

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
- 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



Ultra-compact digital video recorder with enhanced features that is ideal for broadcast, military, surveillance, law enforcement and emergency first responder applications.

The Mini DVR Pro 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 .8"D, the Mini DVR Pro is a stand-alone, pocket-sized digital video recorder that delivers exceptional image quality. Featuring 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.

The Mini DVR Pro records directly to compact flash cards and is also equipped with an on-board USB 2.0 port for downloading files and is powered by 4 AA batteries or low-voltage DC power input combined with low power drain for full portability.

Featuring 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. 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.

APPLICATIONS

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

MARKETS

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

Fast Forward Video

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...Extraordinary Recorders

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 down to 4:1

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

TAPI / IDE CONTROLLER

Protocol: ATAPI DMA Mode 3
Maximum Data Rate: 16.6 MB/sec
Maximum Compact Flash: 2 chips
Supported Compact Flash: Multi-word DMA mode 2

COMMUNICATIONS INTERFACE

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

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
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
Passband: 0.45 FS
Passband Ripple: +/- 0.1 dB

SOFTWARE

FFV DVR Master

GENERAL

Size: 5.2"L x 3.7"W x .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: 0 Degrees C to 55 Degrees C
Humidity: 90% relative humidity with no visible condensation
Warranty: 1 year



FFV

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