

XDCAM HD422 Recording Deck



Full-HD/SD Standard
Compact Recorder
With Linear Editing Capability

PDW-F1600

Full-HD Standard
Compact Recorder

PDW-HD1500

PDW-F1600 Features

- Linear Editing*1 using RS-422A control
 - Assemble
 - Audio/Video insert
 - A/V split



- 1080/23.98p format recording and playback capability as standard

CINEALTA

- Supports SD (MPEG IMX/DVCAM) recording modes as standard

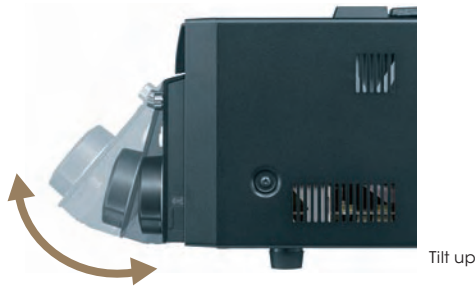
*1: Files generated by some NLE systems may not be edited.

PDW-F1600 and PDW-HD1500 Common Features

- High performance dual-optical head
- Multi format HD/SD recording/playback capability
 - HD recording at up to 50 Mbps using MPEG HD422 (MPEG-2 4:2:2P@HL compression)
 - Recording and playback in the MPEG HD format (MPEG-2 MP@HL compression)
 - 1080i and 720p recording and playback
 - Up/down-conversion and cross-conversion between 1080i and 720p
 - Three types of picture output mode are supported for down-conversion: Edge Crop, Squeeze, and Letterbox (16:9/14:9/13:9)
- High quality eight channel (HD-SDI) 24-bit audio recording
- High speed file transfer
 - i.LINK File Access Mode (FAM)
 - Gigabit Ethernet (1000BASE-T)
- Direct FTP function: allows file transfer via Ethernet without a PC
- RS-422A 9-pin remote control interface
- A wide variety of video and audio inputs and outputs, including two HD-SDI outputs
- Compatible with XDCAM carts: the PDJ-C1080 and PDJ-A640
- Compact and lightweight: half-rack size and 14 lb 5 oz (6.5 kg)
- AC, DC, or battery powered



- Built-in audio speaker
- Low power consumption: 65 W (DC powered) and 55 W (in power save mode, DC powered)
- Tilt up front panel



- A large easy-to-see 4.3-inch*1-type color LCD display
- Trigger REC function (synchronized recording with compatible camcorders*2)
- Video process control, by front panel operation or remote control panel via RS-422A
- Easy-to-use Jog/Shuttle dial
 - Jog: -1 to +1 times normal speed
 - Variable: -2 to +2 times normal speed
 - Shuttle: -20 to +20 times normal speed
 - Fast forward/rewind: -35/+35 times normal speed
 - A faster search mode can be used (approx. -50/50 times) in shuttle and fast forward/rewind
- Single Clip Playback for playout operation: allows users to play back just one selected clip
- Easy metadata input via USB keyboard*3 or software keyboard
- VANC (Vertical Ancillary) metadata recording and playback
 - Multiple VANC packets: handles nine packets per three lines (up to four packets in one line) and 18 packets per one frame
 - Closed-caption recording and playback via SDI input and output: SD (EIA-608), HD (EIA-708)
 - Closed-caption conversion recording: SD (EIA-608) closed-caption signals on SD-SDI input can be recorded as HD (EIA-708) closed captions
 - Optional PDBZ-UPG02 key expands functionality
- Disc Exchange Cache (up to 30 seconds)

- Clip Continuous REC function via RS-422A or HD-SDI using a Trigger REC function
- Optional accessories that enhance operational features:
 - PDBK-201 MPEG TS IN/OUT Board: allows users to input and output an HDV™ compatible stream in 1080i/720p format
 - PDBZ-UPG02 Software Upgrade Key
 - expands functionality for closed-caption handling
 - User Bit Insert
 - PDBK-F1500*4 24P Record and Playback Key: includes an SD (MPEG IMX/DVCAM) recording/playback capability
 - PDBK-S1500*4 (MPEG IMX/DVCAM) Recording and Playback Key

*1: Viewable area measured diagonally.
 *2: PDW-F800/700, HDW-650 Series, HDW-790, and HDW-F900R camcorders.
 *3: Some Keyboard cannot be used. Please refer to the supplied manual.
 *4: For PDW-HD1500 only. PDW-F1600 has this capability as standard.

Inputs/Outputs

PDW-F1600/HD1500 Inputs/Outputs

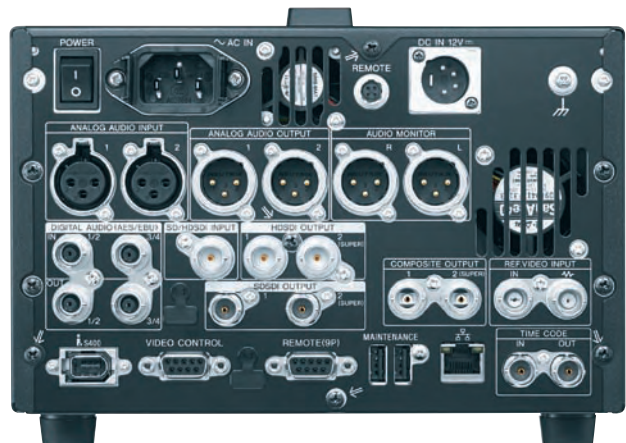
		PDW-F1600/HD1500
Signal input	SDI (HD/SD switchable)	BNC x 1
	Reference	BNC x 1
	Reference/Through	BNC x 1
	Analog Audio (Line)	XLR x 2
	Digital Audio, AES/EBU	BNC x 2, 4 Ch (2 Ch each, 1/2 Ch and 3/4 Ch)
	Time Code	BNC x 1
Signal output	HD-SDI	BNC x 1
	HD-SDI	BNC x 1 (Character On/Off)
	SD-SDI	BNC x 1
	SD-SDI	BNC x 1 (Character On/Off)
	SD Composite	BNC x 1
	SD Composite	BNC x 1 (Character On/Off)
	Analog Audio Line	XLR x 2
	Analog Audio Monitor	XLR x 2
	Digital Audio, AES/EBU	BNC x 2, 4 Ch (2 Ch each, 1/2 Ch and 3/4 Ch)
IT	i.LINK	6-pin x 1*1, File Access Mode or HDV*2 1080i/720P
	Ethernet	1000Base-T/100Base-TX/10Base-T x 1
Others	Phones	Stereophone-jack x 1
	Remote	D-sub 9-pin x 1, RS-422A
	Video Control	D-sub 9-pin x 1, EIA RS-423
	USB	x 2 (for maintenance)
Power	AC IN	x 1
	DC IN	XLR x 1
	DC OUT (12 V)	4-pin x 1

*1: AV/C (DV) interface is NOT supported.
 *2: Requires optional PDBK-201 board.

PDW-F1600/HD1500 VANC Metadata (Closed Caption) Recording and Playback

Functions	Standard	PDBZ-UPG02
E to E output and recording		
HD-SDI (EIA708) input => HD-SDI output (EIA708)	●	●
HD-SDI (EIA708) input => SD-SDI output (EIA608)	-	●
HD-SDI (EIA708) input => HD recording (EIA708)	●	●
SD-SDI (EIA608) input => SD-SDI output (EIA608)	●	●
SD-SDI (EIA608) input => HD-SDI output (EIA708)	-	●
SD-SDI (EIA608) input => SD recording*1 (EIA608)	●	●
SD-SDI (EIA608) input => HD recording (EIA708 with "wrapped EIA608")	●	●
Playback		
HD recording (EIA708) => HD-SDI output (EIA708)	●	●
HD recording (EIA708 with "wrapped EIA608") => HD-SDI output (EIA708)	●	●
HD recording (EIA708 with "wrapped EIA608") => SD-SDI output (EIA608)	-	●
SD recording*1 (EIA608) => SD-SDI output (EIA608)	●	●
SD recording (EIA608) => HD-SDI output (EIA708)	-	●
HD cross conversion playback: 1080 (EIA-708) <=> 720 (EIA-708)	-	●

*1: PDW-HD1500 requires optional PDBK-S1500 or PDBK-F1500 hardware key.



PDW-F1600/HD1500 Rear Panel

XDCAM HD422 Field Recorder



HD/SD Field/In-house
Multi purpose Recording Device
PDW-HR1

PDW-HR1 Features

- Multi format HD/SD recording/playback capability
 - HD recording at up to 50 Mbps using MPEG HD422 (MPEG-2 4:2:2P@HL compression)
 - Recording and playback in MPEG HD format (MPEG-2 MP@HL compression)
 - 1080i and 720p recording and playback
 - Up/down-conversion and cross-conversion between 1080i and 720p
 - Three types of picture output mode are supported for down-conversion: Edge Crop, Squeeze, and Letterbox (16:9/14:9/13:9)

- 1080/23.98p format recording and playback capability as standard

CINEALTA

- Supports SD (MPEG IMX/DVCAM) recording modes as standard
- 9-inch*3-type WVGA LCD
- Built in stereo speaker
- AC, DC, or battery powered



- Easy-to-use Jog/Shuttle dial
 - Jog: -1 to +1 times normal speed
 - Shuttle: -20 to +20 times normal speed
- Disc Exchange Cache (up to 30 seconds)
- Trigger REC function (synchronized recording with compatible camcorders*4)

- Excellent user interface for EDL-based (non-destructive) editing
 - Intuitively operable key panel
 - VTR editing-like GUIs
 - External player device control (e.g., a VTR/XDCAM deck) via the RS-422A interface



- Key panel illumination light for use in low light environments



- Video process control via front panel operation
- Phantom powered stereo microphone input
- Audio level control
- Audio channel mix monitor output
- Direct FTP function: allows file transfer via Ethernet without a PC
- EDL based voice over: video over and audio over*5 (option: PDBZ-UPG03*6 or PDBK-MK1*6)



- EDL based audio split and audio level editing
- Clip Continuous REC function
- Easy metadata input via USB keyboard*7 or software keyboard
- Composite input
- HDMI output for viewing
- IT interfaces for file transfer
 - i.LINK File Access Mode (FAM)
 - Gigabit Ethernet (1000BASE-T)
- Input and output of an HDV compatible stream in 1080i/720p format (option: PDBK-202)
- DVB-ASI output (option: PDBK-202)

- SxS Memory Card Adaptor (option: PDBK-MK1*6)
 - Two slots for SxS™ PRO™ Memory Card
 - Simultaneous recording on Professional Disc media and SxS Pro Memory Card
 - File copying or baseband copying*8 between Professional Disc media and SxS Pro Memory Card
 - Material copying from Professional Disc media to SxS Pro Memory Card based on a Clip List
 - EDL based voice over: video over and audio over*5 (the PDBK-MK1 adaptor includes the function of the PDBZ-UPG03 key)



*1: Audio specifications vary according to recording mode.
 *2: 18-Mbps mode is playback only.
 *3: Viewable area measured diagonally.
 *4: PDW-F800/700, HDW-650 Series, HDW-790, and HDW-F900R camcorders.
 *5: Audio track must be less than three minutes.
 *6: Planned for release in the second half of 2010.
 *7: Some keyboards cannot be used. Please refer to the supplied manual.
 *8: Capabilities depend on recording formats.

PDBK-MK1 Applications

Simultaneous Recording



On-location Copy and Reuse



PDW-HR1 Rear Panel



Hand Grip