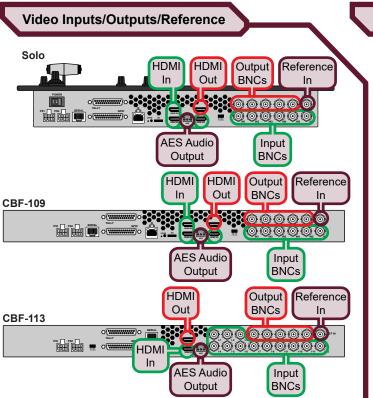
Caution: Before you set up and operate your switcher, see the "Important Safety Instructions" in your Setup manual.

Installation and Cabling

Power and Cabling



Notes:

- The MultiViewer is assigned to output BNC 5 or HDMI Out.
- Only Media-Store audio can be output on the AES audio output. Audio is not embedded in the MultiViewer output.
- HDMI output formats are the same as the switcher is operating in. No format conversion is applied to the output.

Ports, Pinouts, and Diagnostics Network CB9 DashBoard Display Switch (rear) Power **CBF-109** USB Power Switch Tally Network Power (front) Power Serial GPI I/O GPI I/O Tally **GND** (female DB25) (female DB25) Serial Pin Signal Tally Pin Tally Signal (female RJ-45) 14 GPI I/O 14 14 Tally 14 GPI I/O 1 Tally 1 GPI I/O 2 15 GPI I/O 15 Tally 2 15 Tally 15 RS-422 GPI I/O 3 16 GPI I/O 16 16 Tally 16 Tally 3 Tx+ GPI I/O 4 17 GPI I/O 17 17 Common Tally 4 Tx-GPI I/O 5 18 GPI I/O 18 Common Rx+ GPI I/O 6 19 GPI I/O 19 Tally 6 19 Common n/c GPLI/O 7 20 GPI I/O 20 20 Common GPI I/O 8 21 GPI I/O 21 Tally 8 21 Common 6 Rx-GPLI/O 9 22 GPI I/O 22 Tally 9 22 Common Ground 10 GPI I/O 10 23 GPI I/O 23 Tally 10 23 Common 8 Ground GPI I/O 11 24 GPI I/O 24 11 Tally 11 24 Common 12 12 GPI I/O 12 25 Ground Tally 12 25 Common 13 GPI I/O 13 13 Tally 13 Note: Carbonite Black Solo and CBF-109 use the PSU-12V9A-6PIN power supply.

	Connect Program, Preview, and aux outputs as needed	Connect external reference or use
	and aux outputs as needed	internal reference
		Connect video inputs as needed
		inpute de Nocaca
olo	To Remote Aux Panel or external serial device.	#1 #12 #15 #15 #15 #15 #15 #15 #15 #15 #15 #15
	Scrial device.	
+	Ethernet	For MultiPanel and/or Connecting to CB9
	DashBoard Display	
		Black Cable Adapter between Serial port on switcher and RJ12 Telco Cable
	VESA To OSD Remote	10m RJ12 Remote Aux Panel Telco Cable
Ш	100	
Ш		
ול	Note: It is recommended that you a	Iways connect To more
	Mains Power to Mains Power.	

Specifications

HDMI Input Formats

VGA 640×480 (4:3) SVGA 800×600 (4:3) XGA 1024×769 (4:3) SXGA 1280×1024 (5:4) 720p 1280×720 (16:9) 1080i 1920×1080 (16:9) 1080p 1920×1080 (16:9)

SDI IIIPUL FORMALS	
480i 59.94Hz	
576i 50Hz	
720p 59.94Hz	
720p 50Hz	
1080i 59.94Hz	
1080i 50Hz	
1080pSF 23.98Hz	
1080pSF 25Hz	
1080pSF 29.97Hz	
1080p 29.97Hz	
1080p 25Hz	
1080p 50Hz Level A	
1080p 59.94Hz Level A	

SDI Input Formate

Default Values		
Frame IP	192.168.0.123	
FTP User name	user	
FTP Password	password	

Tally Rating				
Input Voltage:	24VAC (rms) / 40VDC			
Maximum Current:	120mA			
Impedance:	< 15 ohms			
•				

	Temperature
Operating:	0 - 40°C (32 - 104°F)
Storage:	-20 - 85°C (-4 - 185°F)
•	

Solo	57W 4.75A 12V
CBF-109	45W 3.75A 12V
CBF-113	48W 4.00A 12V
CB9	24W 2.00A 12V
Inp	ut Voltages
AII 100 - 120V~	

220 - 240V~

47-63Hz

Video Input Specifications		
Equalization	>100m @ 1.5 Gb/s	
(using Belden 1694 cable)	>300m @ 270 Mb/s (5°-40°C)	
Impedance	75 ohm, terminating	
Video Inputs, SDI	SMPTE 259M/292M serial digital	
	(non-looping)	
Video Inputs, HDMI	HDMI 1.4	
	High Speed HDMI Cable (Max 10m)	
Reference Inputs	Standard Definition — analog black	
(non-terminating, looping)	High Definition — tri-level sync	

Video Output Specifications		
< -23dB at 1.5GHz		
< -18dB at 3GHz		
800ps +/- 10% (SD)		
240ps +/- 10% (HD)		
800mV +/- 10%		
0 Volts		
< 10%		
10-bit SMPTE-292M serial digital		
HDMI 1.4		
High Speed HDMI Cable		

AES Output Specifications			
Audio Depth	24-bit in HD		
Addio Dopui	20-bit in SD		
Channels	1 Stereo Pair		
File Format	Multi-Channel Waveform Audio File		
Impedance	110 Ohms, differential		
Min/Max Output Voltage Swing	1.5/6V peak-to-peak		
Rise and Fall Times	20ns (typical)		
Sample Rate	48kHz		
Synchronization	Locked to Video		





