

# FireStore FS-4 and FS-4 Pro

Portable DTE Recorder

**DIRECT TO EDIT™**

PORTABLE  
LIGHTWEIGHT  
COMPACT



FireStore™  
Model: FS-4  
FS-4 Pro

The ultimate FireStore for hand-held camcorders is here . . . FireStore FS-4.

Now everybody can take advantage of tapeless acquisition with true Direct To Edit™ (DTE) Technology and confidence recording using the smallest FireStore ever!

### **CAPTURING IS A THING OF THE PAST!**

Tapeless acquisition is quickly being accepted as the standard in broadcast production. Now everyone can make capturing a thing of the past with FS-4 or FS-4 Pro. Record directly from your camcorder while you shoot using Direct To Edit (DTE) Technology. When you are finished shooting, connect FS-4 to your computer and you are instantly ready to edit in the timeline! No capturing, no file transfer, no file conversion. Just shoot, then edit!

### **TRUE DTE TECHNOLOGY**

No matter which DV NLE system you have, FireStore FS-4 has you covered. On FS-4, files are recorded to disk as RawDV, AVI Type 1, AVI Type 2, AVI Type 2 24p, Matrox AVI, Canopus AVI, QuickTime or QuickTime 24p. The FS-4 Pro model also includes MXF, Pinnacle AVI and Avid DV-OMF format support.

**INTRODUCING FIRESTORE FS-4 AND FS-4 PRO, THE FIRST DV DISK RECORDERS WITH DIRECT TO EDIT (DTE) TECHNOLOGY DESIGNED FOR HAND-HELD CAMCORDERS. ONLY FS-4 COMBINES A SMALL, RUGGED AND SHOCK PROOF DESIGN WITH FULL DTE TECHNOLOGY PERFORMANCE.**



### **FAST AND EFFICIENT EDITING**

Once you have finished shooting, FS-4 and FS-4 Pro are mounted to your Mac or PC editing system like a normal FireWire hard disk drive. Transfer clips to your NLE's media drive at up to 400 Mb/s or edit instantly in real-time using FS-4 as your media source.

### **CONFIDENCE RECORDING**

Simultaneously record to disk and tape using FireStore FS-4. FS-4 is immune to tape drop-outs providing you with a clean edit source and an archive on tape.

### **COMPACT, LIGHTWEIGHT AND RUGGED DESIGN**

FireStore FS-4 is a lightweight, weighing less than one pound including the battery and it is only 1.5" thick! Mount directly to your camcorder using the optional hot shoe adapter, or clip FS-4 directly to your belt. The product's attractive packaging is made to withstand the rigors of field shooting. The ten second electronic anti-shock cache ensures your video is always recorded while the six second retro cache means you'll never miss a shot!

### **FLEXIBLE CAPACITIES AND POWER**

Spinning at 5400 RPM with an 8 MB cache so you'll never drop a frame, FS-4 comes with a 40GB (3 hours) hard drive while FS-4 Pro is available with either 40GB or 80GB (6 hour) capacities. Both FS-4 models also feature slim removable battery packs or can be optionally powered via a wall outlet.

### **EASY TO USE, CONTROL AND UPDATE**

FS-4 interfaces with your camcorder using a single FireWire cable that passes audio, video, timecode and control information. When a tape is present, each press of start and stop on your camcorder's record button will create an individual clip on disk. FS-4 features a comprehensive backlit display, menu system and buttons allowing easy control and management. Additionally, whether you are using FS-4 or FS-4 Pro, be safe with the knowledge your system is upgradeable in the field.

### **FS-4PRO FEATURES**

FS-4 Pro additionally adds MXF, Avid OMF and Pinnacle AVI support. FS-4 Pro also adds retro-record modes including a ten second retro cache so you'll never miss a shot, scene marking which allows clips to be categorized into pre-named folders on disk while you shoot, user definable time lapse and loop playback modes.

**FOCUS**  
enhancements

## PRODUCT DESCRIPTION

FS-4 and FS-4 Pro are portable DTE disk recorders for use with hand-held DV camcorders. Both FS-4 models feature an internal disk drive, portable enclosure and a host of record, playback and control features.

## APPLICATION

- ▼ Wedding and Event
- ▼ Portable Field Production
- ▼ Independent Film
- ▼ Corporate and Industrial Production
- ▼ Education and Training
- ▼ Sports Analysis

## FEATURES

	FS-4	FS-4PRO
▼ DTE Supported Formats (RawDV, AVI Type 1, AVI Type 2, Matrox AVI, Canopus AVI, QuickTime, AVI Type 2 24p, QuickTime 24p)	✓	✓
▼ Additional DTE Formats (MXF, Pinnacle AVI, Avid DV OMF)	X	✓
▼ Removable Li-Ion Rechargeable Battery	✓	✓
▼ Comprehensive Backlit LCD Display	✓	✓
▼ Dedicated VTR Play/Record and Mode Buttons	✓	✓
▼ Records embedded DV Source Timecode	✓	✓
▼ FireWire AV/C Control	✓	✓
▼ 10 Second Electronic Recording Shock Buffer	✓	✓
▼ Full Disk Partition and Format	✓	✓
▼ Flash Upgradable System Software	✓	✓
▼ Intelligent Power Management System	✓	✓
▼ Daisy Chain Multiple FS-4s for Long Recordings	X	✓
▼ User Definable Time Lapse	X	✓
▼ Six Second Retro Cache	✓	✓
▼ Ten Second Retro Cache (Adjustable)	X	✓
▼ Retro Disk	X	✓
▼ Loop Playback Capabilities	X	✓
▼ Scene Marking	X	✓
▼ 3 Hour Recording Time (40GB)	✓	✓
▼ 6 Hour Recording Time (80GB)	X	✓
▼ AC Adapter	✓	✓
▼ Optional Cradle with Tripod Mount	✓	✓



## SPECIFICATIONS

### Input/Outputs:

DV Video I/O - 25Mb/s (1x 6-pin IEEE-1394)  
 FireWire Computer I/F - up to 400Mb/s (1 x 6-pin IEEE-1394)  
 GPI & RS-232C Control (1 x 3.5mm mini jack)

### Power:

15V DC, 0.7A  
 Mini-jack power connector  
 Custom Removable Li-ion Rechargeable Battery Pack (90 minutes estimated run-time)

### Physical Specification: (with Battery)

Dimensions: 1.59" x 5.6" x 3.74" (40 mm x 142 mm x 95 mm)  
 Weight: less than 0.87 lbs (0.4 kg)

### Audio/Video/Timecode Specification:

25Mb/s, 8-bit 4:1:1 (NTSC-DV) or 4:2:0 (PAL-DV) video (model dependent)  
 DV Embedded Timecode (Drop or Non-Drop)  
 Embedded 2-ch (16-bit, 48kHz) or 4-ch (12-bit, 32kHz) Audio

### DTE File Formats:

RawDV, AVI Type 1, AVI Type 2, Matrox AVI, Canopus AVI, QuickTime, AVI Type 2 24p, QuickTime 24p  
 FS-4 Pro Only: MXF, Pinnacle AVI, AVID DV OMF

### Disk Information:

Internal Disk Type: 40GB (or 80GB - FS-4PRO only), 5400 RPM, 8 MB cache  
 Disk Format: FAT32  
 FS-4 compatible with Windows 98SE, ME, 2000, XP and Mac OS9 & 10.

### Compliance and Warranty:

CE, C-Tick and FCC  
 1 Year (FS-4 Pro - 2 Year)

### Temperature:

Operating: 0° - 40°C (32° - 104°F)  
 Operating humidity: 30% - 90% RH  
 Storage: -20° - 60°C (-40° - 140°F)  
 Storage humidity: 85% RH or less

### Shock Vibration:

Operating: 50 cm  
 Non-operating: 100 cm  
 50 Hz - 60 Hz 1 G constant

### Compatible Camcorders:

Canon XL1/XL1s, GL2, XL2  
 Sony DSR-PD150/-170, DSR-PD100, DCR-VX2000/VX2100  
 JVC GY-DV300  
 Panasonic AG-DVX100A/-100, AG-DVC30, AG-DVC7  
 Any DV25 Capable Deck or Camcorder with FireWire I/O

### Optional Accessories

Additional Custom Removable Li-ion Rechargeable Battery Pack (90 minutes estimated run-time)  
 Wired Remote Control Unit  
 Camera Mount Kit

### EUROPEAN HEADQUARTERS

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