

Open Up a New World of Live Production Shooting

The HDC-4800, combined with its dedicated BPU-4800 4K Baseband Processor, delivers breathtaking 4K Ultra HD images at up to 8x slow motion or Full HD at up to 16x slow motion and features Full HD cutout and zoom capabilities.

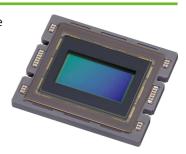
This all-in-one, fully networked 4K live ultra-high frame rate recording and playback system will be a game changer for broadcasting live events as well as live sports action.



Newly Developed 4K Imager Brings New Capabilities to Live Sports and Multi-Camera Productions

The HDC-4800 has a new sophisticated Super 35 mm CMOS sensor with a global shutter system that lets the camera take full advantage of PL mount lenses.

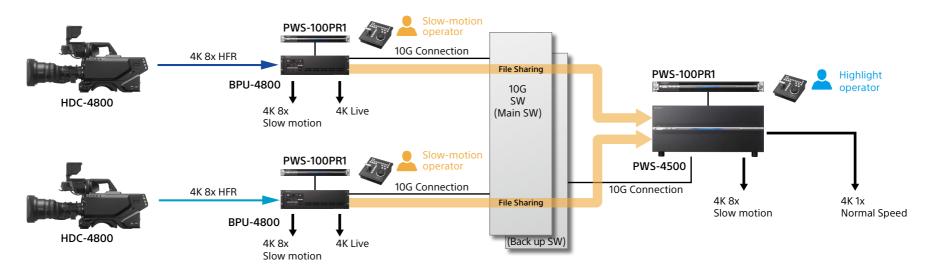
You'll enjoy stunning 4K images that capture fast-moving sports with incredible definition. For extra operational convenience, there's a motorized dual ND/CC filter that can be operated remotely for variable exposure control. It also provides support for B4 lenses via a supplied adaptor for HD production.



Share Play: Efficient File Sharing Function Via 10 GbE IP Networking

The Share Play function can be utilized when the system is configured with the PWS-4500 server connected to the HDC-4800 together with the BPU-4800 via the network

Once clips have been recorded by the BPU-4800, the Share Play function enables these clips to be shared among all connected PWS-4500 servers. This delivers a more efficient workflow. For example, PWS-4500 server operators and highlight operators can view the clips in the BPU-4800, and can playback and output any of these clips from their own local server. There is no need to push or pull clips between different servers.



Replay Function

Using just the HDC-4800 and BPU-4800 along with control devices*, you can create a powerful replay server system with intuitive GUI operation that includes slow-replay control, highlight editing, and touch-panel capabilities.

*The PWSK-4403 Control Panel, the PWS-100PR1 Production Control Station, and the PWS-100MG1 Media Gateway Station are required for the replay system.





HD Cutout Function

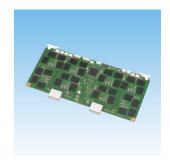
Powerful processing allows a Full HD high frame rate (HFR) image to be cut out from a 4K picture in real time. During replay, any portion of the captured image can be cropped to provide a close-up HD HFR image. This gives directors a powerful editorial tool to enrich live sports coverage with detailed analysis of the action.



Optional Accessories



OTM-10GSR1 SFP+ Transceiver Module



SKC-MEM4
Internal Memory Array



J-712-156-0A Camera Test Charts

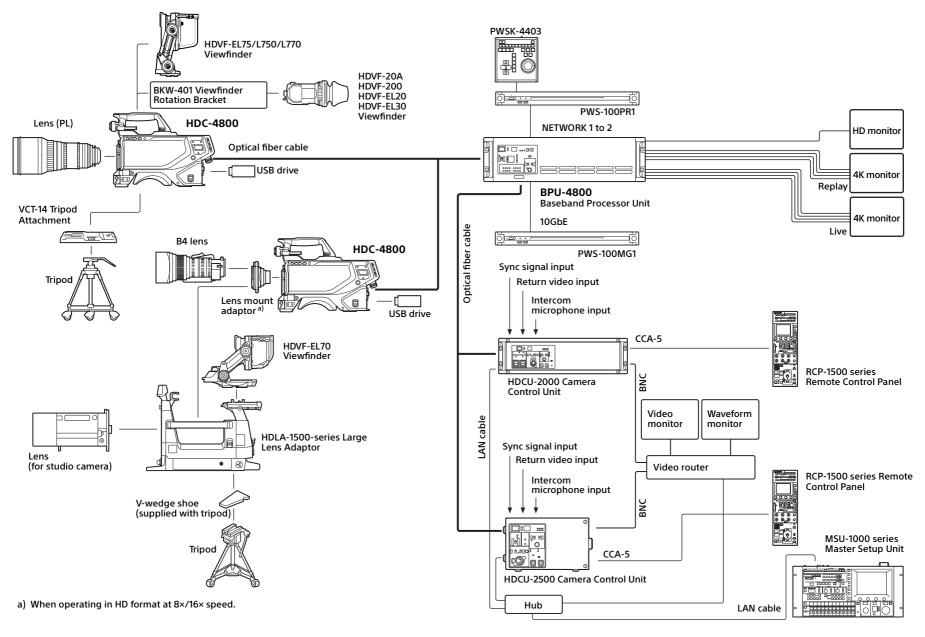
To incorporate a lens support when mounting a longer, heavier lens, you can attach the Vocas BP-18 19 mm Balance Plate to the HDC-4800 by fixing the Vocas Adapter Plate (item code: 0490-0030) under the camera.



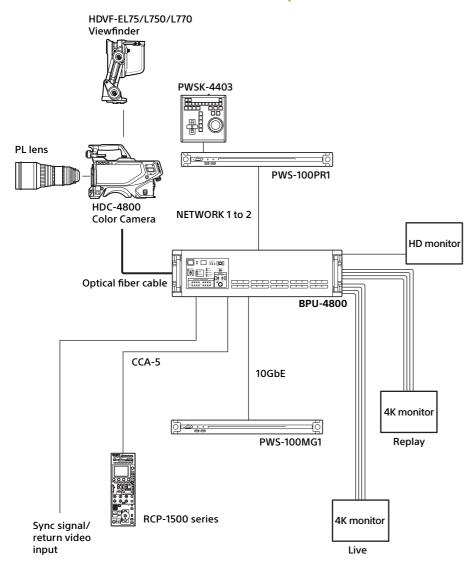
Adapter Plate

System Configuration Examples

HDC-4800 connection example



Extension mode connection example



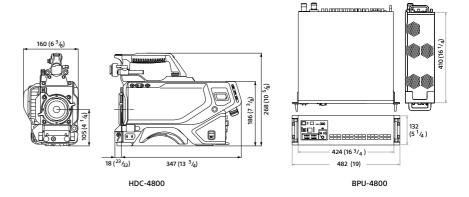
Specifications

		HDC-4800
General		
Power requirements		240 V AC, 1.4 A (max.), 180 V DC, 1.0 A (max.), 12 V DC, 9.5 A (max.)
Operating temperature	9	–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)
Imaging element		
Imaging element		S-35 mm CMOS image sensor
Method		Single chip
Effective resolution		QFHD: 3840 (horizontal) × 2160 (vertical)
		HD: 1920 (horizontal) × 1080 (vertical)
Electrical characteristi	cs	
Sensitivity		T5.6 (at 2000 lx with 89.9% reflectance. For 4K/59.94P (8×))
Image S/N		HD/59.94i: -62 dB
Horizontal resolution		2000 TVL (4K: screen centered) 5% or higher modulation
Geometric distortion		Negligible (not including lens distortion)
Optical system specif	ications	
Built-in filters	Color temperature conversion filters	A: 3200K (clear), B: 4300K, C: 6300K
Duite in inters	ND filters	1: Clear, 2: 1/4 ND, 3: 1/16 ND
Input/output connect	ors	
BPU		Optical/electrical multi-connector (LEMO 3K.93C connector) (x1)
LENS		12-pin (x1)
VF		20-pin (x1)
AUDIO IN CH1, CH2		XLR 3-pin, female (1 each)
		When AUDIO switch is set to MIC: -60 dBu (can be selected up to -20 dBu by menu or HDCU2000/2500 operations), balanced When AUDIO switch is set to LINE: 0 dBu, balanced
INTERCOM 1, INTERCOM 2		XLR 5-pin, female (1 each)
EARPHONE		Stereo minijack (x1)
DC IN		XLR 4-pin (x1), 10.5 V to 17 V DC
DC OUT		4-pin (x1), 10.5 V to 17 V DC, max. 0.5 A (This may be limited by the imposed load or inputs.) 2-pin (x1), 10.5 V to 17 V DC, max. 2.5 A (This may be limited by the imposed load or
		inputs.)
SDI 1, SDI 2		BNC (x1 each)
SDI-MONI		BNC (x1)
TEST OUT		BNC (x1)
PROMPTER		BNC (x1), 1 Vp-p, 75 Ω
PROMPTER2		BNC (x1), 1 Vp-p, 75 Ω
RET CTRL		6-pin (x1)
REMOTE		8-pin (x1)
TRACKER		10-pin (x1)
CRANE		12-pin (x1)
USB USB 2.0		Type A 4-pin (x1) (for connecting USB drive)
NETWORK TRUNK		RJ-45 type 8-pin (x1)
Supplied accessories		
Before Using this Unit (1), Screws (+B3×8) (2)	(1 set), Operating Instru	ctions (CD-ROM) (1), Lens mount adaptor (1), Cable clamp belt (1 set), Camera number label
General		BPU-4800
Power requirement		100 V to 127 V/200 V to 240 V AC, 50/60 Hz
Current consumption		
· · · · · · · · · · · · · · · · · · ·		4.5 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.		16.5 kg (36 lb 6.0 oz)
Dimensions (W x H x D)	424 x 132 x 410 mm (16 3/4 x 5 1/4 x 16 1/4 inches)

Optical/electrical multi-connector (LEMO 3K.93C connector) (x1)
Optical/electrical multi-connector (LEMO 3K.93C connector) (x1)
8-pin multi-connector (x1)
8-pin (x1)
1/2 SPF+ (x2)
RJ-45 (x1)
25-pin D-Sub, female (x1)
RJ-45 (x2), 1000BASE-T
USB (x1)
SFP+ (x1), 10GBASE-SR/LR (Add-in Card)
400 // 427 //200 // 240 //45 / 2)
100 V to 127 V/200 V to 240 V AC (x2)
BNC (x2),
3G-SDI: SMPTE ST424/425 Level-A/B, 2.970 Gbps/2.967 Gbps
HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps
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)
BNC (x1), 0.5 Vp-p to 5 Vp-p, 10 kΩ
BNC (x4),
CH 1/2 to CH 7/8, AES/EBU format, unbalanced
Note: When connecting devices for AES/EBU signal input/output, use a cable whos length is less than 300 meters (984 feet).
1-1-3
BNC (x8)
3G-SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 Ω, 2.970 Gbps/2.967 Gbps
BNC (x8)
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
BNC (x2)
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
BNC (x2)
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
BNC (x1)
HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps
BNC (x1)
HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps 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
SFP+ (x2), 10G BASE-** (using SFP+ transceiver module)
DUC/4) 45V
BNC (x1), 1.5 Vp-p, low impedance
BNC (x4), CH 1/2 to CH 7/8, AES/EBU format, unbalanced

Dimensions

Unit: mm (inches)



4K Baseband Processor BPU-4800

Rear



SONY

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