FOCUS
e n h a n c e m e n t s

FS-5

The Direct To Edit Advantage

With the FS-5 Portable DTE Recorder, you'll go from acquisition to editing with unparalleled speed, efficiency, and reliability. By combining DTE Technology® with advanced caching, the FS-5 ensures that you never miss an important shot or lose critical footage. And best of all, your footage is ready to edit instantly.

Convenient Video Playback

Supports DV and HDV playback

Supports 4:3 and 16:9 aspect ratios

Thumbnails include clip details, such as name and file wrapper type

Listen to audio using an optional USB-based wired headset

Generate MPEG-4 proxy files for a single clip or for the entire recording; transfer and share clips for preview and collaboration

Monitor the status of proxy generation

High-Capacity Hard Drive

Rugged, shock resistant, and extremely power efficient, the FS-5 features a 100GB or 120GB hard disk. Using the Universal Disk Format (UDF) to write files, the FS-5 saves long recordings (up to 1.5 hours) as a single clip (instead of a series of individual clips), making management of clips in post-production much faster and easier.

Hard Drive	100GB	120GB
DV	7.5 hours	9 hours
HDV 1080i	7.5 hours	9 hours
HDV 720p	10 hours	12 hours

Defining a new class of DTE recording, the FS-5 Portable DTE Recorder weighs only 12 ounces, brings Direct To Edit® recording technology to your HDV or DV handheld camcorder, and enables you to add custom metadata while you're recording.

Focus FS-5 Portable DTE Recorder

Go from Acquisition to Editing in One Step

Featuring a backlit color display, an easy-to-use menu system, a hard drive, and a removable, rechargeable battery, the Focus FS-5 is the perfect DTE companion for your HDV or DV camcorder. Audio, video, timecode, and control information is passed through a single FireWire cable, allowing you to record to disk or to disk and tape simultaneously.

Designed for use in even the roughest conditions, the FS-5 includes a 10-second electronic shock cache to ensure that you never lose footage. Advanced features such as time-lapse (DV mode only), retro disk recording, scene marking, and clip categorization make the FS-5 perfect for handheld shoots. When recording is complete, your footage is ready to edit instantly—no capturing, file transfer, or file conversion is required.

Assign Custom Metadata on the Fly

With the FS-5, you can personalize and optimize workflow—during shooting or playback. With your wireless handheld device or laptop, you can access one or more FS-5 units through a browser (new in 2.0), define metadata, and assign it to video while you're recording or during playback, eliminating the need to tag footage when the shoot is over.

View Thumbnails and Video Clips

With the FS-5, you can view thumbnails and video clips on its brilliant color display. Thumbnails can also be viewed on a web page when the FS-5 is connected to a network. MPEG-4 proxy files can be generated and transferred to a host computer or a video-sharing web site, as well as distributed to portable media devices, making collaboration easy.

Count On the FS-5 to Deliver

Powerful, Flexible, and Easy to Use

Record in a wide range of HDV and DV formats

Navigate quickly and easily using the intuitive menu structure

View thumbnails and video clips on the built-in color LCD

Perfect for Long Recordings

Record up to 12 hours of HDV video at a time (120GB model) and up to 1.5 hours of HDV or DV video as a single clip; a new clip is created when the end of the current clip is reached

Take advantage of up to three hours of recording time from the standard-capacity battery

Equipped for Connectivity

Connect to a wired[1] or wireless[2] network via the USB 2.0 port and transfer clips from the FS-5 to your NLE system or PX Media Server

Assign metadata to footage while it's being recorded[2] using the FS-5 browser-based interface and your wireless handheld device or laptop

Quiet, Energy-Efficient Operation

Enjoy the quiet operation of the FS-5—made possible by its hard drive which does not require a fan

[1] Requires an Ethernet-to-USB adapter (sold separately)   [2] Requires an 802.11 dongle (sold separately)

Recording Modes

HDV Recording Modes

.m2t 720p 24/25/30/50/60
.m2t 1080i 24/25/30/50/60
MXF HDV (720p 30)
MXF HDV (1080i 50/60)
QuickTime 1080i 50/60
QuickTime 720p 30

DV Recording Modes

AVI Type 1	MXF
AVI Type 2	QuickTime
Canopus AVI	RawDV
Matrox AVI	

Metadata Formats

Avid	Focus PX
Final Cut Pro	ProxSys MA

Native MXF HDV Support

With the FS-5, you can record native MXF HDV 720p 30 and 1080i 50/60 clips and import them into Avid Xpress Pro, Avid Media Composer, or Avid NewsCutter for editing.
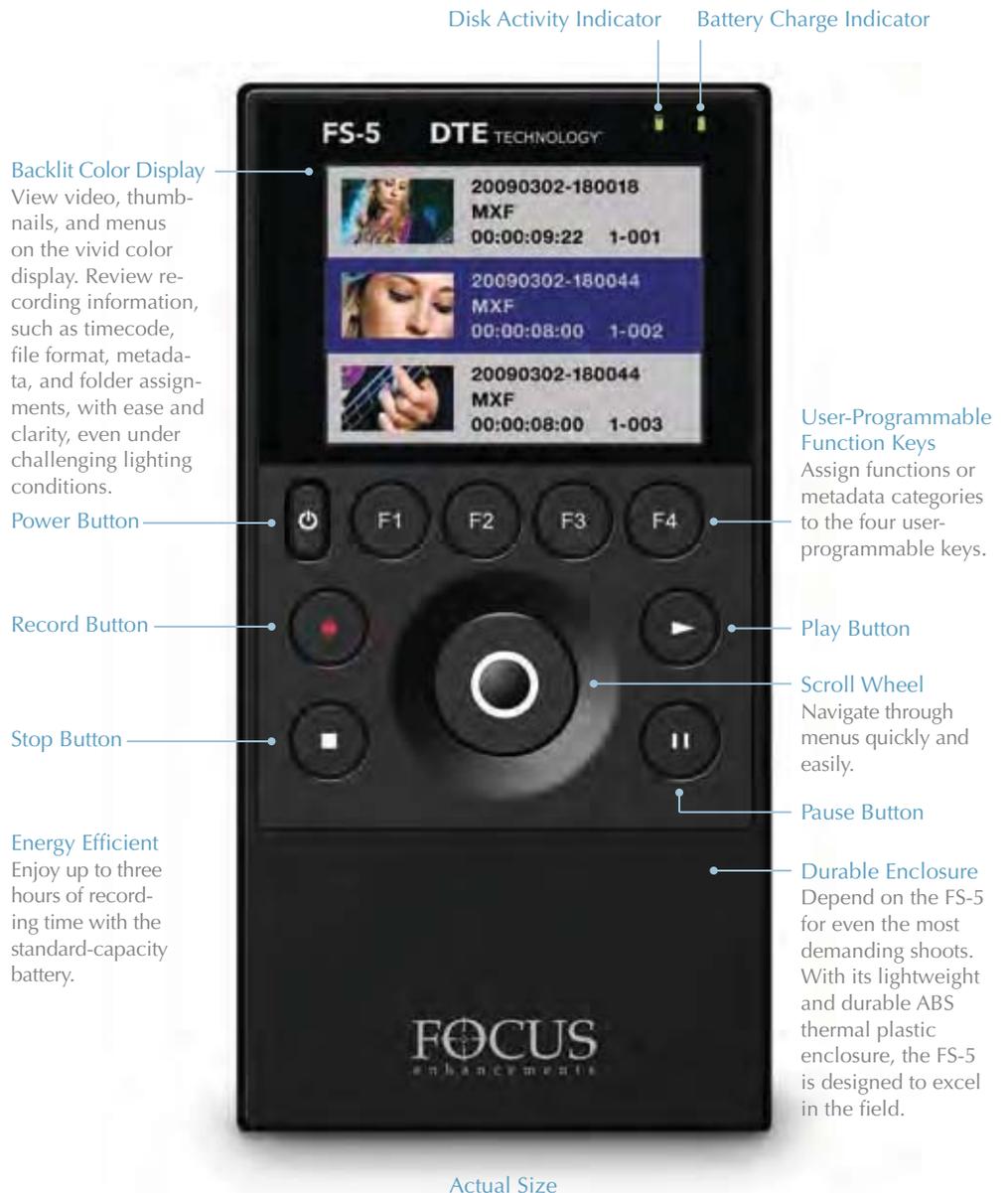
Native QuickTime HDV Support

With the FS-5, you can record 1080i 50/60 or 720p 30 clips as native QuickTime HDV. The FS-5 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.

NLE System Compatibility

Because the FS-5 is capable of recording video in a wide range of formats, it's compatible with a large number of nonlinear editing systems. To review the complete list of DTE-compatible NLE software, please visit www.focusinfo.com.

Engineered for Portability, Durability, and Ease of Use

Only 2.75 inches wide, 5.4 inches high, and 1.25 inches deep, the FS-5 packs a wealth of functionality into a sleek and durable package that weighs only 12 ounces. Crafted from the inside out to meet the reliability and quality standards that video professionals demand, the FS-5 is designed to deliver great results under even the most challenging shooting conditions.

Disk Activity Indicator   Battery Charge Indicator

Backlit Color Display
View video, thumb-nails, and menus on the vivid color display. Review recording information, such as timecode, file format, metadata, and folder assignments, with ease and clarity, even under challenging lighting conditions.

Power Button

Record Button

Stop Button

Energy Efficient
Enjoy up to three hours of recording time with the standard-capacity battery.

User-Programmable Function Keys
Assign functions or metadata categories to the four user-programmable keys.

Play Button

Scroll Wheel
Navigate through menus quickly and easily.

Pause Button

Durable Enclosure
Depend on the FS-5 for even the most demanding shoots. With its lightweight and durable ABS thermal plastic enclosure, the FS-5 is designed to excel in the field.

Actual Size

Designed to Transform Workflow at the Recording Stage

Not only does the FS-5 enable you to go straight from shooting to editing by recording video in the NLE-compatible file format of your choice, it also allows you to add custom metadata to footage during recording or playback. With three simple steps, you can define metadata fields for your shoot, add metadata tags to footage, and transfer edit-ready clips to your NLE system or PX Media Server, complete with camera-generated and custom-defined metadata. This simple three-step process dramatically streamlines workflow and saves numerous hours typically spent reviewing, logging, and tagging footage after the shoot is over.

1

CREATE METADATA TEMPLATE

With your wired or wireless laptop or handheld device, access the FS-5 through its browser-based interface, define metadata categories and fields, and save them as a template on the FS-5.

2

TAG MEDIA ON THE FLY

When you're ready to shoot footage or play it back, access the metatdata template on the FS-5 from the browser on your laptop or handheld device and assign metadata. Use the metadata fields in your template or create new metatdata tags on the fly.

3

TRANSFER AND ORGANIZE

After the shoot, transfer clips from the FS-5 to your NLE system or to the PX Media Server. Custom metadata is transferred with your footage, making it simple to search for and organize clips.
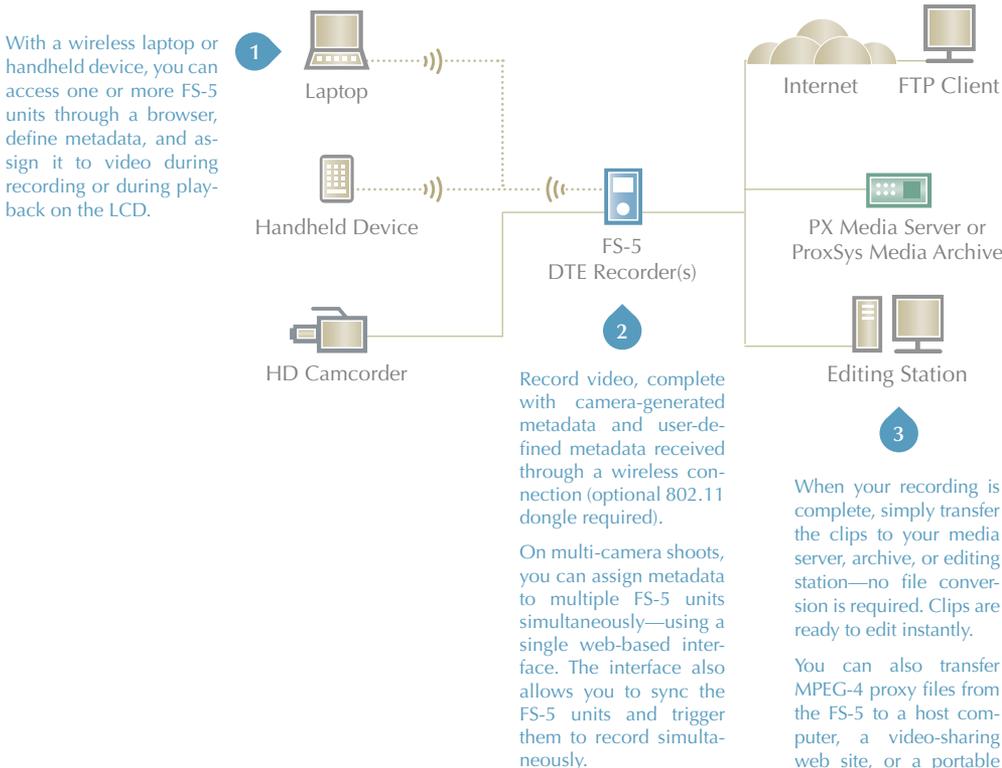
Connectivity

With its FireWire/iLINK, GPI/RS-232, and USB 2.0 ports, the FS-5 easily connects to your camera, a remote control unit, or your wired network. For wireless connectivity, simply plug the optional 802.11 dongle into the USB 2.0 port and use your wireless PDA or laptop to send custom metadata to the FS-5 while your footage is recording or playing back.

FireWire/iLINK   GPI/RS-232   USB 2.0
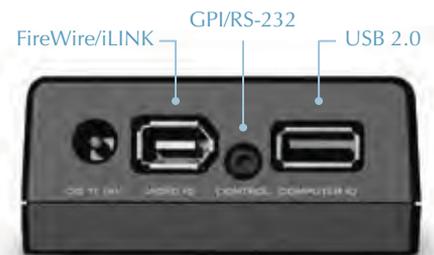
Top Panel
(75% of Actual Size)

Control Modes

External	Syncro
Local	GPI/External Remote

Timecode Modes

External (Camera)	Record Run
Free Run	Regen

Special Recording Modes

Retro-Cache	Snap[1]
Retro-Disk	Time Lapse[1]

Disk Utilities

Format	Repair Clip
Delete Clip	Repair Disk

[1] DV recording mode only

1

With a wireless laptop or handheld device, you can access one or more FS-5 units through a browser, define metadata, and assign it to video during recording or during playback on the LCD.

Laptop

Handheld Device

HD Camcorder

FS-5
DTE Recorder(s)

Internet   FTP Client

PX Media Server or
ProxSys Media Archive

Editing Station

2

Record video, complete with camera-generated metadata and user-defined metadata received through a wireless connection (optional 802.11 dongle required).

On multi-camera shoots, you can assign metadata to multiple FS-5 units simultaneously—using a single web-based interface. The interface also allows you to sync the FS-5 units and trigger them to record simultaneously.

3

When your recording is complete, simply transfer the clips to your media server, archive, or editing station—no file conversion is required. Clips are ready to edit instantly.

You can also transfer MPEG-4 proxy files from the FS-5 to a host computer, a video-sharing web site, or a portable media device, making collaboration easy.

About the Focus PX Media Server

The ideal way to archive, organize, and access your entire library of media assets, the PX Media Server includes a convenient browser-based interface that provides immediate access to audio, video, images, and text-based data from any location. Additional features include online and offline usage, picture-to-clip extract, multi-client support, access rights management, and NLE format compatibility via the FS DV Conversion Suite.

About the ProxSys Media Archive

The ProxSys™ Media Archive archives your video footage on Blu-ray discs—automatically. When video is ingested and archived to disc, proxy files are also created and stored on the ProxSys Media Archive, making it quick and easy to search for, preview, and locate archived footage anytime.

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 services are available.

Technical Specifications

MODEL	FS-5
Display	2.5-inch (diagonal) color TFT LCD display; 320- by 240-pixel resolution
Input/Outputs	DV I/O: 25 Mbps
	HDV I/O: MPEG-2 transport stream (19.8 or 25 Mbps)
	Computer I/F: USB 2.0 (up to 480 Mbps) (1 x USB-A female); Video I/O: 1 x 6-pin IEEE-1394 (FireWire/i.LINK); GPI and RS-232C control (1 x 3.5mm minijack)
Audio	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
	HDV input: 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)
DTE Formats (SD)	AVI Type 1, AVI Type 2, Canopus AVI, Matrox AVI, MXF, QuickTime, RawDV
DTE Formats (HD)	.m2t HDV (720p 24/25/30/50/60, 1080i 24/25/30/50/60), MXF HDV (720p 30, 1080i 50/60), QuickTime HDV (720p 30, 1080i 50/60)
Disk	1.8"; 100GB or 120GB
Disk Speed	4200 RPM; 8MB cache
Disk Format	UDF (Universal Disk Format)
Networking	USB 802.11 dongle (optional) or USB Ethernet adapter (optional)
OS Compatibility	Windows XP, Vista; Mac OS X
Power Adapter	11-18V DC; minijack power connector
Battery	Custom removable Li-ion rechargeable battery
Battery Capacity[1]	Standard-capacity battery (180 minutes)
Dimensions	2.75" wide by 5.4" high by 1.25" deep (70mm x 137mm x 32mm)
Weight	12 oz. (0.34 kg)
Compliance	CE, C-Tick, FCC, and RoHS
Warranty	1 year
Accessories Included	Standard-capacity Li-ion rechargeable battery (180 minutes), 4- to 6-pin FireWire cable, USB A-to-A cable
Optional Accessories	Standard-capacity Li-ion rechargeable battery (180 minutes), USB 802.11 dongle

[1] Estimated recording time

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