

DigiDeck

digital video recorder™

FEATURES

- Fully integrated Motion JPEG digital video recorder
- NTSC 60fld/sec 30 fr/Sec
- PAL 50 fld/sec 25 fr/Sec
- Analog Composite and Y/C input and output
- Conforms to industry standard digital specification CCIR 601 4:2:2
- Compression ratios of from 4:1 to 20:1
- Two channels of Unbalanced Audio
- Front Panel Touchscreen Menu
- Dynamic tracking
- Chase lock
- Loop record
- Genlock input locks analog video output to external sync
- RS 422 Control (Sony/Odetics Protocol)
- Discrete access to every frame
- Instant cueing, clip recall
- Playlist management and clip naming from the front panel
- Play clips with different compression settings in one playlist
- Variable speed noise-free playback forward and reverse
- ATAPI 2.5" hard drive interface for laptop hard drives
- Single or Dual Channel Configurations

Optional Features / Accessories:

- Component Output (switchable to RGB out via the front panel)
- Travelstar IDE Hard Drives (one drive per channel required)
- Windows Controller Software (Win 95, 98, ME, NT, 2000, and XP) enables Internal timecode, Real-time clock, and Time lapse recording



Presentation

Video Walls
Staging
Laser Disk
Replacement

In Studio

Slow Motion
Animation
Spot Insertion

Film Production

Video Assist
Variable Frame Rate
Multi Camera
sync playback

The DigiDeck digital video recorder™ from Fast Forward Video is an ATAPI 2.5" hard disk based industrial multi-use DVR providing broadcast quality digital video.

The DigiDeck PC digital video recorder™ records video to removable drives as QuickTime™ (.mov) files for viewing on a PC, while still maintaining active analog composite and Y/C outputs, with optional RGB/Component output.

Available in either single or dual channel configurations, it is 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 intuitive front panel touch screen provides access to record and playback settings including: user selectable compression, speed of play, and playlist management.

*QuickTime is a trademark of Apple Computer, Inc.



VIEWABLE QUICKTIME™ FILES



TOUCH SCREEN CONTROL



TRAVELSTAR IDE DRIVES



OPERATOR CONTROL

DigiDeck

digital video recorder™

SPECIFICATIONS

VIDEO INPUT

Analog Input: Composite and Y/C
Levels: 1.0V p-p, 75 ohms
Standards: 525/60 (NTSC) or 625/50 (PAL)

VIDEO OUTPUT

Analog Output: Composite and S-Video (Y/C).
Composite/Component Switchable to RGB Out
Horizontal Resolution: 550 TV lines (at 4:1 compression)
Levels: 1.0V p-p, 75 ohms
Standards: 525/60 (NTSC) or 625/50 (PAL)
Connections: multi-pin for component

VIDEO INPUT DECODER

Format: Digital 4:2:2 YCrCb
60 fields per second NTSC
50 fields per second PAL
YUV
Digital Color Space: 13.5 MHz
Sampling: 720 x 486 pixels (525/60)
Pixel Resolution: 720 x 576 pixels (625/50)
50 dB
S/N Ratio: 70 MHz (-3 dB)
Bandwidth: 2%
Differential Gain: 2 deg.
Differential Phase: +/- 0.7 LSB
ADC Differential Linearity: +/- 1.0 LSB
ADC Integral Linearity:

VIDEO OUTPUT ENCODER

Digital Color Space: Digital 4:2:2 YCrCb
Analog Bandwidth: Y: 6.75 MHz
C: 1.3 MHz
Composite: 4.5 MHz NTSC
5.0 MHz PAL

DAC Resolution: 10 bits x 3
S/N Ratio: 60 dB

VIDEO COMPRESSION

Method: JPEG (Joint Photographic Experts Group)
Compression Ratio: Variable down to 4:1

MEMORY

Multi-port Frame Buffer: 8 MB DRAM
Aggregate Bandwidth: Greater than 45 MB/second

MICROPROCESSOR

Type: Intel 80386EX
Clock Speed: 40 MHz
Local ROM/EPROM: 1 MB Flash EEPROM
Local SRAM: 1 MB 0 wait state

COMMUNICATIONS INTERFACE

RS-422 Machine Control: Sony/SMPTE Protocol

AUDIO SPECIFICATIONS

Resolution: 16 bits
Channels: 2 in, 2 out
Dynamic Range: 80 dB
Total Harmonic Distortion: .022%, -73 dB
Intermodulation Distortion: -90 dB
Crosstalk: -80 dB
Interchannel Gain Mismatch: +/- 0.5 dB
Input Voltage: 1 VRMS nominal, 3V p-p max
Input Impedance: 20k ohms
Input Programmable Gain Span: 22.5 dB
Full Scale Output Voltage: 0.707 VRMS, 2.0V p-p
Output Impedance: 600 ohms
Output Attenuation Range: 94.5 dB
Sampling Rate, FS: 8.0 KHz to 52 KHz
Passband: .045 FS
Passband Ripple: +/- 0.1 dB

ATA/IDE DISK CONTROLLER

Protocol: ATA/IDE
Maximum Data Rate: 16.6 MB/Sec
Maximum Hard Drives: 2
Supported Hard Drives: IBM (Hitachi) Travelstar

SOFTWARE

Optional: Machine Control Interface
(Win 95/98/Me/2000/XP/NT™)

GENERAL

Size: 17" W x 3.5" H x 8.75" D
Warranty: 1 year

Accessories

included: Rack Ears
Manual



(REAR PANEL OF DUAL DECK SHOWN)