MLS 102 VGA

TWO INPUT VGA AND FOUR INPUT STEREO AUDIO SWITCHER



The Extron MLS 102 VGA is a compact, two-input switcher that supports VGA-QXGA video resolutions and stereo audio transmission. For ease of integration, the switcher provides a wide range of audio adjustments and control options. The MLS 102 VGA is ideal for installation in podiums, lecterns, and other space-constrained areas.

- ▶ Two female 15-pin HD connectors for computer-video and two 3.5 mm stereo mini jacks plus two captive screw connectors for audio
- One female 15-pin HD connector for computer-video and one captive screw connector for audio
- Additional input accepts mono line level audio signals for mixing with any of the four switchable inputs
- ▶ Audio input gain and attenuation
- ► Controllable via TouchLink™ Control System, MediaLink® Controller, front panel buttons, or RS-232
- ▶ Rack-mountable, 1U, quarter rack width metal enclosure
- Energy-efficient external universal power supply included



DESCRIPTION

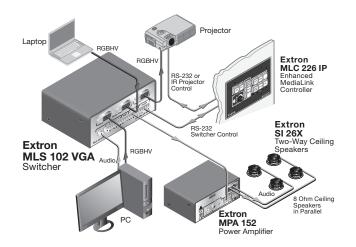
The Extron **MLS 102 VGA** Switcher is a compact, two input switcher utilizing 15-pin HD connectors. Inputs one and two utilize 3.5 mm stereo mini jacks for easy integration to Extron VGA with audio cables. Inputs three and four provide unbalanced audio on captive screw connectors. An additional input is an active auxiliary line level mono audio input that can be mixed with any of the other four selectable inputs. When used with a TouchLink™ Control System or MediaLink® Controller, input selection and volume control are easily achieved using RS-232 or the controller's user interface. Input selection can also be controlled using the MLS 102 VGA switcher's front panel buttons.

The MLS 102 VGA is housed in a quarter rack width metal enclosure, making it ideal for installation in podiums and other small space areas. Because of its small size, the MLS 102 VGA can also be mounted or placed in a lectern along with a desktop PC and document camera.

FEATURES

- ▶ Compatible with VGA-QXGA resolutions
- Additional input accepts mono line level audio signals for mixing with any of the four switchable inputs
- ▶ Audio input gain and attenuation
- ▶ Controllable via TouchLink™ Control System, MediaLink® Controller, front panel buttons, or RS-232
- ▶ Rack-mountable, 1U, quarter rack width metal enclosure
- ▶ Energy-efficient external universal power supply included

APPLICATION DIAGRAM



SPECIFICATIONS

Bandwidth 250 MHz (-3 dB)				
Number/signal type 2 VGA-UXGA RGBHV, RGBS, RGSB, RsGsBs Connectors 2 female 15-pin HD Nominal level 0.7 Vp-p for RGB Minimum/maximum levels 0.3 V to 2.0 Vp-p with no offset VIDEO OUTPUT Number/signal type 1 VGA-UXGA RGBHV, RGBS, RGsB, RsGsBs Connector 1 female 15-pin HD Nominal level 0.7 Vp-p for RGB Minimum/maximum levels 0.3 V to 2.0 Vp-p SYNC Input type RGBHV, RGBS, RGsB, RsGsBs Output type RGBHV, RGBS, RGsB, RsGsBs Output type RGBHV, RGBS, RGsB, RSGsBs (follows input) Input level 0.5 V to 5.0 Vp-p, unterminated AUDIO Gain Unbalanced output: -6 dB; balanced output: 0 dB (unity) Frequency response 20 Hz to 20 kHz, ±0.5 dB AUDIO INPUT Number/signal type 4 stereo/mono, unbalanced (switchable) 1 mono, balanced/unbalanced aux-mix (always active, non-switchable) Connectors 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole Maximum level 1+14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/contsoftware) Aux/Mix level adjustment 18 dB to +24 dB (adjustable only via front panel) Aux/Mix level adjustment 18 dB to +24 dB (adjustable only via front panel) Aux/Mix level adjustment 18 dB to +24 dB, adjustable only via front panel) Aux/Mix level adjustment 19 stereo or mono, balanced/unbalanced (1) 3.5 mm captive screw connector, 5 pole Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (10 high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (50 peth excludes connectors and buttons.) Product weight 3 lbs (2 kg) Model Version Description	Bandwidth		250 MHz (-3 dB)	
Connectors 2 female 15-pin HD Nominal level 0.7 Vp-p for RGB Minimum/maximum levels 0.3 V to 2.0 Vp-p with no offset VIDEO OUTPUT Number/signal type 1 VGA-LXGA RGBHV, RGBS, RGSB, RSGSBS Connector 1 female 15-pin HD Nominal level 0.7 Vp-p for RGB Minimum/maximum levels 0.3 V to 2.0 Vp-p SYNC Input type RGBHV, RGBS, RGSB, RSGSBS Output level 0.5 V to 5.0 Vp-p Output level 0.5 V	VIDEO INPL	JT		
Nominal level Minimum/maximum levels 0.3 V to 2.0 Vp-p with no offset VIDEO OUTPUT Number/signal type 1 VGA-UXGA RGBHV, RGBS, RGSB, RsGsBs Connector 1 female 15-pin HD Nominal level 0.7 Vp-p for RGB Minimum/maximum levels 0.3 V to 2.0 Vp-p SYNC Input type RGBHV, RGBS, RGSB, RsGsBs Cutput type RGBHV, RGBS, RGSB, RsGsBs Cutput type RGBHV, RGBS, RGSB, RsGsBs Cutput type RGBHV, RGBS, RGSB, RsGsBs (follows input) Input level 0.5 V to 5.0 Vp-p Output level 0.5 V to 5.0 Vp-p, unterminated AUDIO Gain Unbalanced output: -6 dB; balanced output: 0 dB (unity) Frequency response 20 Hz to 20 kHz, ±0.5 dB AUDIO INPUT Number/signal type 4 stereo/mono, unbalanced (switchable) 1 mono, balanced/unbalanced aux-mix (always active, non-switchable) 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole Maximum level 1 +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/cont software) Aux/Mix level adjustment 4 3 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max, regulated Power input requirements 12 VDC, 0.4 A Enclosure dimensions 1.7" Hx 4.3" Wx 3.0" D (1U high, quarter rack wide) (4.2 cm Hx 11.0 cm Wx 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg)	Number/signal type	9	2 VGA-UXGA RGBHV, RGBS, RGsB, RsGsBs	
Minimum/maximum levels ViDEO OUTPUT				
VIDEO OUTPUT Number/signal type 1 VGA-UXGA RGBHV, RGBS, RGsB, RsGsBs Connector 1 female 15-pin HD Nominal level 0.7 Vp-p for RGB Minimum/maximum levels 0.3 V to 2.0 Vp-p SYNC Input type RGBHV, RGBS, RGsB, RsGsBs Output type RGBHV, RGBS, RGsB, RsGsBs Output type RGBHV, RGBS, RGsB, RsGsBs Output level 0.5 V to 5.0 Vp-p Output level 0.5 V to 5.0 Vp-p, unterminated AUDIO Gain Unbalanced output: -6 dB; balanced output: 0 dB (unity) Frequency response 20 Hz to 20 kHz, ±0.5 dB AUDIO INPUT Number/signal type 4 stereo/mono, unbalanced (switchable) 1 mono, balanced/unbalanced aux-mix (always active, non-switchable) Connectors 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB (adjustable per input (via RS-232/cont software) Auz/Mix level adjustment 43 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure dimensions 1.7" Hx 4.3" Wx 3.0" D (1U high, quarter rack wide) (4.2 cm Hx 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight Model Version Description				
Number/signal type 1 VGA-UXGA RGBHV, RGBS, RGSB, RSGSBS Connector 1 female 15-pin HD Nominal level 0.7 Vp-p for RGB Minimum/maximum levels 0.3 V to 2.0 Vp-p SYNC Input type RGBHV, RGBS, RGSB, RSGSBS Output type RGBHV, RGBS, RGSB, RSGSBS Output type RGBHV, RGBS, RGSB, RSGSBS (follows input) Input level 0.5 V to 5.0 Vp-p Output level 0.5 V to 5.0 Vp-p, unterminated AUDIO Gain Unbalanced output: -6 dB; balanced output: 0 dB (unity) Frequency response 20 Hz to 20 kHz, ±0.5 dB AUDIO INPUT Number/signal type 4 stereo/mono, unbalanced (switchable) 1 mono, balanced/unbalanced aux-mix (always active, non-switchable) 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/contsoftware) Aux/Mix level adjustment -43 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg)			0.3 V to 2.0 Vp-p with no offset	
Connector 1 female 15-pin HD Nominal level 0.7 Vp-p for RGB Minimum/maximum levels 0.3 V to 2.0 Vp-p SYNC Input type RGBHV, RGBS, RGsB, RSGSBS Output type RGBHV, RGBS, RGsB, RSGSBS (follows input) Input level 0.5 V to 5.0 Vp-p Output level 0.5 V to 5.0 Vp-p, unterminated AUDIO Gain Unbalanced output: -6 dB; balanced output: 0 dB (unity) Frequency response 20 Hz to 20 kHz, ±0.5 dB AUDIO INPUT Number/signal type 4 stereo/mono, unbalanced (switchable) 1 mono, balanced/unbalanced aux-mix (always active, non-switchable) 2 min stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole 4 Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/contsoftware) Aux/Mix level adjustment 4.3 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" Hx 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 0.7 lbs (0.3 kg) Model Version Description		-		
Nominal level 0.7 Vp-p for RGB Minimum/maximum levels 0.3 V to 2.0 Vp-p SYNC Input type RGBHV, RGBS, RGSB, RsGSBs Output type RGBHV, RGBS, RGSB, RsGSBs (follows input) Input level 0.5 V to 5.0 Vp-p Output level 0.5 V to 5.0 Vp-p, unterminated AUDIO Gain Unbalanced output: -6 dB; balanced output: 0 dB (unity) Frequency response 20 Hz to 20 kHz, ±0.5 dB AUDIO INPUT Number/signal type 4 stereo/mono, unbalanced (switchable) 1 mono, balanced/unbalanced aux-mix (always active, non-switchable) 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole 4 dB db to +24 dB, adjustable per input (via RS-232/contsoftware) Aux/Mix level adjustment 18 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg)		9		
Minimum/maximum levels SYNC Input type RGBHV, RGBS, RGSB, RGSBS, RGSBS Output type RGBHV, RGBS, RGSB, RGSBS, RGSBS (follows input) Input level 0.5 V to 5.0 Vp-p Output level 0.5 V to 5.0 Vp-p, unterminated AUDIO Gain Unbalanced output: -6 dB; balanced output: 0 dB (unity) Frequency response 20 Hz to 20 kHz, ±0.5 dB AUDIO INPUT Number/signal type 4 stereo/mono, unbalanced (switchable) 1 mono, balanced/unbalanced aux-mix (always active, non-switchable) 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole 4 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/contsoftware) AUZHOLO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max, regulated Power input requirements 12 VDC, 0.4 A Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight Nodel Version Description				
Input type RGBHV, RGBS, RGSB, RSGSB RGBHV, RGBS, RGSB, RSGSB, RSGSB RGBHV, RGBS, RGSB, RSGSB, RSGB, RSCB, RSCH, RSH, RSH, RSH, RSH, RSH, RSH, RSH, RS		n levels		
Input type RGBHV, RGBS, RGSB, RGSBS (follows input) Input level 0.5 V to 5.0 Vp-p Output level 0.5 V to 5.0 Vp-p Output level 0.5 V to 5.0 Vp-p Output level 0.5 V to 5.0 Vp-p, unterminated AUDIO Gain Unbalanced output: -6 dB; balanced output: 0 dB (unity) Frequency response 20 Hz to 20 kHz, ±0.5 dB AUDIO INPUT Number/signal type 4 stereo/mono, unbalanced (switchable) 1 mono, balanced/unbalanced aux-mix (always active, non-switchable) Connectors 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/cont software) Aux/Mix level adjustment -43 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1A max, regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg)			0.0 V to 2.0 Vp p	
Output type RGBHV, RGBS, RGSB, RGSBs (follows input) Input level 0.5 V to 5.0 Vp-p Output level ledever ledeve le			RGRHV RGRS RGeR ReGeRe	
Input level				
AUDIO Gain Unbalanced output: -6 dB; balanced output: 0 dB (unity) Frequency response 20 Hz to 20 kHz, ±0.5 dB AUDIO INPUT Number/signal type 4 stereo/mono, unbalanced (switchable) 1 mono, balanced/unbalanced aux-mix (always active, non-switchable) 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/cont software) Aux/Mix level adjustment -43 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg) Model Version Description				
Gain Unbalanced output: -6 dB; balanced output: 0 dB (unity) Frequency response 20 Hz to 20 kHz, ±0.5 dB AUDIO INPUT Number/signal type 4 stereo/mono, unbalanced (switchable) 1 mono, balanced/unbalanced aux-mix (always active, non-switchable) 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/cont software) Aux/Mix level adjustment -43 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight Version Description Part number	Output level		$0.5\mathrm{V}$ to $5.0\mathrm{Vp}$ -p, unterminated	
Frequency response 20 Hz to 20 kHz, ±0.5 dB AUDIO INPUT Number/signal type 4 stereo/mono, unbalanced (switchable) 1 mono, balanced/unbalanced aux-mix (always active, non-switchable) 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/cont software) Aux/Mix level adjustment -43 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg) Model Version Description	AUDIO			
AUDIO INPUT Number/signal type 4 stereo/mono, unbalanced (switchable) 1 mono, balanced/unbalanced aux-mix (always active, non-switchable) 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/contractive) Aux/Mix level adjustment -43 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1.4 max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg) Model Version Description			Unbalanced output: -6 dB; balanced output:	0 dB (unity)
Number/signal type 4 stereo/mono, unbalanced (switchable) 1 mono, balanced/unbalanced aux-mix (always active, non-switchable) Connectors 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/contisoftware) Aux/Mix level adjustment -43 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight A stereo/mono, balanced/unbalanced 1 mono, balanced visit (2 may 1 may	Frequency respons	е	20 Hz to 20 kHz, ±0.5 dB	
1 mono, balanced/unbalanced aux-mix (always active, non-switchable) Connectors 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/contsoftware) Aux/Mix level adjustment -43 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg) Model Version Description	AUDIO INP	UT		
non-switchable) Connectors 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/contsoftware) Aux/Mix level adjustment -43 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1.4 max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg) Model Version Description	Number/signal type)		
Connectors 2 mini stereo jacks (female tip-ring-sleeve connectors) (3) 3.5 mm captive screw connectors, 3 pole Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/cont software) Aux/Mix level adjustment -43 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg) Model Version Description			· ·	ays active,
(3) 3.5 mm captive screw connectors, 3 pole Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/cont software) Aux/Mix level adjustment -43 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg)	Connectors			onnoctora)
Maximum level +14 dBu, (balanced or unbalanced) at stated %THD+N Input gain adjustment 18 dB to +24 dB, adjustable per input (via RS-232/cont software) Aux/Mix level adjustment -43 dB to +24 dB (adjustable only via front panel) AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg)	Connectors		, , , ,	,
AUDIO OUTPUT Number/signal type	Maximum level			
AUDIO OUTPUT Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg)	Input gain adjustme	ent	18 dB to +24 dB, adjustable per input (via F	S-232/contro
AUDIO OUTPUT Number/signal type	A/A.C I a I a.d	t		N
Number/signal type 1 stereo or mono, balanced/unbalanced Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg) Model Version Description	-		-43 dB to +24 dB (adjustable only via front	panei)
Connectors (1) 3.5 mm captive screw connector, 5 pole CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg) Model Version Description				
CONTROL/REMOTE — SWITCHER Serial control port RS-232, 3.5 mm, 5 pole captive screw connector GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg) Model Version Description	0 71			
Serial control port RS-232, 3.5 mm, 5 pole captive screw connector		DEMOTE O		_
GENERAL External power supply (included) 100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated Power input requirements 12 VDC, 0.4 A Enclosure type Metal Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight Version Description Part number		REMOTE — S		
100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A max., regulated	•		R5-232, 3.5 IIIII, 5 pole captive sciew con	IECIOI
1 A max., regulated	*	mly (included)	100 V// C to 040 V// C FO CO I la outomoli to	10.1/00
Power input requirements	External power Sup	ppry (miciaaea)		12 100,
Enclosure dimensions 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg) Model Version Description Part number	Power input require	ements	, 0	
(4.2 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors and buttons.) Product weight O.7 lbs (0.3 kg) Shipping weight Version Description Part number				
(Depth excludes connectors and buttons.) Product weight 0.7 lbs (0.3 kg)	Enclosure dimension	ons		ack wide)
Product weight 0.7 lbs (0.3 kg) Shipping weight 3 lbs (2 kg) Model Version Description Part number			'	
Shipping weight 3 lbs (2 kg) Model Version Description Part number	Product weight			
			, 0,	
	Model	Version Description		Part numbe

For complete specifications, please go to www.extron.com Specifications are subject to change without notice.

Worldwide Sales Offices

Anaheim, CA • Raleigh, NC • Dallas, TX • Washington, DC • London • Paris • Amersfoort, NL Frankfurt • Dubai • Singapore • Seoul • Shanghai • Beijing • Tokyo • Bangalore

 UNITED STATES
 EUROPE
 ASIA
 MIDDLE EAST

 +800.633.9876 Inside USA/Canada
 +800.3987.6673 Inside Europe
 +800.7339.8766 Inside Asia
 +971.4.2991800

 +1.714.491.1500
 +31.33.453.4040
 +65.6383.4400