

FIRESTORE FS-100



Weighing about one pound and only 1.5 inches thick, the FireStore FS-100 is an HD recorder designed to work with the new Panasonic AG-HVX200 P2 camera, supporting DVCPRO HD, DVCPRO 50, and DVCPRO/DV recording formats. The FS-100 provides long recording times and improves workflow with Direct To Edit® technology. It can also be used with other Panasonic DVCPRO/DVCPRO 50 and DVCPRO HD devices that have a FireWire port.

FireStore FS-100 Portable DTE Recorder

The FireStore FS-100 interfaces with the Panasonic AG-HVX200 camcorder using a single FireWire cable that passes audio, video, timecode, and control information, allowing you to simultaneously record to disk and P2 card. It also includes a comprehensive backlit display, menu system, and buttons that provide easy control and management.

Robust Storage and Management

The FireStore FS-100 comes standard with a 100GB hard drive that provides 1.5 hours of DVCPRO HD recording time. You can also extend recording time by linking multiple FireStore FS-100 units together. A 10-second electronic shock cache ensures that you never lose footage, even in the roughest of conditions. And the FireStore FS-100 makes it easy to categorize clips by placing them in prenamed folders on the disk while you shoot.

Nonlinear Editing System Compatibility

No matter which nonlinear editing (NLE) system you have, the FireStore FS-100 has you covered. When in DVCPRO HD or DVCPRO 50 mode, files are recorded to disk in P2 MXF format. When in DVCPRO/DV mode, files are recorded as RawDV, AVI Type 1, AVI Type 2, AVI Type 2 24p, Matrox AVI, Canopus AVI, QuickTime, QuickTime 24p, Avid OMF, Pinnacle AVI, or P2 MXF file formats. Simply connect the FireStore FS-100 to your Mac or PC editing system like a normal FireWire hard disk drive and you are instantly ready to edit—no capturing, file transfer, or file conversion is required. Just shoot and edit.

Perfect for the Field

With a removable, rechargeable battery and advanced features such as time lapse, retro disk recording, and scene marking, the FireStore FS-100 Portable DTE Recorder is the perfect companion to the AG-HVX200 for both HD and SD production. When on location, the power, flexibility, and field upgradability of the FireStore FS-100 make it second to none.

FireStore FS-100

Applications

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

The Direct To Edit Advantage

With the FireStore FS-100 Portable DTE Recorder, you'll go from acquisition to editing with unparalleled speed, efficiency, and reliability. By combining DTE Technology® with advanced caching and redundant P2 card and disk, the FireStore FS-100 ensures that you never miss an important shot or lose critical footage. And best of all, your footage is ready to edit instantly.

Technical Specifications

MODEL	FireStore FS-100
Input/Outputs	DV video I/O: 25, 50, or 100 Mb/s (1 x 6-pin IEEE-1394) FireWire computer I/F: Up to 400 Mb/s (1 x 6-pin IEEE-1394) GPI and RS-232C control (1 x 3.5mm minijack)
Audio	DVCPRO HD input: Embedded 4-channel (48 kHz, 16-bit) DVCPRO 50 input: Embedded 4-channel (48 kHz, 16-bit) DV input: Embedded 2-channel (48 kHz, 16-bit) or 4-channel (32 kHz, 12-bit) Note: 4-channel (12-bit, 32 kHz) audio is supported only in DTE Technology with RawDV file format
Video	DVCPRO HD: 4:2:2, 8-bit, 6.7:1 compression, 100 Mb/s; 1080 60i (30P, 24P, 24PA) 50i (25p); 720 60P (30P, 24P)/50P (25P) DVCPRO 50: 4:2:2, 8-bit, 3.3:1 compression, 50 Mb/s; 480 60i (30P, 24P, 24PA); 576 50i (25P) DV/DVCPRO: 4:1:1, 8-bit, 5:1 compression, 25 Mb/s (DV-PAL is 4:2:0) 480 60i (30P, 24P, 24PA); 576 50i (25P)
Timecode	Embedded timecode (drop or nondrop)
DTE File Formats	DV/DVCPRO: RawDV, AVI Type 1, AVI Type 2, AVI Type 2 24p, Matrox AVI, Canopus AVI, QuickTime, QuickTime 24p, Avid OMF, Pinnacle AVI, P2 MXF DVCPRO 50 and DVCPRO HD: P2 MXF
Disk	Internal Disk Type: 100GB, 8MB cache Disk Format: FAT32; FS-100
OS Compatibility	Windows 98SE, ME, 2000, XP; Mac OS 9, OS X
Power Source	15V DC, 7.5W (estimated) Minijack power connector Custom removable Li-ion rechargeable battery pack (90 minutes estimated run-time)
Dimensions	1.59" x 5.6" x 3.74" (40mm x 142mm x 95mm) (with normal 90-minute battery)
Weight	1 lb. (.45 kg)
Warranty	2 years
Optional Accessories	Additional custom removable Li-ion rechargeable battery pack (90 minutes estimated run-time) High-capacity Li-ion battery (180 minutes estimated run-time) Battery charger Wired remote control unit Camera mount kit

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Seamless Integration

Video production solutions from Focus Enhancements provide seamless compatibility with most leading DV cameras and editing software packages.

DTE-Compatible Partners

Adobe Systems Incorporated
 Apple Computer, Inc.
 Avid Technology, Inc.
 Canon, Inc.
 Canopus Co., LTD.
 Ikegami Electronics Co., LTD.
 JVC Americas Corp.
 Matrox Video Products Group
 Panasonic Corporation
 Pinnacle Systems, Inc.
 Sony Corporation

Features Comparison

FIRESTORE MODEL	FS-2E	FS-3	FS-4	FS-4 HD	FS-4Pro	FS-4Pro HD	FS-100	DR-HD100	DR-DV5000
Inputs and Outputs									
DV25	•	•	•	•	•	•	•	•	•
SD-SDI with Embedded Audio	•								
Composite	•								
Component	•								
S-video	•								
Genlock	•								
FireWire	•	•	•	•	•	•	•	•	•
RS-422 Control (Sony 9-pin)	•								
Audio									
DV Embedded 2-Channel	•	•	•	•	•	•	•	•	•
DV Embedded 4-Channel	•	•	•	•	•	•	•	•	•
AES/EBU Digital Audio I/O	•								
Balanced Audio I/O	•								
Video									
HDV 720p				•		•		•	
HDV 1080i				•		•		•	
DVCPRO 50							•		
DVCPRO HD							•		
Timecode									
Source Timecode	•	•	•	•	•	•	•	•	•
External Timecode Input	•								
DTE Technology	•	•	•	•	•	•	•	•	•
Disk									
Daisy-Chain Drives	•	•	1-only	1-only	1-only	1-only	1-only	1-only	•
Removable	•	•							•
Camcorder-Specific									
JVC GY-DV5000/1									•
JVC GY-HD100/101								•	
Panasonic AG-HVX200							•		

FIRESTORE FEATURES COMPARISON

Features Comparison

FIRESTORE MODEL	FS-2E	FS-3	FS-4	FS-4 HD	FS-4Pro	FS-4Pro HD	FS-100	DR-HD100	DR-DV5000
Special Features									
Definable Time Lapse Record (DV)	•	•			•	•	•	•	•
Loop Playback	•	•	•	•	•	•	•	•	•
Playlist Capable	•								
Rack Mountable	•								
Retro Cache Record	10-sec.	10-sec.	6-sec.	6-sec.	10-sec.	10-sec.	10-sec.	10-sec.	10-sec.
Retro Disk Record	•	•	•		•				•
Scene Mark Folder Support	•	•			•	•	•	•	•
VTR-Like Playback	•	•	•		•				•
Power									
DC		•	•	•	•	•	•	•	•
Warranty									
1 Year			•	•					
2 Years	•	•			•	•	•	•	•

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Procédure d'exportation des matériaux tournés avec le Firestore FS-100

Cette note concerne le tournage en mode DVCPROHD

Tout d'abord il faut veiller à bien paramétrer le Firestore et la HVX200. Préciser le mode DVCPROHD, la date et l'heure du Firestore, préciser le mode P2 au lieu de RAW, activer le mode tapeless etc...(cf. Manuel pour préciser chaque point)

N'hésitez pas à vous familiarisez avec l'interface et les fonctions du Firestore qui sont assez nombreuses et ainsi éviter les mauvaises manipulations.

A l'enregistrement le Firestore crée deux répertoires l'un nommé du jour de l'enregistrement plus d'autres chiffres qui contient les données audio (4 fichiers pour 4 pistes) et vidéo (1 fichier par plan) en format mxf (le nom des fichiers indiquent en outre le format choisit (cf. notice Firestore p.72). L'autre est un répertoire Log qui contient les metadata en fichiers de format xml. Attention ces fichiers xml sont important, il contiennent timecode, durée..

Lorsque l'on veut télécharger le firestore pour transférer le matériel sur ordinateur il faut créer une structure d'organisation des fichiers compatible avec celle enregistré sur les cartes P2. Par exemple Final Cut Pro ne peut importer que des fichiers structuré en type P2. C'est à dire une arborescence de répertoire Contents-Vidéo,Audio...

Avant de télécharger le firestore il faut activer la fonction **P2 organize** dans le menu **Utilities**. Ainsi le Firestore créé la structure de répertoire et transfère les fichiers dans leur répertoire respectifs (cf. manuel p.71). De là vous pouvez transférer le répertoire **CONTENTS et le fichier LASTCLIP.TXT** sur ordinateur ou directement importer sous FCP.

NOTE: Si vous perdez les fichiers xml mais conservez les fichiers mxf tout n'est pas perdu. Voici une procédure, malheureusement fastidieuse:

Vous remarquerez que le firestore peut lire les fichiers mxf sans avoir les fichiers xml. Il est donc possible de relier le firestore à la hvx200 et d'utiliser celle-ci comme magnétoscope avec une carte P2. En enregistrant sur la carte P2 on recrée une structure apte à être importée dans final cut pro. On ne possède que 8 min d'enregistrement (avec carte 8Go), il faut donc répéter l'opération autant de fois que nécessaire, si l'on a enregistré 80 min il faut répéter l'opération 10 fois...

Autre solution: il semblerait que le logiciel Edius Pro 4 importe directement les fichiers mxf sans metadata. A vérifier. Se renseigner également du côté d'Avid?