

FEATURES

- Affordable JPEG2000 Quality in 1RU package
- Records SD or HD JPEG2000.mov files
- Auto detect of SD/HD 50/59.94 FPS
- Data rates up to 100 Mbit/s
- 4:2:2 sampling
- 10 bit resolution
- Easy RS-422 machine control
- 8 embedded audio channels for HD
- 4 embedded audio channels for SD
- Up to 4 channels AES or 2 channels analog audio
- Genlock input
- SMPTE/EBU Longitudinal & Ancillary Time Code
- Discrete access to every frame
- 2.5" SATA drive Enclosure with USB connectivity
- Loop record feature
- Instant cueing and clip recall
- Dynamic tracking



The Fast Forward Video Micron HD delivers all the advantages of the renowned Omega HD in an affordable and compact 1RU space saving unit .

The Micron HD is a Tapeless Digital Video Recorder with exceptional image quality using JPEG 2000 compression.

The Micron HD uses industry standard removable SATA drives with integrated USB port to easily transfer files to computers and networks.

Easy to control with front panel buttons, or remotely with external VTR/DDR controllers through the RS-422 port.

The Micron HD is an ideal solution for Worship capture and playback, Slow-Motion sports replay, and event staging applications looking to save space and cost.

VIDEO INPUT/OUTPUT

Digital Input/Output:
Standards: SD/HD-SDI
SMPTE 274M (1080i)
SMPTE 296M (720p)
SMPTE 347M (NTSC & PAL)
SMPTE 334M-1 (closed caption)
SMPTE 334M-2 (closed caption)
SMPTE 12M-2-2008 (ancillary time code)

Genlock Input: 60 Hz: Blackburst SMPTE 170 M;
50 Hz: ITU-R BT.470; Tri-Level

Supported Resolutions: 1080i/60/59.94/50
(1920 x 1080/60/59.94/50/2:1 Interlace)
720p/60/59.94/50
(1280 x 720/60/59.94/50/Progressive)
720p/23.98/24.00
NTSC (720 x 486/59.94/2:1 Interlace)
PAL (720 x 576/50/2:1 Interlace)
Supports 4:3 or 16:9 aspect ratio

Connections: BNC 75 ohms

AUDIO INPUT/OUTPUT

Digital Input/Output: 8 Channels embedded HD-SDI
4 Channels embedded SD-SDI
4 Channels AES

Connections: BNC connectors unbalanced

AUDIO SPECIFICATIONS

Resolution: 24 bits
Audio Channels: HD embedded 8 in/8 out
SD embedded 4 in/4 out
4 channels AES/EBU
(these replace embedded channels 1-4)

Sampling Rate: 48 KHz

ANALOG AUDIO INPUT/OUTPUT (option replaces AES)

Analog Input/Output: Stereo Balanced
Connections: XLR Connectors

ANALOG AUDIO SPECIFICATIONS

Resolution: 16 bits
Audio Channels: 2 in 2 out (per video channel)

Output Impedance: 600 ohms

Sampling Rate: 48 KHz

COMMUNICATION INTERFACE

Optional Analog Audio I/O



RS-422 Interface: 38400 baud
Protocols: Sony Remote -1 (9 Pin)
Odetics
Fast Forward Video Native

HARD DRIVES
Supported Hard Drive: 2.5" SATA HDD or SSD Drive
Enclosure: Supports 9.5mm drive height

TIME CODE
SMPTE/EBU: Longitudinal (LTC)
Ancillary (ATC)

VIDEO COMPRESSION
Method: Motion JPEG2000 (J2K)
File Format: QuickTime or Native
Maximum Bit Rate: HD:100Mbit/s
SD: 50 Mbit/s

GENERAL
Physical Dimensions: 1.75"H x 17"W x 11"D
1RU
Power Consumption: 20 Watts
Operating Temperature: 0c to 50c
Humidity: 90% relative humidity with no visible condensation

WARRANTY: 1 Year Parts & Labor



Drive Enclosure



Fast Forward Video

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