
AC power supply	Free pan head
AC-M15 price: **$70**	**UH-25** price: **$60**
AC power supply that enables LVM-89W to be AC driven.	A free pan head that secures the LVM-89W to the accessory shoe of the camera.

Multi-view realization to ultra-high-quality 4K monitor. Multi-viewer capable of mixing 3G-SDI-SDI / HD / SD-SDI input

Multi viewer
HSK-1600MV price: **$18,700**

● **Accessories**：Connection cable for small camera/8P cable/ Instruction manual/Guarantee

Multi-view display of HD / 3G video material up to 16CH is possible. Combined with HDX-5500 / HDX-6500, multi-view display of HD input on advanced 4K monitors is realized. Technology multi-image processor. Realizing high-quality multi-image display, with its high performance and reasonable price, it can be used in a wide range of applications such as relay car, news studio, studio, editing room, video conference room, master control studio.

Super high quality multi view. Ideal for editing rooms, OB Van, events, etc.

Multi-view of up to 16 channels is possible with 4K professional monitor HDX system. Each channel can be synchronized / asynchronized. Different formats can be displayed, and it is used in various systems from broadcasting to monitoring. Clock display is also possible, ideal for relay vehicles and studios. It can be viewed from almost all directions by adopting the IPS panel.

Rack mount possible Thin 1U

The engine that enables high technology 4K multi-view is ultra-compact. Stable video output is achieved due to ultra-high-speed processing. EIA 19 inch rack is possible.

Option

Set of multi-viewer up to 16 screens and HDX-5500 55-inch monitor
HSK-1655SET price: **$37,680**
● **Accessories**：HDX-5500/ AC cable/ Instruction manual/Guarantee

Set of multi-viewer up to 16 screens and HDX-6500 65-inch monitor
HSK-1665SET price: **$41,500**
● **Accessories**：HDX-6500/ AC cable/ Instruction manual/Guarantee

Features ● HD-SDI/3G-SDI Multi viewer; supports 16 channel inputs ● 16CH 3G/HD/SD-SDI input auto-sensing display ● 4CH SDI/HDMI outputs ● Display up to 16 framed images ● High resolution ● 16 channel GPI inputs, 4 channel GPO outputs ● Time display on the upper of screen ● 3G x 4, 4K output at 50/60 fps ● Red Tally, Green Tally ● Audio level meter display
Specifications ● INPUT/OUTPUT / 3G/HD/SD-SDI input signal : (3G-SDI)1080p50/60/59.94 : (HD-SDI)1080i50/59.94/60, 1080p23.98/24/25/29.97/30, 1080sf23.98/24, 720p50/59.94/60, 720p23.98/24/25/29.97/30 : (SD-SDI)525i60,625i50 / 3G/HD/SD-SDI IN Port : BNC x6CH Auto-sensing of 16CH 3G/HD/SD input / SDI/HDMI OUT Port : BNC x4CH The 4 outputs combined can produce a 4k output at 50/60 frame rate / Control Port : GPI input 16CH / GPO output 4CH : LTC : Ethernet : RS422(TSL) / Display Unit : Up to 16 split windows display (single screen) ● GENERAL / AC POWER : 85-240 V 50/60 Hz Automatically adapts to the power supply. / Power Consumption : 60 W / Size (WxHxD) : (1U) 465.5x44x342 mm / Weight : 6.1 kg ● ACCESSORIES / AC Cable

HDX 4K Series Monitor
4K Professional

65 inch professional 4K monitor
HDX-6500 price: **$22,800** `BTO`

● **Accessories**：Stand for location/ AC cable/ Instruction manual/ Guarantee

55 inch professional 4K monitor
HDX-5500 price: **$18,980** `BTO`

● **Accessories**：Stand for location/ AC cable/ Instruction manual/ Guarantee

42 inch professional 4K monitor
HDX-4200 price: **$16,980** `BTO`

● **Accessories**：AC cable/ Instruction manual/Guarantee

3G-SDI x 4 input support professional 4K monitor

仕様 Specifications

MODEL	HDX-4200	HDX-5500	HDX-6500
Size	42"	55"	65"
Resolution		3840x2160	
Color Depth		10bits	
Backlight		LED	
Viewing Angle		178°×178°	
Brightness	350cd/㎡	400cd/㎡	450cd/㎡

入 力 Input Terminals

3G/HSD/SD-SDI	BNC (×4)	
DVI-D	DVI-D×4 (compatible with HDMI,support HDCP)	
Audio	2ch stereo RCA (×2)	

出 力 Output Terminals

3G/HSD/SD-SDI	BNC× 1		
Audio Monitor	1ch stereo CA (×1)		
Earphone	Stereo mini jack (×1)		
Speaker	5.0 W+5.0 W		
外部制御			
GPI	6 GPI Input, RJ45 (×1)		
RS485	RS485, can be cascaded, RJ45 (×2)		
Ethernet	10/100M Adaptive,RJ45(x1)		
その他仕様			
入力電圧 Power	100-240V 50/60Hz		
消費電力 Power Consumption	120W	180 W	240W
使用温度 Operating Temperature	0℃ ～ 35℃		
重量 Wight	21kg	28kg	39Kg

入力信号フォーマット Signal Format

Input Signal	SDI	VBS/YC	YPbPr	HDMI
PAL		○		
NTSC		○		
480/59.94i,60i	○		○	○
576/50i	○		○	○
480/59.94p,60p			○	○
576/50p			○	○
720/23.98p,24p	○		○	○
720/25p	○		○	○
720/29.97p,30p	○		○	○
720/50p	○		○	○
720/59.94p,60p	○		○	○
1080/23.98psF24Ps	○		○	○
1035/59.94i,60i	○		○	○
1080/50i	○		○	○
1080/59.94i,60i	○		○	○
1080/23.98p,24p	○		○	○
1080/25p	○		○	○
1080/29.97p,30p	○		○	○
1080/50p	○		○	○
1080/59.94,60p	○		○	○

Input Signal	DVI-D
640×480(60Hz)	○
800×600(60Hz)	○
1024×768(60Hz)	○
1280×1024(60Hz)	○
1440×900(60Hz)	○
1400×1050(60Hz)	○
1600×1200(60Hz)	○
1680×1050(60Hz)	○
1920×1080(60Hz)	○
1920×1200(60Hz)	○

Dimensions

HDX-4200
954×553×81 (mm)

HDX-5500
1245×715×81 (mm)

HDX-6500
1461×837×81 (mm)
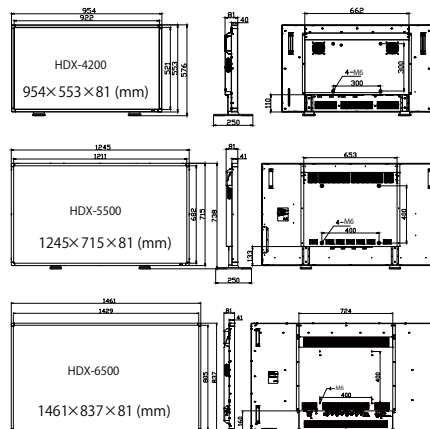
Lineup 65, 55, 42 type
High resolution display

The HDX 4K series is a full resolution 4K / HD broadcast monitor that supports the current mainstream 3G×4 input and realizes a maximum 3840 ×2160 display. The latest professional broadcast monitors can automatically switch between high-quality SD / HD-SDI formats. Ideal for broadcast shooting, as well as for installation in an office building, editing room, and relay car. It can be mounted on a wall.

Smart design, Robust design with metal chassis

Matte black professional design with aluminum body. There is a VESA mount hole on the back. The professional broadcasting connectors are under of the back side, so there is no worries about damaging the cable and it can be installed in tight spaces. The connection is a standard 3G-SDI BNC connector, so the cable will not come off due to its vibration even when used in a relay car.

Great performance for big screen

4K resolution is difficult to check on small monitors, and home TVs are becoming larger today, such as focus and exposure. The extremely bright LCD screen can be seen clearly from almost any angle.

HDR 4K Series Monitor
4K HDR Professional

27 inch professional 4K MASTERTRON
HDR monitor
HDR-2700 price: **$14,980** `BTO`

● **Accessories**：AC cable/ Instruction manual/Guarantee

● 3840x2160 UHD resolution,10Bit IPS panel
● 12 Bit internal processing
● 99% P3 wide color gamut
● LightSpace & CalMAN standard 3D LUT color calibration
● Wide color space: REC709/DCI-P3/EBU/SMPTE-C/REC2020/User
● User 3D LUT file import

55 inch professional 4K MASTERTRON
HDR monitor
HDR-5500 price: **$15,980** `BTO`

● **Accessories**：AC cable/ Instruction manual/Guarantee

● 4x3G/HD-SDI input and loop through
● 4xDVI/HDMI input and loop through
● 4K wide display mode (QSD, FHD, 2SDI)
● High Dynamic Range(HDR) support
● Dynamic UMD support (TSL3.1/4.0)
● Ethernet for external remote/GPI, RS422

LCD specification			
Display size	27"		55"
High resolution	3840×2160		same
Aspect ratio	16:09		same
Wide viewing angle	178°(H) / 178°(V)		same
Pixel pitch	0.1554×0.1554(mm)		0.315×0.315(mm)
Color depth	1.073G(True 10bit)		1.07B (True 10bit)
Back light	LED		LED
Contrast ratio	1400:01:00		1200:01:00
Internal processing	12 bit		same
Input			
4 × BNC	SDI 1/2/3/4 channel input (3G/HD/SD-SDI auto detection)		same
4 × DVI/HDMI	DVI/HDMI		same
Output			
4× BNC	SDI 1/2/3/4 loop through		same
Supported video formats			
SMPTE 2082	2160p(60/59.94/50)		same
SMPTE 2081	2160p(30/29.97/25/24/23.98)		same
SMPTE-425M-A/B	4:2:2 YCbCr 10-bit	1080p(50/59.94/60)	same
	4:4:4 YCbCr/RGB 10-bit	1080i(60/59.94/50)	same
	4:4:4 YCbCr/RGB 12-bit	1080p(30/29.97/25/24/23.98/30sF/29.97sF/25sF/24sF/23.98sF)	same
	4:2:2 YCbCr 12-bit	1080i(60/59.94/50)	same
		1080p(30/29.97/25/24/23.98/30sF/29.97sF/25sF/24sF/23.98sF)	same
	4:4:4 YCbCr/RGB 10-bit	720p(60/59.94/50/30/29/25/24/23.98)	same
SMPTE-274M	1080i(60/59.94/50)		same
	1080p(30/29.97/25/24/23.98/30sF/29.97sF/25sF/24sF/23.98sF)		same
SMPTE-296M	720p(60/59.94/50/30/29/25/24/23.98)		same
SMPTE-260M	1035i(60/59.94)		same
SMPTE-125M	480i(59.94)		same
ITU — R BT.656	576i(50)		same
Audio input/output			
SDI andio	64 ch embedded audio (each SDI ch 16 support)		same
Audio display (VU+PPM)	H / V audio level meter display		same
Audio headset output	3.5mm stereo jack		same
Built-in speaker	2.5W ×2		same
Color space and HDR			
Color space	REC709/DCI-P3/EBU/SMPTE-C/REC2020/USER		same
HDR mode	PQ(SMPTE ST2084), HLG(Hybrid Log Gamma)		same
General			
Operating temp	-10℃～ 50℃		same
Input voltage / power consumption	AC 100-240V 50/60Hz / 77W		AC 100-240V 50/60Hz / 120W
Power saving mode	No input signal for a long time		same
Accessories	Power cord / desktop stand		same

A 16-inch 4K monitor 12G-SDI, which is easy to use on site, also supports input.
This is enough.

Clear and Easy operation
without an instruction manual

12G-SDI supports
3G × 4 SQD (Square division) / 2SI (Two sample interleaving) supports

16 inch professional 4K MASTERTRON

HDX-1600 price: **$6,980**
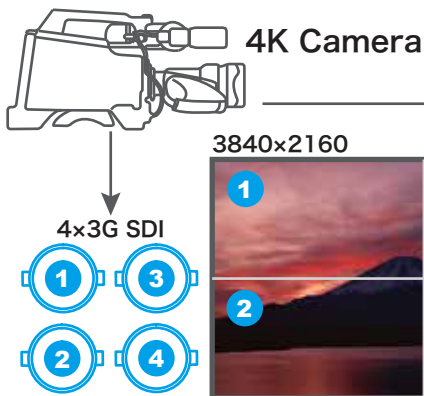
● **Accessories**：AC cable/ Instruction manual/Guarantee

Peaking function

Equipped with an optimal peaking function for on-site photography. It is easy to confirm subtle focus. The Clear Peaking® technology from PROTECH viewfinder which is the top level in Japan has been generously introduced at the retrofit viewfinder manufacturer. This monitor doesn't have HDR function for low price. I think the cameramans on the spot are actually aware about it doesn't need HDR shooting except rare and expensive shooting.

Operatable accurately

It sometimes gets confused when you don't have time, such as entering the menu and switching the input signal. The input is clear and easy one-touch direct button arrangement, so we ensure an excellent feeling of operation.

Specification
IPS panel
Resolution	3840 x 2160
Brightness	350cd /m²
Contrast	1000 : 1
Viewing angle	175°/ 175° (H / V)
Aspect ratio 16 : 9	
Input terminal	12G-SDI×2 lines
	3G-SDI×2 lines
	HDMI 2.0x1lines (4K 60Hz supports)
	HDMI 1.4x3 lines (4K 30Hz supports)
Output terminal	Thru-out 12G-SDI×2 lines
	Thru-out 3G-SDI×2 lines
	Audio speaker ×1
	3.5 Φ MINI jack × 1
Input voltage	DC 11V～25V (XLR4P)
	Battery plate V mount supports
Power consumption	about 38W
Operating temp	-10℃～45℃
Body size	W390 x H268 x D42mm
Aluminum case	W525x H310 x D175mm
Weight	Body about 4Kg
	with an aluminum case about 10kg

4K Camera

3840×2160

4×3G SDI

1 Square Division (4K mode)

3840×2160

4×3G SDI
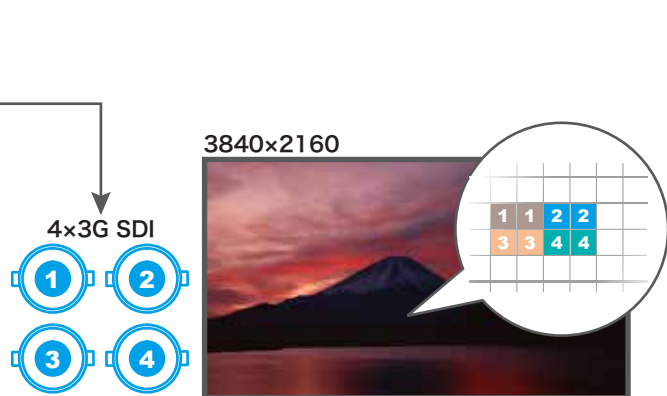
2 Sample Interleave (4K mode)

12G input, 3G input, HDMI x SQD4 input support

12G-SDI, HDMI, 16-inch class 12G-SDI 4K broadcast floor monitor. Full 4K, 3840 x 2160 display possible. You can check high-definition images on site. It supports HDMI1.4x3, HDMI 2.0x1, 12G-SDI single link, dual link, 3G-SDI quad link SQD (Square Division).

Take out anywhere with optional aluminum trunk

An aluminum case that is convenient to carry and place on site is available as an option. It can be used as a floor monitor in the studio or as a monitor in the field outdoors. It can be also installed on EIA 19-inch rack mounts.

Long life design with low heat generation

When designing a 4K monitor, it's a fight against heat. How to reduce fever. The design was repeated after examination including software. This class is top class and has less fever, and since it is fanless, it plays an active part in scenes where quietness is particularly required, such as drama shooting and movie shooting.

Build-in convenient functions for diversifying formats

Various cameras have come to be used in the field. And more, I often want to check the camera settings are in various place, format is sometimes 1080 59.94i, 24p, 60p, HD today, 4K shooting tomorrow. That's why we invented the monitor with the world's first function. Equipped with a direct format display function. You can easily check the settings before shooting, and when you are worried, you can check the camera format on the monitor immediately with one touch.

The AC adapter is always installed, and the battery can be installed directly.

Battery direct attachment that is convenient for location can be installed. PROTECH ProPOWER BP-Li270 battery can be operated continuously for more than 5 hours on site. The AC adapter is always installed.

Aluminum carrying case for HDX-1600
SC-X1600 price: $680

● **Accessories**：Instruction manual/Guarantee

Rack mount bracket for HDX-1600
HS-X1600 price: $98

The largest rack mountable class 18.5 inch full HD monitor

18.5 inch professional full HD monitor
HDM-1850 price: $3,280

● **Accessories**：AC cable/ Instruction manual/ Guarantee

Features ● 18" HD monitor ● Stereo speaker ● Support HD-SDI/SD-SDI input ● Support HD component, composite input ● Vectorscope/ waveform display ● Tally indicator ● Rack mount

18.5 inch professional full HD monitor
HDM-1820 price: $2,180

● **Accessories**：AC cable/ Instruction manual/ Guarantee

Features ● 18" HD monitor ● Stereo speaker ● Support HD-SDI/SD-SDI input ● Support HD component, composite input ● Vectorscope/ waveform display ● Tally indicator ● Rack mount

Simple functions, 7-inch HD low cost monitor
for broadcast・business-use

7 inch HD monitor
HDM-70WV price: **$1,980**

● **Accessories**：AC adapter/instruction manual/Guarantee

Features ● 7 inch HD monitor ● V-mount battery ● Support HD-SDI/SD-SDI input ● Support HD component ● SDI return ● Return remote control ● SDI error display ● Red/Green tally on front panel ● Red tally on rear panel

Specifications ● INPUT / DC : XLR 4Px1 / DC : V-mountx1 / SDI(HD SD) : BNCx1 / SDI RETURN : BNCx1 / Analog HD Component : BNCx3 YPBPR RGB / VF IF : HD D-SUB 15Px1 HD Component/TALLY/DC ● OUTPUT / SDI(HD SD) : BNCx1 / AUDIO : XLR 3Px2 -20dBu / AUDIO MONITOR Headphone : φ 6.3 Stereo Jackx1 / MONITOR SPEAKER : Built-in ● FUNCTION / REMOTE : 8Px2 RETURN Control IN/OUT / TALLY : BNCx2 IN/OUT GREEN RED / UTILITY : WAVEFORM VECTORSCOPE ZEBRA PEAKING ● GENERAL / DC POWER : DC12V(10-16V) 12W / SIZE : 195x147x46 mm(WxHxD) / WEIGHT : 1.0 kg ● ACCESSORIES / Location Stand / AC Adaptor

High quality, multi functional 9-inch HD monitor
with build-in cross converter

9 inch HD monitor
HDM-920WD price: **$3,980**

● **Accessories**：AC adapter/Instruction manual/Guarantee

Features ● 9 inch HD monitor ● Built-in Cross Media Converter ● 3D compatible ● Support HD-SDI/SD-SDI input ● Support HD component, composite input ● Vectorscope/ waveform display ● Tally indicator

Specifications ● INPUT / SDI(3G/HD/SD) IN : BNCx2 / ANALOG INPUT : BNCx3 Composite CVBS / S-VIDEO Y/C / HD Component YPBPR (1 Line) / HDMI IN : HDMI(Type A)x1 / AUDIO IN : φ 3.5 Stereo Mini Jackx1 ● OUTPUT / SDI(3G/HD/SD) OUT : BNCx1 / HDMI OUT : HDMI(Type A) x1 / AUDIO OUT : φ 3.5 Stereo Mini Jackx1 / AUDIO MONITOR Headphone : φ 3.5 Stereo Mini Jackx1 / MONITOR SPEAKER : Monox1 ● FUNCTION / REMOTE : RJ45 7 GPI 8PX1 / TALLY Indicator : Indicator LEDx1 x3 / TC Indication / Audio Level meter : 16CH / UTILITY : WAVEFORM VECTORSCOPE ZEBRA PEAKING ● GENERAL / DC POWER : DC 12V(10V-16V) 18W / Size (WxHxD) : 221x173x45 mm / Weight : 1,8 kg ● ACCESSORIES / AC Adaptor

7 inch build-in speaker HD monitor
HDM-70SP price: **$2,880**

● **Accessories**：AC adapter/Instruction manual/Guarantee

Features ● 7 inch HD monitor with built-in speaker ● Stereo speaker ● Support HD-SDI/SD-SDI input ● Support HD component input ● Vectorscope/ waveform display ● Tally indicator

The speaker function is perfect for editing and recording vehicles. 19-inch EIA rack mountable. Shallow depth, compact and lightweight.

Specifications ● INPUT / SDI(HD SD) : BNCx2 / OPTION INPUT : for DVI or HD Component Input Port x1 ● OUTPUT / SDI(HD SD) : BNCx1 SDI IN Input Loop Through / AUDIO Headphone : φ 6.3 Stereo Jack x1/ φ 3.5 Stereo Mini Jack x1 ● FUNCTION / REMOTE : RJ45 7 GPI 8PX1 x2 / TALLY Indicator : Indicator LEDx1 x2 / TC Indication : x2 / Audio Level meter : 16CH x2 / UTILITY : WAVEFORM VECTORSCOPE ZEBRA ● GENERAL / DC POWER : DC 12V(10V-16V) 14W / Size (WxHxD) : 480x133x61 mm / Weight : 2.7 kg ● ACCESSORIES / AC Cable

Vectorscope / waveform ON / OFF is possible. The display size can be displayed in three levels (large, medium, small). The position can also be in the upper right, lower right, upper left, lower left.

2U 4.3 inch 4 stations 3G support monitor
HDM-4400 price: **$4,780**

● **Accessories**：AC adapter/Instruction manual/Guarantee

Features ● 2U 4.3 inch quadruple monitors ● 19 inch EIA rack mount ● Support 3G-SDI/HD-SDI/SD-SDI input ● Support HDMI and VBS ● HD-SDI output (throughout) ● Vectorscope/ waveform display ● Embedded audio monitor ● Tally indicator ● H/V DELAY

Specifications ● INPUT /3G SDI(HD SD) : BNCx2 x4 / VBS : BNCx1 x4 / HDMI x1_x4 ● OUTPUT/ SDI(HD SD) : BNCx1 x4 / AUDIO : φ 3.5 Stereo Mini Jackx1(Headphone) x4 ● FUNCTION / REMOTE : HD D-SUB 15P X1 x4 / TALLY Indicator : Indicator LEDx1 x4 / TC Indication : x4 / Audio Level meter : 16CH x4 / UTILITY : WAVEFORM VECTORSCOPE ZEBRA ● GENERAL / DC POWER : DC 12V(10V-16V) 48W / Size (WxHxD) : 480x88x61 mm / Weight : 2.4 kg ● ACCESSORIES / AC Adaptor

Multifunctional. Rack mount monitor line-up

3U 7 inch stations HD monitor
HDM-2000 price: **$3,480**
● **Accessories**：AC adapter/Instruction manual/ Guarantee

Features ● 3U 7 inch double HD monitors ● 19 inch EIA rack mount ● Support HD-SDI/SD-SDI input ● Support HD component ● HD-SDI output (throughout) ● Vectorscope/ waveform display ● Embedded audio monitor ● Tally indicator ● H/V DELAY function

Specifications ● INPUT / SDI(HD/SD) : BNCx2 x2 / OPTION INPUT : for DVI or HD Componentx1 x2 ● OUTPUT / SDI(HD/SD) : BNCx1 x2 / AUDIO : φ 3.5 Stereo Mini Jackx2(Headphone/AUDIO OUT) x2 ● FUNCTION / REMOTE : RJ45 7 GPI 8PX1 X2 / TALLY Indicator : Indicator LEDx1 x2 / TC Indication : x2 / Audio Level meter : 16CH x2 / UTILITY : WAVEFORM VECTORSCOPE ZEBRA ● GENERAL / DC POWER : DC 12V(10V-16V) 24W / Size (WxHxD) : 480x133x61 mm / Weight : 2.7 kg ● ACCESSORIES/ AC Adaptor

3U 5 inch 3 stations HD monitor
HDM-3000 price: **$4,480**
● **Accessories**：AC adapter/Instruction manual/ Guarantee

Features ● 3U 5 inch triple monitors ● 19 inch EIA rack mount ● Support HD-SDI/SD-SDI input ● Support HD component ● HD-SDI output (throughout) ● Vectorscope/ waveform display ● Embedded audio monitor ● Tally indicator ● H/V DELAY function

Specifications ● INPUT / SDI(HD/SD) : BNCx2 x3 / OPTION INPUT : for DVI or HD Componentx1 x3 ● OUTPUT / SDI(HD/SD) : BNCx1 x3 / AUDIO : φ 3.5 Stereo Mini Jackx2(Headphone/AUDIO OUT) x3 ● FUNCTION / REMOTE : RJ45 7 GPI 8PX1 x3 / TALLY Indicator : Indicator LEDx1 x3 / TC Indication : x3 / Audio Level meter : 16CH x3 / UTILITY : WAVEFORM VECTORSCOPE ZEBRA ● GENERAL / DC POWER : DC 12V(10V-16V) 36W / Size (WxHxD) : 480x133x61 mm / Weight : 2.7 kg ● ACCESSORIES / AC Adaptor

2U 4.3 inch 4 stations HD monitor
HDM-4000 price: **$4,980**
● **Accessories**：AC adapter/Instruction manual/ Guarantee

Features ● 2U 4.3 inch 4 stations HD monitors ● 19 inch EIA rack mount ● Support HD-SDI/SD-SDI input ● Support HD component ● HD-SDI output (throughout) ● Vectorscope/ waveform display ● Embedded audio monitor ● Tally indicator ● H/V DELAY function

Specifications ● INPUT / SDI(HD SD) : BNCx1 x4 / OPTION INPUT : for DVI or HD Componentx1 x4 ● OUTPUT / SDI(HD SD) : BNCx1 x4 / AUDIO : φ 3.5 Stereo Mini Jackx2(Headphone/AUDIO OUT) x4 ● FUNCTION/ REMOTE : RJ45 7 GPI 8PX1 x4 / TALLY Indicator : Indicator LEDx1 x4 / TC Indication : x4 / Audio Level meter : 16CH x4 / UTILITY : WAVEFORM VECTORSCOPE ZEBRA ● GENERAL / DC POWER : DC 12V(10V-16V) 48W / Size (WxHxD) : 480x88x61 mm / Weight : 2.4 kg ● ACCESSORIES/ AC Adaptor

20 inch full HD monitor
HDM-HR2000W price: **$3,580**

● **Accessories** : AC adapter/Instruction manual/ Guarantee

Features ● 20 inch FULL HD monitor ● Stereo speaker ● Support HD-SDI/SD-SDI input ● Support HD component, composite input ● Vectorscope/ waveform display ● Tally indicator ● Rack mount

Specifications ● INPUT / SDI(3G/HD SD) IN : BNCx2 / ANALOG INPUT : BNCx3 Composite CVBS / S-VIDEO Y/C / HD Component YPBPR (1 Line) : HD D-SUB 15Px1 RGB / DVI IN : DVI - I x1 Digital/Analog / AUDIO IN : φ 3.5 Stereo Mini Jackx1 ● OUTPUT/ SDI(3G/HD SD) OUT : BNCx1 / AUDIO OUT : φ 3.5 Stereo Mini Jack x2 / AUDIO Monitor Speaker : Stereo ● FUNCTION/ REMOTE : 8P x1 RJ45 7 GPI / TALLY Indicator : Indicator LED x1 / TC Indication / AUDIO LEVEL Meter : 16CH / UTILITY : WAVEFORM VECTORSCOPE ZEBRA ● GENERAL / DC POWER : AC 100V - 240V (50Hz - 60Hz) : DC 24V XLR 4P male x1 / Power Consumption : 40W / Size (WxHxD) : 461x312x54 mm / Weight : 4.0 kg ● ACCESSORIES / AC Cable

20 inch HD monitor
HDM-2000W price: **$2,980**

● **Accessories** : AC adapter/Instruction manual/ Guarantee

Features ● 20 inch HD monitor ● Stereo speaker ● Support HD-SDI/SD-SDI input ● Support HD component, composite input ● Vectorscope/ waveform display ● Tally indicator ● Rack mount

Specifications ● INPUT / SDI(3G/HD SD) IN : BNCx2 / ANALOG INPUT : BNCx3 Composite CVBS / S-VIDEO Y/C / HD Component YPBPR (1 Line) : HD D-SUB 15Px1 RGB / DVI IN : DVI - I x1 Digital/Analog / AUDIO IN : φ 3.5 Stereo Mini Jackx1 ● OUTPUT / SDI(3G/HD SD) OUT : BNCx1 / AUDIO OUT : φ 3.5 Stereo Mini Jackx2 / AUDIO Monitor Speaker : Stereo ● FUNCTION / REMOTE : 8Px1 RJ45 7 GPI / TALLY Indicator : Indicator LEDx1 / TC Indication / AUDIO LEVEL Meter : 16CH / UTILITY : WAVEFORM VECTORSCOPE ZEBRA ● GENERAL / DC POWER : AC 100V - 240V (50Hz - 60Hz) : DC 24V XLR 4P malex1 / Power Consumption : 40W / Size (WxHxD) : 461x312x54 mm / Weight : 4.0 kg ● ACCESSORY / AC Cable

24 inch HD monitor
HDM-2400W price: **$4,880** `BTO`

● **Accessories** : AC adapter/Instruction manual/ Guarantee

Features ● 24 inch HD monitor ● Stereo speaker ● Support HD-SDI/SD-SDI input ● Support HD component, composite input ● Vectorscope/ waveform display ● 10 Bit IPS panel

Specifications ● INPUT / SDI(3G/HD SD) IN : BNCx2 / ANALOG INPUT : BNC x3 Composite CVBS / S-VIDEO Y/C / HD Component YPBPR (1 Line) : HD D-SUB 15P x1 RGB / DVI IN : DVI - I x1 Digital/Analog / AUDIO IN : φ 3.5 Stereo Mini Jack x1 ● OUTPUT / SDI(3G/HD SD) OUT : BNC x1 / AUDIO OUT : φ 3.5 Stereo Mini Jack x2 / AUDIO Monitor Speaker : Stereo ● FUNCTION / REMOTE : 8P x1 RJ45 7 GPI / TALLY Indicator : Indicator LEDx1 / TC Indication / AUDIO LEVEL Meter : 16CH / UTILITY : WAVEFORM VECTORSCOPE ZEBRA ● GENERAL / DC POWER : AC 100V - 240V (50Hz - 60Hz) : DC 24V XLR 4P male x1 / Power Consumption : 90W / Size (WxHxD) : 602x405x90 mm / Weight : 11 kg ● ACCESSORIES / AC Cable

25 inch 10 bit HD EL monitor
HDM-EL2500 price: **$8,980** `BTO`

● **Accessories** : AC adapter/Instruction manual/ Guarantee

Features ● 25 inch 10bit HD EL monitor ● Stereo speaker ● Support HD-SDI/SD-SDI input ● Support HD component, composite input ● Vectorscope/ waveform display ● 10 Bit IPS panel

Specifications ● INPUT / SDI(3G/HD SD) IN : BNC x2 / ANALOG INPUT : BNC x3 Composite CVBS / S-VIDEO Y/C / HD Component YPBPR (1 Line) : HD D-SUB 15P x1 RGB / DVI IN : DVI - I x1 Digital/Analog / AUDIO IN : φ 3.5 Stereo Mini Jack x1 ● OUTPUT / SDI(3G/HD SD) OUT : BNC x1 / AUDIO OUT : φ 3.5 Stereo Mini Jack x2 / AUDIO Monitor Speaker : Stereo ● FUNCTION / REMOTE : 8Px1 RJ45 7 GPI / TALLY Indicator : Indicator LED x1 / TC Indication / AUDIO LEVEL Meter : 16CH / UTILITY : WAVEFORM VECTORSCOPE ZEBRA ● GENERAL / DC POWER : AC 100V - 240V (50Hz - 60Hz) : DC 24V XLR 4P male x1 / Power Consumption : 118W / Size (WxHxD) : 770x500x107 mm / Weight : 15 kg ● ACCESSORIES / AC Cable

Prompter system active in the field
HDP series

32 inch studio prompter
HDP-3200ST price: **$9,680**   `BTO`

● **Accessories**：Instruction manual/Guarantee

Features ● 32 inch studio teleprompter ● Fun-shaped monitor allows wide angle view ● 500cd/m luminance, high contrast display ● Highly compatible with many types of cameras ● High quality multi coated mirror glass (Vision-Proof ● Multi input support ● Playback monitor function ● Precise time and return display (need optional return/time display kits)

26 inch studio prompter
HDP-2600ST price: **$7,480**

● **Accessories**：Instruction manual/Guarantee

Features ● 26 inch studio teleprompter ● Fun-shaped monitor allows wide angle view ● 500cd/m luminance, high contrast display ● Highly compatible with many types of cameras ● High quality multi coated mirror glass (Vision-Proof) ● Multi input support ● Playback monitor function ● Precise time and return display (need optional return/time display kits)

32 inch studio prompter full set
HDP-3200STF price: **$12,680**   `BTO`

● **Accessories**：Proma PC system/AC power/Instruction manual/Guarantee

Features ● 32 inch studio teleprompter PC sets ● For other features, refer to HDP-3200ST

26 inch studio prompter full set
HDP-2600STF price: **$10,480**

● **Accessories**：Proma PC system/AC power/Instruction manual/Guarantee

Features ● 26 inch studio teleprompter PC sets ● For other features, refer to HDP-3200ST
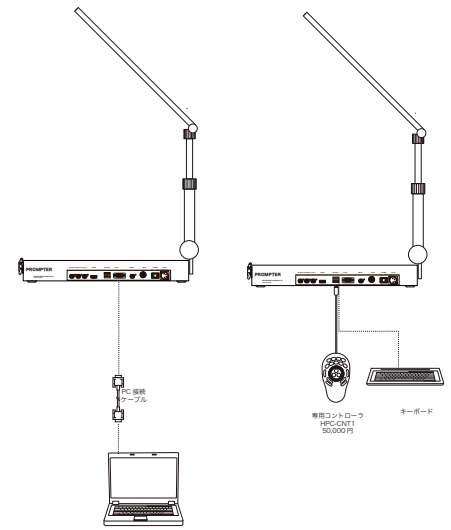
15 inch speech prompter
HDP-SP15 price: **$4,470**

● **Accessories**：Instruction manual/Guarantee

15 inch speech prompter set
HDP-SP15F price: **$7,550**

● **Accessories**：Proma PC system/AC power/Instruction manual/Guarantee

8K/4K/HD compatible prompter

Proma prompter has a reason to be chosen

**Excellent sharpness even when using a prompter
when shooting at ultra-high definition 8K / 4K / HD.**

**Prompters also have various know-how.
Proma prompter system realizes higher
image quality than expected.**

Vision-Proof Glass produced high resolution

Proma Prompter is not aimed at just "a general prompter that can read characters in a prompter". Prompter that can shoot with unprecedented high definition. You can shoot with a sense of transparency as if you were not wearing a prompter.

Vision-Proof Glass can shoot 8K images

As ultra-high image quality progresses, some filters can be affected by simply attaching them to the lens. Aberrations are a particularly big problem, and many prompters tend to become softer when the prompter is installed. With this emphasis on development, it can be used while suppressing deformation and deflection using manufacturing methods and original technology, and with high accuracy against temperature changes.

High intesity and reliability

I think that many productions have experienced damage during transport of prompters. Proma Prompter's Vision-Proof Glass has a strength that is more than double that used in general prompters. Equipped with a unique mirror that can withstand hard use on site.

Moniter design and developed in-house

Another technology for heart and character display is also available at PROTECH without any in-house monitor development technology. In addition to SDI video technology, the latest technology has been introduced to improve operability and mobility on site. With a consistent design, in the event of long-term use, it is possible to handle repairs with a high reliability of 7 years after the end of production.

Is there a prompter light source fogging?
With Proma Prompter, there is no light source fogging.

No fogging and clear video recording

This is a prompter photo of Company A, with the prompter display monitor color on the camera image. The phenomenon that the image floats white is because the color of the scene leaks to the main line.
PROTECH's Proma Prompter is the highest level in the industry and does not have this image fogging phenomenon.

Other company's prompter. Prompter display section is output in full blue.

The monitor of the camera attached to the prompter is affected by the blue color.

PROTECH one is a very clear image.
Please see the comparison video on the right.

Proma's reliability inherited

High quality Vision-Proof Glass

This is an actual live video test.

SONY PXW-Z280　Only camera	SONY PXW-Z280＋HDP-2000 (ours)	SONY PXW-Z280＋A's prompter
This row is the recorded video.	Almost same as original.	Black floats and the color balance slightly shifts.

Mirror transmittance test with the camera aperture fixed. The original has no filter.

Attenuation of light intensity is low at this class top rank. As a result, clear images can be captured, and there is no difference from cameras without a prompter.

The amount of light attenuates so far due to the performance of the mirror.
As a result, the depth of the subject becomes shallow in order to raise the aperture and make the above image. In addition, the color balance is easily lost.

250% enlarged image with proper exposure.
As expected, 4K camera, clear video.

Realizes video as inferior to that without a prompter. A level that is indistinguishable even when the switcher is turned left or right.

An image with a strange color balance. When people are photographed, the hair will not sharp. The focus is not clear.

Proma prompter for high-quality photography

The higher the image quality, the more powerful the Proma Prompter will be. The lineup ranges from small cameras, prompters for unmanned swivels, large-scale prompters for studios, and speech prompters.

The lightest 20-inch class, the strongest prompter that creates the optimal studio space of 4K / HD with minimal tripod load.

20 inch stadio prompter
HDP-2000ST price: **$5,470**

● **Accessories** : Instruction manual/Guarantee/Camera pedestral/Balance plate/Tripod base fixing screw

Features ● 20 inch studio teleprompter ● Fun-shaped monitor allows wide angle view ● 500cd/m luminance, high contrast display ● Highly compatible with many types of cameras ● High quality multi coated mirror glass (Vision-Proof) ● Multi input ● Playback monitor function ● Precise time and return display (need optional return/time display kits)

Specifications ● INPUT / HD-SDI IN : BNCx1 / VBS IN : BNCx1 (Composite) / HDMI IN : HDMI(Type A) x1 / pc in : HD D-SUB 15P x1 ● OUTPUT / HDMI OUT : HDMI(Type A)x1 ● FUNCTION / TALLY Indicator : Indicator LEDx2 GREEN and RED : Indicator LEDx1 RED / TALLY IN : BNCx1 ● GENERAL / DC POWER : DC 11V-17V 43W : XLR 4P male x1 / Size (WxHxD) : Main body : 660x440x460 mm / Camera plinth : 140x105x488 mm / Weight : Main body : 10.2 kg / Camera plinth : 2 kg ● ACCESSORIES / Camera Plinth

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20 inch stadio prompter set
HDP-2000STF price: **$8,550**

● **Accessories** : Proma PC system/AC power/Instruction manual/Guarantee/Camera pedestral/Balance plate/Tripod base fixing screw
Features ● 20 inch studio teleprompter PC sets ● For other features, refer to HDP-2000ST

Specifications ● INPUT / HD-SDI IN : BNC x1 / VBS IN : BNCx1 (Composite) / HDMI IN : HDMI(Type A)x1 / pc in : HD D-SUB 15Px1 ● OUTPUT / HDMI OUT : HDMI(Type A)x1 ● FUNCTION / TALLY Indicator : Indicator LEDx2 GREEN and RED : Indicator LEDx1 RED / TALLY IN : BNCx1 ● GENERAL / DC POWER : DC 11V-17V 43W : XLR 4P malex1 / Size (WxHxD) : Main body : 660x440x460 mm / Camera plinth : 140x105x488 mm / Weight : Main body : 10.2 kg / Camera plinth : 2 kg ● ACCESSORY / Camera Plinth / Proma PC / DC Power Supply / Remote Controller / Cables

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Box type lense 20 inch stadio prompter
HDP-BX2000ST price: **$7,470**

● **Accessories** : Instruction manual/Guarantee/Camera pedestral/Balance plate/Tripod base fixing screw

Features ● 20 inch studio teleprompter for box type lens ● For other features, refer to HDP-2000ST

* Separate wiring is required when using a radio clock.

Box type lense 20 inch stadio prompter set
HDP-BX2000STF price: **$10,550**

● **Accessories** : Proma PC system/AC power/Instruction manual/Guarantee/Camera pedestral/Balance plate/Tripod base fixing screw
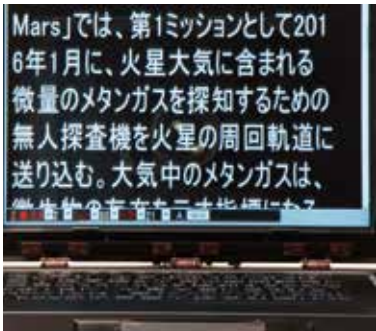Features ● 20 inch studio teleprompter PC sets for box type lens ● For other features, refer to HDP-2000ST

High-contrast, high-brightness, low-power display

By adopting a high contrast display with a brightness of about 500cd / m, the document is clearly projected and the text is easy to see.

Equipped Vision-Proof Glass

The newly developed high-quality multi-coated mirror (Vision-Proof Glass), which is most suitable for recording, realizes flatness (low distortion) and outstanding visibility. This class has the least chromatic aberration and is compatible with 8K / 4K / HD cameras.

Compatible with most cameras

In recent years, as the picture quality of cameras has improved, shoulder cameras and small cameras are used as studio specifications. Almost all cameras can be used by PROTECH's original mechanical development to support all of them.

Compact, lightweight, robust

By adopting a solid aluminum and steel monocoque chassis, it has been reduced in size and weight. We are particular about setting in a short time and realize speedy setting even when using a relay car.

Multi-input support

HDP-2000ST / 3000ST supports HD-SDI input, composite input, PC (D-SUB15PIN) input, and HDMI input. In addition, a tally input is provided to strongly back up studio recordings.

Play back monitor function

Playback and PC screen switching are possible. Since video (composite) input is possible, you can check how the caster itself appears with the included changeover switch. Using this function, it is possible to build a system that mixes with terror using cameras.

Box Lenses Pedestal tripod support

HDP-BX2000ST is compatible with pedestal tripods. Compatible with pedestal heads of various companies, and can be mounted on box-type lenses and studio-type cameras.

HDP-BX2000ST

Large tally, green tally, red tally compatible

Next, a green tally support is provided so that the performer can know the position of the camera to be programmed out. A display is provided on the front, and the camera position number can also be displayed.
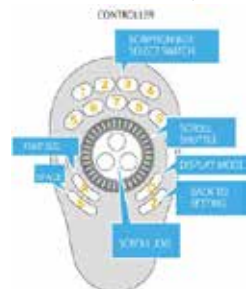
* The large tally is only a red tally.

Accurate time with radio clock input/Return display

By installing an optional return / clock display kit, it is possible to accurately display the timetable and return video during on-air. The video selected by the switcher can be confirmed in real time by the return monitor in front.

Easy operation by "PROMA"

By placing 9 direct readout buttons on the controller, the document can be output without time lag. You can respond immediately to sudden news changes. In addition, each manuscript set can be created for each caster and each program, realizing ease of use. In addition, the character size and line spacing can be selected in 3 steps.

HDP-2000/3200ST						
Body (PC・Video input)	Camera pedestral	Proma PC	Controller	Deferred AC power supply (AC PROPACK 100S)	PB remote controller A (Playback monitor switch)	PB remote controller A extension cable
Balance plate	Tripod base fixing screw	PC connection cable	Controller extension cable	Power cable (Light : XLR-4 pin female − Camtap) (Left : XLR-4 pin male − female)		

HDP-2000/3200STF

Return/Clock display kit

HDP-2000/2000 to HDM-1800W/TM-200 mounting bracket

TM-200 radio clock compatible, clock display
Radio signal input is required.
HD-SDI input compatible monitor HDM-1800W sold separately

Return/Clock display kit

HIC-2000

price: **$1,480**

Radio clock that can be attached to the HDP-2000ST series (a large tripod is required)

"I want this prompter" for casters and crew
Professional prompter born from the voice

15 inch prompter

HDP-1500 price: **$4,470**

● **Accessories**：Instruction manual/Guarantee/
Camera pedestral/Balance plate/Tripod base
fixing screw

Features ● 15 inch teleprompter ● 500cd/m luminance, high contrast display ● Highly compatible with many types of cameras ● High quality multi coated mirror glass (Vision-Proof Glass) ● Support multi input ● 12V DC operation (power consumption: approx 26W) ● Playback monitor function

Specifications ● INPUT / HD-SDI IN : BNCx1 / VBS IN : BNCx1 (Composite) / HDMI IN : HDMI(Type A)x1 / pc in : HD D-SUB 15Px1 ● OUTPUT / HDMI OUT : HDMI(Type A) x1 ● FUNCTION / TALLY Indicator : Indicator LEDx2 GREEN and RED : Indicator LEDx1 RED / TALLY IN : BNCx1 ● GENERAL / DC POWER : DC 11V-17V 26W : XLR 4P male x1 / Size (WxHxD) : Main body : 360x110x380 mm / Camera plinth : 140x105x428 mm / Weight : Main body : 7.4 kg / Camera plinth : 2 kg ● ACCESSORIES / Camera Plinth

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15 inch prompter set

HDP-1500F price: **$7,550**

● **Accessories**：Proma PC system/AC power/Instruction manual/
Guarantee/Camera pedestral/Balance plate/Tripod base fixing screw

Features ● 15 inch teleprompter PC sets ● For other features, refer to HDP-1500

Specifications ● INPUT / HD-SDI IN : BNC x1 / VBS IN : BNC x1 (Composite) / HDMI IN : HDMI(Type A) x1 / pc in : HD D-SUB 15P x1 ● OUTPUT / HDMI OUT : HDMI(Type A) x1 ● FUNCTION / TALLY Indicator : Indicator LEDx2 GREEN and RED : Indicator LEDx1 RED / TALLY IN : BNCx1 ● GENERAL / DC POWER : DC 11V-17V 26W : XLR 4P male x1 / Size (WxHxD) : Main body : 360x110x380 mm / Camera plinth : 140x105x428 mm / Weight : Main body : 7.6 kg / Camera plinth : 2 kg ● ACCESSORIES / Camera Plinth / Proma PC / DC Power Supply / Remote Controller / Cables

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20 inch prompter

HDP-2000 price: **$5,470**

● **Accessories**：Instruction manual/Guarantee/Camera pedestral/
Balance plate/Tripod base fixing screw

Features ● 20 inch teleprompter ● For other features, refer to HDP-1500

Specifications ● INPUT / HD-SDI IN : BNC x1 / VBS IN : BNC x1 (Composite) / HDMI IN : HDMI(Type A)x1 / pc in : HD D-SUB 15Px1 ● OUTPUT / HDMI OUT : HDMI(Type A)x1 ● FUNCTION / TALLY Indicator : Indicator LEDx2 GREEN and RED : Indicator LEDx1 RED / TALLY IN : BNCx1 ● GENERAL / DC POWER : DC 11V-17V 43W : XLR 4P malex1 / Size (WxHxD) : Main body : 460x110x460 mm / Camera plinth : 140x105x488 mm / Weight : Main body : 8.3 kg / Camera plinth : 2 kg ● ACCESSORIES / Camera Plinth

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20 inch prompter set

HDP-2000F price: **$8,550**

● **Accessories**：Proma PC system/AC power/Instruction manual/
Guarantee/Camera pedestral/Balance plate/Tripod base fixing screw

Features ● 20 inch teleprompter PC sets ● For other features, refer to HDP-1500

Specifications ● INPUT / HD-SDI IN : BNC x1 / VBS IN : BNC x1 (Composite) / HDMI IN : HDMI(Type A)x1 / pc in : HD D-SUB 15P x1 ● OUTPUT / HDMI OUT : HDMI(Type A) x1 ● FUNCTION / TALLY Indicator : Indicator LEDx2 GREEN and RED : Indicator LEDx1 RED / TALLY IN : BNCx1 ● GENERAL / DC POWER : DC 11V-17V 43W : XLR 4P malex1 / Size (WxHxD) : Main body : 460x110x460 mm / Camera plinth : 140x105x488 mm / Weight : Main body : 8.3 kg / Camera plinth : 2 kg ● ACCESSORIES / Camera Plinth / Proma PC / DC Power Supply / Remote Controller / Cables

High-contrast, high-brightness, low-power display

By adopting a high contrast display with a brightness of about 500cd / m, the document is clearly projected and the text is easy to see.

Compatible with many types of cameras without using a balancer

A wide range of cameras can be installed, from small cameras to ENG cameras and stand-alone cameras. The attached balance plate can change the center of gravity widely, minimizing the load on the tripod. In addition, there is an angle adjustment function to support a wide range of camera positions.

DC12V drive (power consumption: approx 26w)

It is a DC power supply drive that can be used in any field, indoors or outdoors. Power can be supplied from a Sony camcorder with a DC light power connector. In addition, using the PBU-L301 (sold separately) and a lithium-ion battery (BP-GL95) manufactured by Sony enables operation for about 2 hours.

HDP-2000/1500 Input/output section

Multi input

The HDP-2000F / HDP-2000 / HDP-1500F package supports video (composite) input and PC (D-SUB15PIN) input. In addition, a tally input is provided to strongly back up studio recordings. HDP-2000F / HDP-2000 supports SDI input and HDMI input.

Equipped Vision-Proof Glass

By adopting a newly developed high-quality multi-coated mirror (Vision-Proof Glass) that is most suitable for recording, the flatness is maintained and excellent visibility is achieved. This class has the least chromatic aberration and is compatible with HD cameras.
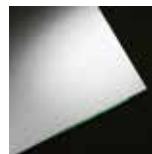
Play back monitor

Playback and PC screen switching are possible. Since video (composite) input is possible, you can check how the caster itself appears with the included changeover switch. Using this function, it is possible to build a system that mixes with terror using cameras.

Compact, lightweight, robust

By adopting a solid aluminum and steel monocoque chassis, it has been reduced in size and weight. The camera tripod base can be set up without tools.

HDP-2000/HDP-1500

Body (PC・Video input)	Camera pedestral
Balance plate	Tripod base fixing screw

HDP-2000F/HDP-1500F

Proma PC	Controller	PB remote controller A extension cable	Deferred AC power supply (AC PROPACK 100S)	PB remote controller A (Playback monitor switch)
PC connection cable	Controller extension cable	Power cable (Light : XLR-4 pin female − Camtap) (Left : XLR-4 pin male − female)	

"Proma PC system" realizes unprecedented easy operation

Settings window screen

Direct document reading

By placing nine direct readout buttons on the controller, the document can be output without time lag. You can respond immediately to sudden news changes. In addition, each manuscript set can be created for each caster and each program, realizing ease of use. In addition, the character size and line spacing can be selected in 3 steps.

Document title display

By providing a constant title display function at the bottom left of the screen, you can instantly check what title this document is. (Always displayed)

Controller HPC-CNT1

You can use the jog shuttle to scroll, change the display mode with buttons, and control the scanning speed.

Model comparison table

Model	HDP-1500F	HDP-1500	HDP-2000F	HDP-2000	HDP-2000STF	HDP-2000ST	HDP-BX2000STF	HDP-BX2000ST
Suggested retail price	¥755,000	¥447,000	¥855,000	¥547,000	¥855,000	¥547,000	¥1,055,000	¥747,000
HD/SD-SDI input	●	●	●	●	●	●	●	●
HDMI input	●	●	●	●	●	●	●	●
Video (composite) input	●	●	●	●	●	●	●	●
PC (D-SUB1 5PIN) input	●	●	●	●	●	●	●	●
Playback monitor function	●	●	●	●	●	●	●	●
TALLY	●	●	●	●	●	●	●	●
Angle adjustment	●	●	●	●	–	–	–	–
Proma PC	●	–	●	–	●	–	●	–
DC12V drive	●	●	●	●	●	●	●	●
Balance plate	●	●	●	●	●	●	–	–
Box lense attaching bracket	–	–	–	–	–	–	●	●
AC power supply	●	ACPROPACK 1005	●	ACPROPACK 1005	●	ACPROPACK 1005	●	ACPROPACK 1005
Aluminium carrying case	SC-1500	SC-1500	SC-2000	SC-2000	–	–	–	–
Dimensions — Body	360W×110H×380Dmm	360W×110H×380Dmm	460W×110H×460Dmm	460W×110H×460Dmm	460W×440H×460Dmm	460W×110H×460Dmm	460W×440H×460Dmm	460W×110H×460Dmm
Dimensions — Camera pedestal	140W×124H×493Dmm	140W×124H×493Dmm	140W×124H×493Dmm	140W×124H×493Dmm	140W×124H×493Dmm	140W×124H×493Dmm	140W×124H×493Dmm	140W×124H×493Dmm
Body weight	Approx 7.4kg	Approx 7.4kg	Approx 9.9kg	Approx 9.9kg	Approx 10.2kg	Apprix 10.1kg	Approx10.2kg except bracket	Approx 10.1kg except bracket

Easy set up

HDP-2000　HDP-2000F　HDP-1500　HDP-1500F

◎ We are particular about one-man setting and can set up speedily on site.

◎ The tripod base can also be assembled without tools using a dedicated screw that emphasizes operability.

◎ 2-unit system and simple joint.

Easy operation available immediately

HDP-2000F　HDP-1500F

◎ After purchase, you can use it immediately after connecting the bundled PC. It's easy to use.

◎ Prompter manuscripts are completed simply by copying and pasting various manuscripts such as text, web information and text documents sent by e-mail.

◎ You can easily correct characters and type directly.

◎ You can change the font size and line spacing even if you don't have an instruction manual.
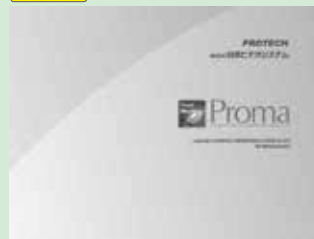
STEP 1

Mount the camera base on the tripod!

STEP 2

Lock screws with easy joints!

STEP 3

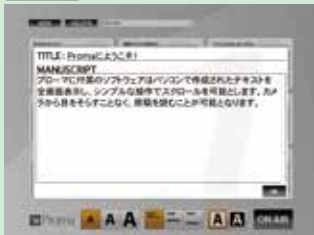Equipped with cable and camera!

STEP 4

The software starts when the PC is turned on!

STEP 5

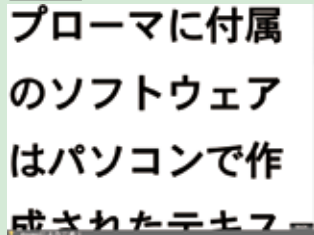Select and click the manuscript box you want to input from 1 to 9!

STEP 6

Enter directly or copy and paste and click the OK button!

STEP 7

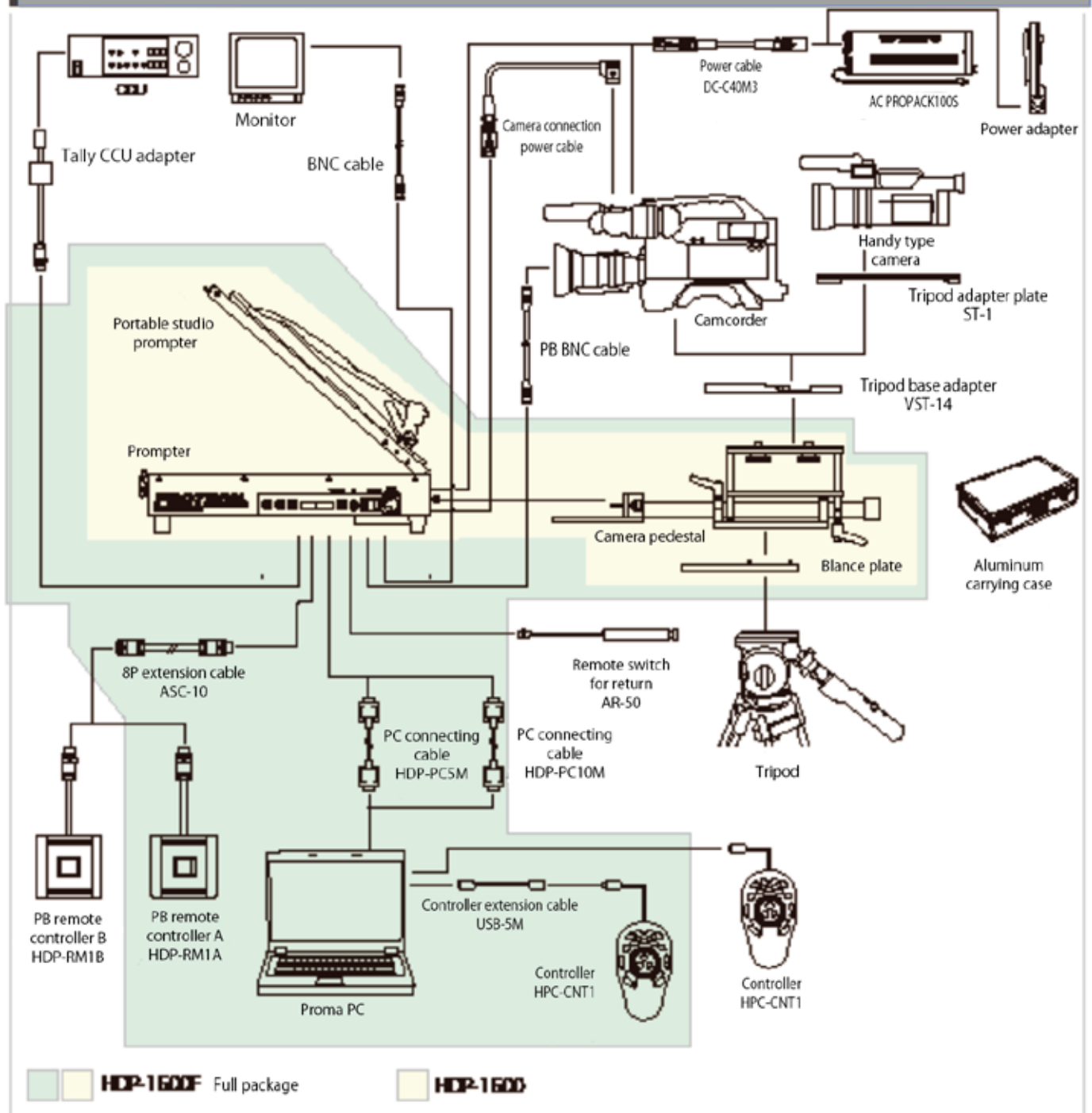プローマに付属
のソフトウェア
はパソコンで作
成されたテキス

Select the manuscript you want to display from 1 to 9 from the controller!

STEP 8

Smooth control with the jog shuttle!

System configuration example (HDP-1500)

Tally CCU adapter

Monitor

BNC cable

Power cable
DC-C40M3

AC PROPACK100S

Camera connection
power cable

Power adapter

Handy type
camera

Tripod adapter plate
ST-1

Portable studio
prompter

Camcorder

Prompter

PB BNC cable

Tripod base adapter
VST-14

Camera pedestal

Blance plate

Aluminum
carrying case

8P extension cable
ASC-10

Remote switch
for return
AR-50

PC connecting
cable
HDP-PC5M

PC connecting
cable
HDP-PC10M

Tripod

PB remote
controller B
HDP-RM1B

PB remote
controller A
HDP-RM1A

Controller extension cable
USB-5M

Controller
HPC-CNT1

Controller
HPC-CNT1

Proma PC

HDP-1500F Full package   **HDP-1500**

Option

PC connection cable	PC connection cable	Controller extension cable	Camera connection power cable	Controller
HDP-PC5M	**HDP-PC10M**	**USB-5M**	**HDP-DC1**	**HPC-CNT1**
price: **$150**	price: **$180**	price: **$50**	price: **$70**	price: **$500**
Hardware for rack mounting HDF-700 / V / HDM-700WV to EIA4U rack.	PC and HDP-1500 connection cable. (10m)	Dedicated controller extension cable. (5m)	Cable to supply power from the DC light terminal of the camcorder. (1m)	Dedicated controller for operating PROMA. (1.8m)

PB remote controller A (Push-on)	PB remote controller B (Push-lock)	Aluminum carrying case for HDF-2000	Aluminum carrying case for HDF-1500	
HDP-RM1A	**HDP-RM1B**	**SC-2000**	**SC-1500**	
price: **$200**	price: **$200**	price: **$800**	price: **$800**	
Switch for HDP-1500 playback and original video. (1m)	Switch for HDP-1500 playback and original video. (1m)	Carrying case for HDP-2000. Stores the main unit and base unit.	Carrying case for HDP-1500. Stores the main unit and base unit.	

12G～SD-SDI compatible distributor

Full support from 12G-SDI to SD-SDI

HD-SDI as well as almost all SDI signals need not be set, and the same signal can be immediately distributed and output in the same format.

Built-in reclocker

Reliable long-life design that prevents the body from getting too hot

Supported formats

SD-SDI SMPTE 259-C	PAL	4:2:2 YCbCr 14 bit or 8bit	SD
	NTSC	4:2:2 YCbCr 14 bit or 8bit	59.94
HD-SDI SMPTE 292	SMPTE 274	4:2:2 YCbCr 14 bit	1080p : 23.98, 24, 25, 29.97, 30 1080i : 50, 59.94, 60 1080PsF : 23.98, 24, 25, 29.97, 30
	SMPTE 296	4:2:2 YCbCr 14 bit	720p : 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
	SMPTE 260	4:2:2 YCbCr 14 bit	1035i : 59.94, 60
	SMPTE 2048-2	4:2:2 YCbCr 14 bit	1080p : 23.98, 24, 25, 29.97, 30
3G-SDI level A	SMPTE 425-A	4:2:2 YCbCr 14 bit	1080p : 50, 59.94, 60
	SMPTE 274	4:4:4 YCbCr, RGB 10 bit	1080p : 23.98, 24, 25, 29.97, 30 1080i : 50, 59.94, 60 1080PsF : 23.98, 24, 25, 29.97, 30
		4:4:4:4 YCbCrA or RGBA 10 bit	1080p : 23.98, 24, 25, 29.97, 30 1080i : 50, 59.94, 60 1080PsF : 23.98, 24, 25, 29.97, 30
		4:2:2 YCbCr 12 bit	1080p : 23.98, 24, 25, 29.97, 30 1080i : 50, 59.94, 60 1080PsF : 23.98, 24, 25, 29.97, 30
	SMPTE 296	4:4:4/4:4:4:4 YCbCr or RGB 10 bit	720p : 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
	SMPTE 428-9	4:4:4 XYZ 12 bit	1080p : 24 1080PsF : 24
	SMPTE 428-19	4:4:4 XYZ 12 bit	1080p : 25, 30 1080PsF : 25, 30
	SMPTE 2048-2	4:2:2 YCbCr 14 bit	1080p : 47.95, 48, 50, 59.94, 60
		4:4:4 YCbCr or RGB 10 bit	1080p : 23.98, 24, 25, 29.97, 30 1080PsF : 23.98, 24, 25, 29.97, 30
		4:4:4 YCbCrA, RGBA 10 bit	1080p : 23.98, 24, 25, 29.97, 30 1080PsF : 23.98, 24, 25, 29.97, 30
		4:4:4 YCbCr or RGB 12 bit	1080p : 23.98, 24, 25, 29.97, 30 1080PsF : 23.98, 24, 25, 29.97, 30
		4:2:2 YCbCr 12 bit / 4:2:2:4 YCbCrA 12 bit	1080p : 23.98, 24, 25, 29.97, 30 1080PsF : 23.98, 24, 25, 29.97, 30
3G-SDI level B-DL	SMPTE 372	HD-SDI SMPTE 372	1080p : 23.98, 24, 25, 29.97, 30 1080PsF : 23.98, 24, 25, 29.97, 30
	SMPTE 425 B-DL		1080p : 23.98, 24, 25, 29.97, 30 1080PsF : 23.98, 24, 25, 29.97, 30
	SMPTE 274	4:2:2 YCbCr 14 bit	1080p : 50, 59.94, 60
		4:4:4/4:4:4:4 YCbCr or RGB 10 bit	1080p : 23.98, 24, 25, 29.97, 30 1080i : 50, 59.94, 60
		4:4:4 YCbCr or RGB 12 bit	1080PsF : 23.98, 24, 25, 29.97, 30
		4:2:2 YCbCr 12 bit	1080p : 23.98, 24, 25, 29.97, 30 1080i : 50, 59.94, 60 1080PsF : 23.98, 24, 25, 29.97, 30
	SMPTE 428-9	4:4:4 XYZ 12 bit	2048 X 1080p : 24
	SMPTE 428-19	4:4:4 XYZ 12 bit	1080p : 25, 30 1080PsF : 25, 30
	SMPTE 2048-2	4:2:2 YCbCr 14 bit	1080p : 47.95, 48, 50, 59.94, 60
		4:4:4 YCbCr, RGB 12 bit	1080p : 23.98, 24, 25, 29.97, 30 1080PsF : 23.98, 24, 25, 29.97, 30
6G-SDI 5.94Gb/s 12G-SDI	SMPTE ST 2081-1	Y'CbCr/RGB 4:4:4/4:2:2 12 bit	Frame frequency 59.94Hz, 60Hz
	SMPTE ST 2082-1	Y'CbCr/RGB 4:4:4/4:2:2 12 bit	Frame frequency 59.94Hz, 60Hz

4K UHD · QFHD · 4K Ultra HD

Ultra HD
2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p60

4K format
2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30

1 input 2 destribution

1 input 2 distribution 4K/HD-SDI/SD-SDI distributor

VHD-210 price: $548

● **Accessories**：AC adapter/Instruction manual/Guarantee

Specifications ● INPUT / BNC×1 ● OUTPUT / BNC×2 ● Size : about 74 W × 73 H ×25 D m m ● Weight : about 180g　● DC POWER : DC12V ● POWER CONSUMPTION : about 4W

1 input 4 destribution

1 input 4 distribution 4K/HD-SDI/SD-SDI distributor

VHD-410 price: $648

● **Accessories**：AC adapter/Instruction manual/Guarantee

Specifications ● INPUT / BNC×1 ● OUTPUT / BNC×4 ● Size : about 74 W × 73 H ×25 D m m ● Weight : about 180g　● DC POWER : DC12V ● POWER CONSUMPTION : about 4W

It won't break if you make a mistake for plus or minus
Cannon 4P / Round small connector has no polarity

PROTECH technology, magical power supply circuit, non-polar input.

Non-polar technology has been developed by PROTECH Professional Technology so that the power input can be wired correctly with the plus and minus in the wrong direction. Canon 4P-4 No. + 1-is normal, but it works without any problems even if the wiring is reversed. Of course, the round connector has no polarity. Any AC adapter can be used as long as it has voltage and connector shape.

All 12G series signal correction reclocker circuit installed
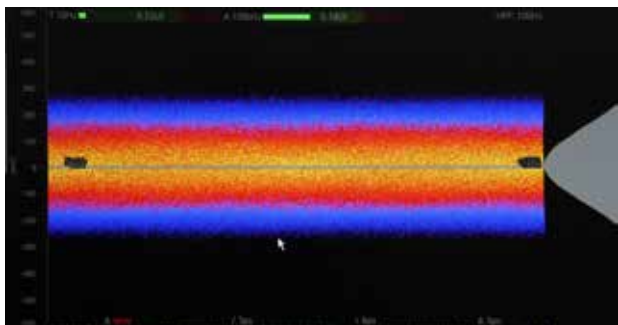
Eye pattern with signal decay
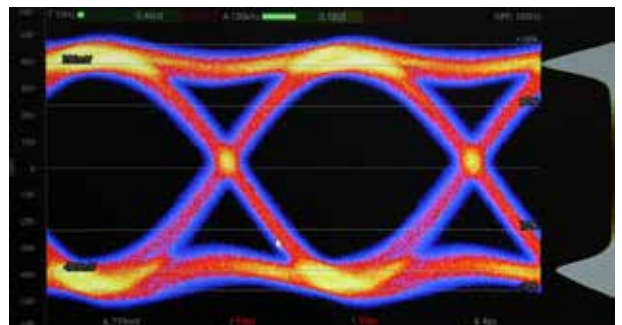
Eye pattern when using PROTECH VHD series distributor

Distribution of HD-SDI REC output from the switcher, etc., and powerful backup of wiring routing during recording, such as connection to an HD-SDI compatible recording VTR / monitor. It is also effective when distributing HD-SDI signals and embedded audio in an editing room.

12G ～ SD-SDI compatible distributor

The latest 4K-12G-SDI/4K-6G-SDI support. Equipped with high performance reclocker.

SD-SDI/HD-SDI/3G-SDI/6G-SDI/12G-SDI full support. 1 input 4 outputs × 2 lines

VHD-2400 left panel

VHD-2400 right panel

4K compatible 1 input 4 distrinution × 2 systems with reclocker

VHD-2400 price: **$1,380**

● **Accessories** : Instruction manual/Guarantee

4K compatible 1 input 8 distrinution with reclocker

VHD-1800 price: **$1,380**

● **Accessories** : Instruction manual/Guarantee

Built-in reclock function

It is important to maintain a clean eye pattern waveform with little jitter for error-free SDI signal transmission. The VHD-2400 / 1800 can reduce jitter that cannot be eliminated simply by correcting the waveform with an equalizer by installing a reclocking function.

High quality transmission with simple connection

Reclocking the degraded signal again, such as when using a conventional BNC cable with significant cable transmission loss. Then, it is rewritten to a clean signal and output at the same level as the original signal.
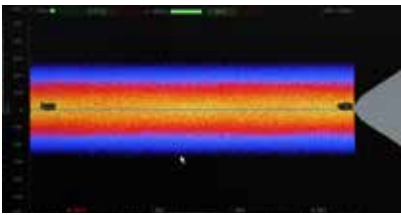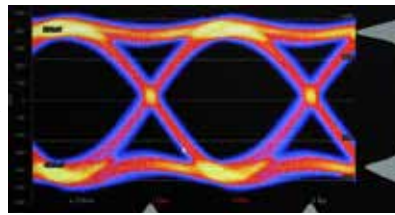

VHD-1800 left panel

VHD-1800 right panel

Realizes long life with less heat generation

Eye pattern with signal decay

Eye pattern when using Protech VHD series distributor

Equipped with a signal correction function (equalizer) that distributes HD-SDI signals. Correct the decayed signal into a clean waveform. Powerful when routing the relay cable when recording 2 or 3 turtles. It also supports embedded audio and provides powerful support for recording / editing sites.

Distribution of HD-SDI REC output from the switcher, etc., and powerful backup of wiring routing during recording, such as connection to an HD-SDI compatible recording VTR / monitor. It is also effective when distributing HD-SDI signals and embedded audio in an editing room.

1 input 8 distribution 1U type

4K compatible 1 input 8 distribution
VHD-1810 price: **$1,880**

EIA 1U
Connector panel

● **Accessories**：AC cable/Rack mount bracket/Instruction manual/Guarantee

Specifications ● INPUT / BNC×1 ● OUTPUT / BNC×8 ● Size：about 430W×44H ×220D(mm)　● Weight：about 3.2kg　● DC POWER：AC100V ● POWER COMSUMPTION：about 4W

4K compatible 1 input 8 distribution ×2 systems
VHD-1820 price: **$2,980**

● **Accessories**：AC cable/Rack mount bracket/Instruction manual/Guarantee

Specifications● INPUT / BNC×1 ●OUTPUT / BNC×8 (2 systems) ● Size：about 430W×44H ×220D(mm)　● Weight：about 3.2kg　● DC POWER：AC100V ● POWER COMSUMPTION：about 10W

EIA 1U

1 input 4 distribution　1U type

4K compatible 1 input 4 distribution ×4 systems
VHD-5400 price: **$2,280**

● **Accessories**：AC cable/Rack mount bracket/Instruction manual/Guarantee

Specifications●INPUT / BNC×1 ●OUTPUT / BNC×4 (4 systems) ● Size：about 430W×44H ×220D(mm)　● Weight：about 3.2kg　● DC POWER：AC100V ● POWER COMSUMPTION：about 10W

EIA 1U

Connector panel

4K compatible 1 input 4 distribution ×8 systems
VHD-8000 price: **$3,980**

● **Accessories**：AC cable/Rack mount bracket/Instruction manual/Guarantee

Specifications●INPUT / BNC×1 ●OUTPUT / BNC×4 (8 systems) ● Size：about 430W×44H ×220D(mm)　● Weight：about 3.2kg　● DC POWER：DC12V ● POWER COMSUMPTION：about 4W

EIA 1U

Enables long-distance transmission Bidirectional 3G / HD-SDI reclocker

3G/HD-SDI reclocker
VHD-2200 price: **$1,280**

● **Accessories** : Instruction manual/Guarantee

Features ● 3G/HD-SDI distributor with reclock function ● Input connector is placed on both right and left panels.

Specifications ● INPUT/OUTPUT / HD-SDI IN : BNCx2 x2 / HD-SDI OUT : BNCx2 x2 / DC POWER input : V-mount x1 for Li-ion battery interface : XLR 4P malex1 / DC POWER output : V-mount x1 for camera interface ● GENERAL / DC POWER : DC 12V(5V-25V) 3W / Size (WxHxD) : 92x138x44 mm / Weight : 430 g

Realizes long life with less heat generation

HD-SDI signal distributor
VHD-200 price: **$498**

● **Accessories** : AC adapter/Instruction manual/Guarantee

Features ● HD-SDI distributor /1 input 2 output ● Equalizer function ● Support embedded audio

Specifications ● INPUT/OUTPUT / HD-SDI IN : BNCx1 / HD-SDI OUT : BNCx2 ● GENERAL / DC POWER : DC 12V / Size (WxHxD) : 85x36x57 mm / Weight : 185 g ● ACCESSORIES / AC Adaptor

HD-SDI signal distributor
VHD-400 price: **$598**

● **Accessories** : AC adapter/Instruction manual/Guarantee

Features ● HD-SDI distributor /1 input 4 output ● For other details, refer to VHD-200

Specifications ● INPUT/OUTPUT / HD-SDI IN : BNCx1 / HD-SDI OUT : BNCx4 ● GENERAL / DC POWER : DC 12V / Size (WxHxD) : 85x36x130 mm / Weight : 400 g ● ACCESSORIES / AC Adaptor

HD-SDI signal distributor
VHD-5000 price: **$1,880**

● **Accessories** : AC cable/Rack mount bracket/ Instruction manual/Guarantee

EIA 1U

Features ● HD-SDI distributor /1 input 4 output x 4 ● Rack mount ● For other details, refer to VHD-200

Specifications ● INPUT/OUTPUT / HD-SDI IN : BNCx1 x4 / HD-SDI OUT : BNCx4 x4 ● GENERAL / AC POWER/DC POWER : AC 100V/DC 12V / Size (WxHxD): 430x44x220 mm / Weight : 3.1 kg ● ACCESSORIES / AC Adaptor / Rack Mount Bracketx1set

Connector panel

HD-SDI signal distributor
VHD-2000 price: **$3,980**

● **Accessories** : AC cable/Rack mount bracket/ Instruction manual/Guarantee

EIA 1U

Features ● HD-SDI distributor /1 input 2 output x 10 ● Rack mount ● For other details, refter to VHD-200

Specifications ● INPUT/OUTPUT / HD-SDI IN : BNCx1 x10 / HD-SDI OUT : BNCx2 x10 ● GENERAL / AC POWER/DC POWER : AC 100V/DC 12V / Size (WxHxD) : 430x44x220 mm / Weight : 2.9 kg ● ACCESSORY / AC Cable / Rack Mount Bracket x1set

Compact, lightweight, robust
Analog signal distributor with built-in AC power supply

Composite and genlock (binary and ternary) signals can be divided into 4 inputs. AC drive.

Analog video signal Distributor
VM-50 price: **$298**

● **Accessories** : AC cable/Instruction manual/Guarantee

Soecification ● INPUT : BNC×1 ● OUTPUT : BNC ×4 ● Size : about 85W×36H×130Dmm ● Weight : about 400g ● DC POWER : AC100V ● POWER CONSUMPTION : about 1W

4K CONVERTER

The latest 4K-12G-SDI/4K-6G-SDI support
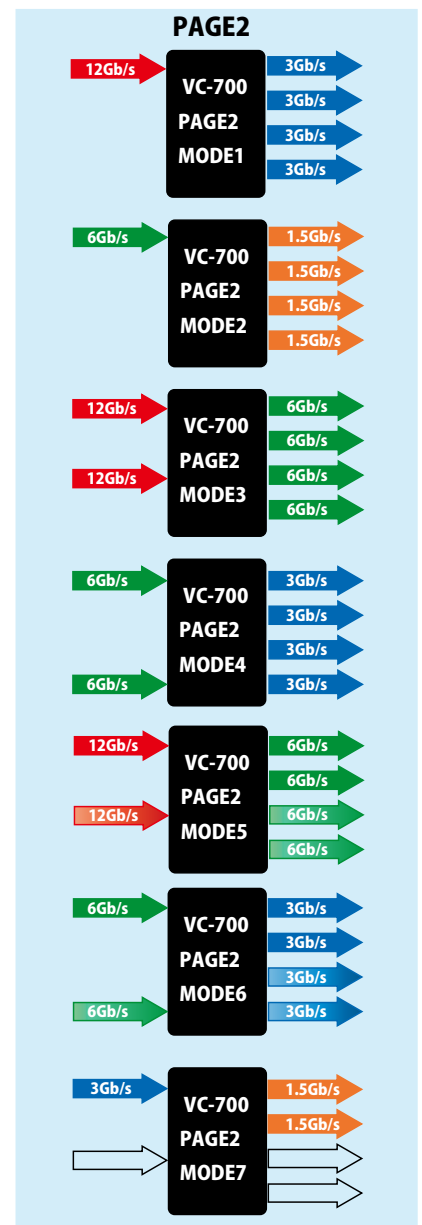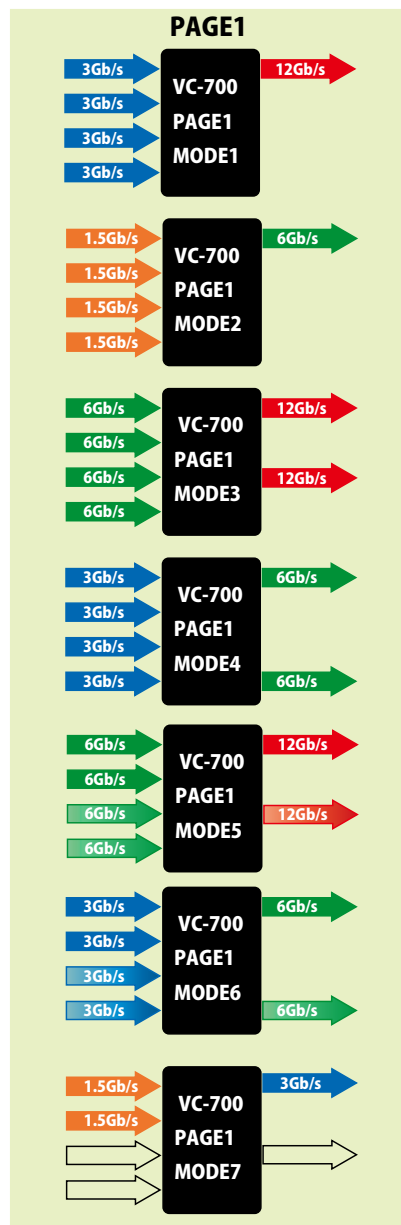## SD-SDI/HD-SDI/3G-SDI/6G-SDI/12G-SDI support

4K converter
VC-700 price: **$2,480**

● **Accessories**：Instruction manual/Guarantee

Portable 4K converter

Introducing the long-awaited 4K converter class smallest. Simple operation and simple design. Easy setting just by matching the page and mode. Because it is DC driven, it can be used with a battery.

PAGE1
PAGE1
1-QL 3G ▶ SL 12G
2-QL 1.5G ▶ SL 6G
3-QL 6G ▶ DL 12G
4-QL 3G ▶ DL-6G
5-DL 6G ▶ SL 12G
6-DL 3G ▶ SL 6G
7-DL 1.5G ▶ SL 3G
PAGE2
1-SL 12G ▶ QL 3G
2-SL 6G ▶ QL 1.5G
3-DL 12G ▶ QL 6G
4-DL 6G ▶ QL3G
5-SL 12G ▶ DL 6G
6-SL 6G ▶ DL 1.5G
7-SL 3G ▶ DL 1.5G

PAGE1

Inputs	VC-700	Outputs
3Gb/s, 3Gb/s, 3Gb/s, 3Gb/s	VC-700 PAGE1 MODE1	12Gb/s
1.5Gb/s, 1.5Gb/s, 1.5Gb/s, 1.5Gb/s	VC-700 PAGE1 MODE2	6Gb/s
6Gb/s, 6Gb/s, 6Gb/s, 6Gb/s	VC-700 PAGE1 MODE3	12Gb/s, 12Gb/s
3Gb/s, 3Gb/s, 3Gb/s, 3Gb/s	VC-700 PAGE1 MODE4	6Gb/s, 6Gb/s
6Gb/s, 6Gb/s, 6Gb/s, 6Gb/s	VC-700 PAGE1 MODE5	12Gb/s, 12Gb/s
3Gb/s, 3Gb/s, 3Gb/s, 3Gb/s	VC-700 PAGE1 MODE6	6Gb/s, 6Gb/s
1.5Gb/s, 1.5Gb/s	VC-700 PAGE1 MODE7	3Gb/s

PAGE2

Inputs	VC-700	Outputs
12Gb/s	VC-700 PAGE2 MODE1	3Gb/s, 3Gb/s, 3Gb/s, 3Gb/s
6Gb/s	VC-700 PAGE2 MODE2	1.5Gb/s, 1.5Gb/s, 1.5Gb/s, 1.5Gb/s
12Gb/s, 12Gb/s	VC-700 PAGE2 MODE3	6Gb/s, 6Gb/s, 6Gb/s, 6Gb/s
6Gb/s, 6Gb/s	VC-700 PAGE2 MODE4	3Gb/s, 3Gb/s, 3Gb/s, 3Gb/s
12Gb/s, 12Gb/s	VC-700 PAGE2 MODE5	6Gb/s, 6Gb/s, 6Gb/s, 6Gb/s
6Gb/s, 6Gb/s	VC-700 PAGE2 MODE6	3Gb/s, 3Gb/s, 3Gb/s, 3Gb/s
3Gb/s	VC-700 PAGE2 MODE7	1.5Gb/s, 1.5Gb/s

4K SWITCHER

Lightweight and compact 4K / HD switcher with easy operation

● Small, light and compact 4K30P
● The world's first input channel can be turned ON / OFF with a visible toggle switch
● Easy operation with the minimum required operation panel
● Durable fader equipment

HD super live switcher
VSE-RIC1 price: **$12,800**　`BTO`

● **Accessories**：Instruction manual/Guarantee

High quality switching

Switchers are complex and difficult to operate. Developed with feedback from users. Direct cut operation allows switching up to 8 units, overlap by fader, and simple effect functions. Supports up to 4K30P. Realized high-quality switching.

Equipped multi view

8 HD-SDI inputs and 2 DSK inputs are possible. Multi-view monitor out is possible, so many monitors are not required. The cable wiring is therefore simple and the cable wiring around the switcher has been greatly reduced. Minimizing the work, equipment and cables that used to take time on-site, making it possible to set up in a short time.

Good for OB VAN, stadio recording, etc.

Ideal for event photography, studios, and small vans. In event shooting, if you edit later, time will be taken many times as long as the shooting time. Switching on the spot allows you to create materials with easy video switching. By rotating around with the camera, it is possible to edit in a short time because only the video in case of switching mistakes needs to be replaced. The relay is easy to use.

Easy switching recording, playing games, presentations by yourself

HD super live switcher
VSE-200HD price: $1,780

● **Accessories**：Instruction manual/Guarantee

HD super live switcher set
VSE-200HDF price: $1,980

● **Accessories**：Instruction manual/Guarantee

Features ● HD super live switcher ● HD-SDI input x 2 ● Input channel through out ● Auto take switch ● Direct cut switching ● Overlap transition effect ● Built-in frame synchroniser ● PGM/REC OUT x 4 ● 12V DC operation support ● Tally out ● 1 cameraman can operate 2 cameras ● Adjustable transit time ● Input channel has equalizer function

● INPUT / HD-SDI IN : BNC x2 ● OUTPUT / HD-SDI PGM OUT/REC OUT : BNC x4 / HD-SDI MONITOR OUT : BNC x2 ● FUNCTION / TALLY OUT : BNC x2 / AUTO TAKE Switch : 8P x1 / REMOTE : 12P x1 ● GENERAL / DC POWER : DC 12V 5W : V-mount x1 for V-mount Li-ion battery pack : XLR 4P male x1 / Size (WxHxD) : 70x169x101 mm / Weight : 830 g

VSE-200HD operating panel

PROTECH. Camera system

VSE-200HD connector panel

Simple operation and high performance

Taking advantage of the analog switcher to the maximum, the adoption of the genlock system eliminates the delay in video. Two types of simple switching that are considered necessary on site. (Overlap and direct cut)

Option

Tally unit/BNC cable/ Auto take switch set
SE-5 price: $198

Tally unit TU-10×1 L type BNC cable ×1 Auto take switch SET×1

Features ● Auto take switch sets

Remote controller
VSE-RM200HD
price: $450

External remote lever. As a stationary machine, it can be mounted on a tripod leg. (Some tripods cannot be attached.)

Features ● Remote controller for VSE-200HD ● Attachable to tripod leg (except for some models)

VSE-RM200HD using image

Simple is the best.
Lightweight, compact and easy operation HD-SDI switcher

HD super live switcher
VSE-500HD/1 price: $3,980

● **Accessories** : AC adapter/Instruction manual/Guarantee

Connector panel

Operating panel

Features ● HD super live switcher ● HD-SDI input x 6 ● All inputs have a loop-thru output ● Auto take switch ● Direct cut switching ● Overlap transition effect ● 13 wipe patterns ● Title insertion ● Built-in frame synchronizer ON/OFF ● Built-in sync generator ● Large transition/fader lever ● PGM OUT x 4 ● Preview output ● Tally out ● 1 cameraman can operate 2 cameras ● Adjustable transit time ● Rack mount (need optional rack mount attachment)

Specifications ● INPUT/OUTPUT / HD-SDI IN : BNC x1 x6CH / HD-SDI OUT : BNC x1 x6CH Each HD-SDI IN signal through output / PROGRAM OUT : BNC x4 (4 distribution) / PREVIEW OUT : BNC x1 ● FUNCTION / Reference signal IN : BNC x1 / Reference signal OUT : BNC x4 (4 distribution) / REMOTE IN/OUT : 8P x1/8P x1 / TALLY OUT : HD D-SUB 15P x1 / Frame Synchronizer : Built-in / Transition : Direct Cut/Mix(Overlap)/Wipe : Transition Time 0 - 200 frames / Wipe Pattern : 11 Patterns ● GENERAL / DC POWER : DC 12V(11V-18V) 12W XLR 4P male x1 / Size (WxHxD) 寸法 : 210x60x154 mm / Weight : 1.4 kg ● ACCESSORIES / AC Cable

Robust, lightweight, thin

Reliability that has been pursued with a view to the harsh usage conditions, assuming use under various conditions by professionals. A metal chassis is used for the body. Realized a robust, thin and light weight of approximately 1.4kg.

Simple operation, high quality switching

Realizing high-class video switching by taking full advantage of HD video. Overlap, direct cut and wipe are possible. Even if direct cut is switched, the image is not disturbed and can be switched neatly. AC adapter drive / DC12V drive possible. Ideal for outdoor production such as live performances and events.

6 inputs with small body,Equipped through out for input all channel

If you do not use 5 HD-SDI inputs, 1 title input, and title, you can select HD-SDI input from the menu. A total of 6 cameras or VTRs can be connected. Since all channels can be slewed out, a distributor for monitoring is not required. The cable wiring is therefore simple and the cable wiring around the switcher has been greatly reduced. Minimizing the work, equipment and cables that used to take time on-site, making it possible to set up in a short time.

Frame synchronizer can be turned ON / OFF

Direct cutting is possible by installing a frame synchronizer. Video switching without disturbance is possible. External synchronization is also possible, and a system construction operation with a sync generator is possible to avoid the lip sync delay caused by the frame synchronizer. The frame synchronizer can be turned ON / OFF.

RED/GREEN Tally

Equipped with RED tally out and GREEN tally out to inform the next selected camera. (When using the GREEN tally, the optional viewfinder HDF series and the tally unit TU-600 are required.) Combined with the optical conversion system series, functions like a large studio are realized in a small system. With this function, the cameraman to be selected next is notified in advance, so the camera quality is greatly reduced.

Large lever adoption

The switching lever for smooth video switching is the heart of a video switcher. When creating an exquisite overlap scene manually, the image creator's feeling must be accurately conveyed. VSE-500HD / 1 was also particular about lever operation.

Auto take mode that allows 2 cameras per person

You can auto-take using the optional pen-type auto take switch AR-53, PROTECH Zoom remote control AS-1 / A, or the lens manufacturer's zoom remote control. One photographer can operate two cameras. A photographer can switch the best shot to the main line.
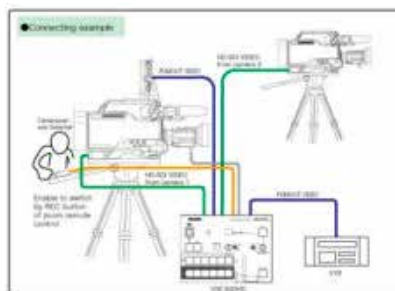
Monitor preview function installed

The VSE-500HD / 1 does not require any special equipment, enabling video monitoring during multi-camera shooting with only two monitors.
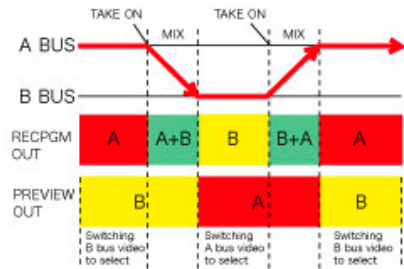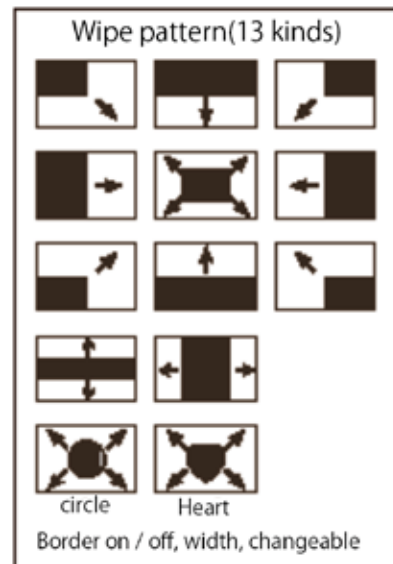
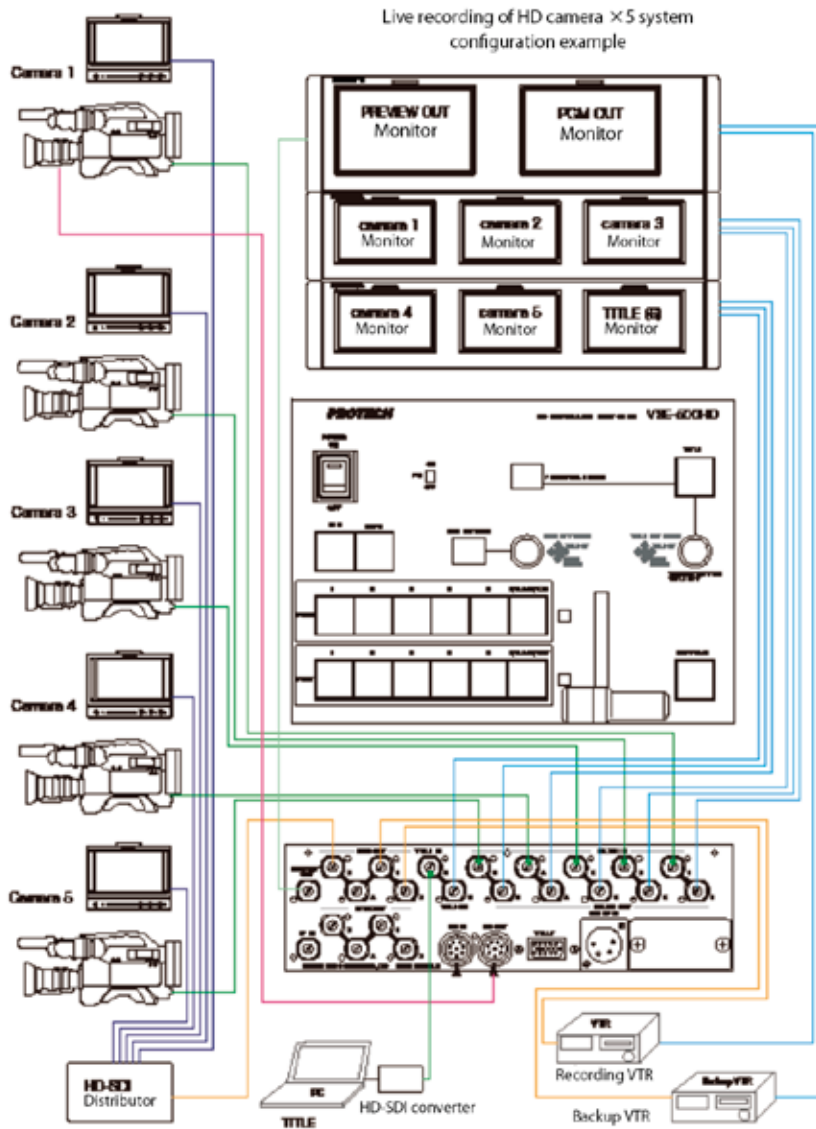### Cable compensation circuit

Each channel has a signal correction function (equalizer). Correct the decayed signal into a clean waveform.

13 types of wipe patterns

13 types of wipe patterns are available. Round wipe, square wipe, heart wipe, etc. are possible. Border ON / OFF and width can be specified. The back can be video or matte color.

Wipe pattern(13 kinds)

circle   Heart

Border on / off, width, changeable

System configuration example

Live recording of HD camera ×5 system configuration example

Option&Related products

System rack
SCR-500
price: **$1,170**

Rack body
price : $390
VSE-500HD/1 slide rail
price : $380 Assembly wiring
adjustment cost(cable included)

* Monitor rack mounting brackets are sold separately.
HS-RA550（HDF-500）
HS-RA700(HDF-700/HDF-700V)

Hard case
SC-550
price: **$580**

A hard case that can store one VSE-500HD / 1 and the income FD-300A / viewfinder HDF-700 / hyper limiter FS-206.

Rack mount kit
HS-RA500
price: **$698**

Mounting kit that enables rack mounting of VSE-500HD / 1.

Auto take switch
AR-53
price: **$180**

Auto take can be switched with VSE-500HD / 1.

Tally adapter
TU-600
price: **$580**

Accessories：Instruction manual/Guarantee

Adapter that outputs VSE-500HD / 1 tally signal with BNC connector. The tally can be directly connected to the HDM-2000 (dual monitor), HDM-3000 (dual monitor), and HDM-4000 (dual monitor) with an RJ-45 cable (LAN cable). Compatible with red tally and green tally. Tally output by BNC connector corresponds to HDF-700 / 700V / HDM-70WV. One BNC cable supports red tally and green tally.

Specifications

Video format	HD-SDI
Video signal processing	Sampling Y : Cb : Cr / 4 : 2 : 2 10 bit
Video input	HD SDI IN : 5 systems
	TITLE IN : 1sytem（SDI input）
Video output	HD SDI OUT : 5 systems（HD-SDI IN thru-out）
	TITLE OUT : 1system（TITLE IN thru-out）
	PGM OUT : 4 outputs
	PREVIEW OUT : 1 system
Video switching	Direct cut/Overlap wipe
Wipe pattern	13 pattern
Transition time	0 frame to 240 frame
Title key	Key : 1 system
	Wipe/Mix priority when wipe/mix
	Title priority when using title
Kind of key	Linear key / luminance key / absolute key
TALLY	RED TALLY GREEN TALLYsupport D-sub 15 pin female × 1
2 cameras per person	A / B switchable with zoom remote control（PAT.P）
Sink generator	SYNC OUT : 4 systems
Sync	External synchronization possible RF IN : 1 system
	Built-in frame synchronizer（ON/OFF）
Power	DC12 V ±10 % / 1 A
Oprating temp.	0 ℃〜40 ℃
Oprating humidity	10 %〜90 %（No condensation）
Size	210mm×6 0 mm×1 5 4 mm（W×D×H）（not included protrusions）
Weight	About 1.4kg（not included accessories）
Accessories	Power code *Please use optional power code

Exterior figure
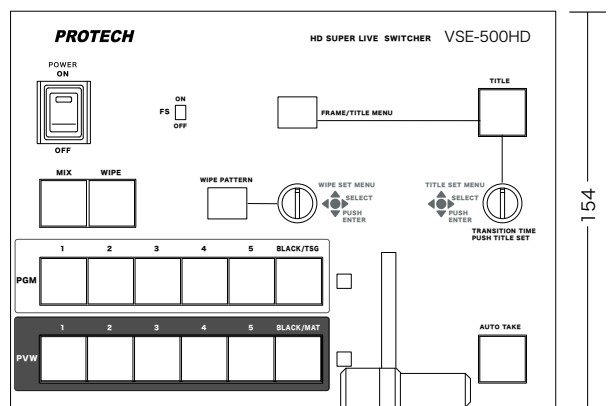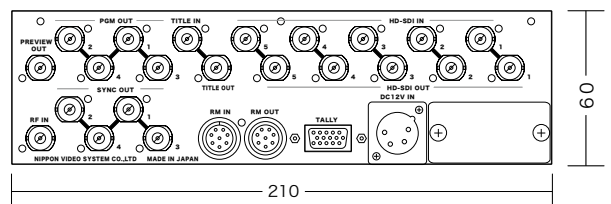
単位mm

Simultaneous call using general-purpose.
BNC cable Continuous operation for over 200 hours
with two AA batteries.
Wired intercom for safe, secure and stable operation.

Wired intercom
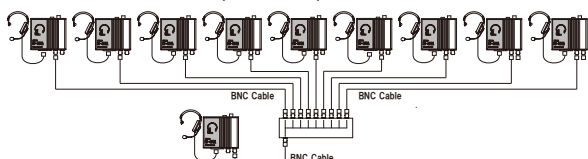## FD-400A price: $398

● **Accessories**：Headset（DL-500：Sealed one ear type)/Battery/
Instruction manual/Guarantee

Cascade (series) connection

Star (radiation) connection

BNC Cable

BNC Cable

BNC Cable

Features ● Wired intercom with monaural headset ● Easy connection with BNC cable ● Up to 2 km with 10 units ● Multi conversation ● 200 hours operation with 2 x AA batteries

Specifications ● TYPE / Wired Intercom : BNC 2-wire Intercom ● INPUT / Line : BNCx2 : Line Impedance 220 Ω / Headset : XLR 4P male x1 : Microphone :Dynamic / Speaker :Closed type, Dynamic 32 Ω / DC POWER : DC 3V : 0.03W max. : (internal)DC 3V AA Battery x2 : (external)Supplied from FD-900S via the BNC cable ● GENERAL / Size (WxHxD) : 86x38x77 mm / Weight : 270 g ● ACCESSORIES / Headset DL-500 x1 / AA Battery x2

Wired intercom
FD-400A/S price: $388

● **Accessories**：Headset（DL-400：Open air single ear type)/Battery/Instruction manual/Guarantee

Features ● Wired intercom with monaural headset ● For other features, refer to FD-400A

Specifications ● ACCESSORY / Headset DL-400x1 ● For other Specifications, refer to FD-400A

Wired intercom
FD-400A/D price: $498

● **Accessories**：Headset（DL-550：Sealed ears type)/Battery/Instruction manual/Guarantee

Features ● Wired intercom with binaural headset ● For other features, refer to FD-400A

Specifications ● ACCESSORY / Headset DL-550x1 ● For other Specifications, refer to FD-400A

Wired intercom
FD-400A/N price: $348

● **Accessories**：Battery/Instruction manual/Guarantee

Features ● Wired intercom without headset ● For other features, refer to FD-400A

Specifications ● For other Specifications, refer to FD-400A

Easy connection by BNC cable

Without needing a main unit, everyone can start a simultaneous call with two or more FD-400A units and a BNC cable. Up to 10 cables can be connected up to 2km cable extension. The connection form can be freely connected by cascade connection, star connection, or mixed connection. Flexible system construction is possible only with BNC cable.

Safe and accurate communication by wired connection

The wired intercom system FD-400A is useful for shooting in various fields including stage shooting. Unlike the wireless system, it can be used safely, securely and stably at any venue.
This is particularly powerful in events where loud voices cannot be produced, and the easy-to-use wired intercom system realizes voice communication more reliably and efficiently.

Talk over 200 hours with 2 AA batteries

PROTECH's ultra-low-power design technology enables continuous operation for over 200 hours with two AA batteries that overturn conventional wisdom. You can use it with no worries about the battery life even if the recording lasts for many days.

Clear sound

Equipped with an equalizer circuit to make it easier to hear human voice. Clear sound quality is secured. By adjusting the headphone volume, it is possible to adjust the volume according to various sites.

High quality headphone

Standard headphones use one-ear closed headphones so that they can be heard well even in loud places. Clear communication has been realized. Attached headset is available in three types according to the usage environment.

Power supply by FD-900S/Tally function

Voice call, power supply and tally can be transmitted from FD-900S by combining with Intercom Station FD-900S.
A total of up to 100 meters of power can be supplied to the FD-400A with a maximum of 5 systems and a maximum of 8 FD-400A (automatic switching with internal batteries).
In addition, it is possible to turn on the high-brightness LED tallylight in response to the TALLY / CALL signal from the FD-900S, which makes it possible to build a multi-camera system.

FD-300A system can be intermixed

If you use the FD-300A regularly, you can add 400A to the existing 300A system by setting the FD-400A to 300A mode.

Option

Both ears sealed type intercom headset

DL-550 price: $378

Sealed ears headset. (Dynamic type)

One ear sealed type intercom headset

DL-500 price: $298

Sealed one ear headset. (Dynamic type)

One ear open type intercom headset

DL-400 price: $148

One ear open type headset. (Dynamic type)

Power can be supplied with BNC cable
Wired intercom station

*5 groups x 8 units Up to 40 units in total can be connected

EIA 1U

Intercom base station
FD-900S price: **$1,880**

● **Accessories**：AC adapter/Instruction manual/ Guarantee

Features ● Intercom base station ● Built-in speaker ● Power supply to FD-400A wired intercom ● Tally connector installed

Specifications ● INPUT/OUTPUT / Line Input/Output : BNCx2 x5Line / PROGRAM AUDIO MIX Input : XLR 3P female x1 -10 dB / Microphone : XLR 3P female x1 Impedance 600 Ω / Headset : XLR 4P malex1 / DC POWER input : DC 12V(11V-18V) 15W : XLR 4P malex1 / TALLY IN : HD D-sub 15Px1 x5Line : BNCx1 x5Line / TALLY OUT : HD D-sub 15Px1 x5Line : φ 3.5 Mini Jackx1 x5Line ● GENERAL / Size (WxHxD) : 430x44x220 mm / Weight : 3.5 kg ● ACCESSORY / AC Adaptor / Rack Mount Bracketx1set

Built-in speaker / headset jack

The front panel of the FD-900S is equipped with a speaker and headset connector. If the flexible talk microphone MC-808 is installed, center command operation without a headset is possible.

FD-900S front panel

FD-900S back panel

Power supply to FD-400A

Power is supplied to each group where the power supply for FD-400A is connected to the BNC connectors of 1 to 5 groups on the back of the main unit. This enables long-term operation without worrying about the FD-400A battery.

Tally connector

TALLY of switcher of various companies including PROTECH switcher can be sent to FD-400A. The TALLY of groups 1-5 can be lit by the signal from TALLY. This function can be used as a tally display in a multi-camera system, and event recording can be easily constructed with a small handy camera. It can also be used as a call signal by the CALL switch on the main unit.
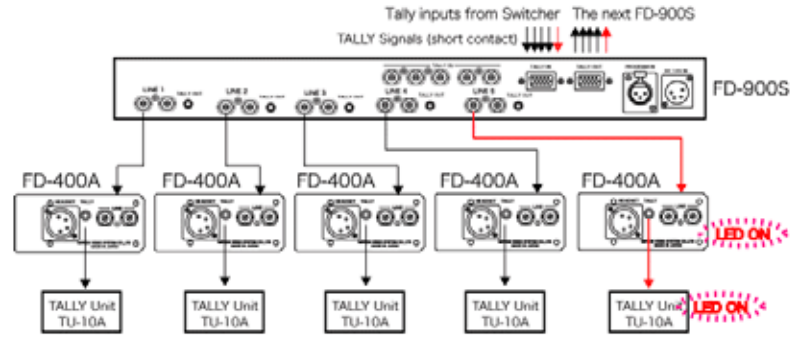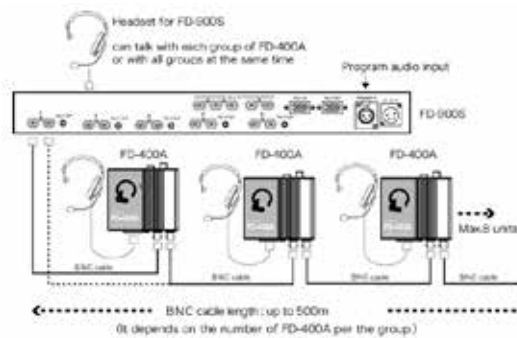
Tally display unit
TU-10A price: **$100**

● **Accessories**：BNC and 3.5 φ mini jack convertion connector(for connect to FD-400A)/Instruction manual

Features ● Tally unit
Specifications ● INPUT/OUTPUT / TALLY IN : BNCx1 / TALLY Indicator : Indicator LED x3 ● GENERAL / Size (WxHxD) : 50x62x34 mm / Weight : 120 g

Tally display unit
TU-20A price: **$298**

● **Accessories**：BNC and 3.5 φ mini jack convertion connector(for connect to FD-400A)/Instruction manual

System tally indicator

All shoulder cameras and small handy cameras can be combined with the FD-900S, FD-400A, and TU-10A / TU-20A to provide a tally display function (requires a connection cable between the switcher and the FD-900S). The tally LED lights up in three places: front, front side, and rear. Attach to the camera light mounting part.

Features ● Large tally unit
Specifications ● INPUT/OUTPUT / TALLY IN : BNCx1 / TALLY Indicator : Indicator LEDx1 ● GENERAL / Size (WxHxD) : 86x75x32 mm / Weight : 0.3 kg ● ACCESSORY / BNC- φ 3.5 Mini Plug Adaptor x1

Enables connection/power supply between FD-400A and another company's intercom

Intercom interface

FD-IF4A price: $980

● **Accessories**：AC adapter/Instruction manual/Guarantee
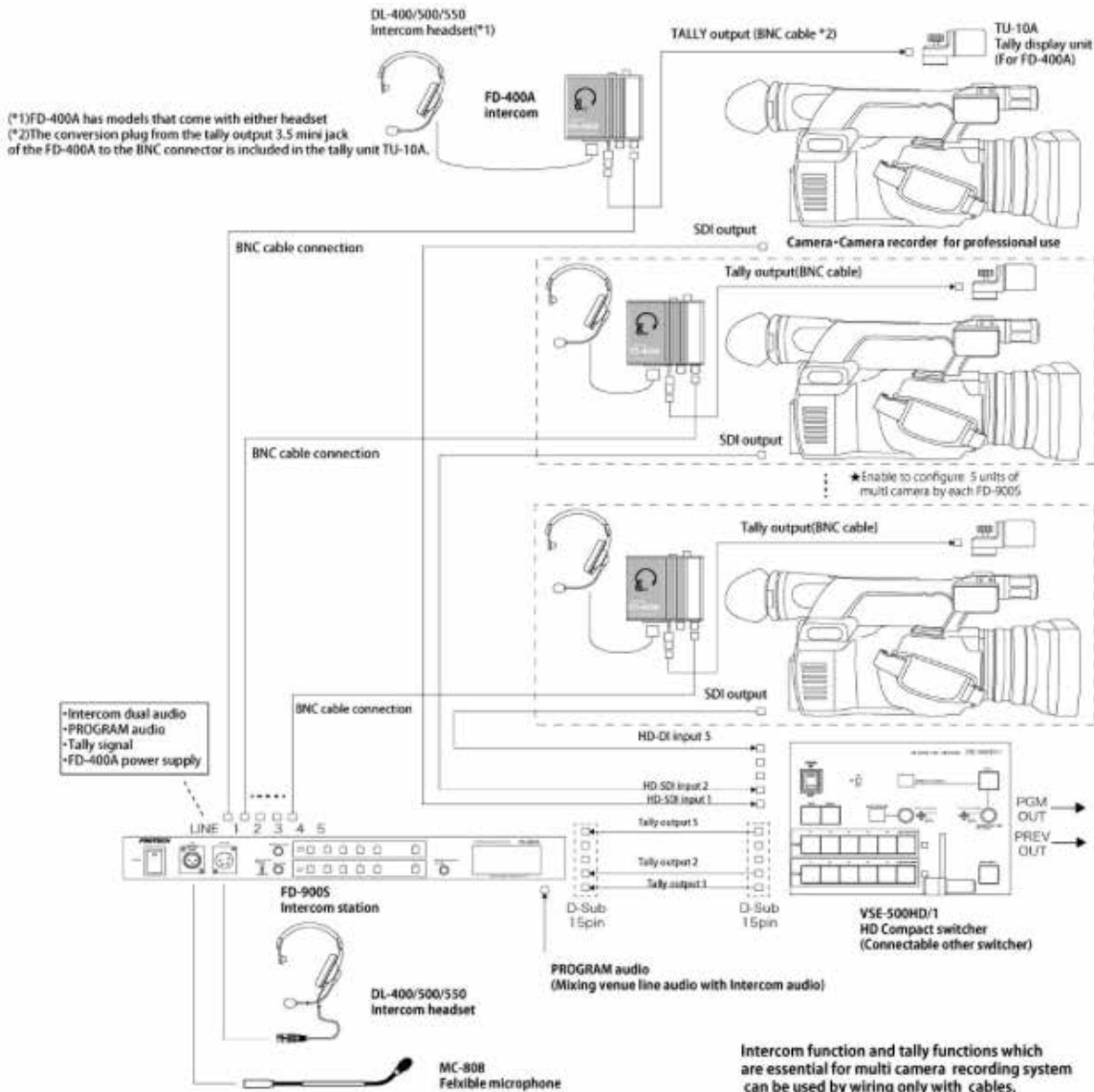
Features ● Intercom interface unit

Specifications ● INPUT/OUTPUT / Line Input/Output : BNCx2 x2Line for FD-400A Interface / External Intercom Interface : XLR 4P malex1 / DC POWER input : XLR 4P malex1 / V-mountx1 for Li-ion battery pack / DC POWER output : V-mount x1 for camera interface(V-mount) ● GENERAL / Size (WxHxD) : 92x138x44 mm / Weight : 420 g ● ACCESSORIES / AC Adapter

Operating panel   Connector panel

Connectable to other intercom systems

An interface for connecting PROTECH FD-400A (slave unit) and other company's intercom (slave unit). Connect to another company's belt pack (slave unit) instead of 2W / 4W connection. Plug XLR-4 pin (cannon 4 pin) headsets into FD-IF4A. You can talk by simply plugging it into the headset connector of the Clearcam Intercom Belt Pack.

Multi camera system configuration by FD-400A/900S + VSE-500HD/1

Intercom function and tally functions which are essential for multi camera recording system can be used by wiring only with cables.

Intercom that enebles everyone to talk simultaneously with a simple connection by using BNC cable

Wired intercom
FD-300A price: **$310**
● **Accessories**：Headset/006P battery/Instruction manual/Guarantee

Features ● Wired intercom with headset ● Easy connection with BNC cable ● Up to 2 km with 10 units can connect ● Multi conversation ● 50 hours operation with 006P battery

Specifications ● TYPE / Wired Intercom : BNC 2-wire Intercom ● INPUT / Line : BNC x2 : Line Impedance 22 Ω / Headset : φ 3.5 Mini Jack x1 : Microphone ECM/ Speaker Open-air type, 32 Ω / DC POWER : DC 9V : 006P Battery x1 / External DV POWER : DC 8V - 18V : Mini 4P x1 ● GENERAL / Size (WxHxD) : 63x37x131 mm / Weight : 260 g ● ACCESSORY / Headset FL-301 x1 / Battery 006P x1 / Operating Instructions

* Note: When connecting FD-400A and FD-300A, set FD-400A to 300A mode. Although the connection between FD-400A and FD-300A is compatible, headset DL-500 cannot be used with FD-300A. FD-300A cannot supply power from FD-900S.

Easy connection by BNC cable

Without needing a main unit, everyone can start a simultaneous call with two or more FD-300A / 400A units and a BNC cable. Up to 10 units can be connected up to 2km. In addition, there is no need to prepare a new headset as it comes standard.

Clear sound

Low impedance coupling minimizes external noise and ensures easy-to-hear sound quality. In addition, by adjusting the volume of the headphones and microphone, it is possible to adjust the volume according to various sites.

Compact, lightweight, robust long time operation

Despite its robust metal body, it has achieved a weight reduction of approximately 260g. In addition, we have achieved continuous driving for about 50 hours with one square (006P / 9V) alkaline battery.

FD-300A price of when purchasing multiple units	
2 : $ 620	3 : $ 930
4 : $ 1,240	5 : $ 1,550
6 : $ 1,860	7 : $ 2,170
8 : $ 2,480	9 : $ 2,790
* Price is regular price (excluding tax)	

Option

Headset
FL-301
price: **$110**

Headset for FD-300A.

Talk switch
TD-200
price: **$70**

Talk switch for FD-300A. Calls can be made only while the switch is pressed.

Sony camera attachment
TA-300
price: **$100**

The FD-300A can be installed in the same way as installing a wireless receiver on the back of a Sony camcorder.

Talk switch + power cable
TD-300
price: **$120**

Talk switch for FD-300A. Calls can be made only while the switch is pressed. With mini 4 pin power cable.

Link between FD-300A and CCU

EIA 2U

Intercom station
FD-800S price: **$1,880**
● **Accessories**：AC cable/Rack mount bracket/Instruction manual/Guarantee

Features ● Intercom base station ● Up to 5 units of Sony CCU or 8 units of FD-300A/400A can connect ● Recorded audio mixing

Specifications ● INPUT/OUTPUT / CCU IN/OUT Connection : XLR 3P female x5 Line / male x5 Line / FD-300A Connection : XLR 3P female x5 Line : Able to supply DC power to FD-300A / AUX FD-300A Connection : BNC x3 Line / LINE AUDIO MIX INPUT : XLR 3P male x2 / EXT MIC Input : XLR 3P female x1 ● GENERAL / AC POWER : AC 100V 20W / DC POWER : DC 12V : XLR 4P male x1 / Size (WxHxD) : 430x88x250 mm / Weight : 560 g ● ACCESSORY / AC Cable / Rack Mount Bracket x1set / Operating Instructions
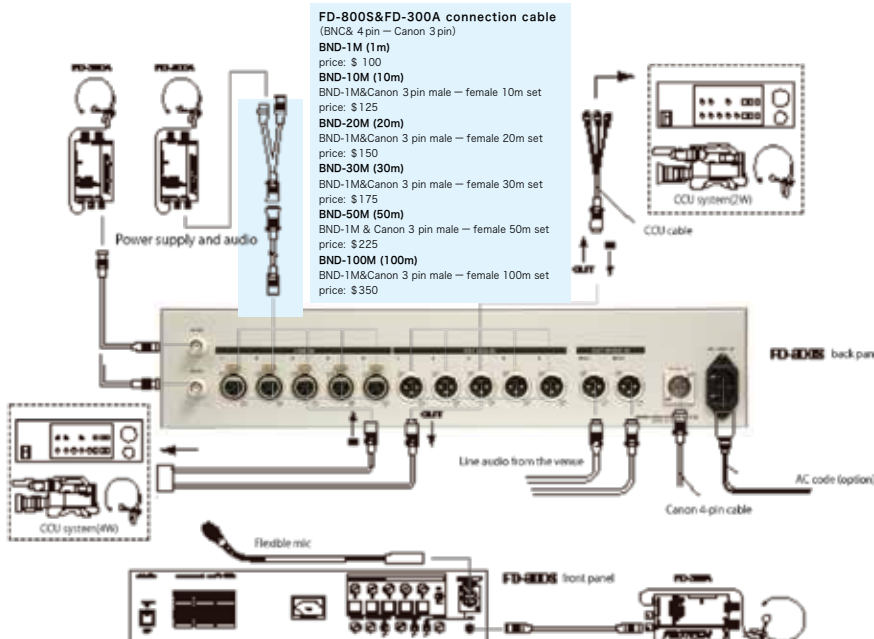
Capable of 5 unit of ccu,8 units of FD-300A/400A connection

Up to 5 2-wire intercoms such as Sony CCU, CCU-D50 / M5 / M7, and 8 FD-300A (power can be supplied to up to 5 units) can be connected. Rack mount brackets are included as standard. AC / DC drive possible.

Capable of mixing recorded audio

It is possible to mix in the income sound. Anyone who uses the income can grasp the relay voice.

System configuration example

FD-800S&FD-300A connection cable
(BNC& 4 pin — Canon 3 pin)
BND-1M (1m)
price: $ 100
BND-10M (10m)
BND-1M&Canon 3 pin male — female 10m set
price: $125
BND-20M (20m)
BND-1M&Canon 3 pin male — female 20m set
price: $150
BND-30M (30m)
BND-1M&Canon 3 pin male — female 30m set
price: $175
BND-50M (50m)
BND-1M & Canon 3 pin male — female 50m set
price: $225
BND-100M (100m)
BND-1M&Canon 3 pin male — female 100m set
price: $350

Power supply and audio

CCU system(2W)

CCU cable

FD-800S back panel

Line audio from the venue

AC code (option)

Canon 4-pin cable

CCU system(4W)

Flexible mic

FD-800S front panel

FD-300A

Option

* See other LINE UP page income section

Flexible mic
MC-808
price: **$398**

A flexible microphone that can be connected to the FD-800S main unit and can communicate with other CCUs.

CCU connection cable
CU-50
price: **$200**

Cable for connecting FD-800S and CCU. (1m / 2 wire)

* Please consult us for other CCU connections.

Necessary items for constructing various systems

Switchable 2 VTRs

You can select one of two different systems, such as dubbing from one of two playback VTRs to one recording VTR, or a combination of linear and non-linear.

EIA 2U

System selector

HS-1000C price: $1,880

● **Accessories** : AC cable/Instruction manual/Guarantee

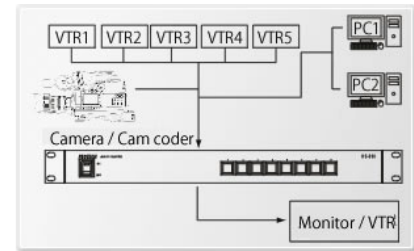Features ● System selector ● Support HD-SDI, SD-SDI, Composite, Y/C, and IEEE1394, and AES EBU supported

● INPUT / HD Component / HD-SDI / Composite : BNC x3 x3 Line / HD-SDI/Composite VIDEO MONITOR : BNCx2 / AUDIO : XLR 3P male x2CH(L/R) x3 Line / AUDIO MONITOR : RCA x2CH(L/R) / IEEE 1394 : 6Px2 / REMOTE : D-sub 9P x2 RS-422 for DECK : D-sub 9P x2 RS-422 for PLAYER/RECORDER : 10P x1 for External remote control (for Remote control unit HS-RM1 optional) ● OUTPUT / HD Component / HD-SDI/Composite : BNC x3 x3 Line / HD-SDI / Composite VIDEO MONITOR : BNCx2 / VIDEO AUX OUT : BNC x3 x1 Line / AUDIO : XLR 3P female x2CH(L/R) x3Line / AUDIO MONITOR : RCA x2CH(L/R) / AUDIO AUX OUT : XLR 3P male x2CH(L/R) x1Line / IEEE 1394 : 6Px1 / DC POWER output : XLR 4P female x1 DC 12V 3.5A max ● GENERAL / AC POWER : AC 100V ± 10% / Size (WxHxD) : 430x88x220mm / Weight : 4.2 kg ● ACCESSORY / AC Cable

HS-1000C back panel

CompatobleHD-SDI/SD-SDI

HS-1000C input / output supports component signals, and among the three BNC terminals, the Y terminal supports composite and HD-SDI / SD-SDI. (HS-1000C) Also supports IEEE1394 switching.

EIA 2U

System selector

HS-1000 price: $1,480

● **Accessories** : AC cable/Instruction manual/Guarantee

HS-1000 does not support HD-SDI.

Features ● System selector ● Support SD-SDI, Composite, Y/C, and IEEE1394

Operatable multiple units

By using multiple HS-1000C units, you can select one from three VTRs. Depending on the combination, troublesome replacement of wiring can be reduced even in the editing system.

HS-1000 back panel

Switchable Y/C signals

HS-1000 input / output supports SD-SDI, composite, and Y / C. It also supports IEEE1394 switching. You can reduce troublesome wiring replacement of the editing system.

Option

Rack mount bracket

HS-RA50

price: $ 30

Adapter that enables rack mounting of HS-1000 / C to 2U size.

Remote control unit

HS-RM1

price: $ 680

Remote control unit that enables remote control of HS-1000 / C. (Cable length 1.5m)

8ch. Video selector

HS-800 price: $980

● **Accessories** : AC cable/Rack mount bracket/ Instruction manual/Guarantee

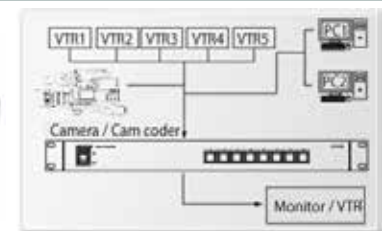Features ● 8 channel video selector ● Support HD-SDI, Composite

Specifications ● INPUT / HD-SDI IN : BNC x8 for HD-SDI and Composite ● OUTPUT / HD-SDI OUT : BNC x1 ● GENERAL / AC POWER : AC 100V(85V-115V) / Size (WxHxD) : 430x44x220 mm / Weight : 3.2 kg ● ACCESSORIES / AC Cable / Rack Mount Bracket x1set

EIA 1U

HS-800 back panel

Select one video from 8 inputs

8ch. Video selector

HS-850 price: $1,480

● **Accessories** : AC cable/Instruction manual/Guarantee

Features ● 8 channel video selector ● Support HD-SDI, Composite

Specifications ● INPUT / HD-SDI IN : BNC x8 for HD-SDI and Composite ● OUTPUT / HD-SDI OUT : BNC x1 ● GENERAL / AC POWER : AC 100V(85V-115V) / DC POWER : DC 12V IN XLR 4P male x1 / Size (WxHxD) : 215x71x300mm / Weight : 2.6 kg ● ACCESSORIES / AC Cable

EIA 2U half rack

HS-850 back panel

HS-850 Option

Rack mount bracket for HS-850

HS-RA90

price: $ 348

One touch select from 4 playbacks to 1 VTR

4ch. AV selector
HS-400 price: $980

● **Accessories**：AC cable/Rack mount bracket/Instruction manual/Guarantee

EIA 1U

Features ● 4 channel AV selector ● Support HD-SDI, Composite ● 4 inputs 1 output

● INPUT / HD-SDI IN : BNC x4 / AUDIO IN : XLR 3P male x2CH(L/R) x4 Line ● OUTPUT / HD-SDI OUT : BNC x1 / AUDIO OUT : XLR 3P female x2CH(L/R) 1Line (Selected Line) ● GENERAL / AC POWER : AC 100V(85V-115V) / Size (WxHxD) : 430x88x220mm / Weight : 3.2 kg ● ACCESSORY / AC Cable / Rack Mount Bracket x1set

HS-400 back panel

4 INPUTS 1 OUTPUT

Select any one of the four players and connect it to a recorder, monitor, etc. The simple functions are condensed into 1U size that does not take up rack space.
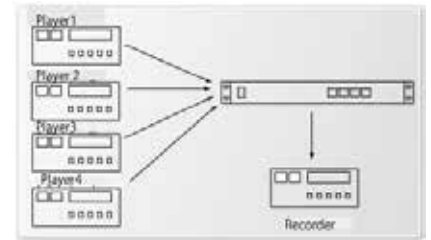
Check the audio of four VTRs in a space saving

Line monitor
LM-400 price: $1,980

● **Accessories**：AC cable/Rack mount bracket/Instruction manual/Guarantee

EIA 2U

Features ● Line monitor ● 4 VTR monitoring ● L/R individual monitoring ● Phase checker (Green:NORMAL, Red:INVERT) install

Possible to monitor 4 VTRs

A spacious 4-channel design for medium- and large-scale editing rooms and video can be switched simultaneously, so you can see at a glance which VTR is being monitored.

Phase check operation installed

Even if a phase problem (cable polarity reversal) has occurred in the audio recorded in stereo, if the phase is normal due to the phase check function (NO LED) NORMAL, if it is different (red LED) INVERT Lights up.

Line microphone
LCM-500 price: $358

● **Accessories**：Wind screen/Mic holder/Instruction manual/Guarantee

Features ● Line microphone ● RCA output installed ● Up to 500 hours operation with 2 x AA Alkaline batteries

Suitable for backups

Equipped with RCA output terminal as standard on the microphone. It also supports home audio / video equipment. Achieves RCA output without a mixer. It can be used for about 500 hours with two AA alkaline batteries.

# Great for power noise countermeasures.

Noise canceller
NC-400 price: $498

● **Accessories**：Instruction manual/Guarantee

Features ● Noise canceller ● Earth lift ● Attenuator circuit installed

Specifications ● INPUT / INPUT L/R : XLR 3P female x2CH(L/R) : RCA x2CH(L/R) / Input Level : LINE +4/-20 dB / MIC -60 dB ● OUTPUT / OUTPUT L/R : XLR 3P male x2CH(L/R) : XLR 5P male x1 2CH(L/R) / Output Level : XLR 3P : -20/-60 dB XLR 5P : -60 dB ● GENERAL / Size (WxHxD) : 134x96x35 mm / Weight : 0.39 kg
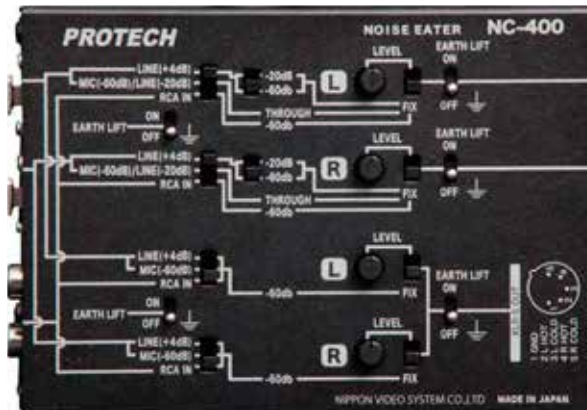
NC-400 Input panel

NC-400 Output panel

Option

Connecting cable
MC-200
price: $68

Cable to connect with Panasonic AG-HMR10

Fine adjustments

XLR3P side input is line level and output is mic level output. The RCA input is microphone level. Output can be XLR3S and XLR5P (stereo). Fine level adjustments can be made with the trim volume, and can be adjusted to each VTR.

Iris controlled without using CCU.
Not only HD camera, 4K and 8K camera are compatible

OCP-324 operation panel

An amazing tool to transform HD / 4K / 8K cameras into full studio specifications

Direct lens operation.
Iris adjustment is possible without a dedicated CCU

Camera operation control panel
OCP-324 price: $3,980

● **Accessories**：Instruction manual/Guarantee   BTO

Camera operation control station
LCS-324 price: $980

● **Accessories**：Instruction manual/Guarantee   BTO

Iris adjustment without CCU

OCP-324 is a control panel specification. Lens iris control from a remote location is possible by using it simultaneously with LCS-324. Compatible with grip type lenses (excluding some models) and external motors. Also compatible with box-type lenses. Various systems such as relay cars and studios can be constructed.

LCS-324 top panel

LCS-324 left side panel   LCS-324 right side panel

Pro cameraman designed functions

Cameras are diversifying and various models are on sale. Some camera models for movie shooting do not have a CCU. The OCP-324 / LCS324 was devised there.
Can be used with almost any interchangeable lens using 12 pins. Even if it is not a dedicated CCU, lens iris etc. can be controlled externally. It is possible to operate with an external motor on a lens without a grip on the PL mount.

Compatible motion lends(Patented)

The LCS-324 enables iris control using an external motor that is not a grip type of PL lens when using a camera manufacturer's genuine CCU. (Patent)

Control Iris by hand or from even OB VAN

The OCP-324 / LCS-324 combination can be used flexibly when you want to leave it to the photographer, such as when the exposure of the shadow sun is too different in a sunshine stadium. It can be selected by switching from LCS-324 on the photographer side.

Memorize Iris,focus and zoom positions

Another major feature of the combination of OCP-324 / LCS-324 is 7 location memories x 3 pages. Speed control, iris, focus and zoom can be memorized individually and you can choose to execute or not. (Patent)
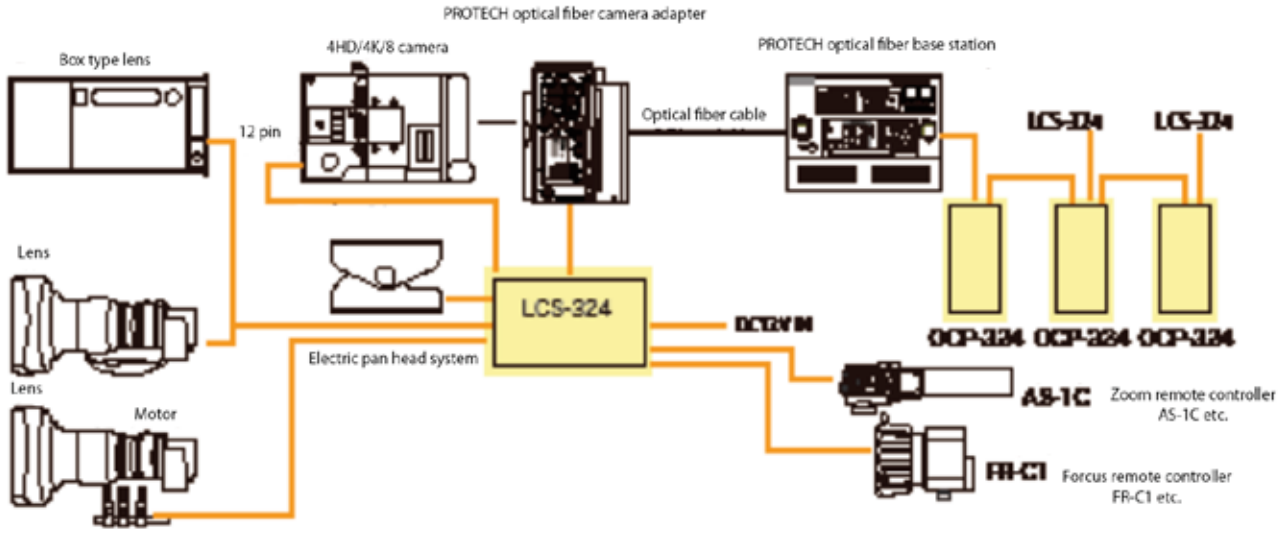
Joint development with NHK
Equipped with a focus expansion function ideal for 4K / 8K shooting.
Wireless and wired operation possible

Focus controller with magnification function 1 control motor
BM-JN1 price: $7,980

Presise focus adjustments

In addition to the normal mode, the focus adjustment positions in the near and far distances are precisely distributed. A high-resolution encoder is used to enable high-quality focus control.
* Patented

The intelligent system. 4K/2K broadcast solution

Broadcast motion control system
1 control motor
BM-S1 price: **$3,980**

● **Accessories**：MagDrive Basic set/Control motor × 1/Gear × 1 kind/Drive
unit × 1/Connection cable/RM-BM30 × 1/Instruction manual/Guarantee

Features ● Broadcast motion control system ● Auto calibration ● Rod
conversion adapter ● Simple controller indicator ● Memorize 7 positioning
assignment ● Easy attach gear for various lenses ● Iris control without CCU

Specifications ● INPUT / FOCUS DEMAND : 12P x1/20P x1 / Z00M DEMANND
: 12Px1/20Px1 / REMOTE : 6Px1 for connection to Remote Controller RM-
BM30(optional) : 6P x1 for connection to Iris Controller RM-BM30(supplied) / B4
CAMERA : 12P x1 for connection to CAMERA / POWER IN : Mini 4P x1 DC 12V(DC
8V-28V) ● OUTPUT / FOCUS/ZOOM/IRIS MOTOR : 16P x3 for connection to Motor
Unit / B4 LENS : 12P x1 for connection to B4 Lens for IRIS control ● GENERAL / Size
(WxHxD) : (BASE UNIT)103x71x54 mm / (IRIS Controller RM-BM30)50x110x42 mm /
Weight : (BASE UNIT)0.3 kg / (IRIS Controller RM-BM30 / Bracket)0.3 kg/0.45 kg ●
ACCESSORIES / BASE UNIT x1 / MOTOR UNIT x1 / Gear x1set / IRIS CONTROLLER
RM-BM30 x1 / 16P Cable x1 / 6P Cable x1

Broadcast motion control system
2 control motor
BM-S2 price: **$5,980**

● **Accessories**：MagDrive 2 HEAD set/Control motor × 2/Gear × 1 kind × 2/
Drive unit × 1/Connection cable/RM-BM30 × 1/Instruction manual/Guarantee

Features ● Broadcast motion control system; 2 motor units ● For other features,
refer to BM-S1

Specifications ● INPUT / FOCUS DEMAND : 12P x1/20P x1 / Z00M DEMANND : 12P x1/20P
x1 / REMOTE : 6P x1 for connection to Remote Controller RM-BM300(optional) : 6P x1 for
connection to Iris Controller RM-BM30(supplied) / B4 CAMERA : 12P x1 for connection to
CAMERA / POWER IN : Mini 4P x1 DC 12V(DC 8V-28V) ● OUTPUT / FOCUS/ZOOM/IRIS
MOTOR : 16P x3 for connection to Motor Unit / B4 LENS : 12P x1 for connection to B4 Lens
for IRIS control ● GENERAL / Size (WxHxD) : (BASE UNIT)103x71x54mm / (IRIS Controller
RM-BM30)50x110x42mm / Weight : (BASE UNIT)0.3 kg / (IRIS Controller RM-BM30 /
Bracket)0.3 kg/0.45 kg ● ACCESSORIES / BASE UNITx1 / MOTOR UNIT x2 / Gear x2sets / IRIS
CONTROLLER RM-BM30 x1 / 16P Cable x2 / 6P Cable x1

Broadcast motion control system
3 control motor
BM-S3 price: **$7,980**

● **Accessories**：MagDrive 3 HEAD set/Control motor × 3/Gear × 1 kind × 3/
Drive unit × 1/Connection cable/RM-BM30 × 1/Instruction manual/Guarantee

Features ● Broadcast motion control system; 3 motor units ● For other features,
refer to BM-S1

Specifications ● INPUT / FOCUS DEMAND : 12P x1 / 20P x1 / Z00M DEMANND : 12P x1 /
20P x1 / REMOTE : 6Px1 for connection to Remote Controller RM-BM300(optional) : 6P x1
for connection to Iris Controller RM-BM30(supplied) / B4 CAMERA : 12P x1 for connection
to CAMERA / POWER IN : Mini 4P x1 DC 12V(DC 8V-28V) ● OUTPUT / FOCUS/ZOOM/IRIS
MOTOR : 16P x3 for connection to Motor Unit / B4 LENS : 12P x1 for connection to B4 Lens
for IRIS control ● GENERAL / Size (WxHxD) : (BASE UNIT)103x71x54mm / (IRIS Controller RM-
BM30)50x110x42 mm / Weight : (BASE UNIT)0.3 kg / (IRIS Controller RM-BM30 / Bracket)0.3 kg
/ 0.45 kg ● ACCESSORIES / BASE UNITx1 / MOTOR UNIT x3 / Gear x3sets / IRIS CONTROLLER
RM-BM30 x1 / 16P Cable x3 / 6P Cable x1

Broadcast motion control system
3 control motor 12 gear set
BM-W3F price: **$14,800**

● **Accessories**：MagDrive 3 HEAD set/Control motor × 3/Gear drive × 3 kind
× 3/Drive unit × 1/System controller/Iris controller for B4 lens connected to
wired controller/Connection cable/Instruction manual/Guarantee

Features ● Broadcast motion control system; 3 motor units and 4 type x 3
gears ● For other features, refer to BM-S1

Specifications ● INPUT / FOCUS DEMAND : 12P x1 / 20P x1 / Z00M DEMANND
: 12P x1 /20P x1 / REMOTE : 6P x1 for connection to Remote Controller RM-
BM300(optional) : 6Px1 for connection to Iris Controller RM-BM30(supplied) / B4
CAMERA : 12Px1 for connection to CAMERA / POWER IN : Mini 4P x1 DC 12V(DC
8V-28V) ● OUTPUT / FOCUS/ZOOM/IRIS MOTOR : 16P x3 for connection to Motor
Unit / B4 LENS : 12P x1 for connection to B4 Lens for IRIS control ● GENERAL / Size
(WxHxD) : (BASE UNIT)103x71x54 mm / (IRIS Controller RM-BM30)50x110x42 mm
/ Weight : (BASE UNIT)0.3 kg / (IRIS Controller RM-BM30 / Bracket)0.3 kg / 0.45 kg
● ACCESSORIES / BASE UNITx1 / MOTOR UNITx3 / Gearx3sets / IRIS CONTROLLER
RM-BM30 x1 / SYSTEM CONTROLLER RM-BM300 x1 / 16P Cable x3 / 6P Cable x2

Domestic high-precision gearhead provides powerful support for professional sites

Motion control system

The broadcast motion control system consists of a combination of up to three control motors and a driving controller. It can be used not only for PL lenses but also for broadcasting business, and can be used in various fields such as movies, drama shooting, event shooting, and crane shooting.
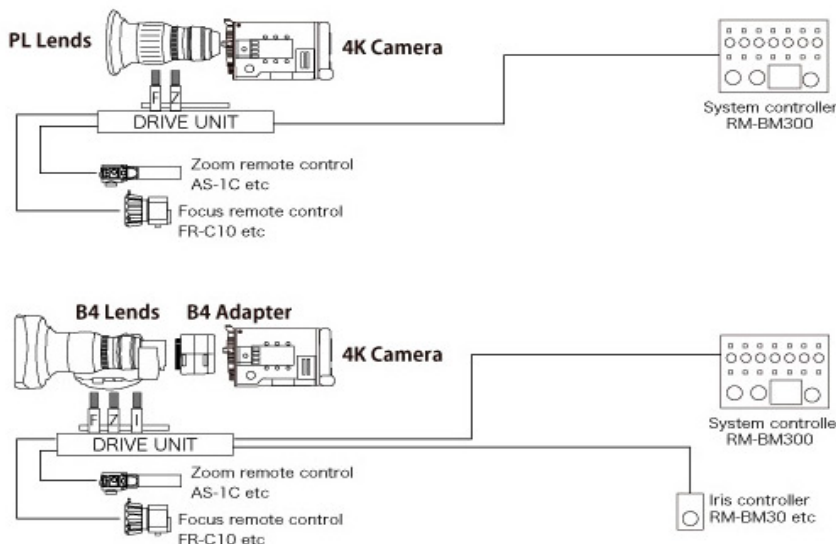
Auto calibration function

It can be attached to any lens, and the focus ring, iris ring, and zoom ring of that lens are automatically calibrated at the touch of a button. Once installed, it remembers its position even when the power is turned off.

Rod conversion adapter

Compatible with φ 19 rods and φ 15 rods used in the field.

Example of system constitution

Control however you want

The drive unit can be connected to a Canon zoom remote control and focus remote control. By connecting the RM-BM30 iris remote control, the iris can be controlled by the photographer. By connecting the RM-BM300 wired remote controller, you can set the focus, zoom, and iris at a glance at the same time, and you can use the zoom at hand and the focus of the RM-BM300 together.

Equipped indicator

Unlike the LCD screen operation type that looks high at first glance and the type that requires menu operation, the operation is a dip switch, the status is only the indicator, and the setting status can be understood instantly.

Memorize 7 positions (Patented)

Ultra-precise angle of view and focus iris technique can be accurately reproduced for movie shooting, drama shooting, crane shooting, etc. The order of 7 positions can be set freely. Furthermore, the speed can be adjusted between positions, and the transition time can be changed. This makes it easy to focus slowly. (Optional unit RM-BM300)

Control iris with changeable lens

By using an optional unit, it is possible to control broadcast business lenses. The iris of the box lens / B4 lens can be controlled.

Fittable with one-touch

Compatible with currently sold lenses such as PL lenses and B4 broadcast lenses. Since the development team also has an active cameraman, various devices are used on site. A gear set that covers almost everything is available, embodying the feeling of wear and use that designer's real feeling because they are on site. Compatible with Canon lenses, Fujinon lenses, ARRI lenses, Carl Zeiss lenses, Tokina lenses, Sony lenses, etc. One-touch detachment without tools has been realized.

Simple function,operation

It is desirable that the equipment on site is simple. The controller shows the situation at a glance and is easy to operate. Internal control is state-of-the-art control and operation is simple and clear. The troublesome menu function and the LCD panel can be eliminated and the cameraman can operate the camera intuitively without an instruction manual.

Control iris without CCU

In recent years, digital cameras can shoot with almost the same color even if there is no CCU when shooting with multiple cameras. Now, the biggest purpose of using the CCU camera control unit is to control the iris from the switcher side. CCU is a dedicated machine and expensive, but in this system, Iris control can be used without CCU.

High-tech microhead,Intelligent mortor

We examined more than 100 types of lenses, especially concerned the motor torque.

Option

Wired controller
RM-BM300 price: $ 2,000

Iris controller
RM-BM30 price: $ 980
Iris control remote control for box type lenses and B4 lenses. Used by connecting to the BM series wired remote control.

Tally adapter unit set
TU–6005FSET price: $ 1,980
System set for 5 cars tally from switcher
Set of 5 connection cable tally

Lineup -Pro studio remote controller

Pro stadio remote control
RM-C1 price: **$798**

● **Accessories**：Camera connection cable（1m）× 2/Instruction manual/ Guarantee (Tripod mounting bracket is sold separately)

Features ● Remote control unit ● For LANC camera, such as Canon C300/C500 4K camera or Sony camera ● Assignment buttons

Specifications ● INPUT/OUTPUT / LANC : φ 2.5 3P Mini Jack x3 for connection to LANC Camera / LANC : φ 2.5 3P Mini Jack x1 for connection to RM-C1 ● FUNCTION / Zoom control / Focus control / IRIS control ● GENERAL / Size (WxHxD) : 80x120x44mm / Weight : 0.28 kg ● ACCESSORIES / Remote Cable 1m x2

Pro stadio remote control
RM-P250 price: **$698**

● **Accessories**：Camera connection cable（1m）× 2/Instruction manual/Guarantee (Tripod mounting bracket is sold separately)

Tripod mounting example

Features ● Remote control unit for Panasonic handheld camera
Specifications ● INPUT/OUTPUT / Zoom : φ 2.5 3P Mini Jack x3 for connection to Panasonic handheld camera / FOCUSI : φ 3.5 4P Mini Jack x1 for connection to Panasonic handheld camera ● FUNCTION / Zoom control / Focus control ● GENERAL / Size (WxHxD) : 80x120x44mm / Weight : 0.28 kg ● ACCESSORIES / Remote Cable 1m x2

Pro stadio remote control
RM-C2 price: **$798**

● **Accessories**：Camera connection cable（1m）× 2/Instruction manual/Guarantee (Tripod mounting bracket is sold separately)

Features ● Remote control unit ● Auto select Canon new protocol/ LANC
Specifications ● INPUT/OUTPUT / LANC : φ 2.5 3P Mini Jack x1 for connection to LANC Camera ● FUNCTION / Zoom control / Focus control / IRIS control ● GENERAL / Size (WxHxD) : 80x120x44mm / Weight : 0.28 kg ● ACCESSORIES / Remote Cable 1m x2

Pro stadio remote control
RM-S1 price: **$698**

● **Accessories**：Camera connection cable（1m）× 2/Instruction manual/Guarantee (Tripod mounting bracket is sold separately)

Features ● Remote control unit for Sony, Canon handheld camera
Specifications ● INPUT/OUTPUT / LANC : φ 2.5 3P Mini Jack x3 for connection to LANC Camera / LANC : φ 2.5 3P Mini Jack x1 for connection to RM-S1 / LANC : D-sub 9P x1 parallel with φ 2.5 3P Mini Jack ● FUNCTION / Zoom control / Focus control / IRIS control ● GENERAL / Size (WxHxD) : 80x120x44mm / Weight : 0.28 kg ● ACCESSORIES / Remote Cable 1m x2

Zoom remote control
AS-520 price: **$398**

● **Accessories**：Instruction manual/Guarantee

12pin zoom remote control for Fujinon broadcasting
AS-520-12P price: **$418**

● **Accessories**：Instruction manual/Guarantee

Features ● Zoom remote controller for 8-pin Canon, Fujinon lenses ● Easily attachable to a pan bar

Specifications ● OUTPUT / LENS : 8P malex1 ● GENERAL / Size (WxHxD) : 45x95x41 mm / Weight : 215 g ● ACCESSORIES / Repeat Bandx2

Iris zoom remote control set
AL-500SET price: **$728**

● **Accessories**：IF box/Control cable (2m)/Instruction manual/Guarantee
Features ● Iris and zoom controller

Specifications ● INPUT/OUTPUT / ○ AL-500 : D-sub 9P x1 for connection to ALB-500 / ○ ALB-500 : D-sub 9Px1 for connection to AL-500 / Lens Interface : 12Px1 for connection to 12P cable from Lens / Camera Interface : 12Px1 for connection to CAMERA(12P Lens connector) / Lens Remote Control Interface : 8P x1 for connection to Zoom Lens(8P REMOTE connector) ● GENERAL AL-500 / Size (WxHxD) : 47x130x50 mm / Weight : 210 g ● ACCESSORIES / AL-500 / ALB-500 : 8P IF Box / Cable 2m / Repeat Band x2

* Some lenses may not be used.

Freely control high-precision zoom

Patent No. 5957158JP 9759900US

Small zoom remote control
AS-300 price: $148

● **Accessories**：Connection cable for small camera/Instruction maual/Guarantee

Features ● Compact zoom demand with LANC jack ● Protech own-developed proservo ● Digital drive engine ● Compatible with Canon new camera protocol ● Compatible with Sony camera ● Compatible with Panasonic handheld camera ● Compatible with JVC Kenwood handheld camera

Specifications ● INPUT/OUTPUT / LANC : φ 2.5 3P Mini Jackx1 for connection to LANC Camera / REC Button : Video Recording Activation ● GENERAL / φ 2.5 3P Mini Plug Cable : cable length 510 mm / Clamp : φ 10-30 mm / Size (WxHxD) : 55X36X85mm (main body/not including clamp bracket) / Weight : 0.1 kg (including clamp bracket) ● ACCESSORIES / φ 2.5 3P Mini Plug Cable x1

■ Equipped with PROTECH Mecha Proservo. Equipped with a digital drive engine.

■ Compatible with Canon new camera protocol

■ Compatible with SONY cameras

■ Compatible with Panasonic small cameras

■ Compatible with JVC KENWOOD small cameras

Compatible Sony/Cannon camera,Fujinon,Cannon lens by auto conversion.
Build in Pan stick Zoom remote controller

Professional zoom remote control
AS-600 price: $748

● **Accessories**：Connection cable for small camera/8P cable/ Instruction manual/Guarantee

Skeleton type professional zoom remote control
AS-600S price: $748

● **Accessories**：Connection cable for small camera/8P cable/ Instruction manual/Guarantee

Features ● zoom demand with Pan bar ● Protech own-developed proservo ● Digital drive engine ● Compatible with Canon new camera protocol ● Compatible with Sony camera ● Compatible with Panasonic handheld camera ● Compatible with JVC Kenwood handheld camera

Introducing new AS-1, which has greatly improved durability and also has the comfort of conventional AS-1

LANC support Pro Zoom Remote Control

AS-1/N price: **$798**

SONY・Canon/
FUJI FILM lens

Improved durability of volume zoom

Compared to the previous AS-1 series, the durability of the volume parts for zooming has been greatly improved. PROTECH's in-house inspection has succeeded in endurance tests over 20,000 times. You can use it more tougher without breaking.

Smooth curve

In this product, we are particular about smooth curves. The volume part has been developed with an emphasis on how to express the smoothness of zoom naturally not only the durability. We have realized to produce the AS-1 series with a smooth zoom speed as shown on the right figure.
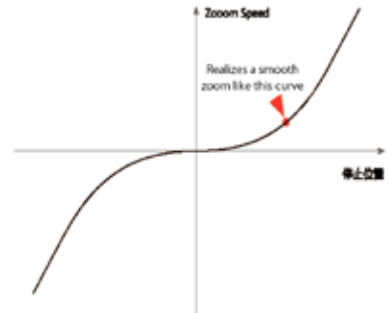
Pro-zoom Remote Control for
12 pin Fujinon lenses

AS-1F/N price: **$898**

● **Accessories**：Connection cable for small camera / 12P cable / Instruction manual / Guarantee

Features ● Zoom demand for 12-pin Fujinon lenses ● For other features, refer to AS-1

Pro-zoom Remote Control for
20 pin Canon lenses

AS-1C/N price: **$898**

● **Accessories**：Connection cable for small camera / 20P cable / Instruction manual / Guarantee

Features ● Zoom demand for 20-pin Canon lenses ● For other features, refer to AS-1

Pro-zoom Remote Control for SONY
PMW series

AS-1S/N price: **$898**

● **Accessories**：Connection cable for small camera / EX8s cable / Instruction manual / Guarantee

Features ● Zoom demand for Sony camera PMW series ● For other features, refer to AS-1

Operability in pursuit of comfort in every detail

LANC support Pro Zoom Remote Control
AS-1/A price: **$798**

● **Accessories**：Connection cable for small camera / 8P cable / Instruction manual / Guarantee

Features ● Zoom demand with LANC jack ● Highly compatible with Sony, Panasonic and Canon handheld cameras' lenses and Canon/Fujinon shoulder cameras' lenses (except for some models) ● Protech own-developed proservo ● Zoom speed selection S/F ● REC/RET assignment ● Zoom direction selection T/W or W/T

Specifications ● INPUT/OUTPUT / LENS : 8P femalex1 / CAMERA : φ 2.5 3P Mini Jackx1 / Focus Demand : 12Px1 ● GENERAL / Size (WxHxD) : 64x64x224 mm / Weight : 0.45 kg(not including Bracket) Bracket: 0.45 kg ● ACCESSORIES / Clamp Bracketx1 / 8P Cablex1 / φ 2.5 Mini Plug Cablex1

PRO ZOOM is a registered trademark of Nippon Video System.

Pro zoom remote control compatible with almost all cameras

Compatible with Sony, Panasonic, Canon handy cameras, and Canon / Fujinon shoulder camera lenses (except for some models) by switching. Used by attaching to a tripod handle,

AS-1 connector panel

Pro-zoom Remote Control
AS-1P price:**79,800 円**

● **Accessories**：Connection cable for small camera / 8P cable / Instruction manual / Guarantee

Features ● Zoom demand with LANC jack ● Highly compatible with Panasonic and Canon handheld cameras' lenses and Canon/Fujinon shoulder cameras' lenses (except for some models) ● For other features, refer to AS-1/A

AS-1P connector panel

Specifications ● INPUT/OUTPUT / LENS : 8P femalex1 for connection to CANON or FUJINON 8P Lens / CAMERA : φ 2.5 3P Mini Jackx1 for connection to Panasonic Camera / HDS : 12Px1 ● GENERAL/ Size (WxHxD) : 64x64x224 mm / Weight : 0.45 kg (not including Bracket) Bracket: 0.45 kg ● ACCESSORIES / Clamp Bracketx1 / 8P Cable(ASC-1B)x1 / φ 2.5 Mini Plug Cablex1

Compatible with Panasonic small camera / lense for shoulder camera

Compatible with Sony, Panasonic, Canon handy cameras, and Canon / Fujinon shoulder camera lenses (except for some models) by switching. Used by attaching to a tripod handle.

Pro-zoom Remote Control for 12 pin Fujinon lenses
AS-1F price:**89,800 円**

● **Accessories**：Connection cable for small camera / 12P cable / Instruction manual / Guarantee

Features ● Zoom demand for 12-pin Fujinon lenses ● For other features, refer to AS-1/P

Pro-zoom Remote Control for 20 pin Canon lenses
AS-1C price:**89,800 円**

● **Accessories**：Connection cable for small camera / 20P cable / Instruction manual / Guarantee

Features ● Zoom demand for 20-pin Canon lenses ● For other features, refer to AS-1/P

Pro-zoom Remote Control for SONY PMW series
AS-1S price:**89,800 円**

● **Accessories**：Connection cable for small camera / EX8s cable / Instruction manual / Guarantee

Features ● Zoom demand for Sony PMW series ● For other features, refer to AS-1/P

Option

8P-12P Conversion cable
FC-12P price:**10,000 円**

Cable that converts 8P cable for Fujinon lens (12P). About 15cm.

Connecting cable for Fujinon lenses
FC-12F price:**20,000 円**

A cable that connects to a lens for broadcasting made by Fujinon on AS-1 / A. About 1m.

Connecting cable for Canon lenses
FC-20C price:**20,000 円**

Cable to connect Canon broadcasting (20P) to AS-1 / A. About 1m.

Connecting cable for SONY PMW
FC-EX8S price:**12,000**

Cable to connect Sony PMW-200 to AS-1 / A. About 1m.

Compatible with almost all small handy cameras and shoulder cameras

Manual focus remote control
FR-15 price: $1,288

● Accessories : Connection cable/Gear for Canon/
Gear for Fujinon/Shaft cable tool/Mounting bracket/
Instruction manual/Guarantee

Features ● Focus demand for Canon and Fujinon B4 lenses

Specifications ● FOCUS DEMANND / Manual Focusing : for FUJINON B4 Lens / CANON B4 Lens ● GENERAL / Size (WxHxD) : Main Body 73x73x96mm : Universal Shaft Length 950mm / Weight : Main Body 0.5 kg : Clamp Bracket 0.45 kg : Universal Shaft 0.55 kg : Lens Gear Bracket 0.1 kg ● ACCESSORIES / Wrench x1 : for gear exchange / Driver x1 : for Guide Pin adjustment for FUJINON Lens, / Clamp Bracket x1

Pro focus remote control for Canon 20 pin type lens
FR-C10 price: $898

● **Accessories** : Connection cable/Mounting bracket/
Instruction manual/Guarantee

Features ● Focus demand for Canon 20-pin lenses

Specifications ● FOCUS DEMAND / Focus Control : for CANON 20-pin type Lens ● INPUT/OUTPUT / Lens Interface : 6P x1 for connection to CANON Lens with 6P-20P Cable ● GENERAL / Size(WxHxD) : 73x73x82mm / Weight : Main Body 0.5 kg : Clamp Bracket 0.45kg ● ACCESSORIES / Clamp Bracket x1 / 6P-20P Cable

Pro focus remote control for Fujinon 12 pin type lens
FR-F10 price: $898

● **Accessories** : Connection cable/Mounting bracket/
Instruction manual/Guarantee

Features ● Focus demand for Fujinon 12-pin lenses

Specifications ● FOCUS DEMAND / Focus Control : for FUJINON, 12-pin type Lens ● INPUT/OUTPUT / Lens Interface : 6P x1 for connection to FUJINON Lens with 6P-12P Cable ● GENERAL / Size (WxHxD) : 73x73x82mm / Weight : Main Body 0.5 kg : Clamp Bracket 0.45 kg ● ACCESSORIES / Clamp Bracket x1 / 6P-12P Cable

Pro focus remote control for small camera
FR-LC10 price: $898

● **Accessories** : Connection cable/Mounting bracket/
Instruction manual/Guarantee

Features ● Focus demand for LANC camera, compatible with Canon new camera pro focus remote controll ● Focus operation with connecting AS-1/A zoom demand

Specifications ● FOCUS Demand / Focus Control : for LANC camera, compatible with Canon new camera protocol ● INPUT/OUTPUT / AS-1/A : Mini 6Px1 for connection to AS-1/A connected to LANC camera ● GENERAL / Size (WxHxD) : 73x73x82mm / Weight : Main Body 0.5 kg : Clamp Bracket 0.45 kg ● ACCESSORIES / Clamp Bracketx1 / 6P-12P Cable

Pro focus controller for Panasonic small camera lens
FR-P1 price: $798

● **Accessories** : Connection cable/Mounting bracket/
Instruction manual/Guarantee

Features ● Focus demand for Panasonic handheld camera ● Iris control (expect for some models)

Specifications ● FOCUS DEMAND / Focus Control : for Panasonic ● INPUT/OUTPUT / CAMERA Interface : φ 3.5 4P Mini Jack x1 for Panasonic camera interface ● GENERAL / Size (WxHxD) : 73x73x82 mm / Weight : Main Body 0.5 kg : Clamp Bracket 0.45 kg ● ACCESSORIES / Clamp Bracketx1 / φ 3.5 4P Mini Plug Cable x1

Pro focus controller for SONY PMW-300/EX3/TD300
FR-S10 price: $998

● **Accessories** : Mounting bracket/Instruction manual/
Guarantee

Features ● Focus demand for Sony PMW-300/EX3/TD300

Specifications ● FOCUS DEMAND / Focus Control : for SONY Camera. It may need the SONY Demand Interface CBK-DCB01 to be connected to the camera. ● INPUT/OUTPUT / Lens Interface : 6P x1 Cable Length 1m for connection to SONY camera ● GENERAL / Size (WxHxD) : 73x73x82mm / Weight : Main Body 0.5kg : Clamp Bracket 0.45kg ● ACCESSORIES / Clamp Bracket x1

AS-1 / A or RM-C2 and FR-LC10 Studio specifications can be built in combination

Focus remote control for LANC compatible new protocol for Canon small camera. After connecting AS-1 / A to the camera, you can use it by connecting FR-LC10 to the AS-1 / A connector. (There may be camera restrictions on the operation.)

* Note: To control Sony PMW-300 / EX3 etc. with FR-S10 and AS-1 / A, Sony CBK-DCB01 demand interface is required.

Almost all cameras can be built to box lens system camera specifications
Iris can only be controlled with a box lens adapter (patented)

* Syscame is a registered trademark of Nippon Video System.

New system camera unit

By using a B4 2/3-PL lens conversion mount as well as a small box type B4 2/3 inch camera, professional shoulder camera recorder, Canon 8K camera, Astrodesign 8K camera, Panasonic digital Box-type high-performance lenses can be attached to cinema cameras VARICAM, ARRI cameras, AJA CION, RED DRAGON, Sony cinema cameras, etc., enabling powerful video production.

Equipped with separate power supply terminal

Power can be supplied from the power input terminal of the HDS-1500 / 1500RT to the box lens. This also supports PL cameras and types that cannot be powered from the camera body.
Camera CCU control / control switchable at hand.
If the camera is equipped with a VTR, you can press the REC button at hand.

● **Powered by HD-SDI return input circuit**
● **HD-SDI viewfinder output possible**
● **Hand iris / CCU switchable**
● **Support for camera auto iris**
● **Equipped with viewfinder mount**
● **Enables supply power to box-type lenses**
● **Built-in SDI distributor**
● **Also supports serial port**

Syscame build-up unit with HD-SDI return input
HDS-1500RT price: $9,980

● **Accessories**：Instruction manual/Guarantee

Features ● Syscame build-up unit with HD-SDI return input ● For other features, refer to HDS-1500

This photo is a combination of HDF-1500 + HDS-15A.

Specifications ● INPUT/OUTPUT / Box type lens Interface (input) : 36P x1 / Camera Interface (output) : 12P female x1(NORMAL)/12P female x1(SERIAL INTERFACE) / SDI CAMERA IN : BNCx1 / SDI RETURN IN : BNCx1 / SDI VF OUT : BNCx1 / TALLY OUT : BNCx1 ● FUNCTION / ○ Return Control Box / IRIS Remote control interface : 12P femalex1 for connection to RM-BM30 : 12P female x1 / TALLY IN/TALLY OUT : BNC x1/BNC x1 / DC 12V IN /TALLY IN : 6P female x1 / REC Switch / IRIS control ● GENERAL / DC POWER : DC 12V(10V-18V) / Size (WxHxD) : 287v327x560mm / Weight : 10.2 kg ● ACCESSORIES / BNC cable x2 / Camera Screw : 1/4 x2 : 3/8 x2

Compatible with PL camera by iris control unit

HDS-1500 / 1500RT can control iris without using CCU, no matter what camera is used. When using the CCU, the iris can be controlled on the cameraman side by switching. The HDS-1500RT has a built-in FS, so the HD-SDI return video can be switched without shock.

● **Hand iris / CCU switchable**
● **Support for camera auto iris**
● **Enables supply power to box-type lenses**
● **Also supports serial port**

● **Old fashioned system camera unit**
● **Also supports serial port**

View finder mounting bracket for HDS-1500/HDS-1300

Syscame build-up unit
HDS-1500 price: $8,480

● **Accessories**：Instruction manual/Guarantee

Features ● System build-up unit for box type lens ● Build studio camera system with almost all 2K/4K camera ● Iris control without CCU ● Power supply to box type lens

Specifications ● INPUT/OUTPUT / Box type lens Interface (input) : 36Px1 / Camera Interface (output) : 12P femalex1(NORMAL)/12P femalex1(SERIAL INTERFACE) / SDI CAMERA IN : BNCx1 / SDI RETURN IN : BNCx1 / SDI VF OUT : BNCx1 / TALLY OUT : BNCx1 ● GENERAL / DC POWER : DC 12V(10V-18V) / Size (WxHxD) : 287v327x560 mm / Weight : 8.1 kg ● ACCESSORIES / BNC cable x2 / Camera Screw : 1/4 x2 : 3/8 x2

Syscame build-up unit
HDS-1300 price: $5,480

● **Accessories**：Instruction manual/Guarantee

Features ● System build-up unit for box type lens ● Build studio camera system with almost all 2K/4K camera ● Iris control without CCU ● Power supply to box type lens

Specifications ● INPUT/OUTPUT / Box type lens Interface (input) : 36Px1 / Camera Interface (output) : 12P femalex1(NORMAL)/12P femalex1(SERIAL INTERFACE) / SDI CAMERA IN : BNCx1 / SDI RETURN IN : BNCx1 / SDI VF OUT : BNCx1 / TALLY OUT : BNCx1 ● GENERAL / DC POWER : DC 12V(10V-18V) / Size (WxHxD) : 287v327x560 mm / Weight : 8.1 kg ● ACCESSORIES / BNC cable x2 / Camera Screw : 1/4 x2 : 3/8 x2

View finder mount
HDS-15A price: $798

● **Accessories**：Instruction manual/Guarantee

Features ● View finder mounting plate for HDS-1500

Specifications ● INPUT / HD-SDI IN : BNCx1 / VF IN : 6Px1 / DC POWER input : XLR 4P malex1 : DC 12V(10V-18V) : V-mount x1 for Li-ion battery interface ● OUTPUT / HD-SDI OUT : BNCx1 / TALLY OUT : BNCx1 / DC POWER output : XLR 4P female x1 : CAMTAPx1 : Mini 4Px1 DC 14.1V/DC 8.4V ● FUNCTION / RETURN Switch / Quick Shoe Adaptor : for LCD monitor ● GENERAL / Size (WxHxD) : 287x258x150 mm / Weight : 2.1 kg

Ideal system, operability, and expandability

* STACAM / Build-up unit is a registered trademark of Nippon Video System

Stacam build-up unit

HDS-300S price: **$2,280**

● **Accessories**：Instruction manual/Guarantee

Features ● System build-up unit ● Handheld camera can be easily mounted with ST-10 optional tripod base and adapter set ● Easily attachable to tripod base with ST-2 optional tripod adapter ● Sliding rail to place cables tidy ● Handheld camera can have HD-SDI return with HDF-700SK/800SK/500SK viewfinder and AS-1/A PROZOOM® controller ● Built-in HD-SDI distribution function

Specifications ● INPUT / HD-SDI IN : BNC x1 / VF IN : 6P x1 / DC POWER input : XLR 4P male x1 : DC 12V(10V-18V) : V-mount x1 for Li-ion battery interface ● OUTPUT / HD-SDI OUT : BNC x1 / TALLY OUT : BNC x1 / DC POWER output : XLR 4P female x1 : CAMTAP x1 : Mini 4P x1 DC 14.1V / DC 8.4V ● FUNCTION / RETURN Switch / Quick Shoe Adaptor : for LCD monitor ● GENERAL / Size (WxHxD) : 287x258x507mm / Weight : 5.3 kg ● ACCESSORIES / BNC cable x2 / Camera Screw : 1/4 x2 : 3/8 x2

HDS-300S Designed by HIDETAKE / KENTARO DESIGN PAT. registered No.1483665
BUILD UP UNIT/ STACAM is a resistered trademark of Nippon Video System No.5580595
This build-up unit is a patented product. PAT No.5250146

Easy, fast setting

Not only for studio systems, but also for relay cars and stage shooting. Since the HDS-300S and the camera body can be carried together, it can be mounted on a tripod with a single touch (requires the optional ST-2). A viewfinder (sold separately: HDF-700SK) can be installed and used immediately.
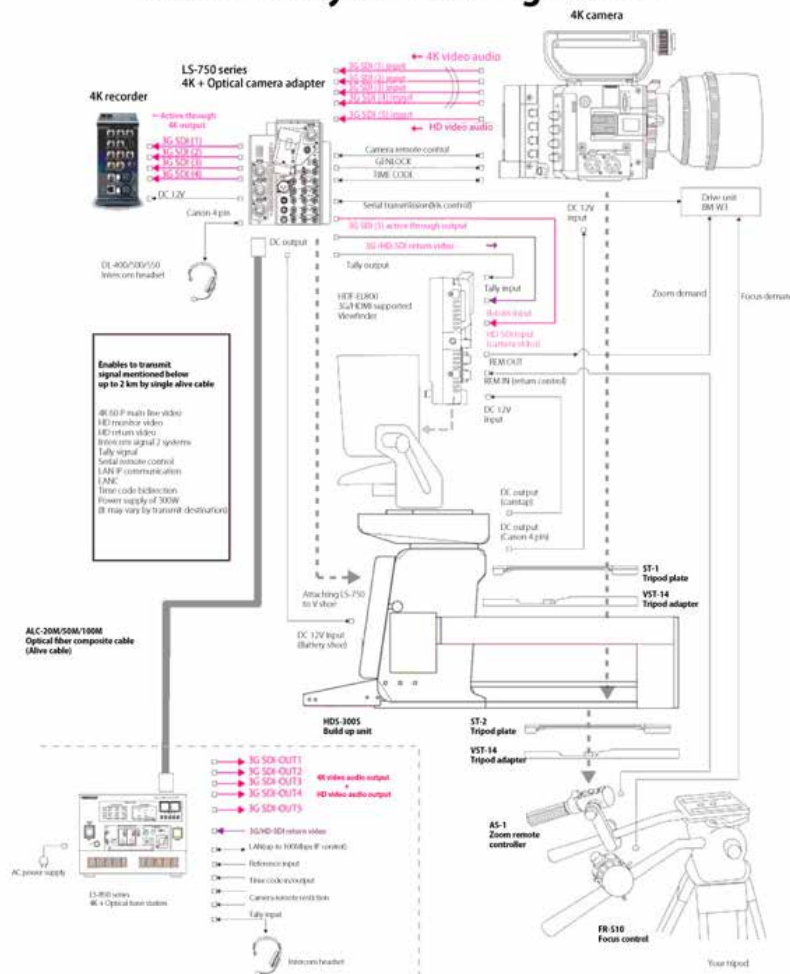
HD-SDI Distrinution function

HD-SDI distribution function is installed inside HDS-300S. Even when the camera has only one HD-SDI output, video signals can be distributed and output for the main line and viewfinder.

4K camera system configuration

Mounting example

Small camera equipped example

Shoulder camera equipped example

Option

Body bottom

Power supply cable

DC-C500
price: **$288**

Power supply cable for Canon C300 / C500.

Quick shoe mounting high-grade seat

QM-2
price: **$80**

Quick shoe mounting seat (high-grade specification). QM-1 quick shoe head is mounted with a single touch.

A creative shoulder system that can be shot according to various situations and is designed for ease of operation and accuracy on the spot.

Shoulder Adapter

ST-7R price:118,000 円

● **Accessories**：Instruction manual/Guarantee

Features ● Shoulder adapter

Specifications ● INPUT/OUTPUT / DC POWER input : XLR 4P male x1 : DC 12V : V-mount x1 for Li-ion battery interface / DC POWER output : XLR 4P female x1 Outputs the input voltage as is : CAMTAP x2 Outputs the input voltage as is : Mini 4P x1 DC 12V DC 8.4V / POWER output 0W maximum / BNC Extension Terminal : BNC-BNC x3 ● GENERAL / JustFit Shoulder Pad / Camera Screw : 1/4" / Size (WxHxD) : 197x246x500mm / Weight : 2.1kg
● ACCESSORIES / Camera Screw : 1/4" x5

Patent: 5957158JP 9759900US

※ Image : Camera is JVC GY-HM650.

One touch fitting

Compatible with PROTECH tripod base VST-14 and Sony VCT-14 / U14.A high-definition small HD camera recorder can be attached to and detached from a tripod adapter just like a shoulder camera. ST-7R has two tripod mounting parts, and in the case of a studio system such as a transmission device, it can be mounted on the tripod base on the back side.

Compatible cameras

<For Canon small cameras>
XF705/XF305/XF300/XF205

<For JVC small cameras>
GY-HC550/50/GY-HM200/GY-HM600/GY-HM650/etc.

<For Panasonic small cameras>
AG-UX180/AG-UX90/AJ-PX270/AG-AC160/AG-HPX250/AG-HPX255/AG-HPX175/AG-HMC155/AG-DVX200/AG-AC130/etc.

<For SONY small cameras>
HXR-NX5R/PXW-Z280/PXW-Z190PXW-X200/PXW-X180/PXW-X160/PMW-200/HVR-Z7J/Z5J/HXR-NX5J/PXW-Z100/etc.

Outstanding balance on shoulder

ST-7R is equipped with a handle as standard. It can be operated like a shoulder camera. You can look directly into almost of camera's viewfinder.

* Photo's camera, lens, battery, etc. are sold separately.

Best class in the field

ST-7R is a high-end model for shoulder adapters that takes the real voice of video cameramen in the field into consideration, such as mobility in the field, the feeling of operation, balance, and grip of the handle.

Qualified and safe battery function

When using a light during operation, a heavy load may be applied for a moment, the camera power supply may decline,and stop momentarily. Equipped with a protection circuit to avoid this, the camera is equipped with a circuit that keeps sending power even if the Canon 4-pin terminal short. Even if the terminal short, it automatically recovers when the power is turned on again.

Equipped CAMTAP outputs

Equipped with cam light output terminal cam tap on the handle and battery holder side. Supports a total output of 50W. Even when a halogen light is turned on the camera's power supply does not deteriorate.

Equipped with light terminal (cam tap)
CAMTAP™

Canon
XF705

JVC Kenwood
GY-HC500

Panasonic
AJ-PX270

Sony
PXW-Z280

Option

Cable for power supply
DC-S160
price: **$ 198**
Cable for supplying power from ST-7R to Sony PXW-X160 / 180.

Cable for power supply
DC-XF
price: **$ 80**
Cable for supplying power from ST-7R to Canon XF205.

Cable for power supply
DC-DVX200
price: **$ 80**
Cable for supplying power from ST-7R to Panasonic AG-DVX200 / AJ-PX270.

Cable for power supply
DC-JVC1
price: **$ 120**
Cable for supplying power from ST-7R to GY-HM600 / 650 manufactured by JVC Kenwood.

Cable for power supply
DC-Z280
price: **$ 80**
Cable for supplying power from ST-7R to Sony PMW-Z280.

Cable for power supply
DC-Z7J
price: **$ 120**
Cable for supplying power from ST-7R to Sony HXR-NX5 / HVR-Z7, etc.

Cable for power supply
DC-CS1
price: **$ 120**
Cable for supplying power from ST-7R to Sony HVR-A1J.

Cable for power supply
DC-XH1
price: **$ 120**
Cable for supplying power from ST-7R to Canon XF305, etc.

Cable for power supply
DC-P175
price: **$ 120**
Cable for supplying power from ST-7R to Panasonic AG-HPX250 / 255/175.

Cable for power supply
DC-P155
price: **$ 120**
Cable for supplying power from ST-7R to Panasonic AG-AC160 / 130.

High cost performance model with basic function of ST-7R

Shoulder Adapter

ST-7RS price: $880

● **Accessories** : Instruction manual/Guarantee

Features ● Shoulder adapter

Specifications ● INPUT/OUTPUT / DC POWER input : XLR 4P male x1 : DC 12V : V-mount x1 for Li-ion battery interface / DC POWER output : XLR 4P female x1 Outputs the input voltage as is : CAMTAP x1 Outputs the input voltage as is : Mini 4P x1 DC 12V DC 8.4V / POWER output : Total 50W maximum / BNC Extension Terminal : BNC-BNC x3 ● GENERAL / JustFit Shoulder Pad / Camera Screw : 1/4" / Size (WxHxD) : 197x246x500mm / Weight : 2.1kg ● ACCESSORY / Camera Screw : 1/4" x5 / Operating Instructions

Patent: 5957158JP   9759900US

Compatible cameras

\<For Canon small cameras\>
XF705/XF305/XF300/XF205

\<For JVC small cameras\>
GY-HC550/50/GY-HM200/GY-HM600/GY-HM650/etc.

\<For Panasonic small cameras\>
AG-UX180/AG-UX90/AJ-PX270/AG-AC160/AG-HPX250/AG-HPX255/AG-HPX175/AG-HMC155/AG-DVX200/AG-AC130/etc.

\<For SONY small cameras\>
HXR-NX5R/PXW-Z280/PXW-Z190PXW-X200/PXW-X180/PXW-X160/PMW-200/HVR-Z7J/Z5J/HXR-NX5J/PXW-Z100/etc.

Robust and best balance

ST-7R uses a robust aluminum die-cast chassis. Developed a new design handle based on ergonomics for traveling. Easy to hold and just fits with hand. You can also look into the camera viewfinder directly. Shoulder belt sold separately can also be installed.

Qualified and safe battery function

When using a light during operation, a heavy load may be applied for a moment, the camera power supply may decline,and stop momentarily. Equipped with a protection circuit to avoid this, the camera is equipped with a circuit that keeps sending power even if the Canon 4-pin terminal short. Even if the terminal short, it automatically recovers when the power is turned on again.

One touch fit

Compatible with PROTECH tripod base VST-14 and Sony VCT-14 / U14.A high-definition small HD camera recorder can be attached to and detached from a tripod adapter just like a shoulder camera. ST-7R has two tripod mounting parts, and in the case of a studio system such as a transmission device, it can be mounted on the tripod base on the back side.

Outstanding balance on shoulder

ST-7R is equipped with a handle as standard. It can be operated like a shoulder camera. You can look directly into almost of camera's viewfinder.

Changeable to system camera style

Optional universal pan head UH-35 can be installed to operate as a studio system. A viewfinder can be attached.

Canon
XF705

JVC Kenwood
GY-HC500

Panasonic
AJ-PX270

Sony
PXW-X160

Option

Cable for power supply
DC-S160
price: **$198**
Cable for supplying power from ST-7RS to Sony PXW-X160 / 180.

Cable for power supply
DC-XF
price: **$80**
Cable for supplying power from ST-7RS to Canon XF205.

Cable for power supply
DC-DVX200
price: **$80**
Cable for supplying power from ST-7RS to Panasonic AG-DVX200 / AJ-PX270.

Cable for power supply
DC-JVC1
price: **$120**
Cable for supplying power from ST-7RS to GY-HM600 / 650 manufactured by JVC Kenwood.

Cable for power supply
DC-Z280
price: **$80**
Cable for supplying power from ST-7RS to Sony PMW-Z280.

Cable for power supply
DC-Z7J
price: **$120**
Cable for supplying power from ST-7RS to Sony HXR-NX5 / HVR-Z7, etc.

Cable for power supply
DC-CS1
price: **$120**
Cable for supplying power from ST-7RS to Sony HVR-A1J.

Cable for power supply
DC-XH1
price: **$120**
Cable for supplying power from ST-7RS to Canon XF305, etc.

Cable for power supply
DC-P175
price: **$120**
Cable for supplying power from ST-7RS to Panasonic AG-HPX250 / 255/175.

Cable for power supply
DC-P155
price: **$120**
Cable for supplying power from ST-7RS to Panasonic AG-AC160 / 130.

Shoulder adapter for high sensitivity NEC camera
ST-7RNEC price: **$1980**

Can be used in combination with Kowa Optical High Sensitivity FULL HD SC200PK1C and LMZ Series Megapixel Zoom Lens for Day and Night.

An amazing ultra-high sensitivity HD camera with a completely renewed dark image

Shoulder Adapter
ST-7RCME20 price: $1,980

● **Accessories** : Instruction manual/Guarantee

Features ● Shoulder adapter for Canon ME20F-SH ● Electronic viewfinder integration

Specifications ● INPUT/OUTPUT / DC POWER input : XLR 4P male x1 : DC 12V : V-mount x1 for Li-ion battery interface / DC POWER output : XLR 4P female x1 Outputs the input voltage as is : CAMTAP x2 Outputs the input voltage as is : Mini 4P x1 DC 12V DC 8.4V / POWER output : Total 50W maximum / BNC Extension Terminal : BNC-BNC x3 ● GENERAL / JustFit Shoulder Pad / Camera Screw : 1/4" / Size (WxHxD) : 174x240x415mm / Weight : 2.4 kg ● ACCESSORIES / Camera Screw : 1/4" x7 / Operating Instruction / DC Cable for camera x1 / DC Cable for VF I/F Box x1 / Camera Screw x7

Support high precision Cannon ME20F-SH camera with outstanding performance. Fittable optical conversion system

This ultra-high sensitivity camera, which surprised the world, is an excellent camera that enables real-time photography of aurora rather than phosphorescent photography under the moonlight. In order to make the most of the features of this camera, it is possible to attach a viewfinder for a shoulder type broadcast, realizing a style like a normal system camera, such as tally, optical transmission, and recorder. Supports recording, relaying, and recording of realistic images that cannot be achieved by phosphorescent cameras even in the darkest places. This is an essential camera system for the press.

Fittable viewfinder for broadcasting

A professional broadcast viewfinder can be installed in front of the shoulder adapter ST-7RCME20 (please contact us for details). Operates like a conventional broadcast camera. You can shoot using the viewfinder functions Bright, Contrast, and Peaking, and you can operate like an ENG camera.

Combination with Optical conversion system

A comfortable relay system can be constructed by combining ST-7RCME20 and the optical conversion system NS series. Powered up to 2km with Alive® cable, compatible with Canon remote control / Protech RM-C2. Iris, etc. can be operated from a remote location. Video signals and signals necessary for audio transmission and relay using a microphone can be transmitted. A super-sensitive camera, which is indispensable for news gathering, can always be deployed on a relay car.

* The camera body may be damaged by the load of the battery or wireless receiver used. Please be careful when using it. Canon CN7 (The lens in the photo is recommended by the lens manufacturer to use a rod. The above photographic system is an image. This adapter cannot be attached to large lenses.

* Photo's camera, lens, battery, etc. are sold separately.

Option

Pro studio remote control
RM-C2 price: $798
● **Accessories** : Camera connection cable（1m）× 2/ Instruction manual/Guarantee(Tripod mounting bracket is sold separetely）
Arrange assign buttons. White balance, menu settings, filter switching control, etc. are possible from a remote location.

PROTECH pro strap
NPS-1 price: $88
● **Accessories** : Connection cable for small camera/8Pcable/ Instruction manual/（* Some cameras cannot be installed. Load capacity 12Kg）
Professional strap for integrated camera recorders, field mixers, etc. Detachable with one touch.

Tripod base
VST-14 price: $100

Tripod base

Make the handy camera a simple studio camera

Build-up unit for small camera
HDS-7STUDIO price: $880

● **Accessories** : Instruction manual/Guarantee

Features ● Build up units for handheld camera

Specifications ● INPUT/OUTPUT / DC POWER input : DC 12V IN XLR 4P male x1 : V-mount x1 for Li-ion battery interface / DC POWER output : XLR 4P female x1 Input Voltage : CAMTAP x1 Input Voltage : Mini 4P x1 DC 12V/DC 8.4V / Power Output : maximum 50W / BNC Joint Connector : BNC-BNC x3 ● GENERAL / Camera Screw : 1/4 x1 / Accessory Shoe : for Quick Shoe / Size (WxHxD) : 197x246x500 mm / Weight : 1.5 kg ● ACCESSORIES / DC Cable x1

* The camera body may be damaged by the load of the battery or wireless receiver used. Please be careful when using it. Mount the viewfinder HDF-EL800 / 700/500 etc. on the UH-35 free pan head as shown in the photo. The SK-50 can be used with the UH-35.

Legendary amazing should adapter

Design Patent
PAT No,1355082

Shoulder adapter
ST-7 price: $680
● **Accessories** : Instruction manual/Guarantee

Features ● Shoulder adapter for Sony PMW-EX3

Specifications ● INPUT/OUTPUT / DC POWER input : XLR 4P malex1 : DC 12V : V-mount x1 for Li-ion battery interface / DC POWER output : XLR 4P female x1 Outputs the input voltage as is : Mini 4Px1 DC 12V DC 8.4V / POWER output : 50W maximum / BNC Extension Terminal : BNC-BNC x3 ● GENERAL / JustFit Shoulder Pad / Camera Screw : 1/4" / Size (WxHxD) : 104x170x449 mm / Weight : 1.2 kg ● ACCESSORIES / Camera Screwx2

Designed for Sony PMW-EX3 camcorder

This is an ideal shoulder adapter designed exclusively for the comfort of shoulder mounting of Sony's PMW-EX3 equipped with functions such as Genlock / TC input, remote control, and interchangeable lens.
In addition, it can be used by attaching to a small camera with a special shape that ST-7J cannot be attached to.

Shoulder adapter
ST-7S300 price: $1,180
● **Accessories** : DC power connection cable/Instruction manual/Guarantee

Features ● Shoulder adapter for Sony PMW-300

Specifications ● INPUT/OUTPUT / DC POWER input : XLR 4P male x1 : DC 12V : V-mount x1 for Li-ion battery interface / DC POWER output : XLR 4P female x1 Outputs the input voltage as is : CAMTAP x1 Outputs the input voltage as is : Mini 4P x1 DC 12V DC 8.4V / POWER output : Total 50W maximum / BNC Extension Terminal : BNC-BNC x3 ● GENERAL / JustFit Shoulder Pad / Camera Screw : 1/4" / Size (WxHxD) : 110x239x349mm / Weight : 1.45 kg ● ACCESSORIES / Camera Screw : 1/4" x5

* The camera body may be damaged by the load of the battery or wireless receiver used. Please be careful when using it.

Outstanding balance on shoulder

The shoulder mount pad, which is very popular in the ST-7 series, is placed in a position that provides the best balance when shooting on the shoulder. Combining with the PMW-300's unique viewfinder variable mechanism, the shoulder camcorder achieves an extremely comfortable camera work due to its excellent weight balance that is comparable to that of a shoulder camcorder.

Designed for Sony PMW-EX3 cam coder

This is an ideal shoulder adapter designed to further enhance the appeal of Sony's PMW-300 equipped with genlock / TC input, remote control, interchangeable lens functions, and more.

No.1 shoulder adapter in domestic sales

*Our reserch

Design Patent
PAT. No.1355082

Shoulder adapter for SONY small camera
ST-7JS price: $880

● **Accessories**：Instruction manual/Guarantee

Compatible camera
Compatible with Sony camera including PXW-X200/
PXW-X180/PXW-X160/PMW-200/HVR-Z7J/Z5J/
HXR-NX5J/PXW-Z100

Shoulder adapter for Panasonic small camera
ST-7JP price: $880

● **Accessories**：Instruction manual/Guarantee

Compatible camera
Compatible with Panasonic camera including AJ-PX270/
AG-AC160/AG-HPX250/AG-HPX255/AG-HPX175/AG-
HMC155/AG-DVX200/AG-AC130

Shoulder adapter for Canon small camera
ST-7JC price: $880

● **Accessories**：Instruction manual/Guarantee

Compatible camera
Compatible with Panasonic camera including XF305/
XF300

Shoulder adapter for JVC Kenwood small camera
ST-7JV price: $880

● **Accessories**：Instruction manual/Guarantee

Compatible camera
Compatible with JVC camera including GY-HM200/GY-
HM600/GY-HM650

Features ● Shoulder adapter ● Sony lithium ion battery is directly attachable ● Attachable to VST-14, Sony VCT-14/U14 tripod base ● Equipped handle

Specifications ● INPUT/OUTPUT / DC POWER input : XLR 4P male x1 : DC 12V : V-mount x1 for Li-ion battery interface / DC POWER output : XLR 4P female x1 Outputs the input voltage as is ： Mini 4P x1 DC 12V DC 8.4V / POWER output : 50W maximum / BNC Extension Terminal : BNC-BNC x3 ●GENERAL / JustFit Shoulder Pad / Camera Screw : 1/4" / Size (WxHxD) : 153x240x449mm / Weight : 1.5 kg ● ACCESSORIES / Camera Screw x2

* The camera body may be damaged by the load of the battery or wireless receiver used. Please be careful when using it.

One-touch installation

Compatible with PROTECH tripod base VST-14 and Sony VCT-14 / U14.A high-definition small HD camera recorder can be attached to and detached from a tripod adapter just like a shoulder camera.

Build-in commercial lithium-ion battery

A Sony lithium-ion battery can be directly attached to the rear of the shoulder adapter ST-7J. By using an optional power cable, it is possible to supply power to the camera recorder. The side panel is equipped with a DC-out that can supply power for lights, monitors, etc.

Equipped with video relay terminal

Some small camera recorders have dedicated terminals. By using a conversion cable and connecting to the BNC relay connector on the side panel of ST-7J, it is possible to detach the BNC cable like a shoulder camera.

Outstanding balance on shoulder

ST-7J series are equipped with a handle as standard. It can be operated like a shoulder camera. You can look directly into almost of camera's viewfinder.

※写真はソニー社製 PXW-Z100 との組み合わせです。

Canon
XF305
ST-7JC

JVC Kenwood
GY-HC500
ST-7JV

Panasonic
AG-AC160A
ST-7JP

Sony
PMW-200
ST-7JS

Option

Cable for power supply
DC-S160
price: **$198**
Cable for supplying power from ST-7J to Sony PXW-X160 / 180.

Cable for power supply
DC-XF
price: **$80**
Cable for supplying power from ST-7J to Canon XF205.

Cable for power supply
DC-DVX200
price: **$80**
Cable for supplying power from ST-7J to Panasonic AG-DVX200 / AJ-PX270.

Cable for power supply
DC-JVC1
price: **$120**
Cable for supplying power from ST-7J to GY-HM600 / 650 manufactured by JVC Kenwood.

Cable for power supply
DC-Z280
price: **$80**
Cable for supplying power from ST-7J to Sony PMW-Z280.

Cable for power supply
DC-Z7J
price: **$120**
Cable for supplying power from ST-7J to Sony HXR-NX5 / HVR-Z7, etc.

Cable for power supply
DC-CS1
price: **$120**
Cable for supplying power from ST-7J to Sony HVR-A1J.

Cable for power supply
DC-XH1
price: **$120**
Cable for supplying power from ST-7J to Canon XF305, etc.

Cable for power supply
DC-P175
price: **$120**
Cable for supplying power from ST-7J to Panasonic AG-HPX250 / 255/175.

Cable for power supply
DC-P155
price: **$120**
Cable for supplying power from ST-7J to Panasonic AG-AC160 / 130.

ST-7/7J
Balance slide plate
STF-7
price: **$198**

A bracket to make it easier to balance ST-7 / 7J when mounted on a tripod.

* Installation image
The tripod in the photo is sold separately.

PROTECH pro strap
NPS-1
price: **$88**

Pro strap. Detachable with one touch.

PROTECH's new concept changed the history of small camera photography

Design Patent
PAT. No.1222575

Tripod adapter plate

ST-1 price: **$188**

● **Accessories**：Camera screw/Instruction manual

Features ● Tripod adapter plate

Specifications ● GENERAL / Size (WxHxD) : 65x15x246mm / Weight : 138 g ● ACCESSORIES / Camera Screw x1

Wearable SONY tripod base VCT-14/U14

A high-resolution new-generation camera recorder can be attached to and detached from a tripod base just like a shoulder-type camera recorder. Back up the high-quality EX camcorder as much as possible.

Option

Tripod base
VST-14
price: **$200**

Set of ST-1 and tripod base VST-14
ST-10
price: **$379**

Wearing example

Panasonic AG-AC160A   JVC Kenwood GY-HM650   Canon XF305   Sony NEX-FS700JK

Always installed HDD

HDD mounting bracket set
ST-1V price: **$238**
● **Accessories**：Camera screw/Instruction manual

Specifications ● Size : about 122W×18H×246Dmm ● Weight：about 179g

HDD mounting bracket set
ST-1Z price: **$238**
● **Accessories**：Camera screw/Instruction manual

Specifications ● Size : about 125W×18H×246Dmm ● Weight：about 170g

Tripod-based sharing

Tripod base adapter
SI-390 price: **$248**
● **Accessories**：Camera screw/Instruction manual

Features ● Bracket for adapting the tripod mounting part of the Ikegami Tsushinki cameras HC-210 / 340/390/400 / HL-D45 / DV5 / DV7 to the Sony tripod base VCT-14 / U14.

* Note: This product can be installed by sending the camera to our company. Please use within your own responsibility for installation and use. Please note that we are not liable for camera drop or any other responsibility.

Named POLE JIB™　Patented

Active in various places such as small camera installation operation, LED light installation operation, sound collection microphone installation operation.

POLEJIB™ crane
POLEJIB price: **$11,980**

● Set　JIB × 1 /Pan head stay × 1 /3kg Weight × 1 /Tripod boom bracket × 1　150 Φ Tripod, Weight　Body aluminum carrying case, tripod soft carrying case ● Accessories：Instruction manual/ Guarantee
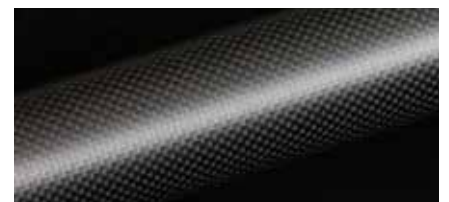
The pole is made of solid carbon

Consists of 1.5M x 4 pieces, convenient for carrying around. Operation with a shorter length is also possible. Using reliable Japanese carbon, lightweight and highly durable.

Tripod is stable at Φ150

The tripod is a stable tripod with Φ 150. Stable operation is possible due to the high load capacity tripod. A mechanism that reduces the twist during panning is also used.

Camera/light/sound collecting mic can be installed up to 6M ahead

This is the birth of a pole jib that does not require a large crane, has a short set-up, and is small and lightweight. The crane part has a new mechanism (patented) that attaches the sub-jib to the main jib. A battery can also be attached to the jib body (patented)

Comparison photo of Φ 150 and Φ 100 legs
Φ 150 is a robust design.
Equipped with a leg mounting prevention mechanism that resists twisting.

The best masterpiece of small JIB crane

「MR-J133/A」 series

Easy JIB crane
MR-J133/AF price: **$10,980**

Easy JIB crane
MR-J133/AC price: **$6,980**

Easy JIB crane
MR-J133/A price: **$5,980**

*See the table on the right for set contents

MR-J133/A series

Specifications ● System Components / JIB x1 : 13kg / Weight (3kg) x1 : 3kg / UN-513 Pan Head Stay x1 : 1.6kg / STG-5 Tripod Jib Bracket x1 : 3.2kg / Size (WxHxD) : 60x120x1460mm

Good for using it in a small room

Traditionally, crane systems of other companies' products are difficult to move and install. Easy to install and move because it has been devised to capture conversations, dramas and movies even in a small room. It can be installed if the radius is about 95cm (at the time of a little jib).

Set content	MR-J133/A	MR-J133/AC	MR-J133/AF
JIB	●	●	●
Head platform stay (UN-513)	●	●	●
Tripod boom bracket (STG-5)	●	●	●
3kg weight x2	●	●	●
Weight mounting bar	●	●	●
25kg weight plate	-	-	●
150φ tripod (ACE-J150)	-	-	●
150φ head adapter (MR-H150)	-	-	●
Aluminum case (SC-SJ133)	-	●	●
Soft carrying case (SC-133)	●	-	-
Tripod soft carrying case (SC-ACE)	-	-	●
UN513/STG-5 Storage case (SC-J134)	-	-	●

Mountable from small handy cameras to heavyweight cameras. Easy to move with a small car.

ULTRA JIB™ "CHOI JIB"™

The small jib crane ULTRA JIB nicknamed "CHOI JIB ™" MR-J133 is now available. We play an active part in various scenes such as movie shooting, drama shooting, video production. When professionals in the field get "CHOI JIB ™", you can see the evolution. Although it can be styled using the heavy balance weight that has been annoying in the past, simple assembly by one adult has been realized, such as wanting to shoot a little crane scene or simply taking a crane scene indoors. Lightweight equipment can be installed from small cameras to professional cameras for movies. It's a revolution in jib cranes.

Stable continuous motion

JIB motion "smooth and stationary" affects the ease of use of the crane and the accuracy of the photographer's subject frame tracking, and greatly affects the ease of moving objects in continuous operation shooting. CHOI JIB is equipped with a newly developed high-mechanical high-precision drive mechanism. Image blurring has been reduced by significantly reducing backlash at rest. As a result, the crane operation during continuous shooting is stable, and it is surprisingly easy to achieve professional crane shooting that could not be done with a fixed tripod.

No need to worry about pinching your hand between the jib and sub arm

Small jib crane usually consists of main jib and sub-arm (PAT). MR-J133 has succeeded in developing a crane with the highest level of flexibility in this class, with the challenge of how to eliminate crane safety and deflection.

Aluminum chassis
Realize optimal balance

Uses a solid aluminum chassis. Ensuring sufficient strength. By adopting a frame structure that can withstand more than 500 kg, the jib alone will not bend even with a camera equipped with heavy movie shooting equipment. Also invented the world's first mechanism for easily moving the jib fulcrum (PAT.P). It incorporates the conventional style shooting with a heavy weight that secures the arm stroke and the newly-developed little jib ™ technology that moves the fulcrum with almost no weight.

Easy to mount on taxies/ cars

CHOI JIB, which can be equipped with a movie camera / ENG shoulder camera / small camera, and is easy to move and install, can be moved more easily with over 25 years of on-site photographer experience, and has a heavy weight of 25kg or 30kg. It was developed based on the idea of how to solve the problem. The time to use the crane scene is 5 to 10 seconds on average, paying attention to this, up to now we have been able to move more than 120 cm up and down with heavy weights, but in the end we are using it pay attention to the fact that there are many shootings that can be narrow. By inventing a crane that can handle both shooting when there is a stroke, the fulcrum is moved and assembled to the camera side when using a small room or when you want to use a little crane. By assembling the fulcrum more apart, the style using the conventional heavy weight is also realized. Since it is possible to go to the shoot without using large equipment, it can be moved by a small number of people, and it has been reduced in weight so that it can also be moved by taxi or light car.

Operation using conventional heavy weight is also possible.

Stainless steel
Manufactured with high precision cutting technology

In order to increase the accuracy to the limit, the NC machine that manufactures dies, etc., is machined from solid materials with one part. The internal mechanism of the housing is a collection of high mechanisms that make full use of stainless steel cutting.

All major parts are equipped with bearings.

Smooth, quiet, strong, easy to operate, the appearance of professional specifications, the drive unit that was developed to meet all of them is equipped with eight high-precision Japanese-made bearings that are world-class. We spend not only technology but also raw material costs.

Up/down and left/right torque can be adjusted

In order to respond to various scenes, a stepless torque adjustment function is installed in the vertical and rotational directions of the crane.

Can be used on various tripods

ULTRA JIB is a small and lightweight design. In addition to dedicated tripods sold separately, short fulcrum installations that require almost no weight, the total of the video camera and crane is around 25 kg, so 100 mm type tripods can be installed on most tripod manufacturers. (It can be used depending on the load resistance and type of the tripod. Use within the load resistance of the tripod. Use the tripod on the first stage.)

φ 150 tripod

Tripod φ150 for MR-J133	Tripod case for ACE-J150	Crane case for MR-J133	UN513/STG-5 case	Aluminum case for MR-J133	Pan head adapter for MR-J133 φ150
ACE-J150	**SC-ACE**	**SC-J133**	**SC-J134**	**SC-SJ133**	**MR-H150**
price: $3,180	price: $390	price: $390	price: $380	price: $1,250	price: $1,480
● Accessories : Instruction manual/Guarantee	● Set Case × 1 (for ACE-J133)	● Set Case × 1	● Set Case × 1	● Set Case × 1 (for MR-J133)	● Set body × 1 1/4 Screw × 2

Short type 「MR-J133S/A」 series

Easy JIB crane short type full set

BTO

MR-J133S/AF price: **$9,680**

Easy JIB crane short type with aluminum case

BTO

MR-J133S/AC price: **$5,680**

Easy JIB crane short type

BTO

MR-J133S/A price: **$4,680**

*See the table on the right for set contents

MR-J133S/A series

Specifications ● System Components / Jib x1 : 13kg / Weight (3 kg) x1 : 3kg / UN-513 Pan Head Stay x1 : 1.6kg / STG-5 Tripod Jib Bracket x1 : 3.2kg / Size (WxHxD) : 60x120x1460mm

● Set   JIB × 1 /Pan head stay × 1 /3kg Weight × 1 /Tripod/Tripod boom bracket × 1 / 25Kg Weight
● Accessories：Instruction manual/Guarantee

MRJ-133（standard type）

MRJ-133S（Short type）

Set content		MR-J133/A	MR-J133/AC	MR-J133/AF
JIB		●	●	●
Head platform stay (UN-513)		●	●	●
Tripod boom bracket (STG-5)		●	●	●
3kg weight x2		●	●	●
Weight mounting bar		●	●	●
25kg weight plate		-	-	●
150φ tripod (ACE-J150)		-	-	●
150φ head adapter (MR-H150)		-	-	●
Aluminum case (SC-SJ133)		-	●	●
Tripod soft carrying case (SC-ACE)		-	-	●
UN513/STG-5 Storage case (SC-J134)		-	-	●

MR-J133S crane aluminum case
SC-SJ133S price: **$1,250**

UN513/STG-5 case
SC-J134 price: **$380**

DC power splitter.
Mobile charging with V-mount battery

DC power splitter

WAKE-1 price: **$498**

● **Accessories** : Instruction manual/Guarantee

Features ● DC power splitter ● USB terminals (5V) x 4 ● 8.4V output x 3

Specifications ● INPUT / DC POWER input : V-mount x1 for V-mount Li-ion battery pack : XLR 4P malex1 : DC 14.4V(12V-18V) ● OUTPUT / DC POWER output : V-mount x1 DC 14.4V for camera : XLR 4P female x2 DC 14.4V 2.5A each Outputs input battery voltage as is : CAMTAP x1 DC 14.4V 2.5A each Outputs input battery voltage as is : Mini 4P x3 DC 14.4V 2.5A(battery voltage) each / DC 8.4V 2A(regulated, with overcurrent protection) each : USB A typefemalex2 x2 DC 5V 2A each (regulated, with overcurrent protection) / DC POWER Output Capacity : Total output power cannot exceed the output ability of the battery. ● GENERAL / Size (WxHxD) : 92x138x44mm / Weight : 350 g

Very useful

By attaching a V-mount battery, it is possible to distribute and output power as follows.
(1) XLR-4 Canon 4P: 12V output x2
(2) Mini 4P: 12V / 8.4V output x 3
(3) Cam tap: 12V output x 1
(4) USB: 5V output x 4
Mini 4P 8.4V output is independent of 3 systems
Built-in DC-DC converter.

Drives 3 small cameras

Equipped with 3 outputs of 8.4V system, it is possible to drive 3 devices at the same time, such as Sony small camera, Panasonic small camera, and memory recorder. In addition, the USB terminal allows you to drive multiple cameras while charging your phone.

Indicator panel   Connector panel
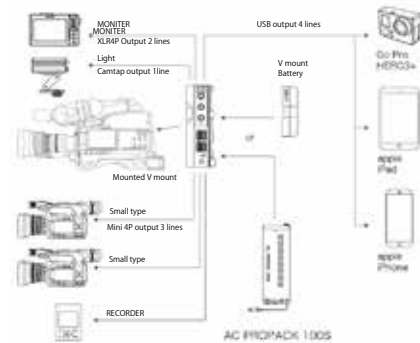
Option

Cable for power supply
DC-NEX3L
price: **$ 100**
Cable to supply power from WAKE-1 to Sony PMW-EX1 / EX3 / 200, etc. 1.8m

Cable for power supply
DC-NP175L
price: **$ 150**
Cable to supply power from WAKE-1 to Panasonic AG-HPX255. 1.8m

Cable for power supply
DC-NZ7JL
price: **$ 150**
Cable for supplying power from WAKE-1 to Sony P Sony HXR-NX5 / HVR-Z7, etc. 1.8m

Cable for power supply
DC-NP155L
price: **$ 150**
Cable to supply power from WAKE-1 to Panasonic AG-AC160. 1.8m

Simultaneous power output
from 4 types of connectors

Uninterruptible power system

UPS-10 price: **$498**

● **Accessories** : Instruction manual/Guarantee

Features ● UPS unit ● Power back up function with V-mount battery

* When using UPS-10, be sure to check the operation during setup. Depending on the connected AC power supply, it may not work properly. In addition, depending on the connected device, the voltage of the AC power supply and battery is different at the time of switching, so there are rarely devices that can not cope with the change. Such devices cannot be used with this product. Be sure to test before production. We cannot compensate for any damage caused by using this equipment. Please note.

Specifications ● INPUT / DC Input voltage : DC 15V (12 - 18V) / MAIN DC IN Interface : DC 15V IN XLR 4P male x1 for connection to AC adaptor / BACKUP DC IN Interface : V-mount x1 for Li-ion battery interface : BACKUP IN XLR 4P male x1 for connection to AC adaptor ● OUTPUT / DC POWER output : DC 13.6V 8A Max. : DC 8.4V 2A Max. (Regulated) with output overcurrent protective circuit / DC POWER OUT Interface : V-mount x1 DC 13.6V : XLR 4P female x1 DC 13.6V : CAMTAP x1 DC 13.6V : Mini 4P x1 DC 13.6V / DC 8.4V ● GENERAL / Size (WxHxD) : 92x138x44mm / Weight : 350g

UPS-10 Indicator panel   UPS-10 Connector panel

Protect cameras, VTRs, etc. from unexpected power outages

Protects the recording camera and VTR from power failure. Easy power backup with V-mount battery. By installing your V-mount type battery, you can complete the setup by simply connecting the AC power supply AC PROPACK 100S to the camera and VTR. Protects recordings from unexpected power outages. Memory card type recorders can be avoided by using UPS-10 because it takes time to recover and start recording after a power failure.

Renewed Deferred type AC power supply

Stationary AC adapter
ACPROPACK100S price: $348

● **Accessories** : Instruction manual/Guarantee

Features ● Stationary AC adapter ● Max. 100W with 2 x XLR 4-pin outputs ● Input/output filter eliminates external noise ● Overcurrent circuit protection with auto recovery system ● Service outlet; AC power output

Specifications ● INPUT / AC : AC 85V - 265V (50Hz/60Hz) ● OUTPUT / DC : DC12V(15V) 100W : XLR 4P female x2 / AC POWER output : AC 85V - 265V (50Hz/60Hz) : Input voltage through out ● GENERAL / Size (WxHxD) : 91x40x263 mm / Weight : 800 g

Capable of high output of 100W in total

Equipped with two XLR 4-pin outputs for a total output of 100W. Compatible with AC85V to 265V power supplies that are compatible worldwide. External noise is removed by incorporating an input / output filter. Equipped with an automatic reset protection circuit in case of overcurrent. Equipped with one service outlet.

15W compact AC power supply

AC-M15 price: $70
● **Accessories** : AC cable

Features ● 15W compact AC adapter

Specifications ● INPUT / AC : AC 100V - 240V (50Hz/60Hz) ● OUTPUT / DC : DC12V 15W : XLR 4P female x1 ● GENERAL / Size (WxHxD) : 34x71x56 mm / Weight : 200 g

30W compact AC power supply

AC-M30 price: $98
● **Accessories** : AC cable

Features ● 30W compact AC adapter

Specifications ● INPUT / AC : AC 100V - 240V (50Hz - 60Hz) ● OUTPUT / DC : DC 12V 30W : XLR 4P female x1 ● ACCESSORIES / AC Cable

60W compact AC power supply

AC-M60 price: $128
● **Accessories** : AC cable

Features ● 60W compact AC adapter

Specifications ● INPUT / AC : AC 100V - 240V (50Hz/60Hz) ● OUTPUT / DC : DC 12V 60W : XLR 4P female x1 ● ACCESSORIES / AC Cable

XLR4 pin power cable 3m
DC-C40M3
price: $ 50

Cable for supplying DC power from AC power. 3m.

XLR4 pin power cable 5m
DC-C40M5
price: $ 55

Cable for supplying DC power from AC power. 5m.

Desktop Adapter for Panasonic FZ-Y1CH

V mount battery / Cannon 4P input supported

V mount battery Cannon 4P input compatibleDesktop adapter
PBU-L2 price: $698
● **Accessories** : Instruction manual/Guarantee

Features ● V-mount battery desktop adapter ● Support Canon 4-pin input
Specifications ● INPUT / DC POWER input : V-mount x1 for V-mount Li-ion battery pack : XLR 4P male x1 / DC POWER output : φ 5.5- φ 2.5 Connector : CAMTAPx1 ● GENERAL / Size (WxHxD) : 160x277x146 mm / Weight : 1.35 kg

V-mount battery can be installed directly. Cannon 4P input equipment. Realize long-term operation on site. You can operate while charging the main unit battery.

Good for desktop use

Compact, lightweight and robust design. Equipped with a carrying handle. The main unit can be removed from the cradle equipped with the PBU-L2, so it can be used instantly as a portable tablet.

Medium universal pan head

UH-35 price: $70

● **Accessories**：1/4 inch double screw adapter/ Instruction manual

Structure that the maximum angle does not fall over 45 ° even if the lock is loosened. Load capacity is about 2kg, 9 inch class monitor can be installed, and 1/4 inch double screw adapter is included. Can be mounted on the head of a camera recorder. (Only for cameras with 1 / 4-inch taps)

Features ● Monitor attachment ● Up to 2000g Specifications ● GENERAL / Size : φ 35 x H 63 mm / Weight : 150g ● ACCESSORIES / 1/4 male -1/4 male Screw Adapter : φ 38 x H 7 mm 20 g

Small universal pan head

UH-25 price: $60

● **Accessories**：1/4 inch double screw adapter/ Instruction manual

Load capacity is about 700g, 1/4 inch double screw adapter included. Can be mounted on the head of a camera recorder. (Only for cameras with 1 / 4-inch taps)

Features ● Monitor atttachment ● Up to 700g Specifications ● GENERAL / Size : φ 30 x H50 mm / Weight : 70g ● ACCESSORIES / 1/4 male -1/4 male Screw Adapter : φ 38 x H7 mm 20 g

Quick shoe mounting luxury seat set Broadcast specification

QM-55 price: $198

● **Accessories**：Instruction manual

The studio viewfinder and monitor can be attached and detached with a single touch.

Quick shoe mounting seat
QM-5
price: $158

Quick shoe set QM-55 mounting seat only.

Quick shoe set
QM-1 price: $65
Features ● Quick shoe base set

QM-3

Head

Head mounting attachment

Quick shoe mounting high-grade seat
QM-2 price: $80
Features ● Quick shoe base

Bottom

Quick shoe mounting seat
QM-3 price: $18
Features ● Quick shoe base

Bottom

Quick shoe mounting high-grade seat
QM-4 price: $138
Features ● Quick shoe base set

Bottom

Head

Head mounting attachment
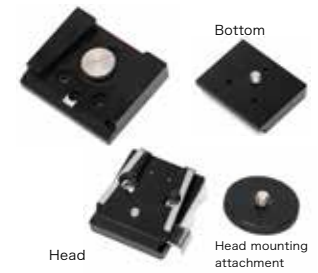
Sony hard disk recorder HVR-DR60

HDD adapter

HC-1 price: $348

● **Accessories**：Instruction manual/Guarantee

An adapter for mounting the HVR-DR60 manufactured by Sony Corporation on the side of the camera V mount on the ENG camera.

Sony「HVR-MRC1/MRC1K」

HDD adapter

HC-2 price: $348

● **Accessories**：Instruction manual/Guarantee

This is an adapter for mounting the HVR-MRC1 / MRC1K manufactured by Sony Corporation on the side of the camera V mount on the ENG camera.

Pan head warmer

HW-100 price: $88

● **Accessories**：Instruction manual/Guarantee

● It is possible to insert a warmer when shooting in cold places.
● Protects the pan head from dust even in places with a lot of dust, such as athletic meet.
● Light rain can be used with water repellent finish.
● Tripod foot protection boots included for indoor use. (Mid spreader only)

Lens supporter for small box camera

Lens supporter

STF-70 price: $1280

● Accessories：Instruction manual/Guarantee

Soft carrying case for handy camera

SC-500 price: $178

● Size : about 500W ×280 H ×240D mm

Features ● Soft carrying case for handheld camera

Recommended models

Panasonic	AG-AC130A/AG-AC160A/ AG-AC250/AG-AC255/ AG-AC90A /AG-AC90/etc. AG-AC90 with mic
Canon	XF305/XF300 etc.
JVC Kenwood	GY-HMQ10 etc.
Sony	PXW-X200/PXW-Z100/ PMW-300/PMW-200/ PMW-EX1R EX-3 etc.

Soft carrying case for handy camera

SC-400 price: $148

● Size : about 420 W × 240 H ×220 D mm

Features ● Soft carrying case for handheld camera

Recommended models

Panasonic	AG-AC90A AG-AC90 etc.
Canon	XF25/XA25/XA20/XF105 etc.
JVC Kenwood	GY-HM600/GY-HM650 etc.
Sony	PXW-X160/PXW-X180 HXR-NX3/HVR-Z5J HVR-NX-5/PMW-160 PMW-200/HVR-Z7J HVR-VIJ/HXR-NX70J DEV-5K/DEV-3 etc.

* Photo camera, microphone, etc. are sold separately.

Recording the desired sound

Wind jammer (normal)
UTS-N1

UTS-N1

Wind jammer (leopard)
UTS-H10

each price: $60
● Accessories : Instruction manual/Guarantee

UTS-H10

Significant reduction of wind noise

Wind jammers are great for outdoor shooting. There are normal type UTS-N1 and stylish leopard print design UTS-H10. Blowing sound is greatly reduced.

Specifications ● Size : about 40W×40H×130Dmm ● Weight : about 20g

* Photo's camera, microphone, etc. are sold separately.

Attach a small camera to the helmet
Sony HXR-MC1 support
HA-50S

Panasonic AG-HMR10 +AG-HCK10 support
HA-50P

* The helmet is sold separately.

price: $198
● Accessories : Instruction manual/ Guarantee

Specifications ● One touch ● Size : about 70W× 76H×90Dmm ● Weight : about 280g

* Some helmets cannot be worn. Up to 10mm thickness of helmet that can be worn.

Mounting bracket

Bracket for mounting Sony CBK-DL1 on Sony PXW-Z280 / PXW-Z190 / PXW-X200 cameras

Mounting bracket for Sony camera
WIB-Z280 price: $80
● **Accessories** : Instruction manual

This photo is when the camera is installed. The photo shows a combination of Sony camera PXW-280 / Sony USB mounting adapter CBK-DL1, a telephone company USB terminal, and WIB-Z280.

Screen protector

Screen protector of Sony BVM-E171

High quality screen protector for Sony BVM-E171
PT-E171 price: $880
● **Accessories** : Mounting screw/Instruction manual/Guarantee

A double-sided AR coating with a reflective surface and a water-repellent coating only on the surface. Secure with the side screws

Camera remote control for Canon drone

Camera remote control for Canon USB drone
RM-CD1 price: $188
● **Accessories** : Mounting screw/Instruction manual/Guarantee
* The drone and propeller are sold separately.

New camera bag made by PROTECH

Tough case
NIPROS-7 price: $348

Camera bag made with carefully selected materials

The feature of NIPROS-7 made by PROTECH is its robustness. We planned from materials and selected the lightest and most robust material from many types. Compared to conventional soft cases, you will surprise its robust body. In addition, you will surprise at the lightness compared to the conventional hard case. We have the most confidence in the camera bags that have been distributed so far.
Made of carefully selected materials, NIPROS-7 is not only made of materials, but also well-sewn. A camera bag that is built toughness that won't break with a little bit of care will protect your important camera. It can be used as a long-term partner for customers.

Clear pocket

The main feature of NIPROS-7 is the clear pocket on the front, side and top.
The clear pocket on the top has a large frontage and can hold postcard-sized cards. It is also the perfect size for posting invoices when sending equipment by courier.
Clear pockets on the front and side are the size that a business card size card can fit. If you insert your business card into each of them, you will be able to see your equipment at a glance when you move. It may also be suitable for recognizing which equipment is in which bag, with a card that shows the name of the equipment inside.

Convenient mesh pocket

NIPROS-7 has mesh pockets on the top, front and sides. The contents can be seen through the mesh, making it ideal for storing small objects. Because the mesh is fine, it is safe to store small objects. Of course, the mesh pocket is also made rugged.

Adjust width with divider

The problem with camera bags is that the contents you put in are out of size and move inside the camera bag. If the contents move in the camera bag, it may lead to the worst damage. NIPROS-7 comes with dividers that adjust the width and length. Parts that adjust the width can be easily narrowed with Velcro. In addition, the parts themselves can be used as a cable storage case, greatly improving convenience. The length-adjusting part is a rectangular parallelepiped cushion that safely protects both ends of the contents of the camera bag.

Can be brought into the aircraft

NIPROS 7 is made in the largest size that can be brought into the aircraft, so it can be brought into the aircraft. It is possible to move important cameras, computers, etc. by air shipping.

Excellent compatibility with PROTECH optical fiber transmission equipment

In addition to storing the camera, the NIPROS-7 is also useful for storing PROTECH optical fiber transmission equipment. The size of the base station and the optical fiber adapter neatly fit, making it ideal for carrying optical fiber transmission equipment anywhere and anytime. By inserting a part that adjusts the length, the base station and the optical fiber adapter will not be damaged.

Analog audio direct interrupt to SDI.

Audio embededder

F-1 price: $1,480
● **Accessories**：Instruction manual/Guarantee

Features ● Audio embededder with 4 channels ● LED meter ● HD-SDI input ● 2 HD-SDI outputs ● Directly attachable to V-mount adapter ● Hyper limiter ● Operation indicator ● 12V DC input ● 12V DC output ● Delay adjust ● Audio bar-meter ● Microphone/line input ● Channel select to embed audio ● Embed audio up to 16 channels with 4 units

Specifications ● INPUT / SDI : BNC x1 3G/HD/SD / AUDIO : XLR 3P female x4CH / AUDIO Input Level : 4dB/-20dB/-60dB / Phantom microphone P48 ● OUTPUT / SDI : BNC x2 / AUDIO MONITOR : φ 3.5 Stereo Mini Jack x1 ● GENERAL / DC POWER input : XLR 4P male x1 : V-mount x1 for Li-ion battery interface / DC POWER output : V-mount x1 for camera interface / Size (WxHxD) : 92x138x80mm / Weight : 0.8kg

Operating panel

Connector panel

Simple connection, delay adjust

Audio embededder ideal for recording high-definition switchers. The individual input level can be changed by 4 channels independent input by the Canon terminal. Delay adjustment is possible from 0 to 3 frames for each channel.

Equipped with a visibility audio meter

Each channel is displayed with a bar meter. The audio level can be adjusted easily.

Battery / Cannon 4P DC drive possible

Sony lithium ion battery can be installed. Low power consumption enables long-time operation. Cannon 4P input is possible. Can be mounted behind the shoulder camera.

* Photo VTR, battery, cable, etc. are sold separately.

Hyper limiter installed

This is an audio embededder that is equipped with two standard limiter FS-205 hyper limiter circuits and realizes an independent input limiter for 4 channels. When an excessive input is applied to a digital recorder, the sound will be extremely distorted or silenced. In order to avoid this, the hyper limiter installed in PROTECH's traditional field mixer is placed independently for each channel on the input side to minimize changes in sound quality due to compression. It reacts instantly to sudden loud sounds that resonate sharply and has the characteristic of maintaining almost zero sound cracking. It is possible to avoid recording accidents with the hyper limiter. Each channel independent hyperlimiter enables real sound recording without breaking the localization of the sound image.
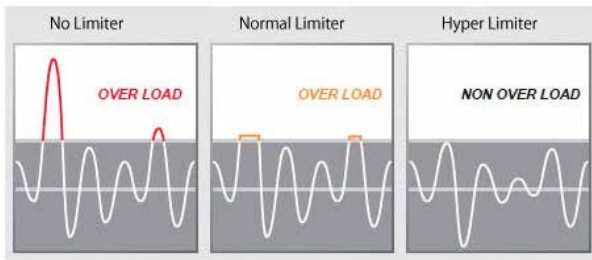
Mic input, line input

Audio level can be selected with slide switch from phantom 48V / -60dB / -20dB / + 4dB /. The operation panel uses a slide switch with a focus on the voice of the work site and a mechanical volume that eliminates menu operations and makes it possible to operate without hesitation.
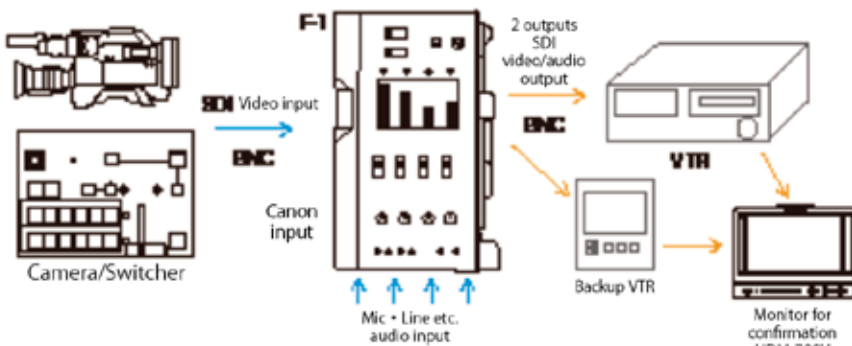
* Since Panasonic AVCCAM recorder AG-HMR10 can record only 2CH of embedded audio, set AUDIO GROUP to 1 to 4 for F-1, and only 1CH and 2CH can be recorded. Multiple F-1 units cannot be used. Some other VTRs cannot record 16 channels of embedded audio. Please contact the VTR manufacturer for the recording channel.

F-1operating panel（real size）

F-1 connector panel（real size）

Select audio insertion channel position

Of course, it is possible to insert audio from channel 5 to channel 8 with the camera audio from channel 1 to channel 4 rewritten, as well as rewriting the recorded audio of the camera. Arbitrarily, you can select from 4 positions: 1 to 4 channels, 5 to 8 channels, 9 to 12 channels, and 13 to 16 channels. Four channels of audio are embedded per unit.


Four F-1 units connected

Capable of 16CH audio embedded

All 16 channels of HD-SDI audio can be embedded by connecting up to 4 units. Audio divided into four groups can be inserted into any channel group. With the camera's audio 1 to 4 CH, you can input the audio line of the shooting venue to 5 to 8 CH, embed it, and record it on the VTR.

2 HD-SDI outputs

Equipped with 2 HD-SDI outputs. Main recording VTR and backup VTR can be connected without distributor.
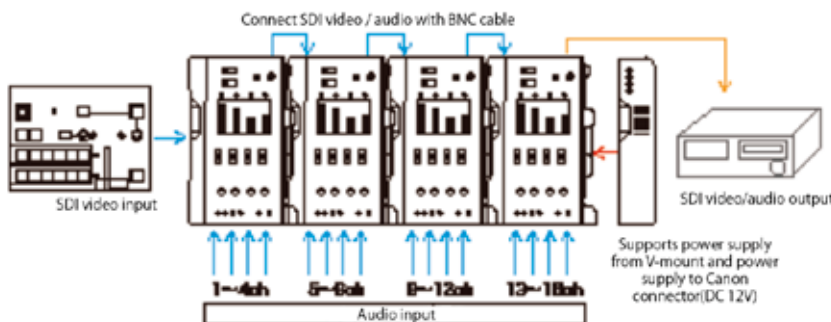
Specifications ● It can input and select from 4 position of audio 1 ～ 4 ch, 5 ～ 8 ch, 9 ～ 1 2 ch, 1 3 ～ 1 6 ch. ● TC（Time code）signal output ● Input level phantom48V/-60dB/-20dB/ ＋ 4dB/ Size : about 9 2W×138H×75Dmm ● Weight : about 830g ● Using power : power : 9 ～ 18V ● Power consumption : 6W ＊ External power supply is sold separately.

FIELDMIXER®
FOR PROFESSIONAL

PRESSMIXER® Broadcast

A classic field mixer
Pursuing further sound quality

A compact tool that excels at collecting intended sound sources

The selected sound source suits the highly complete video.
Various shooting sites require reliable sound-making tools.
Which mixer do you choose?

* Field mixer is a registered trademark of Nippon Video System.

PROTECH's original technology "Hyper Limiter" is installed in all field mixer series models

302P 305 300 40X 405 805
ALL FIELDMIXERS

Independent hyperlimiter for each channel

Unlike the limiters found in conventional compact mixers, the input-side limiters are arranged in the same way as a full-fledged tabletop mixer, minimizing changes in sound quality due to compression. It reacts instantly to sudden loud sounds that resonate sharply and has the characteristic of maintaining almost zero sound cracking. It is possible to avoid recording accidents with the hyper limiter. Each channel independent hyperlimiter enables real sound recording without breaking the localization of the sound image.
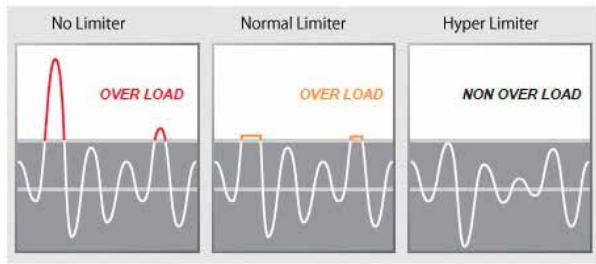
Quick active / natural release

The hyper limiter does not cut the part that exceeds a certain volume, but has the performance of keeping the wave shape itself and suppressing it to an area without distortion. In addition, after the excessive input sound has been suppressed, smooth release of the limiter that does not destroy the sound image has been realized by natural release, and it is particularly effective for recording sound sources with a mixture of impact sounds.

VU / PEAK switchable meter that supports not only field mixers but also sound adjustment more powerfully

302P 305 300 40X 405 805
ALL FIELDMIXERS

VU and PEAK 2-way switching meter

Both the "VU meter", which is generally used widely, and the volume feeling that the human ear feels as it is, and the "PEAK meter" mode that displays the peak value of sound pressure, which is often used in digital recorders, are available. It can be switched instantly with the selector switch on the front of the operation panel, and the PEAK and VU levels of the same sound can be checked simultaneously. This makes it easy to adjust the level considering recorder characteristics.

Battery level indicator

In order to prevent troubles due to running out of battery, the remaining battery level is displayed in three steps on the meter and at the same time it is possible to know the approximate driving time.
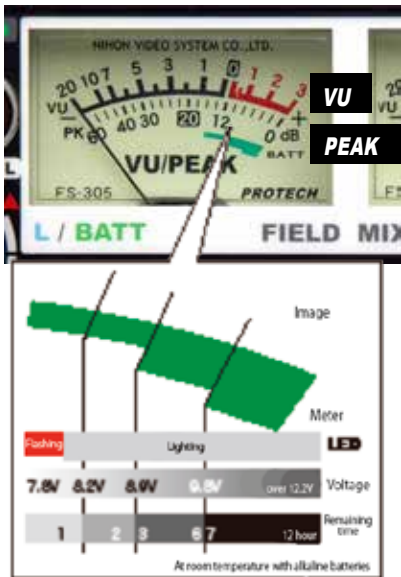
Why do we need a VU meter and a PEAK meter?

The indicated value of the VU meter is an average value for 0.3 seconds, which is suitable for analog recorders that display from -20dB to + 3dB. The indication value of the PEAK meter displays the instantaneous maximum value of the input signal, and is a type that has been adopted in recent digital recorders, etc., quickly rises in about 10 ms, and slowly returns in about 1.5 s. It is displayed from -60dB to 0dB, and displays a wide range from low level input to high volume. Digital recorders may be distorted or silenced when excessive input is received, so it is necessary to check with the PEAK meter so that the recordable level of 0 dB is not exceeded.

Independent equalizer for each channel
# Easy adjustment with FRQ and LEVEL knobs

302P 305 300 40X 405 805

Built-in equalizer for each channel independently

Recording can be made close to human hearing by freely filtering the sound. A simple configuration with two knobs (sound range search knob / volume level knob) is provided for each channel so that speedy adjustment is possible.

The frequency range knob is handled by the FRQ (frequency) knob, and can be set freely between the low frequency range of 250Hz and the high frequency range of 8kHz. The range specified with the FRQ knob can be set between -12dB and +12dB with the LEVEL (volume control) knob, and the range can be emphasized or suppressed.

EQ FRQ characteristics
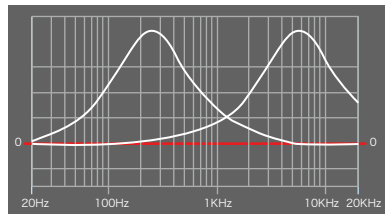
EQ LEVEL Characteristic
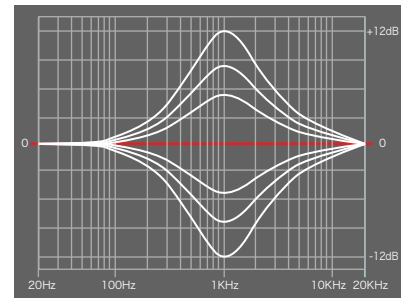
Low cut filter

Powerful reduction of natural noise

In the recording at the street corner, there was a lot of low-frequency noise such as wind noise, and the variable band of the low cut filter was widened to cope with this. In addition, by reviewing the filter characteristics, it has become possible to capture interview voices more clearly than before without being buried in noise.

302P 305 300 40X 405 805
ALL FIELDMIXERS

LOWCUT   Bandwidth characteristics
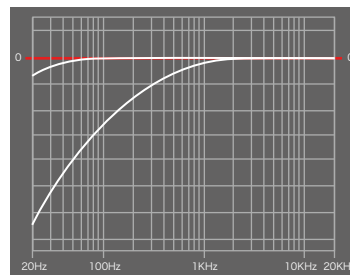
Functions from on-site voice

Ensure visibility in the dark

In order to ensure visibility in the dark, a volume LED and meter backlight are installed. In addition, a light ON / OFF switch has been placed on the front to reduce power consumption.

INPUT

302P 305 300 40X 405 805
ALL FIELDMIXERS

Easy-to-use channel fader

The input channel fader is small but has a good fit, and has a moderate adjustment due to its moderate weight. Furthermore, considering the visibility in the dark, the volume point is equipped with an LED.

Secure a wide input range

The input terminal uses a Canon 3-pin connector. The input mode is "P-MIC" phantom microphone, "D-MIC" dynamic microphone, and "LINE" line microphone. Input level setting mode supports -70 dBm to -36 dBm for microphone input, and -30 dBm to +4 dBm for LINE input. Subtle range adjustment is possible. Phantom power is compatible with two types of P-48 and AB-12, and can be mixed for each channel.

OUTPUT

302P 305 300 40X 405 805
ALL FIELDMIXERS

4-position master output level

The master output terminal employs a Canon 3-pin connector, and the LR output can be set independently for outputs consisting of four positions: + 4/0 / -20 / -60dBm. This makes it possible to support recorders with various input levels. In addition, an RCA terminal is also provided as a sub output for audio backup recording.

Functions from on-site voice

302P 305 300 40X 405 805

Pop-up master Preventing incorrect operation with volume

By making the master volume pop-up, inadvertent misoperation can be prevented and the ease of adjustment has been improved.

Headphone jack on front and side

ϕ 6.3 headphone jack is mounted on the front panel, and a ϕ 3.5 mini jack is mounted on the side panel. Simultaneous monitoring with two headphones is also possible.

POWER ACCESSORY

302P 305 300 40X 405 805

Adopt slide battery case

Battery replacement is made easy by adopting a special slide battery case. This battery case can hold 8 AA batteries, and it can be attached and detached with one touch. In addition, the slide battery case can be shared in the field mixer series (except FS-805).

By successfully reducing power consumption, the FS-302P can be driven continuously for more than 14 hours when using 8 AA alkaline batteries.

AC power
AC-M15 price: **$70**
AC power supply for supplying power to the field mixer series.

Slide battery case
LR-68 price: **$98**
Slide battery case for AA batteries that comes standard with FS-302P ~ 405.

Full functionality in a compact body

4ch field mixer

FS-40X price: $3,580

4ch field mixer (no case, no belt)

FS-40XL price: $3,400

● **Accessories**：AA battery holder(LR-68)/Instruction manual/
Guarantee/Exclusive carrying case/Carring belt(SC-40X/FS-40X only)

* The standard specification is A Type (female input male output). Specify B Type (male input / female output) when ordering. (This photo is A Type)

Input panel   Output panel

4ch condensed into 3ch body

4ch is installed in the body size of the 3ch mixer. It is now closer to the user's ideal of being compact, lightweight and highly functional.

FS-305/1

FS-40X

FS-405

Size comparison with our field mixer

4ch direct output possible

The sound input from each input channel can be output directly without mixing with the side selector switch.

Input and output double limiter

Each channel independent hyper limiter is installed on the input side to instantly suppress over levels. In addition, a master limiter with three-stage variable is newly installed on the master output side. By switching the three-level limit level, it prevents sound cracking in any recording environment and strongly supports professional audio recording.

MAS LMT switch

Each channel independent equalizer, Equipped with a low cut filter

By installing each channel independent equalizer, recording close to human hearing was made possible. In addition, a low-cut filter is installed to cope with low-frequency noise such as wind noise during street recording. A clearer sound can be captured.

Supports stereo recording with MS

Supports stereo recording with an MS microphone by installing an MS decoder. Both inputs using cannon 5 pin and Canon 3 pin using 2ch are supported.

The first portable size mountable with meter bridge

By using the optional VU / PEAK switching quadruple monitor MB-40X, the volume of each channel can be grasped at a glance.
* When using the optional MB-40X

4 meter
MB-40X
proce：$780

The audio level of 1-4ch can be confirmed at a glance with four VU / PEAK switchable meters.

Features ● 4 channel field mixer ● Input : Hyper Limiter for each CH/ Output : Master Limiter for each CH ● Parametric equalizer ● MS decoder ● Pre-Fader listen ● Stereo recording ● VU/PEAK switchable meter ● Input transformer ● RCA OUT ● Low cut filter ● 1 KHz oscillator ● Phantom P48/AB12 ● Output level switch ● LED indicator to see and operate the knob of volume control in dark place ● LINE/MIC input signal volume level trim control

Specifications ● INPUT / AUDIO : XLR 3P female (or XLR 3P male) x4CH / AUDIO Input Level : Microphone -70 - -36 dBs / Line -30 - +4 dBs : Impedance 600 Ω ● OUTPUT / Master : XLR 3P male (or XLR 3P male) x2CH(L/R) / Sub : XLR 3P male (or XLR 3P male) x2CH(L/R) / AUDIO Output Level A/B : -60/-20/0/+4 dBm maximum +24 dBm / Headphone : φ 6.3 Stereo Jack x1 and φ 3,5 Stereo Mini Jack x1 / MONITOR OUT : ≧ -6dB ● CHARACTERISTICS / Frequency Range : LINE 50Hz - 15kHz ±1.0dB : MONI 50Hz - 15kHz ±3.0dB / S/N : ≧ 54dB (when -70dBm input) ● FUNCTION / Equalizer : Frequency:250 Hz - 8 kHz Level: -12 - +12dB for each CH / Power Supply for Phantom Microphone : P-48(+48V)/A-B12V for each CH / Low Cut Filter(H.P.F) : 20 - 300 Hz/ oct. / Oscillator : 1 kHz / Audio Level meter : VU/PEAK / Limiter : Input : Hyper Limiter for each CH/ Output : Master Limiter for each CH ● GENERAL / DC POWER : DC 12V 0.3A : Size AA Battery(LR-6) x8, using Battery Case (LR-68) : XLR 4P malex1 : DC 12V(9V-18V) 0.5A max. / Weight : 1.9kg / Size (WxHxD) : 180x60x160 mm ● ACCESSORIES / AA Battery Case LR-68 x1 / Carrying Case / Carrying Belt

Video production mixer for pre-production that pursues operability with supreme technology

4ch field mixer

FS-405 price: **$4,580**

● **Accessories**：AA battery holder(LR-68)/Instruction manual/Exclusive carrying case(SC-405)/Carrying belt/Instruction manual/Guarantee

* The standard specification is A Type (female input male output). Specify B Type (male input / female output) when ordering. (Photo shows B Type)

Input panel

Output panel

4-channel independent equalizer, Equipped with hyper limiter

The 4ch independent built-in equalizer that suppresses the target sound range and the hyper limiter that naturally suppresses the excessive input of about + 30dB.

With continuously variable pan pod Subtle panning is possible

With the stereo recording, a pan pod with continuously variable sound image positions has been adopted.

Wide range of settings

4-stage switching of dynamic microphone, P-48 / AB-12 phantom microphone, and line input. The output can be switched in 4 steps of + 4/0 / -20 / -60dBm, and RCA has a fixed output of -10dBm.

Equipped with PFL function

Equipped with a pre-fader listen function, it is possible to check the standby level and equalizer even during recording.

VU / PEAK switchable meter

The meter to check the recording level accurately can switch between PEAK meter suitable for digital and VU meter to check the average level of the entire sound source L / R independently.

Multi-channel input in a small body

A compact body with a total of 6ch input provides powerful support for installation in news broadcast vehicles and outdoor broadcasts.

Build-in all-channel full-link sliding faders

The top panel is equipped with a slide-type fader, enabling simultaneous fading for all channels. In addition, AUX input with trim in RCA is installed, and slide fading with only AUX input is also possible.

Wireless tuner support
FS-405SW
price：$4,980

Pocket-in installation of Sony WRR-8552 units.

Link cable
LC-405
price：$110

A dedicated cable for use as an 8CH mixer by connecting two FS-405s.

Features ● 4 channel field mixer ● Parametric equalizer ● Pre-Fader listen ● Stereo recording ● VU/PEAK switchable meter ● Input transformer ● RCA OUT ● Low cut filter ● 1 KHz oscillator ● Phantom P48/AB12 ● Output level switch ● LED indicator to see and operate the knob of volume control in dark place ● LINE/MIC input signal volume level trim control

Specifications ● INPUT / AUDIO : XLR 3P female (or XLR 3P male) x4CH : RCA x2CH(L/R) / AUDIO Input Level : Microphone -70 - -36 dBs / Line -30 - +4 dBs : Impedance 600 Ω ● OUTPUT / Master : XLR 3P male (or XLR 3P male) x2CH(A/B) / AUDIO Output Level A/B : -60/-20/0/+4 dBm maximum +24 dBm / Sub : RCAx2CH(L/R) and ϕ 3.5 Stereo Mini Jack x2 / AUDIO Output Level L/R : -10dBV±1.0dBV / Headphone : ϕ 6.3 Stereo Jack x1 and ϕ 3,5 Stereo Mini Jack x1 / MONITOR OUT : ≧ -6dB ● CHARACTERISTICS / Frequency Range : LINE 50Hz - 15kHz ±1.0dB : MONI 50Hz - 15kHz ±3.0dB / S/N : ≧ 54dB (when -70dBm input) ● FUNCTION / Equalizer : Frequency:250 Hz - 8 kHz Level : -12 - +12dB for each CH / Power Supply for Phantom Microphone : P-48(+48V)/A-B12V for each CH / Low Cut Filter(H.P.F) : 20 - 300 Hz/ oct. / Oscillator : 1 kHz / Audio Level meter : VU/PEAK / Limiter : Input : Hyper Limiter for each CH ● GENERAL / DC POWER : DC 12V 0.3A : Size AA Battery(LR-6)x8, using Battery Case (LR-68) : XLR 4P male x1 : DC 12V(9V-18V) O.5A max : BP-90 type connectorx1 / Weight : 1.9 kg / Size (WxHxD) : 206x60x172 mm ● ACCESSORIES / AA Battery Case LR-68 x1 / Carrying Case / Carrying Belt

A monaural mixer designed for the press
# Its name is "Press Mixer®"

* Press mixer and FS-302 are registered trademarks of Nippon Video System.

The press specifications 3ch field mixer

FS-302P price: **$2,840**

● **Accessories**：AA battery holder(LR-68)/Exclusive carrying case(SC-302)/Carrying belt/Instruction manual/Guarantee/

* The standard specification is A Type (female input male output). Specify B Type (male input / female output) when ordering. (Photo shows B Type)
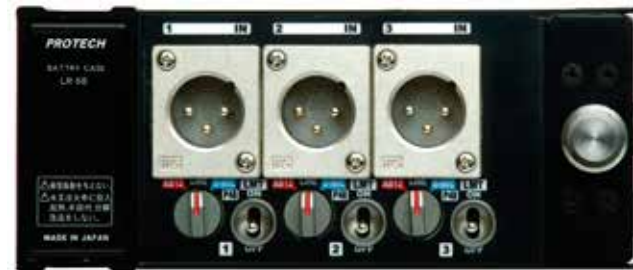
Input panel   Output panel

Input/output double limiter

Each channel independent hyper limiter is installed on the input side to instantly suppress over levels. In addition, the master output side is also equipped with a 3-stage variable master limiter. By switching the three-level limit level, it prevents sound cracking in any recording environment and strongly supports professional audio recording.

Input side   Figure

Output side   Figure
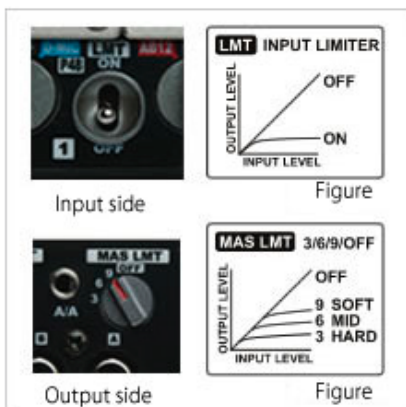
VU/PEAK meter

The meter for confirming a recording level correctly can be confirmed by switching output A / B. It is possible to switch between a PEAK meter suitable for digital recording and a VU meter that checks the average level of the entire sound source.

Operability and visibility

It is possible to check at a glance which output is selected to A / Bch by arranging the output select switch for each channel independently. In addition, it is equipped with an indicator that displays overload, enabling quick and precise adjustments together with the master volume LED.

Wide range of settings

Dynamic mic, P-48 / AB-12 phantom mic, and line input are possible. The balanced output (Canon 3pin) can be switched in 4 steps of + 4/0 / -20 / -60dBm, and the RCA and mini jack outputs are compatible with consumer recorders by fixing -10dBV.

Transformers on the input and output sides

By installing a transformer on both the input and output sides, it is possible to remove common-mode noise induced in the cable and maintain the original signal quality.

Features ● 3 channel press mixer ● Input : Hyper Limiter for each CH/ Output : Master Limiter for each CH ● Stereo recording ● VU/PEAK switchable meter ● Input transformer ● Output transformer ● RCA OUT ● Low cut filter ● 1 KHz oscillator ● Phantom P48/AB12 ● Output level switch ● LED indicator to see and operate the knob of volume control in dark place ● LINE/MIC input signal volume level trim control

Specifications ● INPUT / AUDIO : XLR 3P female (or XLR 3P male) x3CH / AUDIO Input Level : Microphone -70 - -36 dBs / Line -30 - +4 dBs : Impedance 600 Ω ● OUTPUT / Master : XLR 3P male (or XLR 3P male) x2CH(A/B) / AUDIO Output Level A/B : -60/-20/0/+4 dBm maximum +24 dBm / Sub : RCAx2CH(L/R) and φ 3.5 Stereo Mini Jack x2 / AUDIO Output Level L/R : -10dBV±1.0dBV / Headphone : φ 6.3 Stereo Jack x1 and φ 3,5 Stereo Mini Jack x1 / AUDIO Input Level : ≧ -8dB ● CHARACTERISTICS / Frequency Range : LINE 50Hz - 15kHz ±1.0dB : MONI 50Hz - 15kHz ±3.0dB / S/N : ≧ 54dB (when -70dBm input) ● FUNCTION / Power Supply for Phantom Microphone : P-48(+48V)/A-B12V for each CH / Low Cut Filter(H.P.F) : 20 - 300 Hz/oct. / Oscillator : 1 kHz / Audio Level meter : VU/PEAK / Limiter : Input : Hyper Limiter for each CH / Output : Master Limiter for each CH ● GENERAL / DC POWER : DC 12V 0.3A : Size AA Battery(LR-6)x8, using Battery Case (LR-68) : XLR 4P malex1 : DC 12V(9V-18V) O.5A max. : BP-90 type connector x1 / Size (WxHxD) : 180x58x141mm / Weight : 1.7 kg ● ACCESSORIES / AA Battery Case LR-68x1 / Carrying Case / Carrying Belt

Standard model that extracts the sound you want to convey

3ch field mixer

FS-305/1 price: $2,950

* The standard specification is A Type (female input male output). Specify B Type (male input / female output) when ordering. (Photo shows B Type)

● **Accessories**：AA battery holder(LR-68)/Exclusive carrying case(SC-305)/Carrying belt/Instruction manual/Guarantee/

Input panel

Output panel

Equalizer, hyperlimiter

The 3ch independent built-in equalizer that suppresses and suppresses the target sound range and a hyper limiter that naturally suppresses an excessive input of about + 30dB.

PEAK indicator

The PEAK indicator that displays overload is installed to grasp the output state of the sound. Like the equalizer and limiter switches, they are focused on the front and are designed with visibility in mind when working with other functions.

Wide input range

Dynamic mic, P-48V, AB-12V phantom mic, line input is possible. The balanced output (Cannon 3pin) can be switched in 4 steps of + 4/0 / -20 / -60dBm, and RCA is compatible with digital recorders by fixing -10dBV.

Features ● 3 channels field mixer ● Parametric equalizer ● VU/PEAK switchable meter ● Input transformer ● RCA OUT ● Low cut filter ● 1 KHz oscillator ● Phantom P48/AB12 ● Output level switch ● LED indicator to see and operate the knob of volume control in dark place ● LINE/MIC input signal volume level trim control ● MAS OUT analog outputs are output as they are cnverted to digital

Specifications ● INPUT / AUDIO : XLR 3P female (or XLR 3P male) x3CH / AUDIO Input Level : Microphone -70 - -36 dBs / Line -30 - +4 dBs : Impedance 600　Ω　● OUTPUT / Master : XLR 3P male (or XLR 3P female) x2CH(A/B) / AES/EBU OUT : XLR 3P male / AUDIO Output Level A/B : -60/-20/0/+4 dBm maximum +24 dBm / Sub : RCAx2CH(L/R) and φ 3.5 Stereo Mini Jackx2 / AUDIO Output Level L/R : -10dBV±1.0dBV / Headphone : φ 6.3 Stereo Jackx1 and φ 3,5 Stereo Mini Jackx1 / MONITOR OUT : ≧ -8dB ● CHARACTERISTICS / Frequency Range : LINE 50Hz - 15kHz ±1.0dB : MONI 50Hz - 15kHz ±3.0dB / S/N : ≧ 54dB (when -70dBm input) ● FUNCTION / Equalizer : Frequency:250 Hz - 8 kHz Level: -12 - +12dB for each CH / Power Supply for Phantom Microphone : P-48(+48V)/A-B12V for each CH / Low Cut Filter(H.P.F) : 20 - 300 Hz/oct. / Oscillator : 1 kHz / Audio Level meter : VU/PEAK / Limiter : Input : Hyper Limiter for each CH ● GENERAL / DC POWER : DC 12V 0.3A : Size AA Battery(LR-6)x8, using Battery Case (LR-68) : XLR 4P malex1 : DC 12V(9V-18V) O.5A max. : BP-90 type connectorx1 / Weight : 1.5 kg / Size (WxHxD) : 180x60x154 mm ● ACCESSORIES / AA Battery Case LR-68x1 / Carrying Case / Carrying Belt

High cost performance model

3ch field mixer

FS-300/1 price: $2,480

● **Accessories**：AA battery holder(LR-68)/Exclusive carrying case/Carrying belt SC-300/Instruction manual/Guarantee/

3ch field mixer (with case, no belt)

FS-300/1L price: $2,300

● **Accessories**：AA battery holder(LR-68)/Instruction manual/Guarantee/

Features ● 3 channels field mixer ● VU/PEAK switchable meter ● Input transformer ● RCA OUT ● Low cut filter ● 1 KHz oscillator ● Phantom P48/AB12 ● LED indicator to see and operate the knob of volume control in dark place ● LINE/MIC input signal volume level trim control ● MAS OUT outputs are output as they are cnverted to digital

Specifications ● INPUT / AUDIO : XLR 3P female (or XLR 3P male) x3CH / AUDIO Input Level : Microphone -70 - -36 dBs / Line -30 - +4 dBs : Impedance 600 Ω ● OUTPUT / Master : XLR 3P male (or XLR 3P female) x2CH(A/B) / AES/EBU OUT : XLR 3P male / AUDIO Output Level A/B : -60/-20/0/+4 dBm maximum +24 dBm / Sub : RCAx2CH(L/R) and φ 3.5 Stereo Mini Jack x2 / AUDIO Output Level L/R : -10dBV±1.0dBV / Headphone : φ 6.3 Stereo Jackx1 and φ 3,5 Stereo Mini Jack x1 / MONITOR OUT : ≧ -8dB ● CHARACTERISTICS / Frequency Range : LINE 50Hz - 15kHz ±1.0dB : MONI 50Hz - 15kHz ±3.0dB / S/N : ≧ 54dB (when -70dBm input) ● FUNCTION / Power Supply for Phantom Microphone : P-48(+48V)/A-B12V for each CH / Low Cut Filter(H.P.F) : 20 - 300 Hz/oct. / Oscillator : 1 kHz / Audio Level meter : VU/PEAK / Limiter : Input : Hyper Limiter for each CH ● GENERAL / DC POWER : DC 12V 0.3A : Size AA Battery(LR-6)x8, using Battery Case (LR-68) : XLR 4P male x1 : DC 12V(9V-18V) O.5A max. : BP-90 type connector x1 / Weight : 1.5 kg / Size (WxHxD) : 180x60x154mm ● ACCESSORIES / AA Battery Case LR-68 x1 / Carrying Case / Carrying Belt

Excellent basic performance

Equipped with 3ch independent hyper limiter and VU / PEAK switchable meter which are the basic performance of PROTECH Field Mixer.

* The standard specification is A Type (female input male output). Specify B Type (male input / female output) when ordering. (Photo shows B Type)

Relay vehicle, event recording, EIA 2U rack mountable 8ch press mixer

8ch press mixer

FS-805 price: $9,800

Relay specifications 8ch press mixer (EXT) no connector

FS-805L price: $7,000

● **Accessories**：AC cable/Rack mount bracket/Instruction manual/Guarantee

Front panel

* The standard specification is A Type (female input male output). Specify B Type (male input / female output) when ordering. (Photo shows B Type)

Back panel

Can be operated on a relay car

The functions of input select, trim, pan pod, equalizer, low cut, PFL switch, and limiter ON / OFF switch are concentrated on the front.

L / R level can be adjusted with a single knob during stereo input

When stereo input is performed with two microphones, 2ch level adjustment is possible only with the Lch master volume by turning on the link switch.

Continuously variable pan pod

The sound image position can be freely adjusted during stereo recording with a continuously variable pan pod.

Transformers on the input and output sides

By installing a transformer on both the input and output sides, it is possible to remove common-mode noise induced in the cable and maintain the original signal quality.

Build-in intercom

By using the optional FL-301 headset, all Protek wired intercoms FD-300A can be directly connected to enable simultaneous calls.

Can confirm before mixing by PFL function

Equipped with a pre-fader listen function, it is possible to check the standby level and equalizer even during recording.

Input/output double limiter

Independent hyperlimiter for each input channel, and a master limiter with 3 levels of variable on the master output side.

Features ● 8 channel press mixer ● Input : Hyper Limiter for each CH/ Output : Master Limiter for each CH ● Parametric equalizer ● Pre-Fader listen ● Stereo recording ● VU/PEAK switchable meter ● Input transformer ● Output transformer ● Low cut filter ● 1 KHz oscillator ● Phantom P48/AB12 ● LED indicator to see and operate the knob of volume control in dark place ● LINE/MIC input signal volume level trim control

Specifications ● INPUT / AUDIO : XLR 3P female (or XLR 3P male) x8CH : RCA x2CH(L/R) / AUDIO Input Level : Microphone -70 - -36 dBs / Line -30 - +4 dBs : Impedance 600 Ω ● OUTPUT / Master : XLR 3P male (or XLR 3P male) x2CH(A/B) / AUDIO Output Level A/B : -60/-20/0/+4 dBm maximum +24 dBm / Sub : RCAx2CH(L/R) and ϕ 3.5 Stereo Mini Jack x2 / AUDIO Output Level L/R : -10dBV±1.0dBV / Headphone : ϕ 6.3 Stereo Jackx1 and ϕ 3,5 Stereo Mini Jack x1 / MONITOR OUT : ≧ -6dB ● CHARACTERISTICS / Frequency Range : LINE 50Hz - 15kHz ±1.0dB : MONI 50Hz - 15kHz ±3.0dB / S/N : ≧ 54dB (when -70dBm input) ● FUNCTION / Equalizer : Frequency:250 Hz - 8 kHz Level: -12 - +12dB for each CH / Power Supply for Phantom Microphone : P-48(+48V)/A-B12V for each CH / Low Cut Filter(H.P.F) : 20 - 300 Hz/oct. / Oscillator : 1 kHz / Audio Level meter : VU/PEAK / Limiter : Input : Hyper Limiter for each CH ● GENERAL / DC POWER : DC 12V 0.7A : XLR 4P male x1 : DC 9V-18V O.9A max. : AC 100V (50Hz / 60Hz) / Weight : 5.8kg / Size (WxHxD) : 430x88x280 mm ● ACCESSORIES / AC Cable

Specification comparison

Model		FS-302P	FS-305/1	FS-300/1	FS-40X	FS-405	FS-805
Connector type	A type	Standard	Standard	Standard	Standard	Standard	Standard
	B type	Select when ordering	Select when ordering	Select when ordering	Select when ordering	Select when ordering	Select when ordering
	C type	Select when ordering	Select when ordering	Select when ordering	—	Select when ordering	—
Audio input	Input channel	3ch	3ch	3ch	4ch	4ch+RCA stereo	8ch
	Input method	Trance	Trance	Trance	Trance	Trance	Trance
	Mic input range	−70~−36dBm	−70~−36dBm	−70~−36dBm	−70~−36dBm	−70~−36dBm	−70~−36dBm
	LINE input range	−30~+4dBm	−30~+4dBm	−30~+4dBm	−30~+4dBm	−30~+4dBm	−30~+4dBm
	RCA input	—	—	—	—	−10Bm	—
	Head room	over 30dB	over 30dB	over 30dB	over 30dB	over 30dB	over 30dB
	Impedance MIC	600Ω ±10%	600Ω ±10%	600Ω ±10%	600Ω ±10%	600Ω ±10%	600Ω ±10%
	Impedance LINE	600Ω ±10%	600Ω ±10%	600Ω ±10%	600Ω ±10%	600Ω ±10%	600Ω ±10%
	Frequency	20~20kHz	40~20kHz	40~20kHz	40~20kHz	50~15kHz	60~18kHz
	S/N (MIC)	60dB	60dB	60dB	59dB	60dB	59dB
	(LINE)	70dB	72dB	72dB	67dB	67dB	67dB
	Distortion (MIC)	under 0.15%	under 0.14%	under 0.14%	under 0.16%	under 0.14%	under 0.3%
	(LINE)	under 0.04%	under 0.04%	under 0.04%	under 0.06%	under 0.06%	under 0.2%
	MIC power	+48V/AB −12V	+48V/AB −12V	Select when ordering	+48V/AB −12V	+48V/AB −12V	+48V/AB −12V
	MS mic input	—	—	—	○	—	—
	P.F.L	—	—	—	○	○	○
OSC	1kHz Generator	○	○	○	○	○	○
Equalizer	Input	—	Independent for each input channel	—	Independent for each input channel	Independent for each input channel	Independent for each input channel
	FRQ	—	250~8kHz	—	250~8kHz	250~8kHz	250~8kHz
	Level	—	−12~+12dBm	—	−12~+12dBm	−12~+12dBm	−12~+12dBm
Display	Meter display	A/B/BATT	L/R/BATT	L/R/BATT	L/R/BATT	L/R/BATT	L/R/BATT
	Meter VU display	○	○	○	○	○	○
	Meter PEAK display	○	○	○	○	○	○
	Battery display	○	○	○	○	○	—
	Channel fader LED	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF
	Meter back light	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	Always lighting
	Meter bridge	—	—	—	Option MB-40X	—	—
	Peak indicator	○	○	—	○	○	○
	Direct output display	—	—	—	○	—	—
	Battery empty display	Lighting	Lighting	Lighting	Lighting	Lighting	—
Audio output	Output channel	A/B stereo	L/R stereo	L/R stereo	L/R stereo	L/R stereo 2 lines	L/R stereo 2 lines
	Output method	Trance	Electric balance/AES/EBU	Electric balance/AES/EBU	Electric blance	Electric blance	Trance
	RCA OUT	RCA+stereo mini jack	○	○	○	○	○
	Main output level L	+4/0/−20/−60	+4/0/−20/−60	+4/0/−20/−60	+4/0/−20/−60	+4/0/−20/−60	+4
	Main output level R	+4/0/−20/−60	+4/0/−20/−60	+4/0/−20/−60	+4/0/−20/−60	+4/0/−20/−60	+4
	Sub output level L/R	−10(stereo mini jack)	—	—	−20/−60	+4/0/−20/−60	−20/−60
	Direct output function	—	—	—	○	—	—
	Slide fader function	—	—	—	—	○	—
Power	AC power	AC-M15(option)	AC-M15(option)	AC-M15(option)	AC-M15(option)	AC-M15(option)	—
	Canon 4-pin input	○	○	○	○	○	○
	Voltage	DC9V~18V	DC9V~18V	DC9V~18V	DC9V~18V	DC9V~18V	DC9V~18V/AC100V
	Power comsumption	0.12A	0.11A	0.11A	0.16A	0.14A	0.32A
	Operation power	14 hour	12 hour	12 hour	10 hour	10 hour	—
Dimension	WxHxD(mm)	180x58x141	180x60x154	180x60x154	181x60x160	206x60172	430x88x280
Weight	kg	1.6	1.5	1.5	1.8	1.9	5.8
For use		Press / Production	Press/Production/Bridal	Press/Production/Bridal	Press/Production/Bridal	Press/Production/Bridal/Small relay car	Production/Relay car/Facility

Carrying case (Type L is sold separately)

SC-302
price: $180

for FS-302P

SC-305/SC-40X
price: $260

for FS-300/1
FS-305
FS-40X

SC-405
price: $270

for FS-405

Connector type   (This photo is FS-302P)

A type

Input : female
Output : male

B type

Input : male
Output : female

Because it is a digital age, it is a great limiter to prevent sound cracking

Hyper limiter

FS-205 price: $898

● **Accessories**：Instruction manual/Guarantee

Features ● Hyper limiter ● 1 IN - 2 OUT or 2 IN - 2 OUT select ● Prevent distortion over +30dB ● Phantom P48 ● VU/PEAK select meter ● 1kHz oscillator ● RCA output ● φ 3.5 headphone jack

Specifications ● INPUT / AUDIO : XLR 3P female x2CH : Impedance 3 k Ω / AUDIO Input Level : Microphone -60 dBs (Variable) : Line -20/+4 dBs (Variable) ● OUTPUT / AUDIO MASTER : XLR 3P male x2CH : MASTER L/R Output Level +4/-23/-60 dBm / SUB : RCA x2CH : RCA L/R Output Level -10 dBV / MONITOR (Headphone) :   φ 3.5 Stereo Mini Jack x1 : Ouput Level -6 dBs ● Frequency Range / LINE : 50 Hz - 15 kHz ±1 dB / MONITOR : 50 Hz - 15 kHz ±3 dB ● S/N / LINE : ≧ 54 dB (when -60 dBm input) ● FUNCTION / Phantom microphone power supply : P-48 / Oscillator : 1 kHz / Audio Level meter : VU/PEAK / Limiter : Input Limiterx2 L/R ● GENERAL / DC POWER input : DC 12V(6V - 16V) 0.2A (Max. 0.5 A) / Size (WxHxD) : 104x147x36 mm / Weight : 560 g

Top

Bottom

Hyper limiter build-in AC power

FS-206 price: $1,000

● **Accessories**：AC cable/Instruction manual/Guarantee

Features ● Hyper limiter with built-in AC power supply ● For other features, refer to FS-205

Specifications ● INPUT / AUDIO : XLR 3P female x2CH : Impedance 3 k Ω / AUDIO Input Level : Microphone -60 dBs (Variable) : Line -20/+4 dBs (Variable) ● OUTPUT / AUDIO MASTER : XLR 3P male x2CH : MASTER L/R Output Level +4/-23/-60 dBm / SUB : RCA x2CH : RCA L/R Output Level -10 dBV / MONITOR (Headphone) :   φ 3.5 Stereo Mini Jack x1 : Ouput Level -6 dBs ● Frequency Range / LINE : 50 Hz - 15 kHz ±1 dB / MONITOR : 50 Hz - 15 kHz ± 3 dB ● S/N / LINE : ≧ 54 dB (when -60 dBm input) ● FUNCTION / Phantom microphone power supply : P-48 / Oscillator : 1 kHz / Audio Level meter : VU/ PEAK / Limiter : Input Limiterx2 L/R ● GENERAL / DC POWER input : AC 100V / DC 12V 0.2A (Max. 0.5 A) / Size (WxHxD) : 102x161x90mm / Weight : 1.1 kg ● ACCESSORIES / AC Cable

正面

正面

上面

Performance limited to Hyper Limiter

Equipped with hyper limiter cultivated in field mixer. + 30dB excessive input is suppressed instantaneously to prevent sound distortion. Moreover, even if it suppresses the excessive input that much, the sound which does not exceed the PEAK level is output as it is, enabling more natural recording.
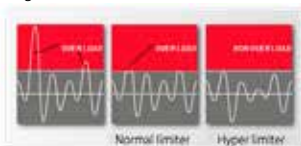
Normal limiter / Hyper limiter — Image

Fully equipped with technology

12V drive. 2-input 2-output hyper-limiter unit. Switching between 1 input 2 output and 2 input 2 output is possible. The technology cultivated in the field mixer is thoroughly introduced, and the limiter compression technology is installed as it is. Demonstrates the ability to prevent sound cracking in any recording environment and reduces sound distortion. This is an indispensable unit for digital recording.

Wide input/output

The phantom power supply for P-48 microphones is installed at the time of microphone input, and there are three levels of input switching -60 / -20 / + 4dBm. Various input can be recorded. The balanced output (Canon 3pin) can be switched in 3 steps of + 4 / -20 / -60dBm, and RCA is compatible with home recorders by fixing -10dBV.

VU/PEAK swithing meter

As for the meter for confirming the recording level accurately, PEAK meter suitable for digital and VU meter which confirms the average level of the whole sound source can be switched L / R independently.

3 types to choose from depending on the power supply type

Easily available 8 AA batteries	Long time operating. Lithium ion specification	One-touch mounting
FS-205B price: **$ 996**	**FS-205L** price: **$ 1,196**	**FS-205S** price: **$ 1,196**
8 AA batteries driven type. It is configured to be carried around. It can be driven for about 10 hours using easily available AA batteries. (When using alkaline batteries)	A battery that can be V-mounted, such as a lithium-ion battery manufactured by Sony, can be installed directly, enabling long-time operation.	A set of adapters and cables to attach to the wireless holder on the back of the Sony camera battery. An optional holder may be required depending on the camera model.

Excellent mobility anywhere

## Outstanding mobility in ENG / coverage recording

The FS-205S is mounted on the back of the camera battery case with the SCA-205, enabling one-piece handling. Reduced voice recording errors during one-man operation and more natural sound source recording.

Sound shooting is prevented even when shooting with small camcorders with an audio input terminal, which is a powerful support machine for professional shooting.
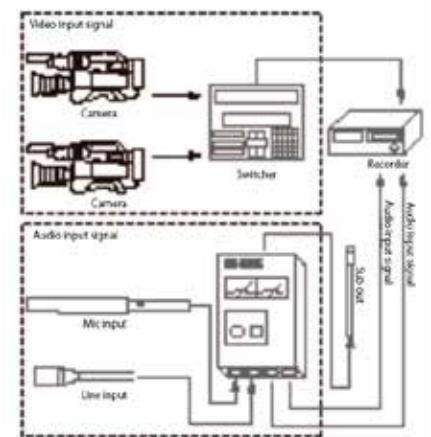
Use with wireless microphone

By placing the venue line in front of the wireless transmitter, it is possible to send sound without sound breakage to the receiver.
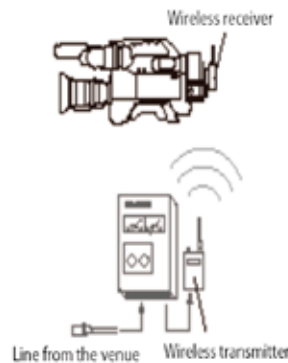
Used as a simple 2ch mixer

By using the optional mixing adapter (MA-20 / 200), it can be used as a 2ch mixer with input side limiter function.

Use with mixed line / microphone

When recording audio on the scene of recording two or three turtles such as plays or lectures, the input to the recorder is often fixed to a line, and sound distortion tends to occur. The FS-205 / 206 can be used for both line and microphone, and it can record the average voice of each speaker with different audio levels, and suppress distortion caused by sudden sounds such as applause.

Powerful on-air, event recording, narration recording

The sound level difference can be adjusted to a natural feeling. In particular, by maintaining a certain level during narration during editing and when inserting BGM, it is possible to perform easier voice editing work. It can be adjusted to a level that is easy to hear by connecting after the mixer.

Option

AA battery case	Lithium ion battery adapter	One-touch mounting
BAT-205 price: **$ 98**	**PBU-L205** price: **$ 298**	**SCA-205** price: **$ 298**
Adapter that enables FS-205 to be driven by AA batteries. Achieves driving time of more than 10 hours with alkaline AA batteries.	This adapter enables the FS-205 to be driven by a battery with a V shoe, such as a lithium-ion battery manufactured by Sony Corporation. If a large capacity battery is used, it can be operated for a long time.	Comes with an adapter for attaching the FS-205 to the back of a Sony camera battery, two Canon 3-pin (XLR-3 pin) male-female cables, and one Canon 4-pin-mini 4-pin DC cable.
use with ENG	Easy mixing with FS-205 / 206	FS-205 for home camera
BLT-205 price: **$ 38**	**MA-20/200** price: **$ 120/13**	**MC-100** price: **$ 68**
A set of shoulder belts and metal fittings for lowering the FS-205 from the shoulder.	A set of adapters and cables to attach to the wireless holder on the back of the Sony camera battery. An optional holder may be required depending on the camera model. MA-20 → 20cm/MA-200 → 2m	This adapter allows you to connect a directional microphone or a higher-grade microphone that outputs from the Canon terminal to a camera that does not have a Canon audio input terminal. Cable : 1.5m

Supports HD wide shooting with through suppression of uneven illumination

LED camlight®

LED camlight

UC-600A price: **$298**

● **Accessories**：Two types of irradiation lens x2/Instruction manual/Guarantee

Features ● LED CAMLIGHT with 20 CM cable ● 2 types of aspherical lens ● 7W LED ● Adjustable height and angle ● Both tungsten light and daylight

Specifications ● OUTPUT / Light : Hjgh brightness LED x2 with wide light scattering aspherical lens x2 x2 / Color Temperature : Tungsten light LEDx1 / Daylight LEDx1 ● INPUT / DC POWER : DC 12V(6V - 20V) Max. 7W / DC POWER IN : Mini 6P x1 with Mini 6P-CAMTAP cable 20cm ● GENERAL / Size (WxHxD) : 66x36x83mm / Weight : 280g ● ACCESSORIES / Accessory Shoe Adaptor x1 / Mini 6P-CAMTAP cable 20cm x1 / Aspherical Lens x2 x2

LED camlight

UC-600i price: **$298**

● **Accessories**：Two types of irradiation lens x2/Instruction manual/Guarantee

Features ● LED CAMLIGHT with 50 CM cable ● For other features, refer to UC-600A

Specifications ● OUTPUT / Light : Hjgh brightness LED x2 with wide light scattering aspherical lens x2 x2 / Color Temperature : Tungsten light LEDx1 / Daylight LED x1 ● INPUT / DC POWER : DC 12V(6V - 20V) Max. 7W / DC POWER IN : Mini 6P x1 with Mini 6P-CAMTAP cable 20cm ● GENERAL / Size (WxHxD) : 66x36x83 mm / Weight : 280 g ● ACCESSORIES / Accessory Shoe Adaptor x1 / Mini 6P-CAMTAP cable 50cm x1 / Aspherical Lens : Normal x2 / Wide angle x2

Selectable lens

By using two types of aspherical lenses for the light, an irradiation angle of 70 ° and 90 ° is realized. In recent years, video cameras have become wider, and video lights compatible with wide lenses are required. It corresponds to a standard wide 70 ° lens and a super wide lens 90 ° video camera. Two units of 70 ° and 90 ° irradiation angles are included.

When using a standard wide lens (Irradiation angle 70°)

When using an ultra-wide lens (Irradiation 90°)

Close-up shooting with free arm

Light height and angle can be changed easily. In short-distance shooting with a wide lens, the illumination angle must be considerably lowered, but this is possible and lighting can be done where the photographer wants.

Adjustable color temparture

Light intensity can be changed freely with the light intensity adjustment function. It is possible to take a picture that is dimmed at a short distance coverage, or to remove the shadow. In addition, the color temperature can be adjusted between tungsten light and daylight using the dimming function.

Double light emission

LED CAMLIGHT has a twin light emission structure. It has a light emitting part for tungsten light and daylight light, and succeeded in changing the color temperature without being dimmed by a color temperature filter commonly used in conventional lights.

Convenient stand camlight

Camlight

UC-D200TWH price: **$754**

● **Accessories**：20W valve × 2/Instruction manual/Guarantee

Features ● CAMLIGHT with WD-200 super wide diffuser ● Twin handheld light ● Monolight/ twinlight ● Adjustable angle

The twin handy lights that can be lit separately have a free adjustment characteristic of the angle, so it is possible to have a wide range of illumination, and the light quantity can be selected by switching between mono and twin lights depending on the shooting conditions.

This system light combines a light stand with a twin handy light. It is effective not only for location, coverage, relay, etc., but also for supporting AC light by incorporating it into the studio light.

Stand light set

1 light set
UC-D200TW1S
price: **$925**
● **Acessories**：UC-D200TWH/RT-5 light stand

2 lights set
UC-D200TW2S
price: **$1,860**
●**付属品**：UC-D200TWH × 2/RT-5 light stand × 2/Aluminum case

3 lights set
UC-D200TW3S
price: **$2,600**
● **Accessories**：UC-D200TWH × 3/RT-5 light stand × 3/Aluminum case

3 lights set +power +cable
UC-D200TW3F
price: **$3,920**
● **Accessories**：UC-D200TWH × 3/RT-5 light stand × 3/Aluminum case/AC power ACPROPACK100S × 3/DC-C40M3 ×3/UCL-35×6

* Camlight is a registered trademark of Nippon Video System.

Compact and lightweight halogen light that can shoot vivid colors with natural colors

Camlight UC-D200 series

Camlight

UC-D200 price: **$298**

● **Accessories** : 20W valve/Instruction manual/Guarantee

Cam light standard type. Equipped with a Canon 4-pin connector on the back, it has high versatility.

Features ● CAMLIGHT with WD-200 super wide diffuser ● Daylight filter ● Halogen lamp

Specifications ● OUTPUT / Halogen lamp : 20W bulb(supplied) / 35W bulb(optional) / Color Temperature : 3000K when DC 12V / Brightness : 20W lamp : 600 cd(DC 12V) / 35W : 970 cd(DC 12V) / Light Scattering Angle (diffusers built-in) : normal diffuser ; 38° / wide diffuser : 43° / Filter : Daylight filter(built-in) / Lighting Angle : approx. +60 °(upper) to approx. -10°(lower) ● INPUT / DC POWER input : DC 12V(11V-17V) : UC-D200 : XLR 4P male : UC-D200A : CAMTAP/Cable length 200mm : UC-D200i : CAMTAP/Cable length 500 mm ● GENERAL / Size (WxHxD) : 52x58x121mm / Weight : 200 g

Camlight (20cm cable)

UC-D200A price: **$298**

● **Accessories** : 20W valve/Instruction manual/Guarantee

It can be directly attached to a camera with a cam tap compatible DC light terminal.
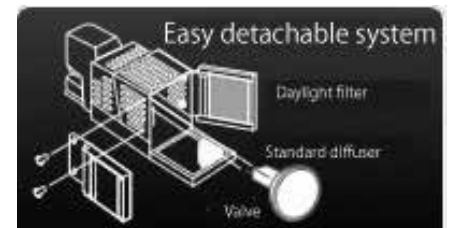
Camlight (50cm cable)

UC-D200i price: **$298**

● **Accessories** : 20W valve/Instruction manual/Guarantee

Direct mounting is possible for camera recorders that have a DC light terminal compatible with cam taps. It can also be installed in other battery holders with DC light terminals.

Set for driving UC-D200 directly with V-mount battery

UCD200-100PACK/L price: **$618**

● **Accessories** : 20W valve/Instruction manual/Guarantee

Canon 4-pin L type — camtap CAP-15(15cm)　CAP-50(50cm)	35W valve UCL-35	20W valve UCL-20
Canon 4-pin — Canon 4-pin DC-C40M3(3m)　DC-C40M5(5m)	Camera mount type PBU-200P	●Note. If you use a Panasonic battery case, an adapter may be required separately. Please consult.
Canon 4 pin L type — Canon 4-pin cable CAN-300(3m)　CAN-50(50cm)	Belt hook type PBU-200CF	Compatible with lithium holder PBU-L301
Curl cord CAR-150	Daylight filter FU-7	Super wide dufuser WD-200

Light, Compact and Robust

With the use of aluminum die-cast parts, it has withstood the hard working environment and realized the toughness required on site. In addition, we realized a weight reduction of about 220g and a commitment to a compact body as much as possible in order to reduce the load burden when mounted in front of the camera. This made it possible to always attach the video light.

Multi filter, 2 types of bulb

In addition to the standard diffuser (diffuser plate), a super wide diffuser is available. In addition, we prepared two valves according to the sensitivity of the camera. We recommend a 20W valve for F8.0 and a 35W valve for F10 and above.

Wide irradiation angle

It is possible to tilt up to about 55 degrees above the optical axis parallel line. For short-distance shooting, it can be oriented approximately 10 degrees below the optical axis parallel line, making it easy to correct the optical axis in short-distance shooting, which often causes damage with conventional lights.

Delight filter is default

A daylight filter is standard equipment. By using a daylight filter, you can get a natural color effect in the daytime indoors.
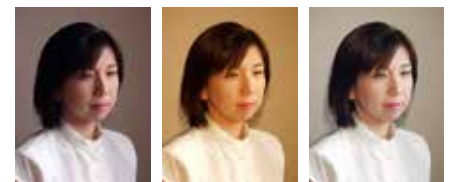
No light　　　Light only　　　With daylight filter installed
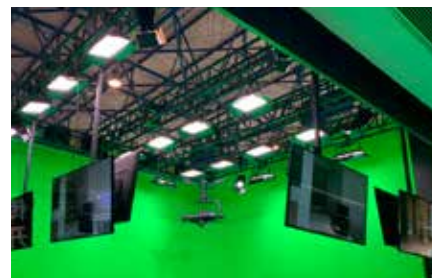
New light from PROTECH
RGB high intensity camlight

Camlight

UC-4000 price: $1,980

New camlight from PROTECH

PROTECH has finally released a new daylight. It is a special daylight that is packed with PROTECH-like design as well as basic functions. Emphasis is placed on the quality of light, and sufficient light intensity can be obtained.

Wide power input

This product can be driven by either AC or DC power. The AC power supply is a world-wide input that can be used not only in Japan but also overseas. The DC power supply is driven by a V-mount battery. It can be used with two V-mount batteries and can be used outdoors.

Adjustable color temperature

This product has a color temperature adjustment knob. Stepless adjustment from 2800K to 9900K is possible. RGB high brightness light source supports full color. We will reflect the desired color and provide a natural color expression.

Rain Jacket

* Photo's camera, microphone, battery, etc. are sold separately.

Rain jacket for JVC Kenwood camera

GY-HM650/600
RCS-HM600 price: **$ 148**
CODE WESIS160

GY-HM200
RCS-HM200 price: **$ 110**
CODE RTRIXR150

GY-LS300CH
RCS-LS300 price: **$ 110**
CODE FAWEK150

GY-HMQ10
RCS-HMQ10 price: **$ 110**
CODE VELSE150

Rain jacket for Canon camera

XF705
RCS-XF705 price: **$ 220**
CODE CSOJ305

XF305
RCS-XF305 price: **$ 148**
CODE CSOJ305

XF105
RCS-XF105 price: **$ 110**
CODE TTYCXA25

XF205
RCS-XF205 price: **$ 110**
CODE PKRIXA25

XA35/XA25
RCS-XA35/25 price: **$ 110**
CODE CSRTYXA25

For Panasonic camera

UX series
RCS-UX180 price: **$ 148**
CODE GGWOW160

AG-HPX250/AC160/160A/130/130A
RCS-P160 price: **$ 148**
CODE SAB43P160

AG-DVX200
RCS-DVX200 price: **$ 148**
CODE SUB43S160

AJ-PX270
RCS-PX270 price: **$ 148**
CODE AAB43S160

AG-CX350
RCS-CX350 price: **$ 148**

AG-HVX205/HPX175/HMC155, DVX-100/100A
RCS-100 price: **$ 110**
CODE SAB43150

AG-AC90/90A
RCS-P90 price: **$ 110**
CODE WAI43150

For shoulder type camera
RCS-700 price: **$ 288**
CODE SAU43EX3

For Sony camera

For shoulder type camera
RCS-Z280 price: **$ 148**
CODE LEZISHD1

For shoulder type camera
RCS-Z450 price: **$ 288**
CODE AOEL5Z450

For shoulder type camera
RCS-700 price: **$ 288**
CODE SAU43EX3

PXW-FS5
RCS-FS5 price: **$ 148**
CODE OELDE160

PXW-FS7
RCS-FS7 price: **$ 288**
CODE QEI74FS7

PXW-X200/X180/X160/PMW-200
RCS-200 price: **$ 148**
CODE IOX43S160

* RCS series rain jackets are generally compatible with light rain, and we recommend that you use a waterproof spray and towel together. In addition, heavy rain such as guerrilla heavy rain and typhoon is not supported. In case of such bad weather, stop using it immediately.

For Sony camera

PMW-300K1/K2
RCS-S300 price: $ 188
CODE ZAG7S300

PXW-Z100
RCS-Z100 price: $ 148
CODE EYB43HD1

PMW-100
RCS-S100 price: $ 148
CODE DPUDHD1

PXW-X70/HVR-A1J/HXR-NX70J/30J
RCS-A1J price: $ 110
CODE UAP78A1J

HVR-Z5J/HXR-NX5J
RCS-Z5J/NX5 price: $ 148
CODE SDZFHD1

PMW-EX3
RCS-EX3 price: $ 288
CODE RRYDEX3

* Can be used with ST-7 installed.
When using PMW-EX3 alone, there is a margin behind the cover.

PMW-160 用
RCS-S160 定価:14,800 円
CODE JKL8S160

PMW-EX1/1R 用
RCS-EX1/1R 定価:14,800 円
CODE RTEXHD1

DSR-PD150/170 用
RCS-150 定価:11,000 円
CODE HDFX150

HVR-Z7J
RCS-Z7J price: $ 148
CODE LIDEHD1

HVR-Z1J/HDR-FX1
RCS-Z1J price: $ 148
CODE DZPIEHD1

HVR-V1J
RCS-V1J price: $ 110
CODE IPSDF150

※ RCS series rain jacket principle, it is light rain, we recommend that you use a waterproof spray and towel together. In addition, heavy rain such as guerrilla heavy rain and typhoon is not supported. In case of such bad weather, stop using it immediately.

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Intertek
ISO9001:2015 Certification

ISO9001 registration range is only
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