

# OMEGA DECK™

## DIGITAL VIDEO RECORDER

### 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 30frm/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, allowing up to 7 drives per channel
- 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



### Broadcast

Sports Trucks / Instant Replay  
Slow Motion  
Key & Fill  
Animation  
Spot Insertion

### Presentation

Video Walls  
Dynamic Playlists  
Staging  
Instant Cueing  
Laser Disk Replacement

### Film Production

Video Assist  
Variable Frame Rate  
Multi Camera sync playback

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. It 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.



TOUCH SCREEN CONTROL



QUICK OPENING LATCH



HOT SWAPPABLE DRIVES



FAST LOADING MEDIA

# OMEGA DECK™

## DIGITAL VIDEO RECORDER

### SPECIFICATIONS

#### VIDEO INPUT

Analog Input: Component (Y,R-Y,B-Y) and composite  
 Levels: 1.0Vp-p, 75 ohms  
 Standards: 525/60(NTSC) or 625/60(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)  
 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: Composite: 4.5 MHz (NTSC)  
 5.0 MHz (PAL)  
 S/N Ratio: 60 db

#### VIDEO COMPRESSION

Method: Motion JPEG  
 Compression Ratio: User Selectable as low as 4:1

#### Dimensions

Physical 3.5"H x17" W x 14" D

#### 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: 022%, -73 db  
 Output Impedance: 600 ohms  
 Sampling Rate: 48 KHz  
 Passband: .045 FS  
 Passband Ripple: +/- 0.1 db

#### SCSI DISK CONTROLLERS

Protocol: Ultra-2 SCSI  
 Maximum Data Rate: 40 MB/second  
 Maximum Hard drives: 2 internal/7 max per channel  
 Supported Hard drives: Seagate Cheetah 10,000 rpm

#### COMMUNICATIONS INTERFACE

RS-422 Interface: 9600/38400 baud

#### TIME CODE

SMPTE/EBU Longitudinal (LTC)

#### GENLOCK INPUT

Level: 1.0Vp-p 75 ohms

#### WARRANTY

1 Year



(REAR PANEL OF OMEGA DUAL DECK SHOWN)

**OMEGA DECK** – single video channel with balanced stereo audio, RS:422 machine control, and time code in/out. Ideal for all broadcast quality playback applications requiring a single source.  
 Available in either fixed media(solid front) or removable media(hinge front) configuration.

**OMEGA DUAL DECK** – two video channels in one chassis, each video channel has it's own stereo audio, RS:422 control, time code and disk storage. Features include synchronized playback of both channels, independent or simultaneous Record & Playback.  
 Available in either fixed media (solid front) or removable media (hinge front) configuration.

**OMEGA RAID DECK** – a dual channel recorder with a built in RAID (disk array) controller. It features two independent channels of shared video storage, making it ideal for spot insertion, instant replay, and broadcast delay applications.

#### OPTIONS

- Serial Digital Interface (D1, SDI I/O) (CCIR 656), SMPTE 259 M-C, 270 Mbps
- Internal/External Disk Placement
- Removable, Hot Swap media from the front of the chassis

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