

# ΩMEGA<sup>HD</sup> ESSENTIALS

**FFV**



## STANDARD FEATURES

The Omega HD Essential is your cost-effective simultaneous play and record DVR solution. You can record and playback at the same time for easy live streaming or time delay applications. This unit is capable of up to 18 hours of record time and uses standard over-the-counter 3.5" drives. Not only does the Omega HD Essential provide the necessary features for the corporate and house of worship markets but also superior image quality.

- Front panel touch screen control
- Records JPEG2000.mov file in HD or SD
- 100 Mbit/s data rate per channel (HD)
- 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
- Conforms to industry digital specification SMPTE 259M-C and SMPTE 292(HD-SDI)
- SMPTE/EBU Longitudinal Time Code
- Discrete access to every frame
- Uses two 3.5" SATA drives
- Instant cueing, clip recall
- Dynamic tracking
- Variable speed noise-free playback forward and reverse
- Loop record and playback
- Patented single frame cue latency

FV:7/23/10OHDE

**Fast Forward Video**

1151 Duryea Avenue, Irvine, California 92614  
949.852.8404 [www.ffv.com](http://www.ffv.com)

**A DVR Technology Company**

## 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)

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)  
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  
See technical support page at  
www.ffv.com for recommended drives

## TIME CODE

SMPTE/EBU Longitudinal (LTC)

## VIDEO COMPRESSION

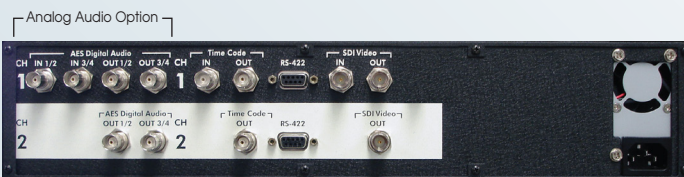
Method: JPEG2000  
File Format: QuickTime or Native  
Maximum Bit Rate: HD: 100Mbit/s  
SD: 50 Mbit/s

## 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



(Dual CH shown)

Specifications subject to change



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