

FIELDPRO DVR™



Compact portable DVR with internal IDE hard drive
and 12 VDC external power adapter

STANDARD FEATURES

- Scalable Motion JPEG compression
- Analog Composite & Y/C Inputs & Outputs
- PC Viewable Files
- Low 8 Watt Power Consumption
- Time-Lapse Recording
- Loop Record
- Front Panel Controls
- RS-232 Control / Setup
- NTSC or PAL
- 2 audio channels
- Line Input
- Microphone Input
- Time/Date Stamp & Character Display
- USB 2.0 port

APPLICATIONS

- Inspection
- OEM
- In Vehicle
- Remote / Portable
- Airborne

MARKETS

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



The FieldPro DVR is a compact 5.0"L. x 3.1"W x 1.86"D, ruggedly built digital video recorder designed for universal applications. Featuring exceptional image quality, scalable Motion-JPEG compression and an outstanding 720 x 486 pixel image resolution, the FieldPro provides the clarity and detail of broadcast quality video with the versatility of a field recorder.

The FieldPro equipped standard with an 80 Gigabyte Hitachi hard drive. To meet extreme operating conditions, the FieldPro can be optionally equipped with solid state flash drives. Video can be recorded as PC-viewable QuickTime files or secure video files and can be downloaded via the on-board USB 2.0 port.

Power is provided via an external power adapter or by way of a separate 12 VDC supply cable to a rear panel power connector. An optional 5 VDC connector for driving low voltage cameras (1.4 Amp Max. Output) is also available. Featuring video capture and playback at 60 fields per second, user selectable compression ratios ranging from 4:1 to 20:1, resolution greater than 550 lines at 4:1 compression, 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.

FieldPro standard features include: time / date stamp and character display, time-lapse recording, NTSC / PAL compatibility, composite and Y / C inputs and outputs. With control options including loop record, external triggers and pre-event recording, its power and versatility ensures you will capture every detail of your entire event.

FPV:07/08FP

Fast Forward Video

18200-B West McDermott St., Irvine, California 92614

Ph. 949.852.8404

A DVR Technology Company

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: 1 3.5 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: 045 FS
Passband Ripple: +/- 0.1 dB

SOFTWARE

FFV DVR Master

GENERAL

Size: 5.0"L. x 3.1"W x 1.86"D
(127mmL x 79mmW x 47.2mmD)
Weight: 12.3 oz (348.7 grams)
add 3.5 oz (99.2 grams) for 80GB HD
Power Consumption: 8 watts including Hard drive
Input Voltage 12 VDC Adapter
Optional 5 VDC Auxiliary output
Operating Temperature: 0c to 50c
Humidity: 90% relative humidity with
no visible condensation
Warranty: 1 year



Fast Forward Video

18200-B West McDermott St.
Irvine, California 92614

www.ffv.com
sales@ffv.com

Ph. 949.852.8404
Fx. 949.852.1226