

XDS-1000

XDCAM Deck / IT Server with two SxS memory slots and 1TB HDD



Overview

The XDS-1000 supports the operation of all SxS cards types, including Memory Stick and SDHC cards, using MEAD adaptors. The Internal 1TB Hard Disk Drive and the 1Gigabit Ethernet connection allow a total of about 32 hours of continuous recording in HD422 50Mbps and multi-user simultaneous access to the AV content.

Hybrid XDCAM workflow

The XDCAM Station is a professional media station with built-in storage and interfaces for SxS memory cards, supporting the super fast XDCAM memory workflow. It features better support for multi-task operation, networking and other IT functions. Adding the XDCAM Station to an XDCAM workflow makes file-based operation much more convenient and efficient.

Features

Supports all XDCAM storage formats

The XDS-1000 supports all XDCAM and XDCAM EX file formats, codecs and metadata, effectively offering complete format transparency. It also supports industry-standard VDCP, ftp and CIFS protocols.

Multi-tasking internal storage operations

The 1 TB Hard Disk Drive (HDD) internal storage is capable of multi-tasking when carrying out certain tasks. This increases

interoperability and overall efficiency when working with Network Production systems.

Familiar VTR-like user interface

The layout of controls on the XDS deck follows industry-standard conventions already familiar to most users. This makes it easy to use, configure and integrate into the overall workflow.

Enhances network functionality

The XDS-1000 allows users to access growing volumes of files from non-linear editors without file transfer, offering high-speed file transfer and multiple access via a network. The XDS-1000 offers 4 clients for file transfer and 4 clients for network control.

SD / HD cross-conversion

It supports SD and HD as standard with up-conversion record, and up/down/cross-conversion playback.

Specifications

General

Power Requirements	AC 100 V to 240 V, 50/60 Hz
Power Consumption	170W
Operating Temperature	5°C to 40°C 42°F to 104°F
Storage Temperature	-20°C to +60°C -4°F to +140°F
Humidity	20% to 90% (relative humidity)
Mass	15.5 kg 34 lb 2 oz

Dimensions (W x H x D) *1	424 x 132 x 460 mm (excluding protrusions) 16 3/4 x 5 1/4 x 18 1/8 inches (excluding protrusions)
Recording/Playback Format (Video)	MPEG HD422 (CBR, 50 Mbps) MPEG HD: - HQ mode (VBR, maximum bit rate: 35 Mbps), - SP mode *2 (CBR, 25 Mbps), - LP mode *2 (VBR, maximum bit rate: 18 Mbps), MPEG IMX (CBR, 50/40 *2 /30 *2 Mbps) DVCAM (CBR, 25 Mbps)
Recording/Playback Format (Audio)	MPEG HD422: 8 ch/24 bits/48kHz, MPEG HD: 4/2 ch/16bits/48kHz, MPEG IMX: 8 ch/16 bits/48 kHz, or 4 ch/24 bits/48 kHz, DVCAM: 4 ch/16 bits/48 kHz
Recording/Playback Format (Proxy Video)	MPEG-4
Recording/Playback Format (Proxy Audio)	A-law (8 ch/8 bits/8 kHz)
Recording/Playback	50 Mbps: Approx. 95 min (PFD50DLA), Approx. 43 min

Time (MPEG HD422) (PFD23A)

35 Mbps, 4-ch audio: More than 145 min (PFD50DLA), More than 65 min (PFD23A)
 35 Mbps, 2-ch audio (playback only): More than 150 min (PFD50DLA), More than 68 min (PFD23A)
 25 Mbps, 4-ch audio: Approx. 190 min (PFD50DLA), Approx. 85 min (PFD23A)
 Recording/Playback Time (MPEG HD) 25 Mbps, 2-ch audio (playback only): Approx. 200 min (PFD50DLA), Approx. 90 min (PFD23A)
 18 Mbps, 4-ch audio (playback only): More than 248 min (PFD50DLA), More than 112 min (PFD23A)
 18 Mbps, 2-ch audio (playback only): More than 265 min (PFD50DLA), More than 122 min (PFD23A)

50 Mbps: Approx. 100 min (PFD50DLA), Approx. 45 min (PFD23A)
 Recording/Playback 40 Mbps: Approx. 120 min (PFD50DLA), Approx. 55 min

Time (MPEG IMX)	(PFD23A) 30 Mbps: Approx. 150 min (PFD50DLA), Approx. 68 min (PFD23A)
Recording/Playback Time (DVCAM)	25 Mbps: Approx. 185 min (PFD50DLA), Approx. 85 min (PFD23A)
Search Speed Range (Shuttle Mode)	-20 times to +20 times normal speed
Search Speed Range (Variable Mode)	-2 times to +2 times normal speed
Search Speed Range (Jog Mode)	-1 time to +1 time normal speed
Search Speed Range (Fast Forward/Reverse)	-35/+35 times normal speed

Media Drive

Media Type	SxS Memory Card Drive, ExpressCard/34 (x2)
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Internal Storage

Storage Type	HDD, SATA, 500 GB, (x3)
Total Capacity (For Recording)	1 TB
Raid	Raid-4
Recording/Playback Time (Internal Storage)	<p>MPEG HD422: 50Mbps: Approx. 30 hour</p> <p>MPEG HD: - 35 Mbps, 4-ch audio: More than 48 hour - 35 Mbps, 2-ch audio: More than 50 hour *2 - 25 Mbps, 4-ch audio: Approx. 63 hour *2 - 25 Mbps, 2-ch audio: Approx. 66 hour *2 - 18 Mbps, 4-ch audio: More than 82 hour *2 - 18 Mbps, 2-ch audio: More than 88 hour *2</p> <p>MPEG IMX: - 50 Mbps: Approx. 33 hour - 40 Mbps: Approx. 40 hour *2 - 30 Mbps: Approx. 50 hour *2</p> <p>DVCAM: - 25 Mbps: Approx. 61 hour</p>

Input/Output

Reference Input	BNC (x2) (including loop-through), HD Tri-level sync (0.6 Vp-p/75 Ω/negative) or SD blackburst/composite sync (0.286 Vp-p/75 Ω/negative)
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HD-SDI Input	BNC (x1) (HD/SD switchable) HD-SDI: SMPTE 292M (w/embedded audio) SD-SDI: SMPTE 259M (w/embedded audio)
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Analog Audio Input	XLR-type 3-pin (female) (x2) (channel selectable), +4/0/-3/-6 dBu (selectable), 10 kΩ, balanced
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Digital Audio Input (AES/EBU)	BNC (x4), 8 ch (2 ch each, 1/2 ch, 3/4 ch, 5/6 ch and 7/8 ch), AES-3id- 1995
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Timecode Input	BNC (x1), SMPTE timecode, 0.5 Vp- p to 18 Vp-p/10 kΩ/unbalanced
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System Timecode Input	BNC (x1), SMPTE timecode, 0.5 Vp- p to 18 Vp-p/10 kΩ/unbalanced
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Analog Composite Output	BNC (x1), 1.0 Vp-p/75 Ω/negative, SMPTE 170M
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HD-SDI Output	BNC (x2), 1: SMPTE 292M (w/embedded audio) 2: SMPTE 292M (w/embedded audio), character on/off
Monitor	DE-15 (x1), VGA
HD-SDI Monitor	BNC (x1), SMPTE 292M (w/embedded audio), character on/off
SD-SDI Monitor	BNC (x1), SMPTE 259M (w/embedded audio), character on/off
Analog Composite Monitor	BNC (x1), 1.0 Vp-p/75 Ω/negative, SMPTE 170M, character on/off
HDMI Monitor	Type-A (x1), 19 pin
Analog Audio Output	XLR-type 3-pin (male) (x2) (channel selectable), +4/0/-3/-6 dBu (selectable), 600 Ω, Lo-z, balanced
Analog Audio Monitor	XLR-type 3-pin (male) (x2), +4 dBu, 600 Ω, Lo-Z, balanced
Digital Audio Output (AES/EBU)	BNC (x4), 8 ch (2 ch each, 1/2 ch, 3/4 ch, 5/6 ch and 7/8 ch), AES-3id-1995

Headphone Output	JM-60 Stereo phone jack (x1), -13 dBu, 8 Ω , unbalanced
Timecode Output	BNC (x1), SMPTE timecode, 1.0 Vp-p/75 Ω /unbalanced
Video Control	D-sub 9-pin (female) (x1), EIA RS-423
Ethernet	RJ-45 (x1) 1000BASE-T: IEEE 802.3ab 100BASE-TX: IEEE 802.3u 10BASE-T: IEEE 802.3
Remote Input (9-pin)	D-sub 9-pin (female) (x2), RS-422A
Remote (GPIO)	D-sub 15-pin (female) (x1), Input: CMOS, Output: open-collector
Maintenance	USB (x5)
AC Input	AC Input (x1), 100 V to 240 V, 50/60Hz

Video Performance

Sampling Frequency	Y: 74.25 MHz, Pb/Pr: 37.125MHz
Quantization	8 bits/sample
Error Correction	Reed Solomon Code

Processor Adjustment Range

Video Level	$-\infty$ to +3 dB
Chroma Level	$-\infty$ to +3 dB
Set Up/Black Level	-30 IRE to +30 IRE/-210 mV to +210 mV
Chroma Phase	-30° to $+30^\circ$
System Sync Phase	-15 μ s to +15 μ s
System SC Phase	0 ns to 400 ns

Audio Performance

Sampling Frequency	48 kHz
Quantization	24 bits
Frequency Response	20 Hz to 20 kHz +0.5/-1.0 dB (0 dB at 1 kHz)
Dynamic Range	More than 90 dB
Distortion	Less than 0.05% (at 1 kHz)
Headroom	20/18/16/12/9 dB (selectable)

Other Equipment

Built-in Display	4.3-inch type color LCD monitor
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Expansion Slot	PCI Express (x2), 8-lane
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Supplied Accessories

Supplied Accessories	Operation manual (1) Installation manual (1)
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Notes

Note	*1 The values for dimensions are approximate. *2 Playback and copy only.
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Gallery

