

FS-4 HD AND FS-4PRO HD



FS-4Pro HD

Native QuickTime HDV Support

With the FS-4Pro HD, you can record 1080i 50/60 or 720p 30 clips as native QuickTime HDV. The FS-4Pro extracts and decodes the audio from the incoming HDV stream, combines it with the video stream, and wraps it as a QuickTime HDV file. When recording is complete, your QuickTime HDV file can be imported directly into Final Cut Pro—no capture or conversion is required.

Applications

- Athletics
- Broadcasting
- Corporate and Industrial Production
- Education and Training
- Events and Entertainment
- Government
- Healthcare
- Independent Film
- Security and Surveillance
- Video Production
- Weddings and Events
- Worship

Weighing one pound and only 1.5 inches thick, Focus FS-4 HD and FS-4Pro HD Portable DTE Recorders bring Direct To Edit® Technology to your DV or HDV handheld camcorder. Whether mounted directly to your camcorder or clipped to your belt, the FS-4 is designed to excel in the field.

Focus FS-4 Portable DTE Recorders

Featuring a comprehensive backlit display, an easy-to-use menu system, a hard drive, and a removable, rechargeable battery, the Focus FS-4 is the perfect DTE companion for DV and HDV handheld shoots. Designed for use in even the roughest conditions, the FS-4 includes a six- or ten-second (model-dependent) electronic shock cache to ensure that you never lose footage. Audio, video, timecode, and control information is passed through a single FireWire cable, allowing you to record to disk and tape simultaneously. And when recording is complete, your footage is ready to edit instantly—no capturing, file transfer, or file conversion is required. FS-4 Portable DTE Recorders are compatible with a wide range of nonlinear editing systems. For a complete list of DTE-compatible NLE software, please visit www.focusinfo.com.

Models

Focus FS-4 Portable DTE Recorders are available in two models—the FS-4 HD and the FS-4-Pro HD (available in three capacity configurations).

MODEL	FS-4 HD 40GB	FS-4Pro HD 60GB	FS-4Pro HD 80GB	FS-4Pro HD 100GB
Recording Time				
DV	3 hours	4.5 hours	6 hours	7.5 hours
HDV 1080i	3 hours	4.5 hours	6 hours	7.5 hours
HDV 720p	4 hours	6 hours	8 hours	10 hours
HDV Recording Mode				
.m2t 1080i 50/60	•	•	•	•
.m2t 720p 24/25/30/50/60				
QuickTime 1080i 50/60		•	•	•
QuickTime 720p 30		•	•	•
DV Recording Mode				
AVI Type 1	•	•	•	•
AVI Type 2	•	•	•	•
AVI Type 2 24p	•	•	•	•
Avid OMF		•	•	•
Canopus AVI	•	•	•	•
Matrox AVI	•	•	•	•
MXF		•	•	•
Pinnacle AVI		•	•	•
QuickTime	•	•	•	•
QuickTime 24p	•	•	•	•
RawDV	•	•	•	•

Support

When you purchase video production solutions from Focus Enhancements, you not only receive reliable products that deliver superior performance every day, you also receive unconditional service and support from a team of seasoned video professionals. All products are backed by comprehensive warranties and optional support contracts that cover installation, training, 24/7 phone support, and priority parts replacement.

Consultation

With extensive experience in designing, configuring, and integrating video production solutions for leading companies around the world, the Focus team can help you select the right products for your business. If you have special requirements, solution consultation and custom configuration services are available.

Technical Specifications

MODEL	FS-4 HD	FS-4Pro HD
Inputs/Outputs	DV25 or HDV video I/O (1 x 6-pin IEEE-1394) FireWire computer I/F—up to 400 Mbps (1 x 6-pin IEEE-1394) GPI and RS-232C control (1 x 3.5mm minijack)	
Audio	DV embedded 2-channel (16-bit, 48 kHz) or 4-channel (12-bit, 32 kHz) (RawDV only); HDV embedded MPEG-1 Audio Layer II	
Video (DV)	25 Mbps; 8-bit 4:1:1 (NTSC-DV) or 4:2:0 (PAL-DV) (model dependent)	
Video (HDV)	MPEG-2 (MP@H-14) 720p (8-bit, 19.7 Mbps) or 1080i (8-bit, 25 Mbps)	
Timecode	DV embedded timecode (drop or nondrop)	
DV DTE File Formats	RawDV, AVI Type 1, AVI Type 2, Matrox AVI, Canopus AVI, QuickTime, AVI Type 2 24p, QuickTime 24p; FS-4 ProHD Only: P2 MXF, Pinnacle AVI, Avid DV OMF	
HDV DTE File Formats	MPEG-2 ts (.m2t)	MPEG-2 ts (.m2t), QuickTime HDV 1080i 50/60 and 720p 30
Disk	40GB	60GB, 80GB, or 100GB
Disk Speed	5400 RPM; 8MB cache	5400 RPM; 8MB cache
Disk Format	FAT32	FAT32
OS Compatibility	Windows 98SE, ME, 2000, XP; Mac OS 9, Mac OS X	
Power Adapter	15V DC, 0.7A; minijack power connector	
Battery	Custom removable Li-ion rechargeable battery	
Battery Capacity ¹ (for battery included with model)	Standard-capacity battery (90 minutes)	60GB configuration: Standard-capacity battery (90 minutes) 80GB and 100GB ² configuration: High-capacity battery (180 minutes)
Dimensions (h x w x d)	1.59" x 5.6" x 3.74" (40mm x 142mm x 95mm)	
Weight	1.0 lb. (0.45 kg)	1.0 lb. (0.45 kg) (60GB model)
Shock Vibrations	Operating: 50cm; Non-operating: 100cm; 50Hz–60Hz (1G constant)	
Temperature	Operating: 0°–40°C (32°–104°F); humidity: 30%–90% RH Storage: -20°–60°C (-40°–140°F); humidity: 85% RH or less	
Compliance	CE, C-Tick, FCC, and RoHS	CE, C-Tick, FCC, and RoHS
Warranty	1 year	2 years
Optional Accessories	Standard-capacity Li-ion rechargeable battery (90 minutes) ¹ ; high-capacity Li-ion rechargeable battery (180 minutes) ¹ ; external battery charger; wired remote control unit; camera mount kit	

¹ Estimated recording time

² Includes high-capacity cradle

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