

STANDARD FEATURES

- Front Panel Touch Screen Control
- Record in HD or SD
- Data rates up to 100 Mbit/s 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
- NTSC 60fld/sec, 30frm/sec
PAL 50fld/sec, 25frm/sec
- RS-422 Machine Control
- 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" (SPR) 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
- USB 2.0 (SPR or 2.5" drive enclosure)



The OMEGA HD deck by Fast Forward Video is a high definition broadcast quality Digital Video Recorder based on JPEG 2000 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.

OPTIONAL FEATURES

- Redundant PSU

FFV:03/20/09OHD

VIDEO INPUT/OUTPUT

Digital Input/Output: SD/HD-SDI
Standards: 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 pfsf
(1920 x 1080/60/59.94/50/2:1
Interlace)
1080s/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

AUDIO INPUT/OUTPUT

Digital Input/Output: 8 Channels embedded HD-SDI
4 Channels embedded SD-SDI
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 optional;
these replace embedded
channels
Sampling Rate: 48 KHz

COMMUNICATION INTERFACE

RS-422 Interface: 38400 baud
Protocols: Sony Remote -1 (9 Pin)
Odetics
Fast Forward Video Native
USB Port: 2.0 (SPR or 2.5" drive enclosure)



Specifications subject to change

HARD DRIVES

Maximum Hard Drives: 1 per channel
Supported Hard Drives for SPR: 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
Record Time: 1 minute per GB

TIME CODE

SMPTE/EBU Longitudinal (LTC)

VIDEO COMPRESSION

Method: Motion JPEG2000
Maximum Bit Rate: HD: 100Mbit/s
SD: 50 Mbit/s

GENERAL

Physical Dimensions: 3.5"H x 17" 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



Fast Forward Video

1151 Duryea Avenue
Irvine, California 92614

www.ffv.com
sales@ffv.com

Ph. 949.852.8404
Fx. 949.852.1226