

MINI DVR PRO™



Ultra Compact DVR Provides Broadcast Quality Video and Audio for Portable Applications

STANDARD FEATURES

- Scalable Motion JPEG compression
- Analog Composite & S-Video (Y/C) Inputs & Outputs
- Time/Date Stamp & Character Display
- Flash Drive Interface (2 Compact Flash slots)
- PC Viewable Files or Secure Video Files
- Powered by 4 AA batteries
- Time-Lapse Recording
- Front Panel Controls
- 6 GPI Switch Inputs
- 2 GPI LED Outputs
- Loop Record with Event Trigger
- RS-232 Control/Set Up
- NTSC or PAL
- 2 audio channels
- Line / mic input
- Chase Lock
- USB 2.0 Port



APPLICATIONS

- On Body
- OEM
- In Vehicle
- Remote / Portable
- Airborne

MARKETS

- Industrial
- Video Assist
- Broadcast/Film
- Law Enforcement
- First Responders
- Surveillance

The Mini DVR Pro is an ultra-compact digital video recorder that is ideal for broadcast, military, surveillance, law enforcement and emergency first responder applications. It is small enough to fit in the palm of a hand, slip into a pocket or hang on a belt. Measuring only 5.2"L x 3.7"W x 0.8"D, the Mini DVR Pro is a standalone digital video recorder that delivers exceptional image quality using scalable Motion-JPEG compression and an outstanding 720 x 486 pixel image resolution.

Designed with the broadcast industry award-winning technology of the Fast Forward Video OMEGA DECK™, the Mini DVR Pro is a high performance DVR loaded with enhanced features to provide even greater flexibility. With low power consumption, powered by 4 AA batteries or a low-voltage DC power input and in a compact size, it is built for mobility.

It features video capture and playback at true 60 fields per second, resolution greater than 550 lines at 4:1 compression, user-selectable compression ratios ranging from 4:1 to 20:1, and recording times averaging between 4 to 20 minutes per GB. The GPI control panel features include record, seek or scan forward/backward, single-frame forward/reverse, delete clips, and play/pause. With control options including loop record, external triggers and pre-event recording, the Mini DVR Pro will capture the whole story.

The Mini DVR Pro standard features include: time/date stamp and character display; time-lapse recording; NTSC/PAL compatibility; composite and Y/C inputs and outputs. Easily transfer recorded video with the on-board USB 2.0 port. Video can be recorded as PC-viewable QuickTime™ files or secure video files.

FV:03/20/09MP

Fast Forward Video

1151 Duryea Avenue, Irvine, California 92614

Ph. 949.852.8404

A DVR Technology Company

MINI DVR PRO™ Specifications

VIDEO INPUT

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

VIDEO OUTPUT

Analog Output: Composite and S-Video (Y/C)
Horizontal Resolution: 550 TV lines (at 5:1 compression)
Levels: 1.0Vp-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

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: 50 dB
Bandwidth: 7 MHz (-3 dB)
Differential Gain: 2%
Differential Phase: 2 deg.
ADC Differential Linearity: +/- 0.7 LSB
ADC Integral Linearity: +/- 1.0 LSB

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

Codec: Zoran
Method: JPEG (Joint Photographic Experts Group)

Compression Ratio: Variable from 4:1 to 20:1

MICROPROCESSOR

Type: Intel 80386EX
Clock Speed: 40 MHz
Local ROM/EPROM: 4MB Flash EEPROM
Local SRAM: 1MB 0 wait state

MEMORY

Multi-port Frame Buffer: 32 MB DRAM

ATAPI / IDE CONTROLLER

Protocol: ATAPI DMA Mode 3
Maximum Data Rate: 16.6 MB/sec
Maximum Compact Flash: 2 slots (8GB)
Supported CF Card: SanDisk Ultra II - SDCFH-4096 or Extreme III - SDCFX3-4096

Record Time: 4 to 20 minutes per GB

COMMUNICATIONS INTERFACE

RS-232 Interface: Conforms to Sony "Remote (9 pin)" protocol-38400 baud, 8 data bits, odd parity, 1 stop bit

USB Port: 2.0

AUDIO SPECIFICATIONS

Resolution: 16 bits
Sampling Rate, FS: 8.0 KHz to 52 KHz
Channels: 2 in, 2 out
Dynamic Range: 80 dB
Total Harmonic Distortion: 0.22%, -73 dB
Intermodulation Distortion: 90 dB
Crosstalk: -80 dB
Interchannel Gain Mismatch: +/- 0.5dB
Input Voltage: 1 VRMS nominal, 3V p-p max
Input Impedance: 20K ohms
Full Scale Output Voltage: 0.707 VRMS, 2.0V p-p
Output Impedance: 600 ohms

SOFTWARE

FFV DVR Master

GENERAL

Size: 5.2"L x 3.7"W x 0.8"D
(132mmL x 94mmW x 20.3mmD)
Weight: 6.2 oz. (175.8 grams)
add 3.6 oz (102 grams) for batteries

Power Consumption: 3 watts not including storage device(s)
Input Voltage 12 VDC Adapter

Operating Temperature: 0c to 50c
Humidity: 90% relative humidity with no visible condensation

WARRANTY:

1 year



FFV

Fast Forward Video

1151 Duryea Avenue
Irvine, California 92614

www.ffv.com
sales@ffv.com

Ph. 949.852.8404
Fx. 949.852.1226

Specifications subject to change

A DVR Technology Company