

# 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 or MAC 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 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.

It is equipped standard with an ATA/IDE hard drive to meet extreme operating conditions. Video can be recorded as PC or MAC-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. It features 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. The GPI control panel features include record, seek or scan forward / backward, single-frame forward / reverse, delete clips, and play / pause.

The FieldPro's 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 will capture every detail of your entire event.

FV:03/20/09FP

**Fast Forward Video**

1151 Duryea, Irvine, California 92614

Ph. 949.852.8404

**A DVR Technology Company**

# FIELD PRO DVR™

# 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: 1  
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  
Internal Drive: 2.5" IDE (160 GB)  
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: 5.0"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



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1151 Duryea Avenue  
Irvine, California 92614

[www.ffv.com](http://www.ffv.com)  
[sales@ffv.com](mailto:sales@ffv.com)

Ph. 949.852.8404  
Fx. 949.852.1226

Specifications subject to change

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