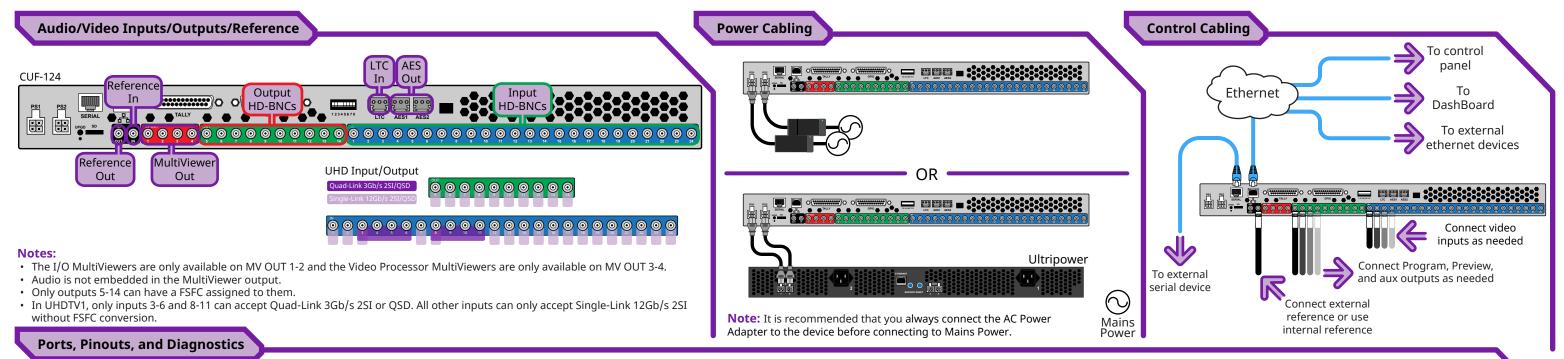
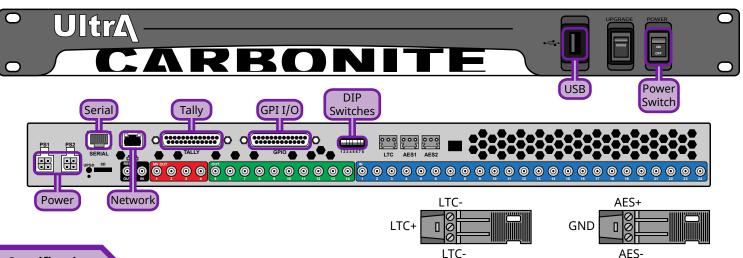
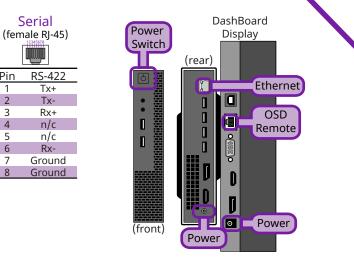
QuickStart





	(female				Tally			
	(female DB25)				(female DB25)			
O								
Pin	GPI	Pin	Signal		Pin	Tally	Pin	Tally
1	I/O 1	14	I/O 14		1	1	14	14
2	I/O 2	15	I/O 15		2	2	15	15
3	I/O 3	16	I/O 16		3	3	16	16
4	I/O 4	17	I/O 17		4	4	17	17
5	I/O 5	18	I/O 18		5	5	18	18
6	I/O 6	19	I/O 19		6	6	19	19
7	I/O 7	20	I/O 20		7	7	20	20
8	I/O 8	21	I/O 21		8	8	21	21
9	I/O 9	22	I/O 22		9	9	22	22
10	I/O 10	23	I/O 23		10	10	23	23
11	I/O 11	24	I/O 24		11	11	24	24
12	I/O 12	25	Ground		12	12	25	Common
13	I/O 13			_	13	13		



Specifications

SDI Input Formats
480i 59.94Hz
576i 50Hz
720p 50/59.94Hz
1080i 50/59.94Hz
1080pSF 23.98/24/25/29.97Hz
1080p 23.98/24/25/30/29.97/30/50 (A)/59.94 (A)/60Hz
UHDTV1 23.98/24/25/29.97/30/50/59.94/60 (Single-Link
12Gb/s 2SI, Quad-Link 3Gb/s 2SI, Quad-Link 3Gb/s QSD)

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)

Max Power Consumption			
Consumption	114W, 7.6A, 15V		
Input Voltage	100-120V~		
(External PS)	220-240V~		
	47-63Hz		

Video In	put Specifications
Equalization	>40m @ 12Gb/s
(using Belden 1694 cable)	>100m @ 1.5 Gb/s
	>300m @ 270 Mb/s (5°-40°C)
Impedance	75 ohm, terminating
Video Inputs	SMPTE 259M/292M serial digital (non-looping)
Reference Inputs (non-terminating, looping)	Standard Definition — analog black High Definition — tri-level sync
•	

CDITIO

Return Loss < -7.8dB @ 12Gb/s < -15dB @ 1.5Gb/s < -10dB @ 3Gb/s Rise and Fall Time 27ps +/- 10% (UHD) 800ps +/- 10% (SD)	Video Output Specifications			
< -10dB @ 3Gb/s Rise and Fall Time 27ps +/- 10% (UHD)	Return Loss	< -7.8dB @ 12Gb/s		
Rise and Fall Time 27ps +/- 10% (UHD)		< -15dB @ 1.5Gb/s		
800ps +/- 10% (SD)	Rise and Fall Time			
		800ps +/- 10% (SD)		
240ps +/- 10% (HD)				
Signal Level 800mV +/- 10%		800mV +/- 10%		
DC Offset 0 Volts	DC Offset	0 Volts		
Overshoot < 10%	Overshoot			
SDI HD Mode 10-bit SMPTE-292M/424M	SDI HD Mode			
SDI UHD Mode SMPTE ST 2082-1:2015 (1:2016)	SDI UHD Mode	SMPTE ST 2082-1:2015 (1:2016)		

Serial

Tx+

Rx+

n/c

Pin

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







FrameGlow Diagnostics

NORMAL: Normal operation. No warnings. Actual color is user selectable.



BOOTING: Frame hardware is booting up. (cycle from blue to white)



BOOTING: Frame software is booting up. (solid blue)



UPGRADE: Frame is being upgraded. (cycle from yellow to white)



NO NETWORK: Frame cannot detect a network connect. (cycle from purple to green)



WARNING - FAN: Frame fan is not responding. (cycle from red to green)



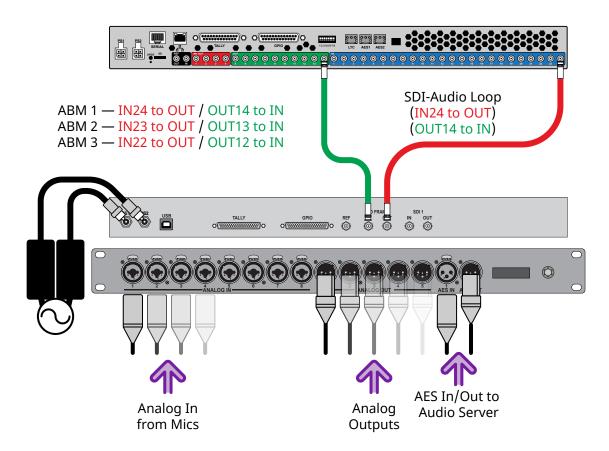
WARNING: Frame is over-temperature or there is a status warning. (cycle from red to white)



CRITICAL: Frame is critically over-temperature. Auto power-down imminent. (solid red)



1RU Audio Breakout Module (ABM)



Important: Ensure that Phantom Power is turned off for the Analog Input unless you are connecting a microphone that requires phantom power. Connecting the line out from an audio device to the analog input with phantom power on could damage the audio device and/or the 1RU Audio Breakout Module. For added safety, a TRS phone connecter should be used for line in audio sources.



Note: It is recommended that you always connect the AC Power Adapter to the device before connecting to Mains Power.

Input Impedance	XLR: 2K ohm
	¼" Jack: 10K ohm
Maximum Level	+24dBu
Frequency Response	±0.3dB (22Hz to
	20kHz @ Fs = 48kHz)
Signal to Noise Ratio	-95dB
"A" weighting	-98dB
CCITT weighting	-107dB
THD	>93dB or <0.002%
Amplitude Linearity	<0.8dB @ -100dBFS
Crosstalk	-94dB
<u> </u>	

Analog Audio Input Specifications

Analog Audio Output Specifications				
Maximum Level	+24dBu			
Frequency Response	±0.4dB (22Hz to			
	20kHz @ Fs = 48kHz)			
Signal to Noise Ratio	-103dB			
THD	>93dB			
Amplitude Linearity	<0.3dB @ -100dBFS			
Crosstalk	-106dB (20Hz to			
	20kHz)			

Max Power Consumption
Audio Breakout 45W 3.75A 12V
Module



Having a problem? Call our free, 24-hour technical support hotline to speak with a live product specialist located right here in our facility.

Tel: (+1) 613 • 652 • 4886 Email: techsupport@rossvideo.com

