

# FS-H200 Pro User Guide Addendum



MANL-1167-03

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This addendum provides information about the FS-H200 Pro DTE Recorder's features.

### FS-H200 Pro Features

#### • Proxy Video Files

The FS-H200 Pro can generate proxy video files from stored original video files. Proxy files are smaller than their original video clips and easier to share over the network or internet.

#### LCD Video Playback

Playback recorded content on the FS-H200 Pro's LCD. Original DV/ HDV recordings play back at a reduced frame rate on the FS-H200 Pro's LCD. Monitor audio using an USB audio device: headset or speaker system.

#### • Single Frame Thumbnails

Single frame thumbnails are created for each recording. These thumbnails appear on the FS-H200 Pro LCD as well as via the web interface. Clip details are also listed including the clip name and the file wrapper type. The thumbnail format depends on the format used during recording.

#### Additional NLE Metadata Support

Metadata can now be logged in an AVID compatible format. This requires Avid Media Composer version 3.5 for use.

#### Multi-unit Metadata

Log the same metadata to multiple FS-H200 Pro units simultaneously using a single web interface.

#### Multi-unit Control

- **a.** Control multiple units from a single web interface.
- **b.** Sync clocks of multiple units for matching timecode via WIFI using an optional USB WIFI or wired Ethernet adapter.

## **Overview of this Addendum**

This addendum is divided into chapters as found in the FS-H200 Pro User Guide.

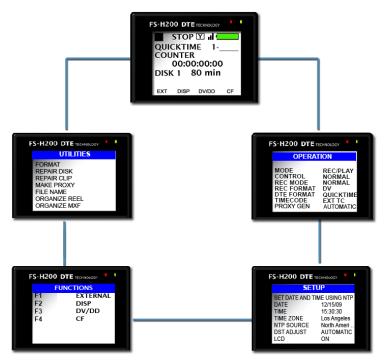
| Quick Start   | 3   |
|---|-----|
| This chapter describes how to set up and use the FS-H200 Pro. It includes descriptions of the features LCD Video Playback, Single Frame Thumbnail, and how to create Proxy Video Files.   |     |
| Metadata  | 31  |
| This chapter covers metadata functions including Avid Media Composer capability.  |     |
| FS-H200 Pro Functions   | 63  |
| This chapter provides detailed information about functions specific to the FS-H200 Pro. It also provides important updates about networking.  |     |
| FS-H200 Pro with Other Devices  | 99  |
| The FS-H200 Pro provides the ability to use the web<br>server of one FS-H200 Pro unit to control recording<br>functions of multiple other FS-H200 Pro units. In<br>addition, it is possible to synchronize the clocks of<br>multiple FS-H200 Pro units. |     |
| Non-Linear Editors (NLEs)   | 103 |
| This chapter provides information about integrating the FS-H200 Pro metadata capabilities with Avid Media Composer 3.5.   |     |

Quick Start provides additional information necessary for using the FS-H200 Pro recorder as quickly as possible. For Information about FS-H200 Pro functions and features not described in this addendum, refer to the FS-H200 User Guide.

This chapter covers the topics:

| FS-H200 Pro User Interface               | 4  |
|--|----|
| Record and Playback                      | 9  |
| Power On FS-H200 Pro                     | 10 |
| Select Record/Play or HDD Mode           | 13 |
| Select the Recording Format (REC FORMAT) | 14 |
| Set Date and Time                        | 10 |
| Record with the FS-H200 Pro              | 17 |
| EXTERNAL Recording                       | 20 |
| SYNCRO Recording                         | 22 |
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| Creating A Proxy File                    | 28 |
| Proxy Audio Playback                     | 27 |

### FS-H200 Pro User Interface



The FS-H200 Pro menu system provides access to all the functions available in the unit. Each of the displays above (except the Welcome and Home menus which come up automatically when the unit starts) are accessed by pressing the left or right soft buttons on the Scroll Wheel.

For more information on each function, go to the chapter FS-H200 Pro Functions.



#### Returning to the Top of the Menu or to Home menu

To get to the top of any menu, press the Left soft button. To get back to the Home menu:

- · Highlight the menu title at the top of the display.
- · Press the Select soft button.

| Main Menu | Feature                            | Option   | Selection   |
|-----------|------------------------------------|--|---|
| WELCOME   | Only appears for a few             | seconds on power up.   |   |
| HOME      | Gateway menu for all fu<br>status. | inctions, it displays disk   | and operational   |
| OPERATION | For more information               | see OPERATION Men  | us on page 65.  |
|           | MODE                               | REC/PLAY<br>HDD (mount to compute  | r function)   |
|           | CONTROL                            | NORMAL<br>EXTERNAL<br>SYNCRO   |   |
|           | REC MODE                           | NORMAL<br>RETRO CACHE<br>RETRO DISK  |   |
|           | REC FORMAT                         | DV<br>HDV  |   |
|           | DTE FORMAT                         | Depends on REC FORM  | IAT setting.  |
|           |                                    | DV   | Raw DV<br>AVI Type 1<br>AVI Type 2<br>Canopus AVI<br>Matrox AVI<br>QUICKTIME<br>MXF |
|           |                                    | HDV  | M2T<br>QUICKTIME<br>MXF   |
|           | TIMECODE                           | EXT TC<br>FREE RUN<br>REC RUN<br>REGEN   |   |
|           | PROXY GEN                          | OFF<br>AUTOMATIC   |   |
| SETUP     | For more information               | see SETUP Menus or   | n page 67.  |
|           | SET DATE AND TIME                  | JSING NTP  |   |
|           | DATE                               | XX/XX/XX   |   |
|           | TIME                               | XX:XX:XX   |   |
|           | TIME ZONE                          | Select from a list<br>containing time zone<br>ranges, including:<br>UTC, Africa, America,<br>Antarctica, Arctic, Asia,<br>Atlantic, Australia and<br>more. | Select a city within<br>the time code<br>range.                                     |
|           |                                    |  |   |

| Main Menu | Feature     | Option  | Selection        |
|-----------|-------------|---|------------------|
|           | NTP SOURCE  | Global, Asia, Europe,<br>North America, etc.                      |                  |
|           | DST ADJUST  | AUTOMATIC<br>STANDARD<br>ALTERNATE                                |                  |
|           | LCD         | ON<br>OFF<br>AUTO   |                  |
|           | LCD BRIGHT  | 1 through 16  |                  |
|           | KEY BRIGHT  | 1 through 16<br>(Does not include Scroll Whe                      | eel)             |
|           | ALARM       | ON<br>OFF   |                  |
|           | STOP        | NO VIDEO (DV and HDV)<br>FRAME (DV)<br>GRAY (DV)                  |                  |
|           | EXTL CTL    | OFF<br>PAUSE<br>FRAME<br>FILE                                     |                  |
|           | TC SET      | XX:XX:XX:XX   |                  |
|           | UB SET      | XX:XX:XX:XX   |                  |
|           | TC MODE     | DROP<br>NON-DROP<br>(If FS-H200 Pro in EXT TC,<br>has no effect.) | TC Mode          |
|           | RETRO CACHE | 0 to 10 seconds   |                  |
|           | RETRO DISK  | 0 to 61 minutes<br>(Based on 16GB Compact F<br>cards may vary.)   | lash card, other |
|           | TIMELAPSE   | XX:XX:XX:XX   |                  |
|           | PLAY MODE   | PLAY CLIP<br>LOOP CLIP<br>PLAY ALL<br>LOOP ALL                    |                  |
|           | PLAY FROM   | TRACK<br>REEL   |                  |
|           | PLAY PREF   | ORIGINAL<br>PROXY   |                  |
|           | PROXIES     | SPEED<br>QUALITY  |                  |
|           | UDF FS PERM | READ-ONLY<br>READ-WRITE   |                  |
|           | REC START   | NORMAL<br>FAST  |                  |
|           |             |   |                  |

| Main Menu | Feature  | Option   | Selection                         |
|-----------|--|--|-----------------------------------|
|           | NETWORK  | DHCP<br>MANUAL<br>(When DHCP is set, IP A<br>BROADCAST, and GATE<br>by the host router.) |                                   |
|           | IP ADDR  | XXX.XXX.XXX.XXX  |                                   |
|           | IP MASK  | XXX.XXX.XXX.XXX  |                                   |
|           | BROADCAST  | XXX.XXX.XXX.XXX  |                                   |
|           | GATEWAY  | XXX.XXX.XXX.XXX  |                                   |
|           | WIFI PRESETS   | XXX  |                                   |
|           | ESSID  | Set manually.  |                                   |
|           | KEY  | Set manually (WEP encr   | yption only.)                     |
|           | WIFI MODE  | MANAGED<br>ADHOC (P2P)   |                                   |
|           | FTP  | DISABLED<br>ENABLED  | Default ftp://<br>FS:FS@ipaddress |
|           | FTP PASS   | Sets FTP password for<br>FTP function.   | Default is FS.                    |
|           | WEB  | DISABLED<br>ENABLED  |                                   |
|           | AUTO ORG   | DISABLED<br>ENABLED  |                                   |
|           | AUTO MARK  | DISABLED<br>ENABLED  |                                   |
|           | REELS PREF   | FOLDER<br>TEMPLATE   |                                   |
| FUNCTIONS | Contains user definab<br>setting with a Functio<br>setting in its correspo<br>Refer to page 87 for m | n key is identical to cł<br>nding menu.  | ions. Changing a<br>nanging the   |
|           | F1   | SYNC<br>EXTERNAL<br>LCD SET<br>PROXY<br>REELS<br>R0-0 to R0-9<br>BLANK                   |                                   |
|           | F2   | DISP<br>ALARM<br>FILE<br>REELS<br>R0-0 to R0-9.<br>BLANK                                 |                                   |

| Main Menu | Feature              | Option   | Selection   |
|-----------|----------------------|--|-------------|
|           | F3                   | LOCK<br>DV/DD<br>REELS<br>R0-0 to R0-9<br>BLANK                                |             |
|           | F4                   | LOCK<br>CF<br>REELS<br>R0-0 to R0-9,<br>see REELS PREF on<br>page 135<br>BLANK |             |
| UTILITIES | For more information | see UTILITIES Menus o  | on page 90. |
|           | FORMAT               |  |             |
|           | REPAIR DISK          |  |             |
|           | REPAIR CLIP          |  |             |
|           | MAKE PROXY           |  |             |
|           | FILE NAME            |  |             |
|           | ORGANIZE REEL        |  |             |
|           | ORGANIZE MXF         |  |             |
|           | UPGRADE              |  |             |
|           | DELETE CLIP          |  |             |
|           | SYSTEM RESET         |  |             |
|           | DIAGNOSTIC           |  |             |
|           | STATUS               |  |             |
|           | VERSION              |  |             |
|           | CALIBRATE CLOCK      |  |             |
|           | COMPACT FLASH        |  |             |

The values set in these procedures are fixed and persist through power cycles. To change them, repeat the steps outlined above.

# **Record and Playback**

Before using the FS-H200 Pro, set up the unit as outlined in the following sections:

| Set Up the FS-H200 Pro                   | 10 |
|--|----|
| Power On FS-H200 Pro                     | 10 |
| Set Date and Time                        | 10 |
| Select Record/Play or HDD Mode           | 13 |
| Select the Control Mode                  | 14 |
| Select the Recording Format (REC FORMAT) | 14 |
| Select the Direct To Edit (DTE) Format   | 15 |
| Select the Timecode                      | 16 |
| Record with the FS-H200 Pro              | 17 |
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### Set Up the FS-H200 Pro

### Power On FS-H200 Pro

- 1. Press the **Power** key and release it.
- **2.** The **Welcome** display appears while the FS-H200 Pro initializes.



### Set Date and Time



#### Date and Time Must Be Set

The date and time must be set because they are used in the FS-H200  $\mbox{Pro}$  file naming function.

**1.** Press the **Right** soft button several times until the **SETUP** menu appears.



2. Use the **Down** soft button to highlight the date and press the **Select** key to access the **Set Date** menu.



- **3.** Use the **Right** and **Left** soft buttons to highlight the Month, Day, and Year. Use the **Scroll Wheel** to change the value.
- When complete, press the Select key. The display returns to the SETUP menu which displays the new date.
- **5.** Use the **Down** soft button to highlight the **TIME** setup menu and press the **Select** button. The following menu appears:



- 6. Use the **Right** and **Left** soft buttons to highlight the Hour, Minute, and Second. (Time is indicated in 24hr. mode.) Use the **Scroll Wheel** to change the value.
- 7. Press the Select key.

The display returns to the  $\ensuremath{\mathsf{SETUP}}$  menu which displays the new time.

**8.** Return to the **Home** menu.



**9.** Press the **Right** soft button on the Scroll Wheel once to display the **OPERATION** menu.



By default, the FS-H200 Pro is set up for the most typical recording situations. The Operation defaults are:

| OPERATION  | FUNCTION  | Reference       |
|------------|-----------|-----------------|
| MODE       | REC/PLAY  |                 |
| CONTROL    | NORMAL    |                 |
| REC MODE   | NORMAL    |                 |
| REC FORMAT | HDV       |                 |
| DTE FORMAT | QUICKTIME |                 |
| TIMECODE   | EXT TC    |                 |
| PROXY GEN  | AUTOMATIC | See on page 66. |

The following pages describe how to change these settings.

### Select Record/Play or HDD Mode



- **1.** Use the **Up** or **Down** soft buttons to select **MODE**.
- **2.** Press the Select key in the center of the **Scroll Wheel**. A list of operation modes appears: **REC/PLAY** or **HDD**.
- **3.** Pick **REC/PLAY** and press the **Select** key. The display returns to the **OPERATION** menu.

### Select the Control Mode



This determines which controls, the FS-H200 Pro's or the camera's, are used during recording, see **CONTROL** on page 95. Select the mode to use and the display returns to the **OPERATION** menu.

**EXTERNAL** control mode controls the FS-H200 Pro from the camera and works with most modern DV and HDV camcorders, whether using tape or no tape. Refer to the camcorder documentation to determine appropriate camcorder settings to use..



Playback of Videos Is Controlled Only by the FS-H200 Pro



### Select the Recording Format (REC FORMAT)

This determines which recording format, **DV** or **HDV**, the FS-H200 Pro uses. The camera must support the recording format selected.

Select the format type and the display returns to the **OPERATION** menu.



### Select the Direct To Edit (DTE) Format

This determines which non-linear editor (NLE) compatible format the FS-H200 Pro uses when recording. The DTE formats displayed depend on the

**REC FORMAT** selected in the last step.

Select the DTE format and the display returns to the **OPERATION** menu.



#### DTE Formats That Support Files Larger Than 2GB In Size

- · RAW DV
- M2T (HDV)
- Quicklime (DV and HDV) (720p25/30 and 1080i50/60 support only)
- MXF (DV and HDV). (720p25/30 and 1080i50/60 support only)

#### **Recording Using UDF or FAT File Systems**

The FS-H200 Pro can record continuously for long periods using either FAT or UDF file systems. However:

- FAT limits individual file size to a 2GB maximum. If while recording, the FS-H200 Pro reaches the FAT 2GB file size limit, the unit automatically starts a new file without dropping a frame. The clips are sequentially named.
- UDF maximum file size1 hour and 30 minutes. When recording using one of the DTE formats that supports file sizes larger than 2GB, the size of an individual file is limited to a maximum of 1 hour and 30 minutes in length.

#### DV24p and PAL 25p Modes

- 24p modes are only for use with camcorder's that are capable of DV-24p Advanced mode.
- 24p 24p mode is compatible with DV QuickTime and AVI Type 2 formats.
- · PAL 25p camcorders require no special 25p DV format
- There are different FS-H200 Pro models for NTSC and PAL recording.

### Select the Timecode



This determines the source of the timecode to be embedded in the recording.

Selecting the timecode returns the display to the **OPERATION** menu.

With the **OPERATION** menu title highlighted, press the **Right** key once and advance to the **SETUP** menu.



#### SETUP Menu Overridden by EXT TC Settings

When EXT TC is selected, the FS-H200 Pro follows the time code mode of the camera, **Drop Frame** or **Non Drop Frame**, regardless of the setting in the SETUP menu.

### Record with the FS-H200 Pro



### Do Not Disconnect Power or FireWire Cable

Never disconnect the power or the FireWire cable during a recording. This will cause file corruption.

#### Loss of Power During Recording

If power is lost during recording it is possible to repair the damaged file or files using the **REPAIR DISK** and **REPAIR CLIP** utility functions.

There are three modes of recording with the FS-H200 Pro.

#### NORMAL Recording

Control with the FS-H200 Pro transport keys.

Refer to NORMAL Recording on page 19.

### • EXTERNAL Recording

Control FS-H200 Pro recording with the video camera record trigger, whether using tape or tapless.

With most modern HDV and DV cameras, **EXTERNAL** mode is the preferred control method. Check the latest camera compatibility matrix on the Focus website: **www.focusinfo.com**.

Refer to EXTERNAL Recording on page 20.

### • SYNCRO Recording

SYNCRO is used most often with older camcorders that require the presence of a tape in the camcorder's tape deck.

Refer to SYNCRO Recording on page 22.

Before beginning recording, verify that:

- **1.** Time and date are set.
- **2.** Recording format is set.
- **3.** DTE Format is set.
- 4. The FS-H200 Pro is connected to the video camera.
- 5. Camera and FS-H200 Pro are powered on.
- 6. Tape is loaded in the camera, if:
  - Camera requires a tape in its transport before it triggers FS-H200 Pro record.
  - User wants to record to both tape and disk, see the following note.

### <u>i Note</u>

#### **EXTERNAL** Operation

Tape does not need to be loaded if the camera supports external operation, see **EXTERNAL Recording** on page 20.

#### **Troubleshooting: Counter Not Incrementing**

If the Counter does not increment while recording to the FS-H200 Pro, it is an indication that there is not an active connection between the FS-H200 Pro and the camera.

- Verify that the FS-H200 Pro 1394 DV I/O and the camera connections are secure. It may be necessary to unplug and then reconnect them. When a good connection is made, the Counter will increment and recording will start.
- · Verify that FS-H200 Pro and camera settings are correct.

#### Verify Record Mode Matches Source Video Content and Format

If in DV Record mode, HD content will not record properly. A NTSC or PAL DV source records only to a matching NTSC or PAL unit.

### NORMAL Recording

- 1. Set the video camera to **Camera** or **Cam** mode.
- 2. Verify that an image appears in the viewfinder.
- On the FS-H200 Pro, press Record ●.
   The FS-H200 Pro begins to record. The time code value shows on the display.



- **4.** Press **Pause II** once to put the FS-H200 Pro to **Rec-Pause** mode.
- **5.** Press **Pause II** again and the FS-H200 Pro begins to **Record** again in the same clip.
- **6.** Press **Stop**  $\blacksquare$  to stop the recording.
- 7. Press **Record** to begin recording a new clip.

### Creating a New File without Dropping Frames

When in record mode, it is possible to break the recording into a separate, new file without dropping frames.

While recording, press **Record**  $\bullet$  again and the FS-H200 Pro automatically creates a new clip.

### **EXTERNAL Recording**

External control allows the camcorder to control the FS-H200 Pro record function via the camera trigger.

- 1. Verify that the FS-H200 Pro is in **Stop** mode.
- **2.** From the FS-H200 Pro Home menu, press the **Right** soft button once and the **OPERATION** menu appears:



- **3.** Use the **Down** soft button to select **Control**. The default value is **NORMAL**
- **4.** Use the **Down** soft button to select **EXTERNAL**.
- **5.** Press the Scroll Wheel **Select** key. The Operations menu appears.
- 6. Press the Left soft button twice to return to Home menu.

The menu returns and a **STOP** indicator appears in the upper left-hand corner. Next to it is an **E** indicating that FS-H200 Pro record function is now under the external control of the camcorder.

### i Note

# Remember To Set Camcorder DV Controls For External Control Operation

Refer to the camcorder documentation for the DV control settings that permit External Control recording.

### To record:

1. Press the camera's trigger to begin recording.

The FS-H200 Pro begins to record video from camera. The time code value appears on the LCD display and the image appears in the camera's display.

- 2. Press the camera trigger again to put the FS-H200 Pro in **RECORD-PAUSE** mode.
- **3.** Press the camera trigger again and the FS-H200 Pro begins to record to a new clip.
- **4.** Press the camera trigger again to put the FS-H200 Pro in **RECORD-PAUSE** mode.
- 5. Press the FS-H200 Pro Stop key to stop recording.

### SYNCRO Recording

Syncro recording allows the FS-H200 Pro to mimic camcorder operations by monitoring the state of the camcorder's tape recorder controls.



#### Syncro: For Camcorders Without External Trigger Control

Syncro mode should only be used with older camcorders that do not have external trigger controls. Check the latest camera compatibility matrix on the Focus website.

- 1. Verify that the FS-H200 Pro is in **Stop** mode.
- **2.** From the FS-H200 Pro Home menu, press the **Right** soft button once and the **OPERATION** menu appears:



- **3.** Use the **Down** soft button to select **Control**. The default value is **NORMAL**
- **4.** Use the **Down** soft button to select **SYNCRO**.
- **5.** Press the Scroll Wheel **Select** key. The Operations menu appears.
- 6. Press the Left soft button twice to return to the Home menu. The Home menu appears displaying a Pause indicator in the upper left-hand corner. Next to it is a Y that indicates that the FS-H200 Pro is following the state of the camcorder's tape controls, i.e. record when the camcorder records and Record-Pause when it is in record-pause.
- 7. Now the FS-H200 Pro will respond to the camcorder's tape controls. The recording signal goes both to the tape in the camera and to the FS-H200 Pro.



### **Recording Timecode in the File**

- **1.** Press the **Right** soft button once and **OPERATION** menu appears.
- 2. Press the **Down** soft button several times to locate the **TIMECODE** option.
- **3.** Select **EXT TC** in the SETUP menu.

This option records the video camera time code in the file. For other available time code options refer to **TIMECODE** on page 102.

To view the source timecode (TC) from the camera, press the **DISP** key, **F2** default, until the format type appears, e.g. 1080/60i TC.



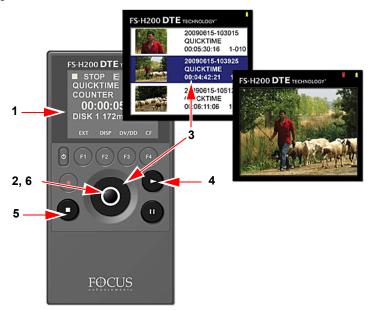
#### EXT TC

When in EXT TC mode the FS-H200 Pro follows the camera's time code, and the **Drop/Non-Drop Frame** in **SETUP** menu has no effect on the recorded video's time code.

#### Function keys

The tasks discussed above are available for programming into the function keys. For information on setting up function keys, refer to the section, FUNCTIONS Menus in the user guide.

### Playback on FS-H200 Pro



The FS-H200 Pro provides the user the ability to playback video clips, DV or HDV, and proxy files on its color LCD. Each clip has a thumbnail still image which is displayed along with clip data in list. In addition, the clip's clip data and metadata information are viewable through the FS-H200 Pro's web interface.

### i Note

#### Setting Playback Preference

The FS-H200 Pro offers the ability for the User to determine which file, the original DTE format or its proxy, displays when Play is selected. Refer to **PLAY PREF** on page 74.

#### **Turning Proxy Generation On and Off**

The FS-H200 Pro permits the User to set proxy file creation to AUTOMATIC so that a proxy file is generated as soon as a video clip finishes recording or OFF which allows the User to manually select an individual clip and make its proxy file, see: **PROXY GEN** on page 66 and **MAKE PROXY** on page 94.

To view a video or proxy file on the FS-H200 Pro:

- **1.** Go to the **Home** menu.
- 2. Press the Select key.

A list of the video clips with thumbnails and clip information appears.

If there are no video clips, the viewer will not open and the **Home** menu remains displayed.

- **3.** Locate the file to view using the **Scroll Wheel** or the **Up** and **Down** soft buttons.
- **4.** Press the **Play** key to start playback. The original DV or HDV recording plays back at a reduced frame rate, between 10 and 15 frames per second depending on the video type, such as HDV or DV, 1080i or 720p, etc.

### <u>i Note</u>

#### LCD Proxy Playback Controls

```
Play key - start playback.
Pause key - pause and restart playback.
Stop key - stop playback and return to thumbnail menu.
Right soft button - similar to FF (FWD), jump forward in file.
Left soft button - similar to RR (REV), jump backwards in file.
```

- 5. Press Stop to end playback and return to the video clip list.
- 6. Press the Select key to return to the Home menu.

### Thumbnails

A single frame thumbnail image is automatically created for each recording. These thumbnails and accompanying video clip information are viewable as a list on the FS-H200 Pro LCD. In addition, the thumbnails, clip information, and clip metadata are available via the FS-H200 Pro web interface.

The thumbnail screen lists the filename, file wrapper type (MXF, Quicklime, etc.), the duration, and track number. To exit the thumbnail screen, simply press the center button on the scroll wheel.

### Viewing Thumbnails on the Web

- Log on to the FS-H200 Pro web server. For more information, see Logging Onto the FS-H200 Pro Web Server on page 33 in the section, Metadata Pages and Functions.
- On the Entry web page, select the Review tab. Thumbnails for all clips on the FS-H200 Pro along with their track names appear on the web interface. For more information, see Entry on page 33 and Review on page 35.
- **3.** Clicking on a thumbnail image displays a larger thumbnail image and additional clip information such as metadata. In addition, metadata can be added or modified.

For more information, see **Review** on page 38 of this addendum.

### **Proxy Audio Playback**

To listen to proxy file audio, attach an USB headset to the FS-H200 Pro and playback proxy files.

Volume is controlled through the USB headset.



#### Plug In USB Headphones Before Starting Playback

To hear the audio it is necessary to plug-in the USB headphones before starting playback. There is no sound if headphones are plugged-in after playback has started.

# **Creating A Proxy File**

The FS-H200 Pro provides the videographer the ability to create smaller proxy files to accompany the native format video clips. These proxy files are easy to share over networks or the internet and provide visual records for evaluating the larger native format clips.

This procedure is for generating a proxy file from a selected video clip:

 From the Home menu, press the Left soft button once to go to the UTILITIES menu.



2. Select MAKE PROXY.



- 3. Enter the video clip number using the Scroll Wheel.
- Press F3/YES to start proxy generation.
   A status display appears, indicating the file is being generated. When done the COMPLETED system message appears.
- 5. Press F4/BACK to return to the Utilities menu.

For information about proxy file settings, see **PROXY GEN** on page 66.

### **Proxy File Formats**

The format of the proxy file depends on the format of the parent video clip.

| Original File Format  | Proxy File Format |
|-----------------------|-------------------|
| QuickTime DV/HDV      | QuickTime (.mov)  |
| MXF (DV/HDV)          | AVI (.avi)        |
| M2T (HDV)             | MP4               |
| AVI (DV All variants) | AVI (.avi)        |
| Raw DV (DV)           | MP4               |

For technical information about proxy files, see **Proxy Videos** on page 112.

This chapter covers the FS-H200 Pro's metadata capabilities. The FS-H200 Pro supports metadata for Avid Media Composer 3.5 and Final Cut Pro non-linear editing programs. This chapter contains:

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| Metadata Pages and Functions                        | 34 |
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# Overview

The FS-H200 Pro's metadata function is a web-based application that provides the user the ability to:

- Add video clip-based and time code-based metadata to video clips during recording or playback.
- Use a default or custom metadata entry template.
- Export clip-based and time code-based templates to ProxSys Media Servers and NLE applications such as Avid and Final Cut Pro.

# <u>i Note</u>

#### FS-H200 Pro Web Server and Database Provide Metadata Functions

The FS-H200 Pro has a resident web-based Metadata application that permits the configuring of metadata templates and metadata logging using a simple web browser.

Connect to FS-H200 Pro's web server utilizing an USB 2.0 to 802.11 b/g WIFI dongle or a USB 2.0 to Ethernet adapter. Any device with networking capabilities and web browser functionality -- computer, laptop, PDA, etc. -- can log into FS-H200 Pro's web server.

# Logging Onto the FS-H200 Pro Web Server

Logging onto the FS-H200 Pro web server provides access to the metadata settings and logging functions. The pages and functions available depend on the type of device accessing the FS-H200 Pro.

To access the FS-H200 Pro's web server:

- Connect the FS-H200 Pro to a wired or wireless network through its USB port using a USB to Ethernet adapter, or 802.11b/g wireless dongle.
- 2. Determine the FS-H200 Pro's IP address, see IP ADDR on page 77.
- **3.** Open a web browser and enter the FS-H200 Pro's IP address in the browser's Address window.

When the FS-H200 Pro web server opens, the Entry page appears.

|                 |   | Entr  | y Revie  | ew Ex  | port   | Admin   |   | FS-H200   | Pro Por   | rtable DTE   |
|-----------------|---|---|--|--|--|---|---|---|---|--|
| OCUS            |   |   |  |  |  |   |   |   |   |  |
|                 |   |   |  |  |  |   |   |   |   |  |
|                 | Rec Cour  | nter:   | 00:00:06:29  | Track:   |  | 1-004   | Default   | Template:   |   | AVID MXF 💌   |
| k Units:        |   |   |  |  |  |   |   |   |   |  |
| Control:        | Rec   |   |  |  | Delayed S  | tart in Sec   | 2   |   |   |  |
|                 |   |   | ſ  | Update   |  |   |   |   |   |  |
| escription      |   |   |  |  |  |   |   |   |   |  |
| ene             |   |   |  |  |  |   |   |   |   |  |
| ottake          |   |   |  |  |  |   |   |   |   |  |
| gnote           |   |   |  |  |  |   |   |   |   |  |
| bod             |   | TRUE  | ~  |  |  |   |   |   |   |  |
| aster Comment 1 |   |   |  |  |  |   |   |   |   |  |
| ster Comment 2  |   |   |  |  |  |   |   |   |   |  |
| aster Comment 3 |   |   |  |  |  |   |   |   |   |  |
| aster Comment 4 |   |   |  |  |  |   |   |   |   |  |
| omment A        |   |   |  |  |  |   |   |   |   |  |
| omment B        |   |   |  |  |  |   |   |   |   |  |
|                 |   |   |  | Update   |  |   |   |   |   |  |
|                 |   |   |  |  |  |   |   |   |   |  |
|                 | atus:<br>Control:<br>Control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control:<br>control: | turs: Rec Cour<br>I bluits:<br>control: Rec<br>scription<br>ene<br>ottake<br>gnote<br>od<br>ster Comment 1<br>ster Comment 2<br>ster Comment 3<br>ster Comment 4<br>mment A | tus: Rec Counter:<br>Units:<br>control: Rec<br>ene<br>ene<br>ottake<br>gynote<br>ottake<br>ster Comment 1<br>ster Comment 2<br>ster Comment 3<br>ster Comment 4<br>mment 4 | Rec     Countor:     00:00:06:29       Linits:     Control:     Rec       Control:     Rec     Image: Control:       Scription     Image: Control:     Image: Control:       ottake     Image: Control:     Image: Control:       ottake     Image: Control:     Image: Control:       ottake     Image: Control:     Image: Control:       ster Comment 1     Image: Control:     Image: Control:       ster Comment 3     Image: Control:     Image: Control:       ster Comment 4     Image: Control:     Image: Control:       mment A     Image: Control:     Image: Control: | tus: Rec Counter: 00:00:06:29 Track:<br>tinits:<br>control: Rec<br>Control: Re | tais: Rec Counter: 00:00:06:29 Track: Linits: Control: Rec Counter: Delayed 5 scription ene ottake ottake ottake ster Comment 1 ster Comment 2 ster Comment 4 mment A mment A | Rec         Counter:         80:00:06:29         Track:         1.004           Linits:         Control:         Rec         Delayed Start in Sec           Control:         Rec         Delayed Start in Sec           scription | Item         Rec         O0:00:06:29         Trade:         1:004         Default           Linits:         Control:         Rec         Delayed Start in Sec:         2           Control:         Rec         Delayed Start in Sec:         2           Control:         Rec         Delayed Start in Sec:         2           Update | Intro     Rec     Counter:     00:00:06/29     Track:     1-004     Default Template:       Lints:     Control:     Rec     Default Start In Sec:     2       Lipdate     Update     Introl Start In Sec:     2       Start In Sec:     Introl Start In Sec:     2       Start In Sec:     Introl Start In Sec:     2 | Control:         Rec         Op/00:06:29         Track:         1:004         Default Template:           Linits:         Control:         Rec         Delayed Start in Sec         2           Lipidale         Lipidale         2         1         2           Lipidale         Lipidale         2         1         2           Control:         Rec         Delayed Start in Sec         2           Lipidale         Lipidale         2         2           Update         Lipidale         2         2           Utake         Lipidale         2         2           start Comment 1         Lipidale         2         2           start Comment 2         Lipidale         2         2           start Comment 3         Lipidale         2         2           mment A         Lipidale         2         2 |

The first time the web server opens, the **Entry** page fields are empty. Once the User selects a template and presses the **Rec** button on the **Entry** page, then these fields appear with values.



#### Using A PDA To Access The FS-H200 Pro Web Server

When accessing the FS-H200 Pro's web server, the Entry page displays first. The appearance of this page varies depending on the device used to view it.

# **Metadata Pages and Functions**

FS-H200 Pro metadata has five web pages representing specific functions that are divided into two groups: **User** and **Admin**. The User/Admin tab acts as a toggle to switch between the two groups. To display the other group, click on the **User** or **Admin** tab.

• Admin group includes the pages:

Template - for creating and managing templates.

**Settings** - template export/import and reel matching parameters, for more information, refer to the user guide.

• User group includes the pages:

**Entry** - for entering and setting metadata values in a template. **Review** - for reviewing the thumbnails and logged metadata of recorded video clips.

**Export** - for specifying the export of metadata based on a particular template.

| FOCUS             | Templat       | e Setting  | gs | User           | FS-H200 Pro       | o Portable DTE   |
|-------------------|---------------|------------|----|----------------|-------------------|------------------|
| Template Name:    |               | New:       |    | Template Typ   | e: Apple XML Inte | erchangeFormat 💌 |
|                   |               | Duplicate: |    | Based on:      | None              | ~                |
|                   |               |            |    |                |                   | Add              |
| Display Template: | FCP Example   | <b>~</b>   |    |                |                   | Delete Template  |
| Field Name        | Friendly Name | TC Depend  |    | Input Style Pr | redefined Values  | Action           |
| Description       | Click to edit | No         |    | Mixed Input    | Edit Predefined   | Remove Disable   |

## Templates

Use the Template page to create, modify, and manage the metadata templates stored in the FS-H200 Pro database:

- Display an existing template.
- Enable or disable specific metadata fields on a template.
- Edit predefined values for specific fields.
- Duplicate an existing template and assign it a new name.
- Create a new template using the Apple XML Interchange (AXIF), Avid Media Composer, or a Custom format.

## Settings

|                  | Template Se   | ettings User  | FS-H200 Pro Portable DTE |
|------------------|---------------|---------------|--------------------------|
| FOCUS            |               |               |                          |
| Reel Matching    |               |               |                          |
| Reel Number      |               | Template Name |                          |
| )                |               | FCP Example 💌 |                          |
|                  |               | FCP Example 💌 |                          |
| 1                |               | FCP Example 💌 |                          |
| 3                |               | FCP Example 💌 |                          |
| ŧ                |               | None 💌        |                          |
| 5                |               | None 💌        |                          |
| 5                |               | None 💌        |                          |
| Template Export/ | Import        |               |                          |
| Export           |               |               |                          |
| Export Template: | FCP Example 👻 |               | Export Template          |
| Status:          | N/A           |               |                          |
| Import           |               |               |                          |
| File:            |               |               | Browse Upload            |
| Status:          | N/A           |               | Import                   |

Clicking on **Settings** opens a page with the functions:

## Reel Matching

This function allows the User to assign specific metadata templates to particular FS-H200 Pro REELs. REEL then has the template's name.

The User can, without leaving the Home screen, employ one of the function keys to quickly select a template by picking a REEL with the template's name. The **Entry** page automatically

changes to the template assigned to the REEL.

This function requires that the **SETUP** menu > **REELS PREF** option **TEMPLATE** be selected, see REELS PREF on page 143.

## Template Export/Import

This function permits the User to export a template from the FS-H200 Pro database to the FS-H200 Pro drive where it is available for downloading.

In addition, the User can import from the input device templates created in other FS-H200 Pros.

#### Delete Template

This function allows the User to select and delete templates from the FS-H200 Pro.

# Entry

| Status: Re       | ec Counter: 00:00: | 06:29 Track: | 1-004                | Default Template: | AVID MX |
|------------------|--------------------|--------------|----------------------|-------------------|---------|
| ink Units:       |                    |              |                      |                   |         |
| Control:         | Rec                |              | Delayed Start in Sec | 2                 |         |
|                  |                    | Update       |                      |                   |         |
| Description      |                    | Opuate       |                      |                   |         |
| Scene            |                    |              |                      |                   |         |
| Shottake         |                    |              |                      |                   |         |
| Lognote          |                    |              |                      |                   |         |
| Good             | TRUE 💌             |              |                      |                   |         |
| Master Comment 1 |                    |              |                      |                   |         |
| Master Comment 2 |                    |              |                      |                   |         |
| Master Comment 3 |                    |              |                      |                   |         |
| Master Comment 4 |                    |              |                      |                   |         |
| Comment A        |                    |              |                      |                   |         |
| Comment B        |                    |              |                      |                   |         |

Use the Entry page to enter metadata to video clips.

Status

Indicates the mode the FS-H200 Pro is currently in: Rec or Stop.

Counter

Displays time code during recording.

Track

Displays current track (clip) number.

#### Default Template

Initially the Entry page displays the metadata template selected as the default. Its name appears in the **Default Template** field.

To use a different template, select it from the **Default Template** dropdown menu. The new template appears and is active once the FS-H200 Pro is in Record, Pause or Playback mode.

A template must be selected before recording or playback begins.

Control

Use the **Rec/Stop** button to start and stop recording from the **Entry** page, rather than the FS-H200 Pro or the camcorder.

#### Delayed Start in Sec

This sets the time between when **Rec** is pressed and the actual recording begins: range, 0 - 999 seconds.

#### Update Button and Metadata Fields

During record or playback information can be entered in the metadata fields. Press **Update** to log the metadata for the video clip. For information about logging metadata, see Entering Metadata on page 38.

#### • ADD

Clicking on **ADD** displays the Link Units workspace.

Use Link Units to connect to one or more secondary FS-H200 Pros and:

**Copy** a metadata template to the secondary FS-H200 Pros.

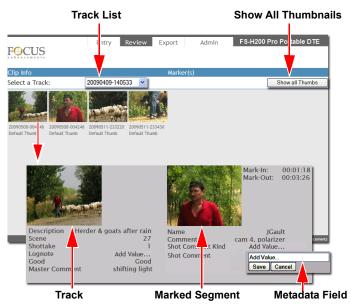
Log metadata on to multiple FS-H200 Pros: primary and secondary.

**Control** synchronized recording operations of multiple FS-H200 Pros using the primary.

For more information, see:

Logging Metadata into Multiple FS-H200 Pros on page 44. Controlling Multiple FS-H200 Pros At Once on page 100.

# Review



Use **Review** to examine video clip thumbnails, metadata, time code, and in/ out markers.

When the Review page first appears, it is empty.

To view information about a video clip the user can select a track to view by either:

- Picking a track (clip) from the Track dropdown list.
- Click on **Show All Thumbnails** to display a set of video clip thumbnails with filenames and video format.

Click on a thumbnail to display a larger thumbnail and all information about the video clip. If a segment has been marked, its thumbnail is enlarged too.

## Marked Segment Thumbnail and Data

If **In/Out Markers** have been set in the video clip, an additional thumbnail appears in the display. It has the same file name as the parent clip.

## Add or Change Metadata

Click on a metadata field to add or change data.



#### **Troubleshooting Tip - Missing Templates Thumbnails**

If while working on the Entry, Review, or Template pages, thumbnails or metadata templates are missing it is necessary to run the Format utility, see FORMAT on page 63.

Be certain that the Templates option is set to Clear.

Save all video clips before formatting.

# Export

|                             | Entry         | Review     | Export      | Admin               | FS-H200 Pro | Portable DTE              |
|-----------------------------|---------------|------------|-------------|---------------------|-------------|---------------------------|
| FOCUS                       |               |            |             |                     |             |                           |
|                             |               |            |             |                     |             |                           |
| Final Cut Pro Export        |               |            |             |                     |             |                           |
| Export By Track: 200904     | 07-123551 💌   |            |             | Export All          |             |                           |
| Export All Based on Tem     | plate         |            |             |                     |             | Export                    |
| Avid Media Composer E       | xport         |            |             |                     |             |                           |
| Export By Track: 200904     | 08-141717 💌   |            |             | Export All          |             |                           |
|                             |               |            |             |                     |             | Export                    |
| Generic Export              |               |            |             |                     |             |                           |
| Export By Track: 200904     | 07-123551 💌   |            |             | Export All          |             |                           |
| Export All Based on Tem     | plate         |            |             |                     |             | Export                    |
| Export Matching             |               |            |             |                     |             |                           |
| Add Export Matching for spe | ecific export | to a Custo | om          |                     |             |                           |
| Template:                   |               |            |             | Type: Final Cut Pro | ~           |                           |
|                             |               |            | Ten         | nplate: Baseball    | ~           |                           |
|                             |               |            | Ten         | iptate. Dasebail    |             |                           |
|                             |               |            |             |                     | Add Exp     | ort Matching              |
| Edit Export Matching for Te | mplate:       | Avid       | l Media Com | ooser 💌             |             |                           |
|                             |               |            |             |                     | Edit Exp    | ort Matching              |
|                             |               |            |             |                     |             | D 2008 Focus Enhancements |

Use **Export** to manually export video clip metadata files from the FS-H200 Pro database to User accessible xml or wrapper files. The XML file name identifies it as belonging to a specific video clip.

## **Specific NLE Editors**

**Export** prepares a video clip and its metadata for exporting to a NLE, for example Final Cut Pro, Avid Media Composer, or a user defined Custom template.

## Avid Media Composer

Avid Media Composer extracts from the MXF wrapper files the video and metadata it needs for editing. The procedure for preparing video and metadata for Avid Media Composer follows:

1. On the FS-H200 Pro, run the ORGANIZE MXF utility.

Before exporting Avid MXF files it is first necessary to run the FS-H200 Pro utility **ORGANIZE MXF**. This utility creates the MXF directory structure and moves metadata xml files into the appropriate folders: see **ORGANIZE MXF** on page 95.

- Use the FS-H200 Pro web Export function, Avid Media Composer Export, to prepare the video clips for use by the Avid Media Composer non-linear editor. For more information about Export parameters, see Exporting Metadata on page 59.
- **3.** Mount the FS-H200 Pro on to the computer with the Avid Media Composer non-linear editing program.
- **4.** From Avid Media Composer, run its Media Tool. The Media Tool imports the Avid MXF files from the FS-H200 into specified Avid Media Composer bins. Because the MXF files contain the video and its metadata everything is imported together.

For specific Avid Media Composer information, refer to Avid User documentation.

## **Final Cut Pro**

In Final Cut Pro, the User drags or imports the xml file(s) into the Final Cut browser. The application automatically locates the associated video clips and imports them into the editor browser. From there the User can insert the video files into the Final Cut timeline. User can review the metadata with the Final Cut browser and use the Final Cut Pro to search for and through the video clips.

## **ProxSys Media Servers**

Using the ProxSys Media Transfer Utility, the User can select the xml files and import them into ProxSys systems. ProxSys automatically locates the video clips associated with the xml file(s) and imports them into the ProxSys system where the metadata provides search capability. For more information refer to the ProxSys Media Transfer Utility User Guide.

# **Entering Metadata**

Metadata may be entered into a single FS-H200 Pro or simultaneously into multiple FS-H200 Pros.

These procedures assume that there is a ready-to-use template, such as the FCP Example or AVID MXF that are supplied with the FS-H200 Pro and that it is not necessary to modify the template or create a new one.

# Entering Metadata into a Single FS-H200 Pro

Use the following steps to enter metadata during Record, Play, and Stop modes.

**1.** Open the metadata function using a web browser and the FS-H200 Pro web-based interface.

Entry Review Export Admin FS-H200 Pro Portable DTE FOCUS 2 Link Units: 3 d Start in S Update Scene arker Comm Shottake 6 Lognote rk Out 4 Mark variable light ster Comm ster Com Clip Comment 1 lip Comment 2 Update 5

Initially, the **Entry** page is empty.

**2.** Select the **Template** to use.

This must be done before recording begins.

## i Note

#### Entering Metadata During Stop Mode

Metadata entered during Stop mode is assigned to the previous video clip.

**3.** Begin to record, playback or enter Stop.

In **NORMAL** record mode, pressing **Rec** can start recording. The fields of the selected metadata template appear on the Entry page. **4.** Enter data into the metadata fields.

This sets the video clip-based metadata.

The type of data entered depends on the type input allowed by the field: variable, predefined, and mixed.

#### 5. Click Update.

6. Set time code markers.

It may be necessary to set markers to indicate the location of a particular frame or sequence of frames in the video clip.

The names of the markers depends on the template used and the template type. Generally, there is an **In** (Start) marker for the beginning and an **Out** (Stop) marker for the end of the marker selection.

- Clicking on a **Set** button places the marker and displays the time code location of the marker.
- Clicking on the **Mark** button resets the markers to 00:00:00.00.

Continue recording until finished.

## f Note

#### Updating Metadata - One Set Per Video Clip

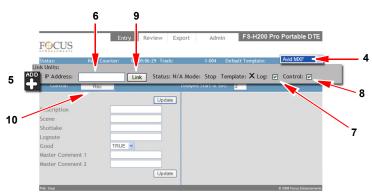
During recording, if different data is entered in the metadata fields and the Update button clicked, the new data replaces the previous entry for the video clip.

Repeat the procedure to insert the same or different metadata for each video clip recorded.

## Saving Metadata

There is no distinct Save step.

Clicking on the **Update or Mark** buttons writes the metadata to the FS-H200 Pro database and into a specific record assigned to the video clip. Changing the metadata in the template changes the video clip's record in the database in real time.



# Logging Metadata into Multiple FS-H200 Pros

The FS-H200 Pro provides the ability to simultaneously log the same metadata to multiple FS-H200 Pros located on the same network.

For precise logging of metadata, it is necessary that the FS-CF Pro units have their clocks synchronized, see **Synchronizing Clocks on Multiple FS-H200 Pros** on page 102.

To log metadata onto multiple FS-H200 Pros:

- **1.** Begin by mounting at least two FS-H200 Pro units on a network.
- 2. Select one of the FS-H200 Pros to be the host.
- **3.** Log on to the host and go to its **Entry** page.
- **4.** Select the metadata template to use from the **Default Template** dropdown list.
- 5. Click the ADD button.

The Link Units workspace expands to show link parameters for the first client FS-H200 Pro.

Notice that the Template option is permanently check marked. Any time the host FS-H200 Pro links to another unit, it transfers the currently selected template to the client, regardless if the other link options are selected or not.

- 6. Enter the IP address for the client FS-H200 Pro.
- 7. Check-mark **Log** if the host unit is to log metadata on the client unit. Then any metadata entered on the host appears on the client too.
- **8.** Check-mark **Control** if the host unit is to control the Record, Playback, and Pause operations on the client unit.

**9.** Click **Link** to connect to the client unit.

The Status and Mode messages will change indicating that the connection is made.

Repeat steps 5 through 9 for each client unit.

The linked FS-H200 Pros are now ready. Enter metadata as described in the FS-H200 User Guide.

**10.** To start recording on multiple units, press the **Record** button on the **Entry** page.

For information about the specific metadata fields, refer to **Entering Metadata into a Single FS-H200 Pro** on page 42.

# Reel Matching Settings User FS-H200 Pro Portable DTE ReelD TemplateD TemplateD 1 FCP Example × 2 FCP Example × 3 FCP Example × 4 Baseball × 5 Baseball × 6 Baseball × 7 Baseball × 8 None

# **Reel Matching and Templates**

The **REEL** function permits the User to group video clips into Reels, see Assigning Clips to Reels on page 148.

The Reel matching function requires that the **SETUP** > **REELS PREF** option **TEMPLATE** be selected, see REELS PREF on page 143.

**Reel Matching** is a function that allocates a template to a specific reel or reels. When a video clip is assigned to a Reel the matched template is applied to the clip and when recording begins the designated template automatically appears in the Entry window.

- **1.** Click on the **Settings** tab to display **Reel Matching**. The Settings page appears.
- **2.** For each of the Reels, click on its **Template ID** dropdown menu and select a template. From now on, by selecting a clip to a particular reel, the reel will have the name.

Later, if a Function button is assigned to a matched reel, the template name appears on the Home screen when the folder is selected with the Function button.

# (i Note

#### PDAs Can Not Access the Settings Page

Because of their limited functionality, PDA type devices can not access the Settings or Metadata Template pages.

Performing Reel Matching must be done with a computer.

# **Creating a Template**

It is possible to create a new template by:

• Constructing a new template using the Apple XML Interchange Format (AXIF).

This method creates a template that conforms to the selected xml format and with all the metadata fields set to their defaults. The User is restricted to disabling/enabling the metadata fields or changing their predefined values.

• Duplicating and modifying an existing template.

The duplicate template has the same metadata fields and settings as the original. The User is restricted to disabling/enabling the metadata fields or changing their predefined values.

• Build a new template using an empty custom template.

This procedure permits the User to create a unique template by adding metadata fields and defining their values and type of input.

• Import a template created on another FS-H200 Pro

This procedure provides the ability to import templates stored on the input device -- computer or PDA.



Currently, FS-H200 Pro Custom Templates Are Not Compatible with Avid or FCP.

**Creating a New Template** 

| U                               |               | •            |                  |                                 |                |
|---------------------------------|---------------|--------------|------------------|---------------------------------|----------------|
| 1                               | 2             | 3            |                  | 4                               | 5              |
| FOUJS                           | Te nplate     | Settin«      | User             | FS <mark>-I</mark> 200 Pro Port | tabl≑ DTE      |
| Template Name:<br>Baseball AXIF |               | lew: 🗹       | Template Typ     | e: Apple XML Interch            | ang Format 💌   |
|                                 |               | Duplicate: 📃 |                  | None                            | Aud            |
| Display Template:               | None 💌        |              |                  | Delete                          | Template       |
| Sort Field Name                 | Friendly Name | TC Depend    | Input Style Pred | efined Values Actio             | n              |
| Scene                           | Click to edit | No           | Mixed Input      | Edit Predefined                 | Remove Disable |
| Shottake                        | Click to edit | No           | Mixed Input      | Edit Predefined                 | Remove Disable |
| Lognote                         | Click to edit | No           | Mixed Input      | Edit Predefined                 | Remove Disable |
| Good                            | Click to edit | No           | Predefined       | Edit Predefined                 | Remove Disable |
| Master Comment<br>1             | Click to edit | No           | Mixed Input      | Edit Predefined                 | Remove Disable |
| Master Comment<br>2             | Click to edit | No           | Mixed Input      | EditPredefined                  | Remove Disable |
| Master Comment<br>3             | Click to edit | No           | Mixed Input      | Edit Predefined                 | Remove Disable |
| Master Comment                  | Click to edit | No           | Mixed Input      | Edit Predefined                 | Remove Disable |

This method uses the Apple XML Interchange Format (AXIF) listed in the **Template Type** dropdown menu.

- **1.** Enter a unique name in the **Template Name** field.
- **2.** Verify that the Display Template field is set to **None**.
- **3.** Place a check in the **New** check box.
- **4.** Select the metadata template to use from the **Template Type** dropdown menu.

Apple XML Interchange Format is the default template type.

5. Click Add.

The template opens displaying all of the metadata fields available in the template. The fields are set to their default states and values.

## (i Note

#### Final Cut Pro (FCP) Example Template

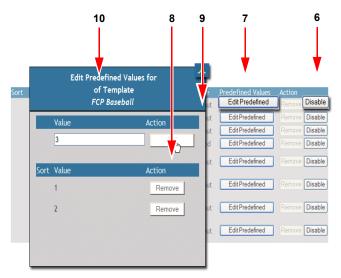
**FCP Example** is a generic, Final Cut Pro compatible template that employs the standard Apple XML Interchange Format. The information logged into these fields is viewable using the FCP application browser window, once it is imported into FCP. 6. Verify that the necessary metadata fields are enabled.



#### Enable Only Necessary Fields

When logging metadata in the field, it may be difficult to log more than a few metadata fields for a given shot (although it is possible to log as many as you need with FS-H200 Pro). To be more efficient, disable non-critical fields so that they do not distract while logging.

The **Disable/Enable** button is a toggle switch. Its label indicates the action that will occur, if it is selected.



7. Define the metadata values for each metadata field.

For greater efficiency, determine what metadata values are available for a field before going into the field. This simplifies data entry during recording.

Click on the **Edit Predefined** button to view or edit the metadata values for specific metadata fields.

The Edit Predefined Values dialog box appears.

## <u>i Note</u>

#### **Predefined Values**

Predefined values offer the User a list of set items that makes logging more consistent and quicker.

- Add and Remove predefined values.
   Enter values, one at a time and click on Add.
   Add values in the order they are to appear.
- 9. Click on X to close the Edit Predefined button.
- **10.** (Optional) Replace the metadata item's Field Name with a more meaningful **Friendly Name**.

Click on **Click to Edit** in the Friendly Name column.

A text field appears where the User can enter a more meaningful label for the metadata Field Name.

Press the keyboard **Enter** key to save the new name.

The Friendly Name replaces the Field Name on the Entry page. The Friendly Name does not change the Field Name in the FS-H200 Pro database.

The template is now ready for use.

## TC Depend and Input Style In AXIF and FCP

In Apple XML Interchange Format (AXIF) templates the settings for the **TC Depend** and **Input Style** fields are grayed out because their settings are fixed and can not be changed.

- By default, most but not all of the metadata fields are set as not time code dependent.
- All the metadata fields have their Input Style set as Mixed Input which permits the use of both predefined and variable, user entered, values.

Avid Media Composer and Final Cut Pro support these settings because they are template defaults.

For more information, see Creating A Custom Template on page 53.

#### **Duplicating a Template** 2 3 4 FS-H20 Pro Portab DTE ettings User Apple X Femplate Name \_ Interchange F FCP Baseball Duplicate: ✓ Based on: FCP Example 💌 Add Delete Template Display Template: FCP Baseball 🗸 Sort Field Name Friendly Name TC Depend Predefined Values No Disable Scene Click to edit Mixed Input Edit Predefined Dis ble Shottake lich to edit No Mixed Input dit Pre Jefined I L 7 6 5

- 1. Enter the name of the new template in the **Template Name** field.
- 2. Place a check mark in the **Duplicate** check box.
- **3.** Select the template to duplicate from the **Based On** dropdown menu.
- 4. Click Add.
  - The new template appears with all of the metadata fields found in the parent template.
  - The new template's name appears in the **Display Template** dropdown menu.
- 5. Determine which fields are active in the template.

It is possible to **Disable/Enable** each of the metadata fields in the template by clicking on its Action button. The button label indicates the action available. If it is grayed-out it is inactive.

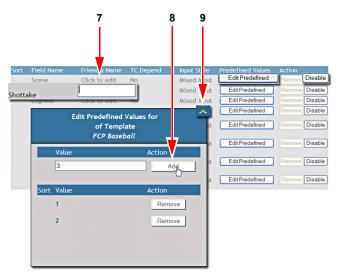
- 6. Define the metadata values for each metadata field. Click on the **Edit Predefined** button to view or edit the metadata values for specific metadata fields.
- **7.** (Optional) Replace the metadata item's Field Name with a more meaningful **Friendly Name**.

Click on **Click to Edit** in the Friendly Name column.

A text field appears where the User can enter a more meaningful label for the metadata Field Name.

Press the keyboard Enter key to save the new name.

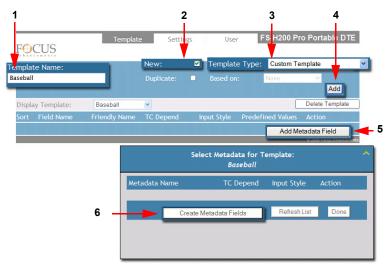
The Friendly Name replaces the Field Name on the Entry page. The Friendly Name does not change the Field Name in the FS-H200 Pro database.



The Edit Predefined Values dialog box appears.

- Add and Remove predefined values.
   Enter values, one at a time and click on Add.
   Add values in the order they are to appear.
- **9.** Click on **X** to close the **Edit Predefined** button.

The template is now ready for use.



## **Creating A Custom Template**

Create custom templates when importing metadata into a proprietary application that is not supported by the FS-H200 Pro.

Suppose that it is necessary to create a metadata template for recording baseball games, that is then used in a proprietary application. To assist the producer and editor, the metadata must be specific to the game of baseball.

To create a new custom template:

- **1.** Enter the name for the custom template, for example Baseball, in the **Template Name** field.
- 2. Change Template Type to Custom.
- **3.** Verify that **Display Template** is set to **None**.
- Click on Add to create the empty template. The name of the template appears in the Display Template field along with the template's column header.

#### Click on the Add Metadata Field button. The Select Metadata for Template dialog box appears. This box is empty.

6. Click on the Create Metadata Fields button.

A new window appears with a work space for creating metadata fields appears.

|     |          | Select M              | etadata for T<br>Baseball | emplate:                   | ×                         |       |                   |                   |
|-----|----------|-----------------------|---------------------------|----------------------------|---------------------------|-------|-------------------|-------------------|
|     | Metadata | Name                  | TC Depend                 | Input Style                | Action                    |       |                   |                   |
| 3 - |          | Create Metada         | ata Fields                | Refresh List               | Done                      |       |                   | 10                |
| 7   | -        | Field Name<br>Comment |                           | oends on Timeo<br>yes ⊻ no | code Input Si<br>Variable |       |                   | Submi             |
|     | Sort     | Field Name            | Dep                       | ends on Timeco             | de Input Style            | e F   | Predefined Values | Action            |
|     | 14       | Position              |                           | yes 🕴 no                   | Predefined                |       | Edit Predefined   | Remove            |
|     | 15       | Play                  |                           | yes 🚺 no                   | Mixed Mo                  | e 🖌 🚺 | Edit Preditined   | Remove            |
|     | 16       | Comment               |                           | yes 🖪 no                   | Variable                  | ×     | Edit Predefined   | Remove            |
|     | _        |                       |                           |                            |                           |       | © 2008 I          | Focus Enhancement |
|     |          |                       |                           | 8                          | 9                         |       | 11                |                   |

- 7. Enter a name for the metadata field.
- 8. Set time code dependence

yes - if metadata relates to time code.

no - if metadata is independent of time, i.e. notes, remarks, etc.

9. Set the Input Style, this is required.

This is the type of value input.

#### Variable

The user may enter any character string.

#### Predefined

This creates a dropdown list of predefined terms that the user selects from. After the field is submitted and appears in the list, it is necessary to add the predefined values: refer to **Step 15**.

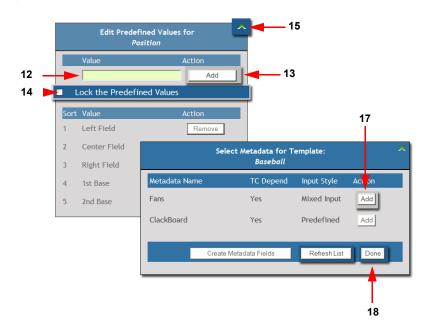
#### **Mixed Mode**

This is a combination of **Predefined** and **Variable** inputs. The User first selects a term from a dropdown list and then can enter more data as a text string in an open field.

After the field is submitted and appears in the list, it is necessary to add the predefined values: refer to **Step 15**.

- **10.** Click **Submit** to post the new fields to the list. The metadata field appears as a new item in the list below.
- **11.** Click on the **Edit Predefined** button for a metadata field to add **Predefined** or **Mixed** variables.

The Edit Predefined Values dialog box opens.



- **12.** Enter each value separately.
- 13. Click Add to place value in list.

Add the values in the order they should appear.

Click on the **Remove** button to delete a value.

- **14.** Click on **Lock the Predefined Values** box to prevent the User from adding other data to the list during metadata entry.
  - This restricts the list to only those values already entered.
  - Default is that the User can add other values to the list.
- **15.** Click on the **X** in the upper right corner to close the dialog box.
- **16.** Metadata fields appear in the list of fields from which to select.
- **17.** Click a field's **Add** button to place it on the template.

When a field is added to the template, it is removed from the list and, if a field is removed from the template, it reappears on the select list.

Clicking the Refresh button updates the list.

**18.** Click on **Done** to finalize adding the fields to the template. The fields now appear in the new template and the Select Metadata for Template dialog box closes.

#### 19. Close the still open Add Metadata Window.

The template is now ready for use.

## Importing FS-H200 Pro Templates

|                   | 3 2  |                         |
|-------------------|--|-------------------------|
| atus:             | Uppead successful. Click on Import           | Import <                |
| e:                | H:\Focus_Enhancements\Manuals\MANL-1128_FS-5 | se Upload 🚽             |
| port              |  |                         |
| Status:           | N/A  |                         |
| Export Template:  | None   | Export Template         |
| Export            |  |                         |
| Template Export/I | mport  |                         |
| 1                 | FCP Example V                                |                         |
| Reel Number       | Template Name                                |                         |
| Reel Matching     |  |                         |
| FOCUS             |  |                         |
|                   | Template Settings User F                     | S-H200 Pro Portable DTE |

This function is not available for PDA devices.

The FS-H200 Pro provides the ability to import templates created on other FS-H200 Pro units and stored on a local computer or network drive.

- **1.** Open the **Settings** page.
- **2.** Click on the **Browse** button in the Import section and locate the template to import.

A standard file system browser opens.

- Select the template file. The file must be a template exported from a FS-H200 Pro using the Template Export function. The file is identified by the .fst.xml at the end of the filename.
- **4.** Click the **Open** button in the file browser. The path and filename of the template appear in the **Browse** field.
- Click Upload button. A message appears below the Browse field, indicating if the upload was successful and, if so, to click on Import.
- **6.** Click on the **Import** button. A system message appears below the Browse field, indicating that the import was successful.

# **Removing Metadata Fields**



# Removing A Metadata Field Deletes All Data Stored In Field In All Records!

Use extreme caution when removing metadata fields.

This applies to metadata fields added by the User and accompanied by the Remove button.

# Export



## Export to NLE XML Document

There are three NLE export options:

• Final Cut Pro Export

Use this function to create metadata xml documents for FCP, using the Final Cut Pro XML Interchange Format.

Avid Media Composer

Use this function to prepare video and metadata for importing by Avid Media Composer.

Generic Export

This option creates a metadata xml document based on the Custom template created.

## **Exporting Metadata**

All three NLE export functions use the following steps.

## **Export By Track**



#### Final Cut Pro

This step is only necessary if **AUTO ORG** is set to **DISABLED** in the **SETUP** menu.

Use this method to export individual tracks (video clips) with metadata.

- **1.** Place a check mark in the box **Export by Track**.
- 2. Select the Track (clip) to export.
- 3. Click on Export.

The clip and its metadata document are placed in a directory on the FS-5 with the name of the template used.

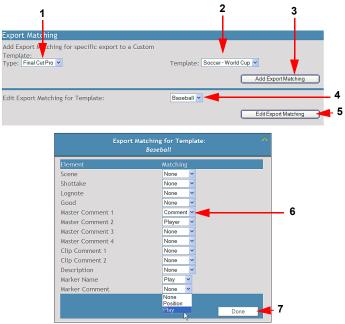
## Export All

Similar to **Export By Track**, except clicking **Export** processes all the waiting video clips.

## **Export Based on Template**

Use this method when a variety of metadata templates were used during the recording session. This option processes all video clips of a specific template type: Avid Media Composer, Final Cut Pro, Custom.

## **Export Matching**



Export matching allows the user to match similar metadata field content between Custom and NLE templates.

- **1.** Select the NLE **Template Type** to match the Custom template from the dropdown menu.
- 2. Select the Custom template from **Template** dropdown menu.
- **3.** Click **Add Export Matching** to create database pivot table of metadata fields. This creates lists from which matches can be made.
- **4.** Select the Custom template from the Edit Export Matching Template dropdown menu.
- 5. Click Edit Export Matching.

A dialog box opens with the NLE metadata fields listed. Beside each field is a dropdown menu with a list of the Custom template fields.

- **6.** Select those Custom fields that match to the NLE field. If there is no match, leave the field at **None**.
- 7. Click Done when all matches are made.

# **Exporting a Template**

| F⊕CUS                        | Template          | Open<br>Open in New Tab<br>Open in New Window<br>Save Target As<br>Print Target                        | FS-H200 Pro | Portable DTE    |
|------------------------------|-------------------|--|-------------|-----------------|
| Reel Matching<br>Reel Number |                   | Cut<br>Copy<br>Copy Shortcut<br>Paste  |             |                 |
| 0                            |                   | Add to Favorites   |             |                 |
| Template Export/Impo         | ort               | Convert link target to Adobe PDF<br>Convert link target to existing PDF<br>Search Using Copernic Agent |             |                 |
| Export Template:             | Baseball 💌        | Properties   |             | Export Template |
| Status:                      | Right Click and S | aveAs  |             |                 |
| Import                       |                   |  |             |                 |
| File:                        |                   | Brov   | vse         | Upload          |
| Status:                      | N/A               |  |             | Import          |

The FS-H200 Pro provides the capability of exporting a xml template to a drive in the input device, computer or PDA, or on the network.

It is first necessary to create the template and then run HDD to mount the FS-H200 Pro to the network. The process of running HDD outputs the template data from the FS-H200 Pro database as xml template files to the FS-H200 Pro directory.

To export the template from the FS-H200 Pro:

- **1.** Go to the **Settings** page.
- **2.** Select the template to export from the **Export Template** dropdown menu in the Template Export/import section.
- Click on the Export Template button.
   A link Right Click and Save ... As appears beneath the dropdown menu.
- Right-click on the link.A system file options menu appears.The menu provides the ability to view, print, and save the xml file.
- 5. Click on Save Target As ... . A system file browser appears.
- 6. Locate the destination for the template and Save.

The template now resides on a disk drive. A template exported from a FS-H200 Pro can be identified by last 8 characters of its filename: **.fst.xml**.

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# **General Menu Information**



Menu Title Appears at the top of the display and identifies its topic or function.

Use the Left or Right soft navigation buttons to move between the previous or next menu.

#### Scroll Wheel to move between the items in the menu. Pressing Select when an item is highlighted, displays its options.

Opposite the menu item is

## Welcome



# **OPERATION Menus**

| FS-H200 DTE TECHNOLOGY   |   |  |  |
|--|---|--|--|
| OPERATION  |   |  |  |
| MODE<br>CONTROL<br>REC MODE<br>REC FORMAT<br>DTE FORMAT<br>TIMECODE<br>PROXY GEN | REC/PLAY<br>NORMAL<br>NORMAL<br>HDV<br>QUICKTIME<br>EXT TC<br>AUTOMATIC |  |  |

The Operation menu provides access to settings that control various recording features, functions, and information:

| Item       | Default   | Options   |
|------------|-----------|---|
| MODE       | REC /PLAY | REC /PLAY<br>HDD  |
| CONTROL    | NORMAL    | NORMAL<br>EXTERNAL<br>SYNCRO  |
| REC MODE   | NORMAL    | NORMAL<br>RETRO CACHE<br>RETRO DISK   |
| REC FORMAT | HDV       | DV<br>HDV   |
| DTE FORMAT | M2T       | DV<br>RAW DV<br>AVI TYPE 1<br>AVI TYPE 2<br>CANOPUS AVI<br>MATROX AVI<br>QUICKTIME<br>MXF<br>HDV<br>M2T<br>QUICKTIME<br>MXF |
| TIMECODE   | EXT TC    | EXT TC<br>FREE RUN<br>REC RUN<br>REGEN  |
| PROXY GEN  | AUTOMATIC | OFF<br>AUTOMATIC  |

# PROXY GEN



This operation controls how video proxy files are created.

The Direct To Edit (DTE) format of the parent video clip determines the proxy file wrapper (AVI, MP4, QuickTime) of the proxy file.

#### • OFF

Disables the **PROXY GEN** function.

#### • AUTOMATIC (Default)

Automatically generates proxy files for all video clips during the recording session.



#### **Proxy Files**

Proxy files are significantly smaller than the native format video files size they are generated from and can be shared quickly via the internet or network. This provides directors, editors, and others fast access video rushes.

For more information about proxy file settings, see: **PLAY PREF** on page 74 and **PROXIES** on page 74.

# **SETUP Menus**



The items in the Setup menu are grouped by function. Within the function the items act like radio buttons, i.e. when one is active the others are not.

In some cases, such as the **Date**, a new display appears with parameters to set. To return from a parameters display, use the **BACK** function button.

The Setup menu items are:

| Item                   | Default   | Options / Comments  |
|------------------------|-----------|---|
| SET DATE AND TIME USIN | G NTP     |   |
| DATE                   | 07/24/03  |   |
| TIME                   | 12:01:00  |   |
| TIME ZONE              | UTC       | Select time for specific time zone by selecting geographical region and city. |
| NTP SOURCE             | Global    | Use this list to locate the NTP pool to sync for date and time info.          |
| DST ADJUST             | AUTOMATIC | AUTOMATIC<br>STANDARD<br>ALTERNATE  |
| LCD                    | ON        | ON<br>OFF<br>AUTO   |
| LCD BRIGHT             | 16        | 1 -16   |
| KEY BRIGHT             | 16        | 1 -16   |
| ALARM                  | ON        | ON<br>OFF   |

| Item           | Default     | Options / Comments   |
|----------------|-------------|--|
| STOP           | NO VIDEO    | FRAME (DV only)<br>GRAY (DV only)<br>NO VIDEO (DV and HDV)       |
| EXT CTL        | OFF         | OFF<br>PAUSE<br>FRAME<br>FILE                                    |
| TC SET         | 00:00:00:00 |  |
| UB SET         | 00:00:00:00 |  |
| TC MODE        | NON-DROP    | DROP<br>NON-DROP   |
| RETRO CACHE    | 5 seconds   |  |
| RETRO DISK     | 1 minute    |  |
| PLAY MODE      | PLAY CLIP   | PLAY CLIP<br>LOOP CLIP<br>PLAY ALL<br>LOOP ALL                   |
| PLAY FROM MODE | TRACK       | TRACK<br>REEL  |
| PLAY PREF      | ORIGINAL    | ORIGINAL<br>PROXY  |
| PROXIES        | SPEED       | SPEED<br>QUALITY   |
| UDF FS PERM    | READ-ONLY   | READ-ONLY<br>READ-WRITE  |
| REC START      | NORMAL      | NORMAL<br>FAST   |
| NETWORK        | DHCP        | MANUAL<br>DHCP   |
| IP ADDR        | 0.0.0.0     | When set to DHCP, 0.0.0.0.<br>When set to MANUAL, 192.168.10.25  |
| IP MASK        | 0.0.0.0     | When set to DHCP, 0.0.0.0.<br>When set to MANUAL, 255.255.255.0  |
| BROADCAST      | 0.0.0.0     | When set to DHCP, 0.0.0.0.<br>When set to MANUAL, 192.168.10.255 |
| GATEWAY        | 0.0.0.0     | When set to DHCP, 0.0.0.0.<br>When set to MANUAL, 192.168.10.1   |
| WIFI PRESETS   | FSH         | Saved WIFI settings.   |
| ESSID          | FSH         |  |

| Item       | Default     | Options / Comments                                    |
|------------|-------------|---|
| KEY        |             | WEP encryption code required by the wireless network. |
| CHANNELS   | UNSPECIFIED | UNSPECIFIED<br>List of WIFI channels 1 through 11.    |
| WIFI MODE  | MANAGED     | MANAGED<br>ADHOC PEER-TO-PEER (P2P)                   |
| FTP        | ENABLED     | DISABLED<br>ENABLED                                   |
| FTP PASS   | FS          |   |
| WEB        | ENABLED     | DISABLED<br>ENABLED                                   |
| AUTO ORG   | ENABLED     | DISABLED<br>ENABLED                                   |
| AUTO MARK  | DISABLED    | DISABLED<br>ENABLED                                   |
| REELS PREF | FOLDER      | FOLDER<br>TEMPLATE                                    |

## SET DATE AND TIME USING NTP



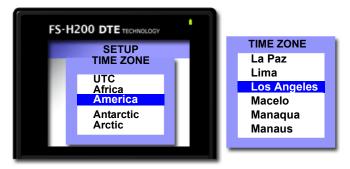
This function uses the Network Time Protocol (NTP) to synchronize the FS-H200 Pro system clock to an internet time server. Before running this function, it is necessary to first set:

- TIME ZONE on page 71
- NTP SOURCE on page 72

The FS-H200 Pro must be connected to the internet or an NTP enabled network for this function to work, see **FS-H200 Pro with Other Devices** on page 99.

Selecting the function **SET DATE AND TIME USING NTP** automatically initiates the process.

#### TIME ZONE



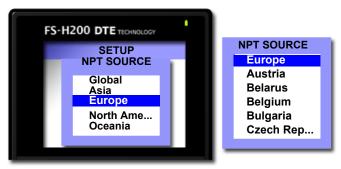
For FS-H200 Pro time features to accurately display local time, it is necessary to select the time zone where the FS-H200 Pro is to operate. This setting is necessary for the function, **SET DATE AND TIME USING NTP** on page 70 to accurately set the FS-H200 Pro clock.

In addition, DST ADJUST on page 73 depends on this setting.

Default is **UTC**, Universal Timecode.

- **1.** Select a **TIME ZONE** geographical region.
- 2. Press the **Right** soft button to advance to the **TIME ZONE** city list.
- **3.** Use the **Scroll Wheel** to locate a city located in the same time zone as the recording session.
- **4.** Press the **Select** key. The display returns to the **SETUP** menu.

# NTP SOURCE



For FS-H200 Pro time features to accurately display local time, it is necessary to select the NTP source that the function **SET DATE AND TIME USING NTP** employs to set the FS-H200 Pro clock.

Default is **Global**.

- 1. Select an NPT SOURCE continent/geographical region.
- 2. Press the **Right** soft button to advance to the country list.
- **3.** Use the **Scroll Wheel** to locate a nation located in the same time zone as the recording session.
- Press the Select key. The display returns to the SETUP menu.

### DST ADJUST



Use this function to set Daylight Savings Time (DST) for the locale where the FS-H200 Pro is operating. There are three setting:

#### AUTOMATIC Default

The FS-H200 Pro adjusts to daylight savings time changes.

TIME ZONE must be set to location of operation.

#### STANDARD

Locks the FS-H200 Pro to Daylight Standard Time for the location identified in TIME ZONE.

#### • ALTERNATE

Locks the FS-H200 Pro to Daylight Savings Time for the location identified in TIME ZONE.

# <u>i Note</u>

#### Using STANDARD or ALTERNATE

STANDARD and ALTERNATE are useful during a transition between daylight standard and daylight savings times. Using either setting for the day of the transiting, eliminates the time-jump effects when the transition occurs. The effects of time-jump include the assignment of file names, and the creation/modification times in the FAT32 file system.

This function requires setting **SET DATE AND TIME USING NTP** on page 70.

# PLAY PREF



This setting determines which version of the selected video clip plays back:

- Original Default
- Proxy

### PROXIES



This setting determines the type of proxy file to be created:

#### SPEED Default

This proxy has a lower resolution and smallest file size.

#### • QUALITY

This proxy is higher resolution and largest proxy file size.

## **REC START**



The Record Start function provides two modes when using HDV cameras with tape and operating in **EXTERNAL** control mode.

#### • Normal (Default)

Use in normal conditions. There is a brief delay between record trigger and actual beginning of recording. This ensures an error free recording at the beginning of a clip.

#### • Fast

This mode begins FS-H200 Pro recordings as quickly as possible after the record trigger has been pressed. It is possible that the first 1-2 frames may have some corruption, but the clip is usable in the NLE.



#### When Shooting Without Tape, Use FAST Mode

When shooting without tape in the camera, it is recommended that the FAST setting be used as frame corruption does not occur when tape is not used.

## NETWORK



Select the method to use to assign a network IP address to the FS-H200 Pro.

• MANUAL

The first time that the FS-H200 Pro is turned on, it is necessary to manually enter its default fixed (static) settings. After that, when MANUAL is selected, the FS-H200 Pro automatically fills in the default values for:

IP ADDR: 192.168.10.25 IP MASK: 255.255.255.0 BROADCAST: 192.168.10.255 GATEWAY: 192.168.10.1 ESSID: FSH

• DHCP Default

Select, if IP address is automatically assigned by the network DHCP server.

# IP ADDR



When set to DHCP, the address is 0.0.0.0. Manual default is 192.168.10.25.

## **IP MASK**



When set to DHCP, the address is 0.0.0.0. Manual default is 255.255.255.0.

## BROADCAST



When set to DHCP, the address is 0.0.0.0. Manual default is 192.168.10.255.

## GATEWAY



When set to DHCP, the address is 0.0.0.0. Manual default is 192.168.10.1.

## WIFI PRESETS



**WIFI PRESETS** saves the WIFI configuration for a particular network as a collection of settings that can be re-installed at any time.

The settings saved are:

- ESSID
- PASSWORD
- WIFI MODE
- NETWORK (DHCP/MANUAL)
- IP ADDRESS
- IP MASK
- BROADCAST
- GATEWAY

Default is **FSH**.

# ESSID



Set the **ESSID** (Extended Service Set Identifier) depending on how it is used:

- **Peer-to-Peer** connections, where the ESSID must be the same for all members of the network.
- **Infrastructure** -- network -- where the ESSID distinguishes one wireless network from another. It is a unique name that identifies a wireless network, specifically, the wireless access point.

Setting an ESSID has three steps.

- 1. Selecting the wireless network. Default is **FS5**.
- **2.** Setting the **ESSID**. Default is **FSH**.
- **3.** Return to the **SETUP** menu.

#### Setting a ESSID

This step requires that a wireless USB network adapter be mounted in the FS-H200 Pro's USB port.

- **1.** Select **ESSID** from the **SETUP** menu.
- **2.** Select the **F3/SCAN** function button to scan for wireless networks.

A list of WIFI networks appears.

- **3.** Use the **Scroll Wheel** to pick a network.
- **4.** Press the **F2-EDIT** function button to display the ESSID entry field.

The ESSID can contain upper and lower case alphabet characters, some special characters, spaces, and numerals.

- **5.** Use the **Right** and **Left** soft buttons to go between the characters.
- 6. Use the Scroll Wheel to dial in the desired character.
- Press F1 to insert a space.
   Press F4 to delete a character or space.
- 8. Press the Select button to save the ESSID and return to the SETUP menu.

#### KEY



The **KEY** is a code sequence required by the wireless network.

This can only be WEP encryption.

Default is blank.

# CHANNEL



When in ADHOC (Peer-to-Peer) mode, it may be necessary to change channels to eliminate slow performance caused by interference from nearby WIFI devices that are not part of the ADHOC network. This is because some WIFI channels overlap.

To correct this situation:

- **1.** Select a channel from the list, **1** through **11**.
- 2. Set the devices on the ADHOC network to the chosen channel.
- **3.** Test to verify that performance improves. If performance does not improve, try another channel.

There are 12 options.

• UNSPECIFIED (Default)

This allows the FS-H200 to select an active WIFI channel.

• Channels 1 through 11

User can select a specific 802.11b/g WIFI channel. For more information, see WIFI MODE on page 138.

Default is **UNSPECIFIED**.

#### WIFI MODE



This function sets the type of wireless connection that the FS-H200 uses.

• MANAGED

Managed mode is used when making a wireless connection to a structured LAN where central access points are used and devices are managed through the network.

#### • ADHOC or Peer-To-Peer (P2P)

ADHOC mode is a method for connecting wireless devices directly to each other. Successful implementation of ADHOC mode requires that:

- All wireless adapters must be configured for ADHOC mode.
- All ADHOC wireless adapters must use the same **ESSID** and channel number.
- Only a small number of devices, within close range, can be in the ADHOC network. As number of devices and range increase, performance falls.
- All wireless devices within range must be able to discover and communicate in peer-to-peer fashion without employing central access points. This includes broadband wireless routers that use central access points.
- ADHOC networks cannot bridge to wired LANs or to the Internet without installing a special gateway.

## <u>i Note</u>

ADHOC Networking May Require Use of Specific Channels For more information, see CHANNEL on page 82.

Default is **MANAGED**.

### FTP



This function enables only the FS-H200 Pro's FTP Read capabilities. FTP can not be used to write to the FS-H200 Pro.



Do Not Use FTP and the FS-H200 Pro Web Server Simultaneously.

Default FTP password is **FS**.

To change the FTP password, see below.

Default is **ENABLED**.

## FTP PASS



This function sets the FTP password.

Default is **FS**.

#### WEB



This function must be enabled to use the FS-H200 Pro's web capabilities: allowing the User to access FS-H200 Pro features through the FS-H200 Pro's web server and metadata pages.

Default is **DISABLED**.

# AUTO ORG



This function enables the FS-H200 Pro's function to automatically organize structured files by moving clips and related files from the current clips folder to assigned reels. This must be done before the FS-H200 Pro is mounted on a computer or the files are imported into NLEs.

In addition, when enabled, **AUTO ORG** automatically creates xml metadata files when HDD is run.

Default, **ENABLED**, allows the FS-H200 Pro to recognize the files requiring organizing and then automatically prompts the videographer to organize these files when powering down the FS-H200 Pro or mounting it to a computer.

# AUTO MARK



When **AUTO MARK** is enabled, the FS-H200 Pro continues to mark future clips to the same **REEL** that was previously selected.

Default is **DISABLED** and the User must assign each clip to a folder manually.

## **REELS PREF**



Use this function to select the method that a folder is identified:

FOLDER

This option uses Reel numbers to name the folders: **R-0**, **R-1**, **R-2**, and so on, up to **R-9**.

#### TEMPLATE

This option provides the ability to give folders unique names based on xml templates stored in the FS-H200 Pro database.

Setting one of the Function buttons, **F1**, **F2**, **F3**, **F4**, to the **REEL** option displays the folder or template designation, in the **Home** menu display, see **Functions List** on page 87.

Default is **FOLDER**.

# **FUNCTIONS Menus**

### **Functions List**

A list of the Function button menu is below. In each group, the default is identified.

| MENU        | Appears on LCD as…   |
|-------------|--|
| F1 SYNC     | SYNC Toggles between SYNCRO and LOCAL record control.            |
| F1 EXTERNAL | EXT (Toggles between external TRIGGER and LOCAL control) Default |
| LCD SET     | Sets the LCD display to A = AUTO, 1 = ON, 0 = OFF.               |
| PROXY       | Displays MAKE PROXY menu.  |
| F1 REELS    | REEL Increments current reel number.                             |
| F1 R0-0     | R0 Marks Current Clip to Reel 0.                                 |
| F1 R1-1     | R1 Marks Current Clip to Reel 1.                                 |
| F1 R2-2     | R2 Marks Current Clip to Reel 2.                                 |
| F1 R3-3     | R3 Marks Current Clip to Reel 3.                                 |
| F1 R4-4     | R4 Marks Current Clip to Reel 4.                                 |
| F1 R5-5     | R5 Marks Current Clip to Reel 5.                                 |
| F1 R6-6     | R6 Marks Current Clip to Reel 6.                                 |
| F1 R7-7     | R7 Marks Current Clip to Reel 7.                                 |
| F1 R8-8     | R8 Marks Current Clip to Reel 8.                                 |
| F1 R9-9     | R9 Marks Current Clip to Reel 9.                                 |
| F1 BLANK    | No Function.   |

| MENU     | Appears on LCD as                                       |
|----------|---|
| F2 DISP  | DISP (Toggles the different TC display modes) Default   |
| F2 ALARM | ALARM/MUTE Turns the FS-H200 Pro alarm on or off.       |
| F2 FILE  | FILE (Toggles display between normal and the file name. |
| F2 REELS | REEL Increments current reel number.                    |

| MENU     | Appears on LCD as                    |
|----------|--------------------------------------|
| F2 R0-0  | REEL Increments current reel number. |
| F2 R1-1  | R0 Marks Current Clip to Reel 0.     |
| F2 R2-2  | R1 Marks Current Clip to Reel 1.     |
| F2 R3-3  | R2 Marks Current Clip to Reel 2.     |
| F2 R4-4  | R3 Marks Current Clip to Reel 3.     |
| F2 R5-5  | R4 Marks Current Clip to Reel 4.     |
| F2 R6-6  | R5 Marks Current Clip to Reel 5.     |
| F2 R7-7  | R6 Marks Current Clip to Reel 6.     |
| F2 R8-8  | R7 Marks Current Clip to Reel 7.     |
| F2 R9-9  | R8 Marks Current Clip to Reel 8.     |
| F2 BLANK | No Function.                         |

| MENU     | Appears on LCD as   |
|----------|---|
| F3 LOCK  | LOCK/UNLK Locks the buttonpad Toggles between locked and<br>unlocked.   |
| F3 DV/DD | HDD MODE Runs HDD Bypass and mounts FS-H200 Pro on to a<br>computer, see OPERATION Menus on page 65. <b>Default</b> |
| F3 REELS | REEL Increments current reel number,  |
| F3 R0-0  | R0 Marks Current Clip to Reel 0.  |
| F3 R1-1  | R1 Marks Current Clip to Reel 1.  |
| F3 R2-2  | R2 Marks Current Clip to Reel 2.  |
| F3R3-3   | R3 Marks Current Clip to Reel 3.  |
| F3 R4-4  | R4 Marks Current Clip to Reel 4.  |
| F3 R5-5  | R5 Marks Current Clip to Reel 5.  |
| F3 R6-6  | R6 Marks Current Clip to Reel 6.  |
| F3 R7-7  | R7 Marks Current Clip to Reel 7.  |
| F3 R8-8  | R8 Marks Current Clip to Reel 8.  |
| F3 R9-9  | R9 Marks Current Clip to Reel 9.  |
| F3 BLANK | No Function.  |

| MENU     | Appears on LCD as  |
|----------|--|
| F4 LOCK  | LOCK/UNLK Locks the buttonpad Toggles between locked and unlocked.   |
| F4 CF    | CF runs the COMPACT FLASH utility to allow safely removing CF cards from the FS-H200 Pro, see COMPACT FLASH on page 97. <b>Default</b> |
| F4 REELS | REEL Increments current reel number.   |
| F4 R0-0  | R0 Marks Current Clip to Reel 0.   |
| F4 R1-1  | R1 Marks Current Clip to Reel 1.   |
| F4 R2-2  | R2 Marks Current Clip to Reel 2.   |
| F4 R3-3  | R3 Marks Current Clip to Reel 3.   |
| F4 R4-4  | R4 Marks Current Clip to Reel 4.   |
| F4 R5-5  | R5 Marks Current Clip to Reel 5.   |
| F4 R6-6  | R6 Marks Current Clip to Reel 6.   |
| F4 R7-7  | R7 Marks Current Clip to Reel 7.   |
| F4 R8-8  | R8 Marks Current Clip to Reel 8.   |
| F4 R9-9  | R9 Marks Current Clip to Reel 9.   |
| F4 BLANK | No Function.   |

For information about how to assign clips to reels, see **Assigning Clips to Reels**, in the **Functions** chapter of the user guide.

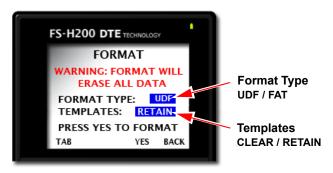
# **UTILITIES Menus**



| Item          | Default        | Comment   |
|---------------|----------------|---|
| FORMAT        | UDF            | Backup data before using.<br>No Undo.                                   |
| REPAIR DISK   | Not Applicable | Use to repair the file structure of hard drive.                         |
| REPAIR CLIP   | Not Applicable | Use to repair the end of a damaged video clip.                          |
| MAKE PROXY    | Not Applicable | Creates proxy file for selected video clip.                             |
| FILE NAME     | Not Applicable | Displays the base file name assigned to the video clip.                 |
| ORGANIZE REEL | Not Applicable | Places all Assigned To Reels video clips into proper folders.           |
| ORGANIZE MXF  | Not Applicable | Moves MXF files into the Avid Media Files directory.                    |
| UPGRADE       | Not Applicable | Upgrades the FS-H200 Pro software.                                      |
| DELETE CLIP   | Not Applicable | Deletes and removes selected clip from unit. <b>No Undo</b> .           |
| SYSTEM RESET  | Not Applicable | Resets unit to factory defaults.  |
| DIAGNOSTIC    | Not Applicable | Use to assist Focus Technical<br>Support in diagnosing issues.          |
| STATUS        | Not Applicable | Provides details of power state<br>and internal temperature of<br>unit. |

| ltem            | Default        | Comment   |
|-----------------|----------------|---|
| VERSION         | 1.0.0.09112309 | Displays the current software version for the unit.   |
| CALIBRATE CLOCK | Not Applicable | Tunes the FS-H200 Pro clock's<br>crystal. Important when<br>synchronizing multiple<br>FS-H200 Pros. |
| COMPACT FLASH   | Not Applicable | Use to safely remove and insert<br>CF cards from the FS-H200<br>Pro.                                |

## FORMAT



Prevent lost frames due to file fragmentation by formatting the FS-H200 Pro before each recording session.



#### Save Files Before Formatting with Clear Option

Before formatting, backup all files and clips from the FS-H200 Pro to a computer. The formatting process erases all data on the disk and is not reversible. To preserve the metadata templates during formatting, set the **TEMPLATES** option to RETAIN.

#### **Troubleshooting Tip - Missing Templates Thumbnails**

If while working on the **Entry**, **Review**, or **Template** pages, and the thumbnails or metadata templates are missing it is necessary to run **FORMAT**.

Be certain that the TEMPLATES option is set to CLEAR.

To format the FS-H200 Pro disc:

- 1. From the UTILITIES menu, select FORMAT.
- Select the type of formatting: UDF or FAT. The format type is shown in the blue field: FAT is default. Use the Scroll Wheel to change the format type.
- **3.** Press **F1/TAB** to move between the options Format Type and Templates.
- **4.** Select to keep or delete non-default templates: **RETAIN** or **CLEAR**. Use the **Scroll Wheel** to change template selection.

**5.** Select **YES** to begin formatting.

A status screen displays progress of the formatting and at successful completion the display returns to the Utilities menu. The FS-H200 Pro issues an error message if format does not complete successfully.

6. After formatting, the FS-H200 Pro reboots automatically.

To return to the Utilities menu without doing a format, press the **F4/BACK** key.

## MAKE PROXY



Use this utility to create proxy files from selected original DTE formatted video clips.

- 1. From the Utilities menu, go to MAKE POXY.
- 2. Enter the video clip number using the Scroll Wheel.
- Press the F3/YES to start generating the proxy file.
   A progress screen displays while the file is created. When it is done the COMPLETE message appears.
- 4. Press the F4/BACK, to return to the main Utilities menu.

## ORGANIZE MXF



When using MXF files with some NLEs, such as AVID Media Composer, it is necessary to run ORGANIZE MXF before importing the clips.



After recording MXF clips, run ORGANIZE MXF before mounting FS-H200 Pro to computer.

This utility:

- 1. Moves all MXF video files into the /contents/video directory.
- 2. Moves all MXF audio files into the /contents/audio directory.
- 3. Updates and moves the xml files from the log directory into the / contents/clip directory.

# Note

#### Metadata Embedded In Avid MXF File Wrapper

Using the FS-H200 Pro's web server function AVID MEDIA COMPOSER EXPORT, the metadata is incorporated into the Avid MXF wrapper and not maintained as a separate xml document.

See Avid Media Composer on page 40.

# CALIBRATE CLOCK



Use this utility if precise synchronization of multiple FS-H200 Pros is required, see **Synchronizing Clocks on Multiple FS-H200 Pros** on page 102.

This utility calibrates the FS-H200 Pro's internal clock. It requires access to a NPT network or internet time server.



#### **Calibrate Clock Takes 10 Hours**

The FS-H200 Pro can not be used while this utility is running. Plan to calibrate the clock at a time when the FS-H200 Pro is not

needed.

### **COMPACT FLASH**



Use this utility to replace CF cards during a recording session. For more information, see **Compact Flash Card (CF)** on page 7.



#### Use This Utility Whenever Removing/Inserting A CF Card

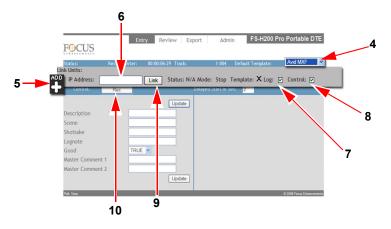
To protect video clips from damage, it is necessary to run the COMPACT FLASH utility every time a CF card is removed from the FS-H200.

If the F4 function key is set to CF, pressing F4 runs this utility.

This chapter contains information about FS-H200 Pro as it applies to operations with other devices. This chapter contains:

| Controlling Multiple FS-H200 Pros At Once     | 100 |
|---|-----|
| Synchronizing Clocks on Multiple FS-H200 Pros | 102 |

# Controlling Multiple FS-H200 Pros At Once



The FS-H200 Pro provides the ability to simultaneously control the **Record** and **Stop** functions of multiple FS-H200 Pros located on the same network.

For precise control and logging of metadata, it is necessary that the FS-CF Pro units have their clocks synchronized, see synchronizing **Synchronizing Clocks on Multiple FS-H200 Pros** on page 102.

Begin by linking the host FS-H200 Pro to the client units:

- **1.** Begin by mounting at least two FS-H200 Pro units on a network.
- 2. Select one of the FS-H200 Pros to be the host.
- **3.** Log on to the host and go to its **Entry** page.
- **4.** Select the metadata template to use from the **Default Template** dropdown list.
- **5.** Click the **ADD** button.

The **Link Units** works pace expands to show the link parameters for the first client FS-H200 Pro.

Notice that the **Template** option is permanently check-marked. Any time the host FS-H200 Pro links to another unit, it transfers the currently selected template to the client, regardless if the other link options are selected or not.

For information about **Template** and **Log** functions, see **Logging Metadata to Multiple FS-H200 2.0 Pros** on page 38.

- 6. Enter the IP address for the client FS-H200 Pro.
- 7. Check-mark Log if the host unit is to log metadata on the client unit. Then any metadata entered on the host appears on the client too.

- Check-mark Control. The host unit can control the Record and Pause operations on the client unit.
- **9.** Click **Link** to connect to the client unit. The Status and Mode messages change indicating that the connection is made.
- **10.** Repeat steps 5 through 9 for each client unit. The linked FS-H200 Pros are now ready.

Enter metadata as described in the FS-H200 User Guide.

**11.** Click on the **Record** button on the **Entry** page to start recording on multiple units.

# Synchronizing Clocks on Multiple FS-H200 Pros

It is possible to synchronize multiple FS-H200 Pros' system clocks by running **SET DATE AND TIME USING NTP** on each unit within a few minutes of each other. Then all the FS-H200 Pros will have similar time code stamps.

This feature is useful when using a host FS-H200 Pro to control client FS-H200 Pros during a recording session, see **Controlling Multiple FS-H200 Pros At Once** on page 100.

Before synchronizing, verify that all the FS-H200 Pros have the same setting for:

TIME ZONE on page 71, NTP SOURCE on page 72, DST ADJUST on page 73,

Once calibrated, the FS-H200 Pros stay synchronized through power cycling, although, over a period of days their time code stamps will slowly drift apart.

To determine that the clocks are synchronized, observe the blinking light on the FS-H200 Pro's **Select** button. All of the FS-H200 Pros' **Select** buttons blink in unison. In addition, go to the FS-H200 Pros' **SETUP** menus and compare the times in the **TIME** row. They will be the same.

## **Greater Accuracy**

For greater accuracy and a longer synchronization period, run the **Utility** > **CALIBRATE CLOCK** simultaneously on all FS-H200 Pros in the set.

This takes about 10 hours to complete and the FS-H200 Pros are not available for use until calibration completes.

## **Calibration Schedule**

New units should be calibrated as required to maintain synchronization within a set of FS-H200 Pros. However, after about a year, calibration should not be necessary more than once a year.

This section provides information specific to FS-H200 Pro features as they relate to non-linear editors.

| In this se | ection: |
|------------|---------|
|------------|---------|

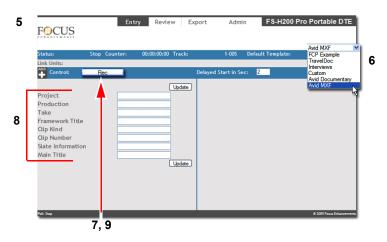
| Avid Media Composer                    | 104 |
|--|-----|
| Logging Avid Metadata During Recording | 104 |
| Importing Video and Metadata Into Avid | 90  |

The FS-H200 Pro supports Avid Media Composer and Final Cut Pro metadata capabilities.

This section use logging Avid MXF metadata as an example because the MXF wrapper file requires an extra step, running the utility **ORGANIZE MXF**, that non MXF files do not.

# Avid Media Composer

## Logging Avid Metadata During Recording



To log Avid metadata during a recording:

- **1.** Open the FS-H200 Pro's web server using the standard connection method.
- 2. Navigate to the Admin > Template page.
- **3.** Select **Avid MXF** Format from the **Template Type** menu.

A set of Avid MXF metadata values appears.

Currently, only the first three values (**Project**, **Production**, and **Take (number only)**) can be viewed in the Avid bin. However, all fields are populated in the Avid MXF file.

- **4.** Setup the metadata using the standard procedure described in the FS-H200 User Guide.
- 5. Navigate to the Entry page.
- 6. Select the Avid MXF template from the **Default Template** menu.
- Begin recording by pressing the Record button on the Entry page. The Record button switches to the Stop button.
- **8.** Log metadata, using the standard procedure described in the FS-H200 User Guide.
- 9. Click on the **Stop** button to cease recording.

**10.** Once recording is done, navigate to the **Utilities** menu.



**11.** Select **ORGANIZE MXF**.

This is necessary to create the MXF directory structure. Later, the metadata is incorporated into the MXF by selecting an NLE specific export procedure, see **Export** on page 40.



#### Disable AUTO ORG Before Recording MXF

After recording MXF clips, run ORGANIZE MXF before mounting FS-H200  $\mbox{Pro}$  to computer.

FS-H200 Pro User Guide Addendum 106



FS-H200 Pro User Guide Addendum MANL-1167-03