



## **TECH NOTE**

***Super Edit™ Ver 7.1G / 8.5A / 1.1A***

# **AFV (Audio Follow Video) Mixer Interface Protocol**

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## **Introduction**

This document covers Super Edit features and parameters pertaining to use of the “Audio Follow Video Interface” (AFV). This unit allows Super Edit ESAM II protocol to control several MIDI interface audio mixers.

## **AFV Interface capabilities.**

The AFV Interface allows the selection of, and transition between any of 4 sources. The interface supports Mono (1 channel), Stereo (2 channels) or Quad (4 channels) per source. The audio mixers that are supported are listed in the configuration instructions below.

## **AFV Interface Setup.**

An internal DIP switch selects which of the supported mixers you are using.

| <u>Sw1</u> | <u>Sw2</u> | <u>Sw3</u> | <u>Sw4</u> | <u>Model</u>              |
|------------|------------|------------|------------|---------------------------|
| OFF        | OFF        | OFF        | OFF        | <b>Yamaha 02R</b>         |
| ON         | OFF        | OFF        | OFF        | <b>Yamaha 01V/03D</b>     |
| ON         | OFF        | OFF        | OFF        | <b>Roland VM-C7100</b>    |
| OFF        | ON         | OFF        | OFF        | <b>Panasonic DA7</b>      |
| ON         | ON         | OFF        | OFF        | <b>Tascam TM-D800</b>     |
| OFF        | OFF        | ON         | OFF        | <b>Mackie D8B</b>         |
| ON         | OFF        | ON         | OFF        | <b>Spirit Digital 328</b> |

This internal DIP switch also selects which channels configuration (operational mode) you are using:

| <u>Sw7</u> | <u>Sw8</u> | <u>Operational Mode</u> |
|------------|------------|-------------------------|
| OFF        | ON         | <b>Mono</b>             |
| ON         | OFF        | <b>Stereo</b>           |
| OFF        | ON         | <b>Quad</b>             |
| ON         | ON         | <b>Undefined</b>        |

## Interface and Mixer Interconnection.

A standard 9-pin RS-422 control cable should be used to connect Super Edit's Audio Control (AUDIO CTRL) port to the AFV "**From Editor**" connector. A standard MIDI control cable should be used to connect the AFV "**MIDI OUT**" connector to the audio mixer "**MIDI IN**" connector.

**Composite Video** or **Black Burst** should be connected to the "**Video Sync In**" connector. This connector appears to be un-terminated.

Please be sure that the external power supply ("brick") is plugged in and the unit's power switch is ON (pressed in).

## Mixer Setup.

The mixer must be set up to receive MIDI commands. Select a MIDI setup page, and turn **MIDI receive ON**. You need to set the **MIDI channel to Channel 1**. If there is a communications speed, that should be set to the speed used by Super Edit, normally 38.4Kbaud, 8 bits, 1 stop bit and odd parity. Below are some specific notes from the AFV instructions:

### Panasonic DA7:

- Select the MIDI Setup screen
- Set Gen. Rx to MIDI
- Ctrl Chg Rx ON
- System Ex Rx ON.

NOTE: From the factory the internal DIP switches are set for Stereo Mode. If you intend to use the mixer in this mode, there is no need to open the unit and change the DIP switch settings.

### Yamaha 02R:

- Select MIDI setup screen.
- Set Receive channel to 1.
- Enable Parameter Change.

(See page 159 of 02R owner's manual for more information).

### Yamaha 01V:

- Select MIDI setup screen.
- Under receive (Rx) set Control Change to ON.
- Param. Change to OFF.
- Confirm also that the PORT is set to MIDI.

### Yamaha 03D:

- Select MIDI setup screen.
- Under receive (Rx) set Control Change to ON.
- Param. Change to OFF.
- Select Utility Screen.
- Under Host Interface, Select STANDARD I/F
- Under General Setup, set Rx port to CH1, MIDI.

### **Tascam TMD-8000**

Select the Automation Screen.  
Select the Communications Speed setting to MIDI.  
Select the MIDI Screen, set receive channels to 1.

### **Mackie DM8**

NOTE: Must have version v2.01 or later to operate with AFV.  
Open the "Channel List" (control B)  
On all input channels needed to be controlled by AFV, set:

Ch. = Ch. 1  
Mode = In  
MIDI = On

Any other control parameters should be left in their default setting.  
Go to FILE menu and select Save Session. If you don't save, you will need to Edit the channel list each time.

### **Roland VM-C7100:**

This mixer was not available at time of printing. Editware will update this Tech Note as information becomes available.

### **Spirit Digital 328:**

Press MENU button (lower right of display)  
Scroll down with Param to until "Automation Setup" is flashing. Press Enter.  
If the display indicates "MIDI Dynauto:OFF", turn Param to set to ON. Press EXIT.  
Mic/Line channels 1 through 16 will be controlled.

## **SuperEdit ESAMII Interface.**

It is important that Super Edit be built with the "**ESAM2N**" interface. This interface is casually called the "2 channel ESAM" interface since it derives from the 2 channel ESAM II mixers and uses certain commands that were changed for later 4 channel mixers.

As mentioned above, the AFV interface can be set for 1 channel (mono), 2 channels (stereo) or 4 channels (quad). However, due to the implementation of the transition command inside the AFV interface, transitions are triggered by either the A1 or A2 channel bits being set. In addition, it is not possible to breakaway (split) any audio channel from any other. All transitions affect all channels.

For example, assume a AFV quad setup. An audio 1,2,3,4 dissolve will work correctly. An audio 1,2 dissolve will still dissolve all 4 channels (no breakaway). An audio 1,3 will work, dissolving all 4 channels. An audio 3,4 will NOT work, since the transition command does not see nor honor the audio 3 or 4 bits.

Breakaway audio recordings can still be made, as long as either A1 or A2 are involved so the transition is executed. The recorder VTR will properly insert-edit the requested channels if it can. However, the monitored audio may not be as expected.

## **Limitations of the Interface**

Regardless of the mode selected (mono, stereo, or quad), a maximum of 4 sources (virtual machines) are supported. Therefore, there is a limit of three Super Edit sources plus a record VTR whose audio can be controlled using this interface. If pre-read operation is not needed then 4 Super Edit audio sources can be controlled.

No preview monitoring is available using the audio mixed through this interface. Audio preview monitoring should be accomplished either by E-E preview configuration, or the use of an external preview switcher such as a GVG Performer or Leitch 12x1.

Pre-read is supported as noted above.