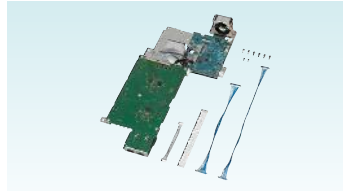
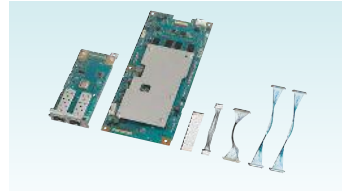


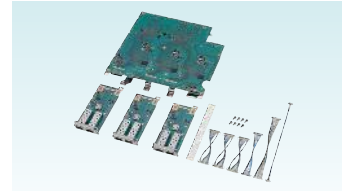
**OTM-25GSR**  
SFP28 Transceiver Module



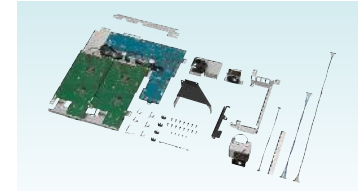
**HKCU-4001**  
ST 2110 Interface Kit



**HKCU-IP43F**  
Networked Media Interface Board



**SKC-IP45AF**  
Networked Media Interface Board



**SKC-4001**  
ST 2110 Interface Kit

## Specifications

HDC-4300	
<b>General</b>	
Power requirements	AC 240 V, 1.4 A (max.), DC 180 V, 1.0 A (max.), DC 12 V, 7 A (max.)
Operating temperature	-20°C to +45°C (-4°F to +113°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Mass	Approx. 5.0 kg (11 lb 0.37 oz) (unit only)
<b>Camera section</b>	
Pickup device	3-chip 2/3-inch type CMOS
Spectrum system	F1.4 prism
Built-in filters	ND: 1: CLEAR, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND, 5: 1/64ND CC: A: CROSS, B: 3200K, C: 4300K, D: 6300K
Sensitivity	F8.0 (2000 lx, 89.9% reflection)
Noise level	-62 dB
Horizontal resolution	2,000 TV lines (at center) in 4K, 5% or higher modulation
<b>Input/output connectors</b>	
BPU	Optical/electrical multi-connector (LEMO 3K.93C connector) (x1)
Audio input (CH1, CH2)	XLR-type connector 3-pin, female (1 each) For MIC: -60 dBu (can be set to a value up to -20 dBu using the menu or from the HDCU2000/2500), balanced For LINE: 0 dBu, balanced
Mic input	XLR-type connector 3-pin, female (x1)
Return control	6-pin (x1)
Prompter/Genlock	BNC (x1), 1 Vp-p, 75 Ω
Prompter 2	BNC (x1), 1 Vp-p, 75 Ω
DC input	XLR-type connector 4-pin (x1), DC 10.5 V to 17 V
DC output	4-pin (x1), DC 10.5 V to 17 V, 0.5 A (max.) 2-pin (x1), DC 10.5 V to 17 V, 2.5 A (max.) (Limitations may apply, depending on the load and input conditions.)
Test out	BNC (x1)
SDI (1, 2)	BNC (1 each)
SDI Monitor	BNC (x1)
Earphone	Stereo mini jack (x1)
Tracker	10-pin (x1)
Crane	12-pin (x1)
Intercom (1, 2)	XLR-type connector 5-pin, female (1 each)
Remote	8-pin (x1)
Network trunk	RJ-45 8-pin (x1)
Lens	12-pin (x1)
Viewfinder	20-pin (x1)
USB	USB 2.0, Type A, 4-pin (x1)
NETWORK TRUNK	RJ-45 type 8-pin (x1)
<b>Supplied accessories</b>	
Operation manual (1), Cable clamp belt (1set), Number plates (1set), Screws (+B3x8) (2)	

BPU-4000	
<b>General</b>	
Power requirements	AC 100 V to AC 240 V, 50/60 Hz
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Mass	Approx. 6.8 kg (15 lb)
Dimension (W x H x D)	424 x 66 x 395 mm (16 3/4 x 2 5/8 x 15 5/8 inches) excluding protrusions
<b>Input/output connectors</b>	
Camera	Optical fiber (LEMO 3K.93C connector) (x1)
CCU	Optical fiber (LEMO 3K.93C connector) (x1)
Remote	8-pin multi-connector (x1)
LAN	8-pin (x1)
SDI input	BNC (x2) 3G-SDI: SMPTE ST424/425 Level-B, 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps
Reference input	BNC (x1) HD: SMPTE ST274, tri-level sync, 0.6 Vp-p, 75 Ω SD: Black burst (NTSC: 0.286 Vp-p, 75 Ω, PAL: 0.3 Vp-p, 75 Ω)
12G/3G/HD-SDI output	BNC (x18) 12G-SDI*: 12G-SD: SMPTE ST2082, 0.8 Vp-p, 75Ω, 11.880 Gbps/11.868 Gbps, 6G-SDI: SMPTE ST2081, 0.8 Vp-p, 75Ω, 5.940 Gbps/5.934 Gbps 3G-SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 Ω, 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps, 3G-SDI/HD-SDI selectable
HD-SDI output	BNC (x2) SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps
Reference output	BNC (x1) HD: SMPTE ST274, tri-level sync, 0.6 Vp-p, 75 Ω SD: Composite sync, 0.3 Vp-p, 75 Ω, HD sync/SD sync selectable
<b>Supplied accessories</b>	
Number plates (1 set), Operation Guide (1), Operation Manual (CD-ROM) (1)	

\*1 12G-SDI signal transmission is available for the Lemo connector model, with serial numbers 15,000 and above.

# Specifications

BPU-4500A	
<b>General</b>	
Power requirements	AC 100 V to AC 240 V, 50/60 Hz
Current consumption	2.0 A (max)
Operating temperature	5 °C to 40 °C (41 °F to 104 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Mass	Approx. 8.8 kg (19 lb 6.4 oz)
<b>Input/output connectors</b>	
CAMERA	Optical fiber connector (LEMO 3K.93C connector) (x1)
CCU	Optical fiber connector (LEMO 3K.93C connector) (x1)
REMOTE	8-pin multi-connector (x1)
LAN	8-pin (x1)
<b>Input connectors</b>	
AC IN	100 V to 240 V AC (x1)
SD1, SDI2	BNC (x2), 3G-SDI: SMPTE ST424/425 Level-B, 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps
REFERENCE IN	BNC (x1), HD: SMPTE ST274, tri-level sync, 0.6 Vp-p, 75 Ω SD: Black burst (NTSC: 0.286 Vp-p, 75 Ω / PAL: 0.3 Vp-p, 75 Ω)
<b>Output connectors</b>	
12G/3G/HD SDI OUTPUT (SLOT1)	BNC (x4), 12G-SD: SMPTE ST2082, 0.8 Vp-p, 75Ω, 11.880 Gbps/11.868 Gbps, 6G-SDI: SMPTE ST2081, 0.8 Vp-p, 75Ω, 5.940 Gbps/5.934 Gbps 3G-SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75Ω, 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 0.8 Vp-p, 75Ω, 1.485 Gbps/1.4835 Gbps 12G-SDI/6G-SDI/3G-SDI/HD-SDI selectable
3G/HD SDI OUTPUT (SLOT2)	BNC (x8), 3G-SDI: SMPTE ST424/425 Level-A, 0.8 Vp-p, 75 Ω, 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps 3G-SDI/HD-SDI selectable
3G/HD SDI OUTPUT (SLOT3)	BNC (x2), 3G-SDI: SMPTE ST424/425 Level-A, 0.8 Vp-p, 75 Ω, 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps 3G-SDI/HD-SDI selectable
HD SDI OUTPUT (SLOT4)	BNC (x2), HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps
REFERENCE OUT	BNC (x1), HD: SMPTE ST274, tri-level sync, 0.6 Vp-p, 75 Ω SD: Composite sync, 0.3 Vp-p, 75 Ω HD SYNC/SD SYNC selectable
<b>Supplied accessories</b>	
Number plates (1 set), Operation Guide (1), Operation Manual (CD-ROM) (1)	
<b>Optional accessories</b>	
United States and Canada: Plug holder B (2-990-242-01) Other areas: Plug holder C (3-613-640-01)	
United States and Canada: Power cord set (1-551-812-XX) Other areas: Power cord set (1-782-929-XX)	
CCA-5-3 (3 m) and CCA-5-10 (10 m) connection cables, SFP+ module, Maintenance manual	

HDCU-4300	
<b>General</b>	
Power supply	AC 100 V to AC 240 V, 50/60 Hz
Current consumption	4.0 A (max)
Operating temperature	5 °C to 40 °C (41 °F to 104 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Mass	Approx. 10.1 kg (22 lb 4.3 oz)
<b>Input/Output connectors</b>	
CAMERA	Optical fiber connector (LEMO 3K.93C connector) (x1)
INTERCOM/TALLY/ PGM	D-sub 25-pin connector (x1) • INTERCOM (PROD/ENG), 4W/RTS/CC, 0 dBu • PGM, 2 systems, 0 dBu/-20 dBu • TALLY (R, G, Y) • FLAG
RCP/CNU	8-pin multi-connector (x1)
TRUNK	12-pin (x1)
LAN	8-pin (x1)
NETWORK TRUNK	8-pin (x1)
<b>Input connectors</b>	
AC IN	100 V to 240 V AC (x1)
SDI RET IN	BNC (x2), 3G-SDI: SMPTE ST424/425, 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 1.485 Gbps/1.4835 Gbps SD-SDI: SMPTE ST259, 270 Mbps
VBS RET IN	BNC (x2), analog signal, 1.0 Vp-p, 75 Ω
REFERENCE	BNC (x2), loop-through output HD: SMPTE ST274, tri-level sync, 0.6 Vp-p, 75 Ω SD: Black burst (NTSC: 0.286 Vp-p, 75 Ω/PAL: 0.3 Vp-p, 75 Ω) or NTSC 10F-BB
PROMPTER	BNC (x2), loop-through output during 1CH mode, terminate internally at 75 Ω during 2CH mode, analog signal, 1.0 Vp-p, 75 Ω
<b>Output connectors</b>	
AUDIO OUT CH1, CH2	XLR connector 3-pin, male (x2), 0 dBu/-20 dBu/ +4 dBu
VBS MONITOR	BNC (x1), VBS, 1 Vp-p, 75 Ω
CHARACTER/SYNC	BNC (x1), VBS, 1 Vp-p, 75 Ω HD SYNC: BTA-S001, tri-level sync, 0.6 Vp-p, 75 Ω SD SYNC: composite sync, 0.3 Vp-p, 75 Ω VBS/HD SYNC/SD SYNC selectable
SDI OUTPUT	BNC (x4), 3G-SDI: SMPTE ST424/425, 0.8 Vp-p, 75 Ω, 2.970 Gbps/ 2.967 Gbps HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/ 1.4835 Gbps 3G-SDI/HD-SDI and character signal ON/OFF selectable
<b>Input/Output connectors</b>	
SDI I/O	BNC (x2), 3G-SDI: SMPTE ST424/425, 0.8 Vp-p, 75 Ω, 2.970 Gbps/ 2.967 Gbps HD-SDI: SMPTE 292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps SD-SDI: SMPTE ST259, 0.8 Vp-p, 75 Ω, 270 Mbps
<b>Supplied accessories</b>	
Number plates (1 set), Operation guide (1), Operation manual (CD-ROM) (1)	
<b>Optional accessories</b>	
United States and Canada: Plug holder B (2-990-242-01) Other areas: Plug holder C (3-613-640-01)	
United States and Canada: Power cord set (1-551-812-XX) Other areas: Power cord set (1-782-929-XX)	
CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters)	
Maintenance manual	

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