# **BUC 102**

#### Two Channel Audio BUC - Balanced and Unbalanced Converter



### **FEATURES**

- Inputs: Captive screw connectors
- Outputs: Captive screw connectors
- Provides signal matching between unbalanced and balanced audio equipment
   — The BUC 102 enables correct interfacing of consumer and professional equipment with proper gain offsets.
- Audio line driver Active, op amp-based circuitry provides wide frequency response, low noise, immunity to interference - EMI, and the ability to drive signals over long cables.
- Allows transmission of balanced audio signals up to 1000' through Extron STP20 cable
- Gain control for each channel with a wide adjustment range from -80 dB to +20 dB — Two front panel rotary trim pots provide level adjustment for each input.
- · Gain compensation switch for interfacing between professional A/V systems
- · Rack-mountable 1U, one-eighth rack width metal enclosure
- External universal power supply included, part # 70-055-01 Provides worldwide power compatibility.

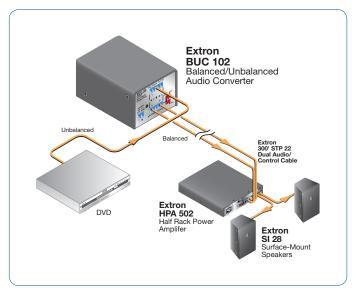
## **DESCRIPTION**

The Extron **BUC 102** Balanced and Unbalanced Audio Converter provides signal matching between unbalanced and balanced audio equipment. In addition to serving as an interface between professional A/V systems and consumer products, the BUC 102 is a high-quality line driver for sending and receiving audio signals over long distances.

Inputs and outputs for the BUC 102 are on captive screw connectors. User controls include variable gain adjustments and a gain compensation switch to maintain consistency between consumer and professional audio levels. Part of the VersaTools® line of small, economical, integrator friendly products, the BUC 102 is housed in a 1U, one-eighth rack width metal enclosure.

#### **SPECIFICATIONS** AUDIO Unity (0 dB) when the BUC 102 is set to the default gain adjustment and Gain. the DIP switch is set to match the output wiring. Output Wiring DIP Switch Setting Unbalanced Balanced Unbalanced +6 dB Balanced -6 dB 0 dB Mute to +20 dB, when DIP switch is set to match the output wiring Gain adjustment range Frequency response. 20 Hz to 20 kHz, $<\pm0.15$ dB THD + Noise. 0.05% @ 1 kHz at nominal level S/N >90 dB, balanced, at maximum output, unweighted Stereo channel separation ... >80 dB @ 1 kHz, >60 dB @ 20 kHz CMRR >72 dB @ 20 Hz to 20 kHz

AUDIO INPUT	
Connectors	1 set of stereo, balanced/unbalanced (1) 3.5 mm captive screw connector, 5 pole >20k ohms unbalanced, 40k ohms balanced, DC coupled -10 dBV (316 mVrms) or +4 dBu (1.23 Vrms) +20 dBu (7.75 Vrms), balanced or unbalanced, at 1%THD+N, 0 dB gain = 1 Vrms, 0 dBV = 2 dBu.
AUDIO OUTPUT	
Connectors Impedance	1 set of stereo, balanced/unbalanced (1) 3.5 mm captive screw connector, 5 pole 50 ohms unbalanced, 100 ohms balanced ±0.5 dB channel to channel -10 dBV (316 mVrms) or +4dBu (1.23 Vrms) >+25 dBu (13.78 Vrms), balanced, at 1%THD+N with 100k ohm load >+18 dBu (6.16 Vrms), balanced, at 1%THD+N (The level of an unbalanced signal will be 6 dB lower.)
GENERAL	
Power input requirements	100 VAC to 240 VAC, 50/60 Hz, 5 watts, external, universal; to 12 VDC, 1 A, regulated 12 VDC, 0.2 A Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Enclosure type	Yes, with optional rack shelves (See optional accessories)
Listings / Compliances MTBF	0.2 lbs (0.1 kg) / 2 lbs (1 kg) ISTA 1A in carton (International Safe Transit Association) UL, CUL / CE, FCC Class A, VCCI, AS / NZS, ICES



MODEL	VERSION DESCRIPTION		PART #	
BUC 102	Balanced-Unbalanced Audio Converter		60-651-01	
OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #	
RSU 129	1U 9.5" Deep Universal Rack Shelf Kit	page 819	60-190-01	
RSF 123	1U 3.5" Deep VersaTools® Rack Shelf Kit	page 818	60-190-20	
MBU 123	VersaTools® Mini Under-Desk Mount Kit	page 815	70-212-01	
PMK 100	One VersaTools®, 1/4 Rack Width Mini Projector Mounting Kit	page 813	70-217-01	
MBB 100	VersaTools® Back of Rack Mounting Kit	page 817	70-367-01	

