

# OMEGA DECK™

## DIGITAL VIDEO RECORDER



### STANDARD FEATURES

- Front panel touch screen menu
- Analog component (Y/R-Y/B-Y) and composite video I/O
- SDI option
- Switchable output between Y/R-Y/B-Y and RGB
- Balanced stereo audio
- NTSC 60fld/sec 30 frm/sec  
PAL 50fld/sec 25frm/sec
- RS:422 Machine Control  
Sony/SMPTE Protocol
- Conforms to industry digital specification  
CCIR 601, 4:2:2
- Genlock input locks analog video output  
to external sync
- SMPTE/EBU longitudinal time code (LTC)
- Chase lock
- User selectable Motion JPEG compression  
as low as 4:1
- Discrete access to every frame
- Uses SCSI drives
- Loop record feature
- Instant cueing, clip recall
- Playlist management and clip naming  
from the front panel
- Play clips with different compression  
settings in one playlist
- Dynamic tracking
- Variable speed noise free playback,  
forward and reverse
- Includes PC controller software



The Omega Deck™ by Fast Forward Video is a SCSI hard disk based broadcast quality Digital Video Recorder.

Available in either single or dual channel configurations, it's the ideal replacement for analog tape decks and laser disk players. The Omega SD delivers all the advantages of clean digital images and the random access non-linear benefits of hard disk media, as well as the familiar transport controls, inputs and outputs found on current analog VTRs.

The sleek front panel provides access to record and playback settings including user selectable compression and playlist management.

FV: 04/14/09OSD

**Fast Forward Video**

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**A DVR Technology Company**

## VIDEO INPUT

Analog Input: Component (Y,R-Y,B-Y) and composite  
 Levels: 1.0Vp-p, 75 ohms  
 Standards: 525/60(NTSC) or 625/50(PAL)

## VIDEO OUTPUT

Analog Output: Component (Y, R-Y, B-Y) and composite  
 Horizontal Resolution: Greater than 550 TV Lines (at 4:1 compression)  
 Levels: 1.0Vp-p, 75 ohms  
 Standards: 525/60(NTSC) or 625/50(PAL)  
 Connections: BNC

## VIDEO INPUT DECODER

Format: Digital 4:2:2 YCrCb  
 60 fields/second NTSC  
 50 fields/second PAL  
 Digital Color Space: YUV  
 Sampling: 13.5 MHz  
 Pixel Resolution: 720 x 486 pixels (525/60)  
 720 x 576 pixels (625/50)  
 Supports 4:3 or 16:9 aspect ratio  
 S/N Ratio: 45 dB  
 Bandwidth: 8 MHz (-3dB)  
 Differential Gain: 2%  
 Differential Phase: 2 degrees

## VIDEO OUTPUT ENCODER

Digital Color Space: YUV, 16 bits per channel  
 Analog Bandwidth: Y: 6.75 MHz  
 C: 1.3 MHz  
 Composite: 4.5MHz (NTSC)  
 5.0 MHz (PAL)  
 S/N Ratio: 60 dB

## VIDEO COMPRESSION

Method: Motion JPEG  
 (Joint Photographic Experts Group)  
 Compression Ratio: Variable from 4:1 to 20:1

## SCSI DISK CONTROLLERS

Protocol: Ultra-2 SCSI  
 Maximum Data Rate: 40MB/second  
 Maximum Hard Drives: 2 internal  
 Supported Hard Drives: Seagate Cheetah 10,000 rpm  
 ST373207LC or ST373807LC  
 8 hour recording capacity  
 4 to 20 minutes per GB

Record Time:

## AUDIO INPUT/OUTPUT

Analog Input/Output: Stereo Balanced  
 Connections: XLR Connectors

## 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

## COMMUNICATIONS INTERFACE

RS-422 Interface: 9600/38400 baud

## TIME CODE

SMPTE/EBU Longitudinal (LTC)

## GENLOCK INPUT

Level: 1.0V p-p 75 ohms

## DIMENSIONS

Physical: 3.5" H x 17" W x 14" D

## WARRANTY

1 year



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