

FSN Series

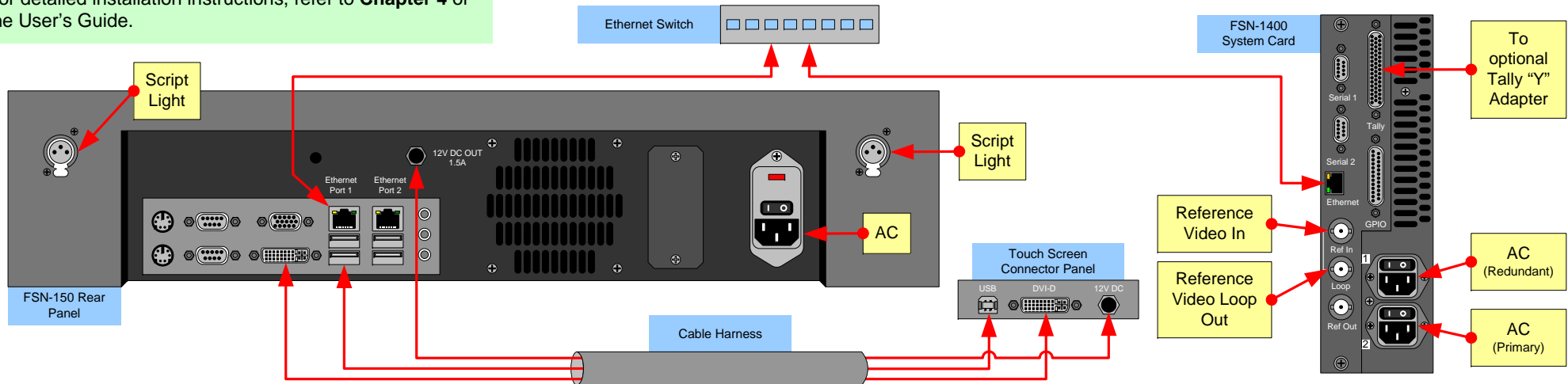
Quick Start Guide

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FSN Series Installation: System Connections

For detailed installation instructions, refer to **Chapter 4** of the User's Guide.



System Setup



System setup is comprised of 18 sequences, each of which includes many steps.

For error-free setup, always refer to the associated section in **Chapter 6** of the User's Guide.

The circled sequence numbers are identical.

1

Power Up and Status Check — Power up the FSN-1400, control panel, all monitors and peripherals. In the **System Menu** tables, ensure that all devices are connected, and all cards are recognized.

2

Return to Factory Default — For a new event, back up your system if desired, then on the **Reset Menu**, perform a complete factory reset. For a continuing (or multi-day) event, this step is not required.

3

Touch Screen Calibration — (Optional) On the **Diagnostics Menu**, calibrate the Touch Screen. If calibration is off, simultaneously press **FINE ADJUST** and **ENTER** on the Keypad to start the procedure.

4

Communications Setup — On the **Communications Setup Menu**, check the table to ensure that all devices are connected. If not, press **{Discover FSN-1400}** and connect to the desired frame, or re-check connections.

5

Restoring the System — (Optional) Insert a USB drive with a previous backup file into the **USB Port**. On the **Backup and Restore Menu**, press **{Restore System}** and follow the prompts. No further setup operations are required.

6

Reference and Output Setup — On the **Reference and Output Setup Menu**, select the desired video reference input, output video format and output V-lock mode.

7

Output Test Patterns — (Optional) On the **Output Test Patterns Menu**, select and display test patterns on one or more outputs, to assist with external device setup. Press **{All Off}** when you are finished.

8

Clean Feed Setup — On the **Clean Feed Setup Menu**, select the clean feeds for the M/E 1, M/E 2 and PGM clean outputs. Press **{Assign Button}** and select the desired point for the **ASSIGN** button (in the Aux section).

9

Native Input Setup — On the **Input Menu**, select a NIC input, then map and name it. Press **{Setup}**. Set up color correction, sync, and mask (if required). When complete, save settings, and repeat for all NIC inputs.

10

Universal Input Setup — On the **Input Menu**, select a UIC input, then map and name it. Press **{Setup}**. Set up all parameters on the three setup tabs. When complete, save settings, and repeat for all UIC inputs.

11

External DSK Setup — (Optional) On the **External DSK Setup Menu**, select the **DSK Fill BNC**, and set color correction parameters if desired. Save the settings. The **DSK Cut** input can not be adjusted.

12

Button Mapping — On the **Map Buttons Menu**, map inputs, test patterns and color backgrounds to the panel. If required, map linear key cut and fill signals. Use **{SHIFT}** to access shifted buttons.

13

Aux Setup — (Optional) On the **Aux Setup Menu**, set up all standard and optional Aux outputs, including all installed NACs and UOCs. You can map and name Aux outputs, and set the output resolution for all UOC outputs.

14

Multiviewer Setup — (Optional) Ensure that the optional Multiviewer is installed in slot 11. On the **Multiviewer Setup Menu**, select the output format and layout, assign sources to PIPs, select all colors and UMD (Under Monitor Display) text.

15

Tally Setup — (Optional) On the **Tally Setup Menu**, select a tally (1-24), then press **{Select Input}** to assign an input. Select a reference color, switcher outputs, and set tally closures. Repeat for all desired inputs.

16

User Preference Setup — (Optional) On the **User Preferences Menu**, set the desired preferences for the bus and transition displays, the touch screen and the control panel.

17

Saving the Setup — On the **System Menu**, press **{Save All}** to save all system parameters to non-volatile memory, including input and output setups, button mappings, tallies, user preferences and more.

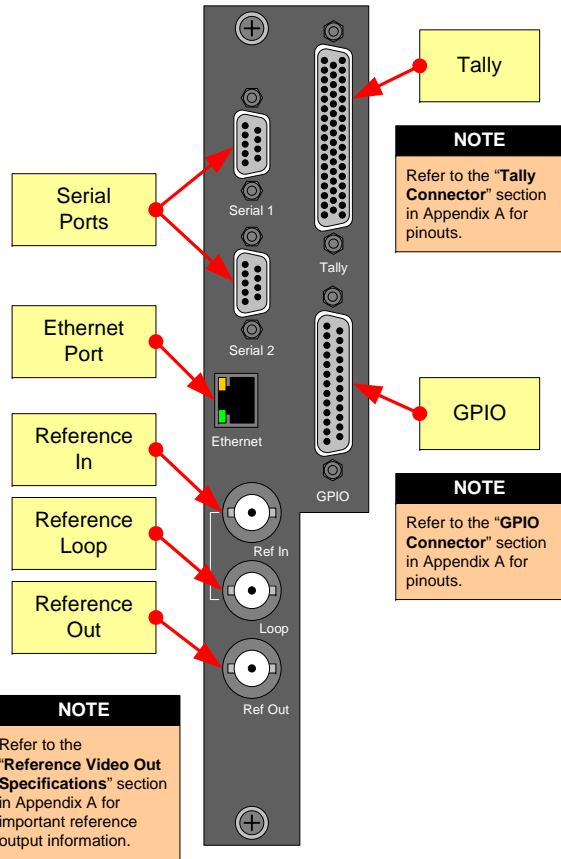
18

Backing up the System — Insert a USB drive into the **USB Port**. On the **Backup and Restore Menu**, press **{Backup System}** to back up the system setup and all memory registers.

FSN Series Installation: I/O Connections

System Connections

System Card I/O Panel



Card Information

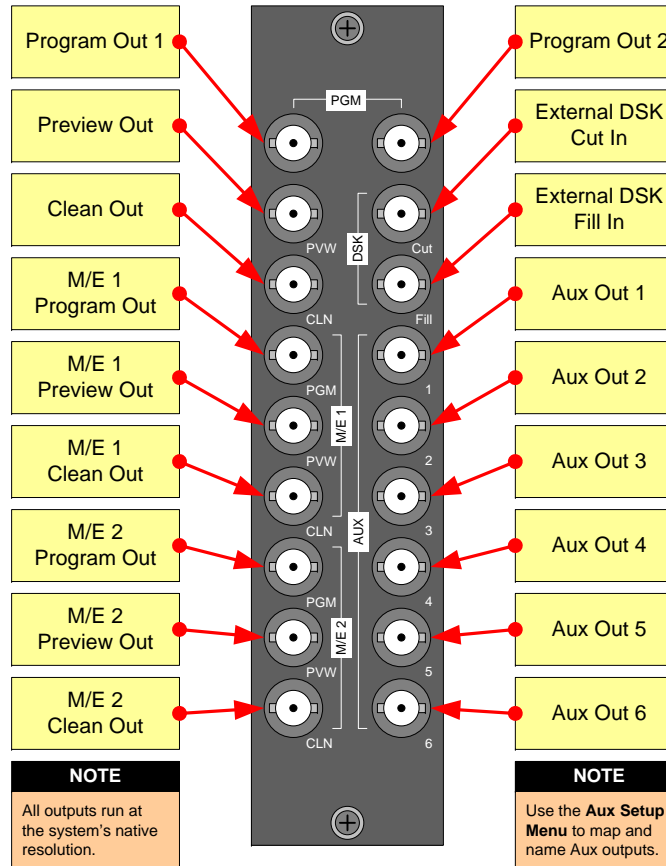
Card Type	Max. # Cards Per Chassis	Slot Number(s)
System	1 (Required)	14

IMPORTANT

This card is pre-installed in the frame. Do not move.

Output Connections

M/E Card (Mix Effects) I/O Panel



Card Information

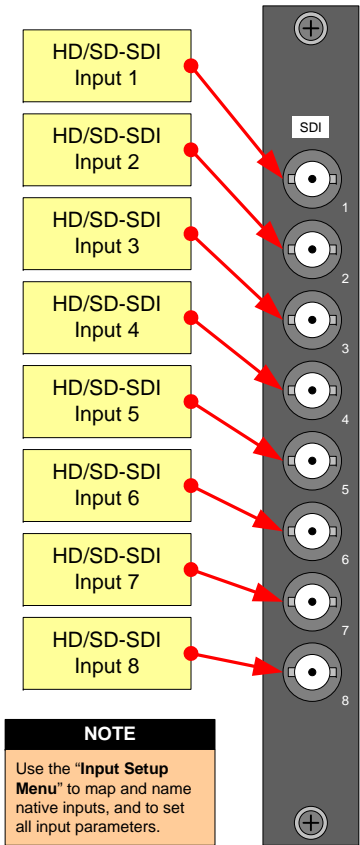
Card Type	Max. # Cards Per Chassis	Slot Number(s)
M/E	1 (Required)	8

IMPORTANT

This card is pre-installed in the frame. Do not move.

Native Input Connections

NIC (Native Input Card) I/O Panel



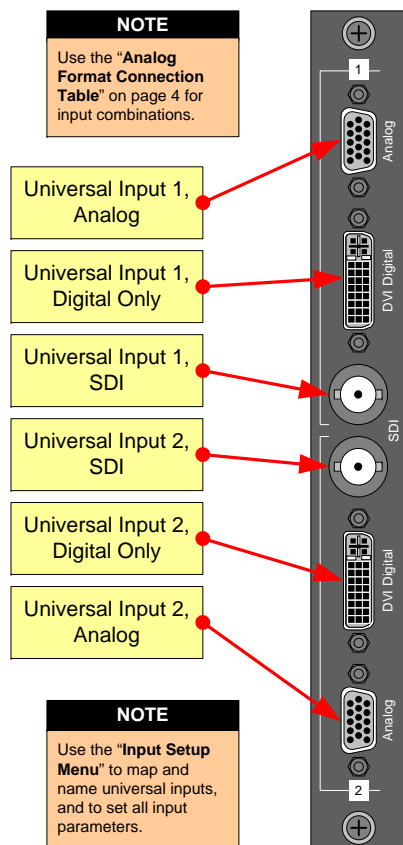
Card Information

Card Type	Max. # Cards Per Chassis	Slot Number(s)
NIC	4	1 - 4

Default slot: 1

Universal Input Connections

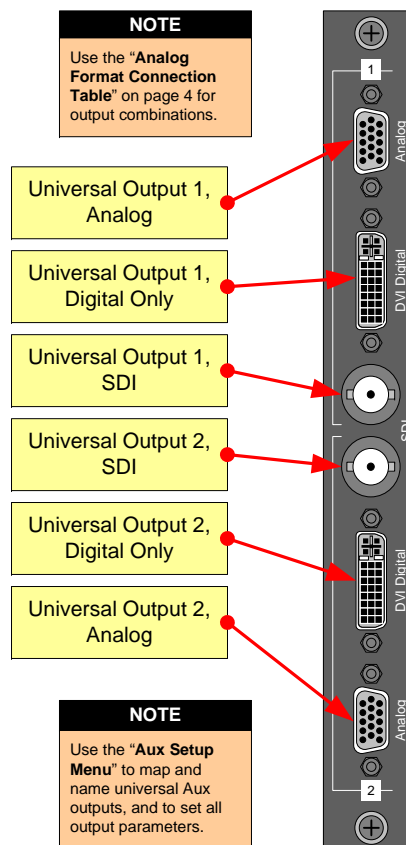
UIC (Universal Input Card) I/O Panel



Card Information		
Card Type	Max. # Cards Per Chassis	Slot Number(s)
UIC	5	3 - 7
Default slot: 7		

Universal Output Connections

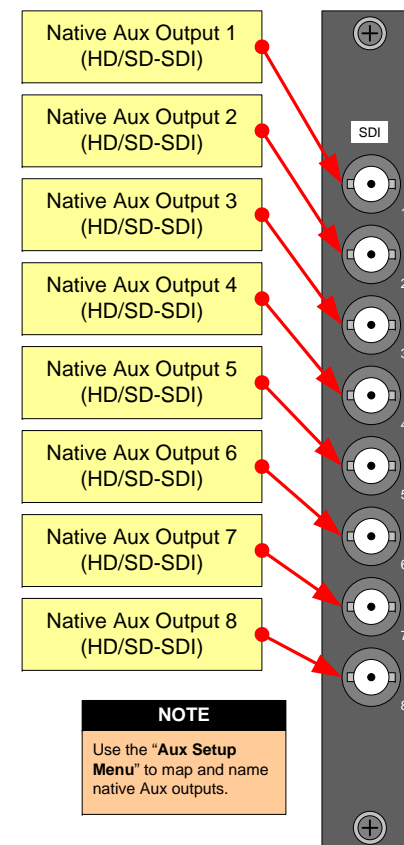
UOC (Universal Output Card) I/O Panel



Card Information		
Card Type	Max. # Cards Per Chassis	Slot Number(s)
UOC	3	11, 12, 13
Default slot: 12		

Native Output Connections

NAC (Native Aux Output Card) I/O Panel



NOTE
All outputs run at the system's native resolution.

Card Information		
Card Type	Max. # Cards Per Chassis	Slot Number(s)
NAC	3	11, 12, 13
Default slot: 13		

I/O Connections (continued)

Multiviewer Connections

MVR
(Multiviewer Card)
I/O Panel

MVR (Multiviewer)
Output 1

NOTE

For MVR outputs 1 and 2 (regardless of the selected layout), the same output signal appears on both the DVI-I and BNC connectors.

- In single monitor layouts, the selected layout appears identically on MVR outputs 1 and 2.
- In dual monitor layouts, one half of the selected layout appears on MVR Output 1, and the other half appears on MVR Output 2.

DVI-I outputs are always active. BNC outputs are only active for SMPTE video output formats.

MVR (Multiviewer)
Output 2

LTC Input

Time Code Connections

Differential: use the +, – and GND terminals.
Single-ended: use the + and GND terminals.

Card Information

Card Type	Max. # Cards Per Chassis	Slot Number(s)
MVR	1	11

NOTE

Use the "Multiviewer Setup Menu" to set all multiviewer parameters.

LEDs

Card LEDs

Card Power LED

- Power is OK
- Power is bad or failed on the card
- Chassis is off, or power has failed

Loaded LED

- All FPGAs loaded successfully
- An FPGA is bad, or software not properly loaded
- Chassis is off, or power has failed

Front Door LEDs

Power LED

- System card has power, and the card's software is running
- Not currently used
- Power is off, or no System card is present, or System card has failed

Power
Video Reference

Video Reference LED

- External reference selected, signal is present and FSN-1400 is locked
- External reference selected, signal is missing or FSN-1400 is not locked
- Free Run is selected.

Input / Output Flexibility

Native and Universal Inputs

Total Inputs (Installed NICs + Installed UICs)						
	0 UIC	1 UIC	2 UIC	3 UIC	4 UIC	5 UIC
0 NIC	0	2	4	6	8	10
1 NIC	8	10	12	14	16	18
2 NICs	16	18	20	22	24	26
3 NICs	24	26	28	30	32	
4 NICs	32	34	36	38		

Native and Universal Aux Outputs

Total Aux Outputs – Multiviewer Not Installed				
	0 NAC	1 NAC	2 NAC	3 NAC
0 UOC	6	14	22	30
1 UOC	8	16	24	
2 UOC	10	18		
3 UOC	12			

Multiviewer Installed			
	0 NAC	1 NAC	2 NAC
0 UOC	6	14	22
1 UOC	8	16	
2 UOC	10		

Analog Format Connection Table

Breakout Cable Wire Color	Comp Video	S-Video (Y/C)	YUV (YPbPr)	RGB Sync on Green	RGB Comp Sync	RGB Separate H V
R			✓ (Pr)	✓	✓	✓
G	✓	✓ (Lum)	✓ (Lum)	✓	✓	✓
B		✓ (Chrom)	✓ (Pb)	✓	✓	✓
H Sync					✓	✓
V Sync						✓

FSN Series Notes

- For complete details on the FSN-1400, the control panel, all menus, and all installation, setup, configuration and operations procedures, please refer to the FSN Series User's Guide.
- For the latest version of the Quick Start Guide, visit www.barco.com.
- Any item contained in this document may change without notice.