

# FireStore™ FS-3

## QUICKSTART GUIDE

For Operating System Version 1.2

### INTRODUCTION

Thank you for choosing the Focus Enhancements' FireStore FS-3 DV Disk Recording Module for DV Camcorders.

The purpose of this QuickStart document is to introduce the features and operation of the FireStore FS-3. The complete User Guide is available on the CD-ROM that came with the FireStore unit. It is advised that users get familiarized with the product by reading the User Guide before attempting to use this product. If you are unable to locate the User Guide or require further assistance, please visit:

[www.focusinfo.com/support](http://www.focusinfo.com/support)

Alternatively, contact your Focus Enhancements FireStore dealer/distributor.

### PHYSICAL FEATURES

Your FireStore FS-3 features two main surfaces, the front panel and the rear connector panel.

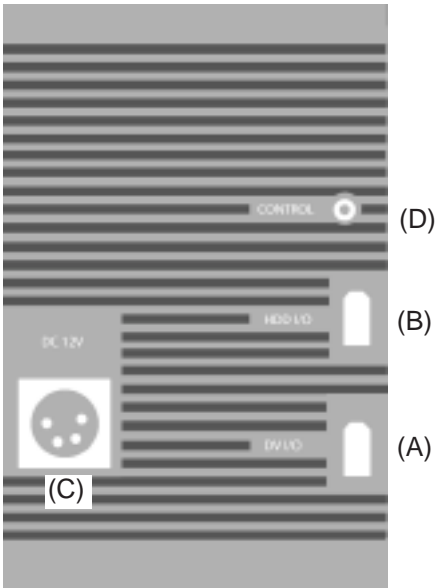
#### Front Panel



The front panel contains the backlit LCD and 9 buttons for controlling FireStore's functions. The top row of buttons act as soft keys and provide the function displayed on the bottom of the LCD.

The front panel also features a tally light, infrared remote sensor and power switch.

## REAR CONNECTOR PANEL



The rear connector panel features a 6-pin FireWire port for DV video I/O (A), a 6-pin FireWire port for connection of external FireWire drives or a computer (B), a 4-pin XLR DC power input (C) and a 3.5mm control cable input for RS232C, GPI or optional wired remote control (D).

## MOUNTING TO A CAMCORDER

The FireStore FS-3 is designed to mount directly to full size DV camcorders. It is designed to mount between the camcorder and the battery system. FireStore FS-3 features either Anton/Bauer, V-Mount, PAG Lock or NP mount plates allowing quick connection to most camcorders featuring these battery systems.

### Mounting to Anton/Bauer, V-Mount or PAG-Lock Equipped Camcorders

To mount to camcorder's featuring either an Anton/Bauer, V-Mount or PAG Lock battery system, do the following:

- 1) Remove any connected battery from the camcorder's battery mount plate.



- 2) Connect the FS-3 unit to the battery mount plate on the rear of the camcorder.



- 3) Attach the battery to the rear of the FS-3 unit.



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### Mounting to NP Battery Equipped Camcorders

To mount to camcorder's featuring NP battery systems, do the following:

- 1) Remove and disconnect the attached battery system from the camcorder. Consult either your camcorder's documentation or documentation from your battery system for more detailed information on removing the battery system. Leave any existing rubber gasket between the camcorder and battery system in place.
- 2) Mount the NP adapter plate to the rear of the camcorder with the supplied four screws (the plate mounts to the rear of the camcorder utilizing the same mount holes the NP battery case mounts to).



- 3) FS-3 features a two wire connector with black and red cables that connects main power between the FS-3 and the camcorder. Connect this to the equivalent connector on the rear of your camcorder.

If you are using a digital battery system that passes battery life status to the camcorder, and are using a camcorder that is compatible with these systems, connect the following cables between FS-3 and camcorder: (FS-3 NP version only.)

Anton/Bauer Digital Battery System  
- Grey and Orange Cable

IDX Synchron Digital Battery System  
- Blue and Red Cable.

- 4) "Hook" the FS-3 to the adapter plate on the rear of the camcorder (these hooks are unique to the FS-3NP model). Insert the supplied gasket between the plate and the FS-3 unit. Harness any loose cables into the "Hidey-Hole" on the FS-3.

- 5) Once mounted, secure the two captive screws at the base of the FS-3 to the camcorder. Ensure that no cables are "pinched" between the FS-3 and the camcorder.



- 6) Re-attach the battery system to the rear of the FS-3. Ensure to connect all cables and utilize the supplied gasket between FS-3 and the battery system. Harness any loose cables into the "Hidey-Hole" on the FS-3.

**CONNECTING A FIREWIRE CABLE BETWEEN FS-3 AND CAMCORDER**

Connect either the 6-pin to 6-pin or 6-pin to 4-pin FireWire cable between the FS-3's "DV I/O" port and the camcorder's DV interface



**INSERTING AND REMOVING FIRESTORE FSHDD-1 FIREWIRE DRIVES**

The best way to get to know the FireStore FSHDD-1 FireWire HDD is by studying the supplied manual. The manual provides detailed instructions and illustrations.

**INSERTING THE HDD:** Insert the drive into the slot on top of the FS-3 unit. Ensure that the power switch on the bottom side of the drive is set to "On" before inserting. The drive will only insert one way and features a "key" on one side to prevent incorrect insertion. Press down on the drive handle

firmly until the handle meets the top of FS-3. If power is on, you will observe the power LED light up green.



**REMOVING THE HDD:** Slide the HDD release latch on the FS-3 top plate toward the battery system. Once slid as far as possible, hold the latch while at the same time grasping the FSHDD-1 drive handle and pulling the HDD out from FS-3.



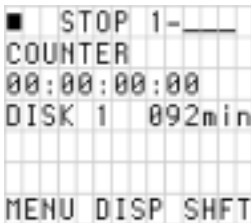
**GETTING STARTED**

Once FS-3 has been mounted to a camcorder, a power source has been provided and the FSHDD-1 FireWire HDD has been inserted, it is now possible to prepare FS-3 for use. When powered up for the first time, the FS-3 LCD will display "Welcome to FireStore" and possibly "Please Wait..." depending on the disk drive being used.

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If a FSHDD-1 FireWire HDD comes from the factory, it should be configured and ready to use. If the message “No Disk Detected” appears, ensure you have a FSHDD-1 FireWire HDD inserted properly. If the message “No Format Detected” appears, you will first need to partition and format the inserted drive. FS-3 will prompt you through the steps required to perform a format. **WARNING:** Formatting will erase all data on disk!

Once ready for use, the FS-3 default Splash Screen will appear as follows:

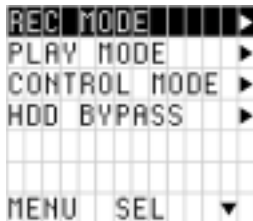


Use the MENU and SOFT KEYS on the FS-3 front panel to navigate and make changes in the menu system.

One of the first tasks to perform is to set the date and time in the FS-3 Setup menu. This forms the basis of file naming.

### FS-3 Menus

To enter the FS-3 menu, press the MENU soft key. The MENU screen will display on the FS-3 LCD.



By pressing the ▼ soft key, it is possible to scroll through the MENU items. Pressing the “SEL” soft key will open a SUB-MENU for particular menu items that have a right pointing arrow.

To set DATE and TIME, navigate to SETUP -> SET DATE&TIME and then set DATE and TIME individually.

### File Identification, Naming and Scene Marking

FS-3 files are identified by TRACK and VOLUME (disk drive) number on the LCD. For instance, a file on the FS-3 LCD identified as 1-043 is clip number 43 on Volume (disk) 1.

On a computer, files are identified by their base file name made up of DATE and TIME. For instance, a clip named 20030615-210943-01.mov is a clip that began recording at 9:09:43PM on June 15th, 2003.

Clips can also be organized into pre-named folders on the disk drive using the Scene Marking feature. If a clip has been Scene Marked, it will be displayed in brackets (e.g. <XXXXXX>) above the soft key labels on the LCD. Mark clips during REC, STOP or PLAY modes using the optional remote commanders or by pressing SHFT+DISP. While holding SHFT, press DISP to scroll through available folders. At the close of a session, select MENU -> UTILITIES -> ORGANIZE FOLDER. See the User Guide for more information on Scene Marking.

### FS-3 Main Features

Spend time navigating through the FS-3 MENU System. FS-3's MENU has eight main menu categories: Record Mode, Play Mode, Play From, Control Mode, HDD Bypass, Record Format, Setup and Utilities.

Functions in the FS-3 MENU include:

## **RECORD MODES:**

NORMAL RECORD - FS-3 front panel or remote control trigger of record.

RETRO DISK - Constantly buffers video in a loop to a determined amount of space on the HDD so that when record is triggered, a retro time period can be added to the beginning of any clip.

RETRO CACHE - Same as above, but utilizes a 10 second data buffer to cache video instead of the HDD.

LOOP REC - Allows video to be recorded while in normal record modes as an endless loop on available HDD space.

SNAP - Any record trigger will result in only a single frame of video being recorded to disk.

TIME LAPSE - User definable time lapse setup menu.

## **PLAY MODES:**

PLAY CLIP - When play is triggered, the selected clip will play from start to finish and then pause.

LOOP CLIP - When play is triggered, the selected clip will continuously loop play from start to finish.

LOOP ALL - When play is triggered, the entire contents of the HDD will loop play from start to finish.

PLAY ALL - When play is triggered, the entire contents of the HDD will play from start to finish and then pause.

## **PLAY FROM:**

TRACK LIST - Plays all clips from the HDD.

FOLDER LIST - Plays clips from within a specified folder only.

## **CONTROL MODES:**

LOCAL - FS-3 front panel or remote control of operation.

AV/C - Control of FS-3 via a computer connected to the "DV I/O" FireWire port on the Connector Panel. Not for use with camcorder recording/playback.

SYNCRO SLAVE - Control of FS-3 Record and Record Pause via camcorder's standard tape record trigger.

## **HDD BYPASS:**

Allows the connected FireWire HDD to be mounted/dismounted to a computer without removing.

## **REC FORMATS:**

Allows selection of particular DTE Technology native NLE file format prior to recording. Choices are RawDV, AVI Type 1, AVI Type 2, Canopus AVI, Matrox AVI, QuickTime and Avid OMF (all files are in DV25 standard.)

## **SETUP:**

HDD PORT - Allows FS-3's HDD port to switch between HDD connection and DV I/O loop through.

SET DATE & TIME - Allows for setting date and time for file naming purposes.

OS VERSION NO. - Displays the current system software version.

OS UPGRADE - Allows update of system software.

TC MODE - Allows different timecode modes to be selected including external TC, record run TC, Regen TC and Free Run TC.

TC SET - Allows Timecode or User Bit values to be preset.

IR - Enables or disables the FS-3 infrared sensor.

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**GPI** - Allows selection of GPI port function including disabled (RS232C), Pause/unpause, Index/New File and Rec Snapshot.

**BACK LIGHT** - Allows FS-3 LCD backlight to be on, off or auto off (backlight goes off after one minute of no activity).

**CLIP PREVIEW** - When selected, allows the first frame of each clip to be displayed on the DV video out when navigating from one clip to another.

**AUDIO CORRECTION** - Allows different levels of audio correction to be used during a recording.

**KEEP PREF** - Allows the "Keeper" button to mark clips to a single Keeper folder or multiple folders.

### **UTILITIES:**

#### **ORGANIZE FOLD**

Organizes all scene marked or keeper clips into respective folders on the HDD for easy NLE access.

**ORGANIZE OMF** - Organizes all Avid OMF recorded clips into a folder named "OMFI MediaFiles" so that the Avid MediaTool is able to use the clips in the Avid Timeline.

**DELETE CLIP** - Allows the selected clip to be deleted.

**FORMAT** - Allows any drive to have a completely new FAT32 format added.

**FORMATTING WILL ERASE ALL DATA!**

**PARTITION** - Prepares any unrecognized or blank HDD for formatting.

**REPAIR** - In the event that a file is damaged during recording, repair will fix the particular file.

**FILE NAME** - Displays the Base File Name (Date and Time) of the selected clip.

**FACTORY RESET** - Allows factory settings and values to be restored to FS-3.

## **UTILIZING FS-3 CLIPS IN A NON-LINEAR EDITING SYSTEM**

FireStore FS-3's unique DTE Technology allows clips that have been recorded to disk to be immediately available to a non-linear editing (NLE) system's timeline without having to capture, transfer or convert the files first.

After a recording is complete, remove the FSHDD-1 FireWire HDD (or external FireWire HDD) from FS-3.



Connect just the FSHDD-1 FireWire HDD to a Macintosh or Windows computer system with an OHCI compliant FireWire port. FireStore utilizes the FAT32 file format, so the same disk will mount to both Mac and Windows systems.



In most cases, the computer will power FSHDD-1 from its FireWire port. If not, an external power supply may be needed.

Once connected, FSHDD-1 will mount as a standard removable FireWire volume. Each clip on the disk represents a press of REC and REC STOP.



With DTE supported NLEs, it is possible to select IMPORT file and make the entire disk content immediately available to the NLE timeline. Note: Avid user's will need to follow some additional steps. See the FS-3 User Guide for more detail.

## **FS-3 LCD DISPLAY AND TALLY MODES**

The table below details the different LCD and tally light characteristics when used with different FS-3 control, record, play and stop modes:

<b>PLAY/REC MODE</b>	<b>FS-3 LCD</b>	<b>TALLY</b>
Stop	STOP	Off
Pause	PLAY	Off
Play	> PLAY	Off
Rec (Pause)	REC	Blink
Normal Rec (Rec)	REC	On
Retro Disk (Stop)	L STOP	Off
Retro Disk (Standby)	L REC	Blink
Retro Cache (Stop)	C STOP	Off
Retro Cache (Standby)	C REC	Blink
Loop Record (Stop)	O STOP	Off
Loop Record (Standby)	O REC	Blink
Loop Record (Rec)	O REC	On
Snap (Stop)	STOP	Off
Snap (Standby)	SNAP	On
Snap (Rec)	SNAP	On
Time Lapse (Stop)	STOP	Off
Time Lapse (Pause)	T REC	Blink
Time Lapse (Rec)	T REC	On
<b>CONTROL TYPE</b>	<b>FS-3 LCD</b>	<b>TALLY</b>
AV/C* (Stop)	A STOP	Off
AV/C* (Rec Pause)	A <REC TYPE> REC	Blink
AV/C* (Rec)	A <REC TYPE> REC	On
AV/C* (Play Pause)	A PLAY	Off
AV/C* (Play)	A ALL	Off
Syncro Slave (Pause)	Y <REC TYPE> REC	Blink
Syncro Slave (Rec)	Y <REC TYPE> REC	On

\* AV/C is only for use when FS-3 is connected to a computer system. To control FS-3 from a camcorder, use Syncro Slave Mode.