12G HD-SDI 101

CABLE EQUALIZER FOR 12G-SDI





The 12G HD-SDI 101 is a one-input, one-output cable equalizer for multi-rate SDI digital video signals which enables 3G-SDI, 6G-SDI, or 12G-SDI digital video to be sent long distances on coaxial cable when used at the destination end of the cable run. This cable equalizer supports all common serial digital video data rates up to 11.88 Gbps, while passing HDR, up to 16 channels of embedded audio, and other ancillary data. It is housed in a one-eighth rack width, metal enclosure and provides integration-friendly mounting options into both new and existing AV systems.

- Automatically adapts to SMPTE and ITU digital video standards for SDI signals up to a 12G-SDI data rate
- ▶ Supports data rates from 270 Mbps to 11.88 Gbps
- Support for HDR High Dynamic Range video
- Automatic input equalization
- ▶ Automatic output reclocking
- Passes HDR, up to 16 channels of embedded audio, and other ancillary data including closed caption and time code



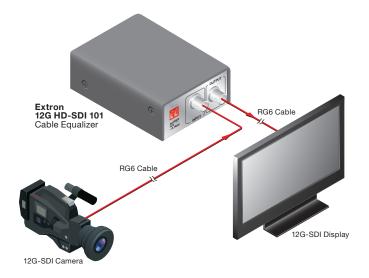
DESCRIPTION

The **12G HD-SDI 101** is a one-input, one-output cable equalizer for multi-rate SDI digital video signals. It offers a convenient, economical solution for sending multi-rate SDI digital video signals over long coaxial cable runs. The 12G HD-SDI 101 supports all common serial digital video data rates up to 11.88 Gbps, while passing HDR, up to 16 channels of embedded audio, and other ancillary data allowed by the SMPTE and ITU specifications. Automatic input equalization adds up to 984 feet (300 m) for SDI, up to 787 feet (240 m) for HD-SDI, up to 590 feet (180 m) for 3G-SDI, up to 295 feet (90 m) for 6G-SDI, and up to 230 feet (70 m) for 12G-SDI digital video, when using Extron RG6 cable. The 12G HD-SDI 101 is housed in a one-eighth rack width, metal enclosure, providing integration-friendly mounting options into both new and existing AV systems.

KEY FEATURES

- Automatically adapts to SMPTE and ITU digital video standards for SDI signals up to a 12G-SDI data rate
- Supports data rates from 270 Mbps to 11.88 Gbps
- Support for HDR High Dynamic Range video
- Automatic input equalization
- Automatic output reclocking
- Passes HDR, up to 16 channels of embedded audio, and other ancillary data including closed caption and time code
- Power and Signal Presence LED
- One-eighth rack width metal enclosure
- External Extron Everlast power supply included, replacement part #70-1175-01

APPLICATION DIAGRAM



SPECIFICATIONS

TRUE 4K SPECIFICATION

Max 4K Capabilities				
Resolution and Refresh Rate	Chroma Sampling	Max Bit Depth per Color		
4096 x 2160 at 30 Hz 3840 x 2160 at 30 Hz	4:4:4	8 bit		
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz	4:2:2	10 bit		
Frame rate ¹	rate ¹ 24, 25, 30, 50, or 60 fps			
Chroma sampling ¹	4:4:4, 4:2:2, and 4:2:0			
Color bit depth ¹	8 or 10 bits per color			
gnal type 6G-SDI, 12G-SDI				
Max. video data rate	11.88 Gbps per 12G-SDI connection			
NOTE: 1Subject to the maximum data r	ate limit. Use our calculator (h	http://www.extron.com/product/		
videotools.aspx) to determine video parameters supported by this data rate.				

VIDEO			
Signal type	SDI, HD-SDI, 3G-SDI, 6G-SDI, and 12G-SDI digital video		Il digital video
Resolution		8 or 10 bits, automatic	
Operation standard	ds	SMPTE 259M-C, SMPTE 292M, SMPTE 424M, SMPTE 372M, SMPTE ST-2081, SMPTE 2082, ITU-RBT.601, ITU-RBT.1120	
Auto data rate lock	(Yes	
VIDEO INPUT			
Number/signal typ	е	1 single link SDI, HD-SDI, 3G/6G/12G-SDI digital component video	
Input cable equalized 12G-SDI 6G-SDI 3G-SDI NOTE: Transmission and display used in	on distance varies dependin	Automatic for up to -30 dB of cable loss 70 m (230') using Extron RG6 cable 90 m (295') using Extron RG6 cable 180 m (590') using Extron RG6 cable g on the signal resoultion and on the type of	f cable, source,
VIDEO OUTPU	Т		
• • •		1 single link SDI, HD-SDI, 3G/6G/12G-SDI digital component video	
Re-clocking		Automatic for 270 Mbps, 1.485 Gbps, 2.97 Gbps, 5.94 Gbps, and 11.88 Gbps (bypassed for all other rates)	
AUDIO			
Audio channels		Supports up to 16 channels	
GENERAL			
Power supply		External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 0.5 A, 6 watts	
Power input requir	ements	12 VDC, 0.2 A, 2.4 watts	
		1.0" H x $2.2"$ W x $3.0"$ D (quarter rack wide) (2.5 cm H x 5.6 cm W x 7.6 cm D) (Depth excludes connectors.)	
Product weight		0.2 lbs (0.1 kg)	
		CE, c-UL, UL, FCC Class A, VCCI, AS/NZS, ICES	
		3 years parts and labor	
Everlast power sup	opiy warranty	7 years parts and labor	
Model 12G HD-SDI 101	Version Description 12G-SDI Cable Equalizer		Part number 60-1673-01

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

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