

STANDARD FEATURES

- Front panel touch screen control
- RS-422 machine control
- Records JPEG2000.mov file in HD or SD
- 100 Mbit/s data rate per channel
- 4:2:2 Sampling
- 10 bit quantization
- 8 embedded audio channels per HD video channel
- 4 embedded audio channels per SD video channel
- Up to 4 channels AES audio per video channel
- 2 channels balanced per video channel
- NTSC & PAL
- Conforms to industry digital specification SMPTE 259M-C and SMPTE 292(HD-SDI)
- Genlock input
- SMPTE/EBU Longitudinal Time Code
- Chase Lock
- Discrete access to every frame
- Uses two 3.5" or 2.5" (1/2 CH) SATA drives
- Loop record feature
- Instant cueing, clip recall
- Playlist Management and clip naming from the front panel
- Dynamic tracking
- Variable speed noise-free playback forward and reverse
- Gigabit Ethernet file download



The OMEGA HD deck by Fast Forward Video is a high definition broadcast quality Digital Video Recorder based on JPEG2000 compression. Available in either single and dual channel or simultaneous play and record configurations, it delivers all the advantages of HD images and the random access non-linear benefits of hard disk media.

Single and dual channel units offer removable, hot swappable 2.5" SATA drives compatible with Elite HD and feature SATA and USB port for video download.

The Simultaneous Playback and Record (SPR) configuration allows you to replay that slow motion clip while recording the action without missing a second. It is capable of up to 18 hours of record time based on two 500 GB drives and it includes a USB 2.0 port to easily download video files. The Omega HD is the ideal replacement for standard definition DVRs and analog tape decks.

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 RP188 (ancillary time code)

Genlock Input: 60 Hz: Blackburst SMPTE 170 M;
50 Hz: ITU-R BT.470; 75 ohm

Supported Resolutions: 1080i/60/59.94/50/24
(1920 x 1080/60/59.94/50/2:1 Interlace)
1080PsF/23.98/24.00
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

DIGITAL AUDIO INPUT/OUTPUT

Digital Input/Output:
Connections: 8 Channels embedded HD-SDI
4 Channels embedded SD-SDI
BNC connectors unbalanced

DIGITAL 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
Sampling Rate: 48 KHz

ANALOG AUDIO INPUT/OUTPUT

Analog Input/Output:
Connections: Stereo Balanced
XLR Connectors

ANALOG AUDIO SPECIFICATIONS

Resolution: 16 bits
Audio Channels: 2 in 2 out (per video channel)
Dynamic Range: 80 dB
Harmonic Distortion: 0.22%, -73dB
Output Impedance: 600 ohms
Sampling Rate: 48 KHz
Passband: .045 FS
Passband Ripple: +/- 0.1 dB

COMMUNICATION INTERFACE

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

HARD DRIVES

Maximum Hard Drives: 1 per channel
Supported Hard Drives: 3.5" Hitachi/WD/Seagate
Enclosure: Supports 25mm drive height
Supported Hard Drive
for 1/2 CH: 2.5" SATA HDD or SSD Drive
Enclosure: Supports 9.5mm drive height
Preferred SATA Drive: Hitachi Cinema Star 2.5" - C5K320
(120GB)
Acceptable SATA Drive: Hitachi Enhanced 2.5" - 0A55263
(120,250,320GB)
SSD Drive: Super Talent and RiData

TIME CODE

SMPTE/EBU Longitudinal (LTC)

VIDEO COMPRESSION

Method: Motion JPEG2000
File Format: QuickTime or Native
Maximum Bit Rate: HD:100Mbit/s
SD: 50 Mbit/s

GENERAL

Physical Dimensions: 3.5"H x 1.7" W x 1.4" D
2RU - rack ears included
Power Consumption: 125 Watts
Operating Temperature: 0c to 50c
Humidity: 90% relative humidity with no
visible condensation

WARRANTY

1 Year



(Dual CH shown)

Specifications subject to change



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