

## 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 resolution
- 8 embedded audio channels per HD video channel
- 4 embedded audio channels per SD video channel
- Up to 4 channels AES or 2 channels analog audio 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
- Basic playlist management and clip naming from the front panel
- Dynamic tracking
- Variable speed noise-free playback forward and reverse
- Gigabit Ethernet file download only (Single or SPR option)

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.

FV:6/17/10OHD

## 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; 75 ohm

Supported Resolutions: 1080i/60/59.94/50/24  
(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

## DIGITAL AUDIO INPUT/OUTPUT

Digital Input/Output:  
8 Channels embedded HD-SDI  
4 Channels embedded SD-SDI  
4 Channels AES  
Connections: 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 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)  
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" Supports 25mm drive height  
2.5" SATA HDD or SSD Drive  
Supports 9.5mm drive height  
See technical support page at  
www.ffv.com for recommended drives

## 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 x17" W x 14" D  
2RU  
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



**Fast Forward Video**

1151 Duryea Avenue  
Irvine, California 92614

[www.ffv.com](http://www.ffv.com)  
[sales@ffv.com](mailto:sales@ffv.com)

Ph. 949.852.8404  
Fx. 949.852.1226