

GLI 2000 2BNC

Heavy Duty S-Video and Composite Video Ground Loop Inhibitor

UNIQUE FEATURES

- For S-video and composite video signals
- Inputs: Two female BNC connectors
- Outputs: Two female BNC connectors
- 100 MHz (-3 dB) video bandwidth



GLI 2000 5BNC

Heavy Duty RGBHV Ground Loop Inhibitor

UNIQUE FEATURES

- For RGBHV through composite video signals
- Inputs: Five female BNC connectors
- Outputs: Five female BNC connectors
- 425 MHz (-3 dB) video bandwidth



COMMON FEATURES

- Proven and reliable passive technology
- High core saturation voltage effectively eliminates hum bars and common-mode noise caused by ground loops
- Rugged, rack-mountable, metal enclosure with protective guard rails
- 10-2000 kHz horizontal frequency range
- No external power required
- Multi-video format compatible

DESCRIPTION

The Extron **GLI 2000 Series** of heavy duty Ground Loop Inhibitors offer reliable, simple solutions for A/V system ground loop problems. The GLI 2000 Series' compact design and rugged construction make them ideal solutions for staging applications where mobility and ease of handling are required. Each model comes standard with protective rails which guard connectors from damage. This flexibility in design allows them to be mounted virtually anywhere including in a rack or road case, near the projector, or in/under furniture.

The GLI 2000 series is available in two models: a five-BNC version for all signal types from RGBHV down to composite, and a two-BNC version for S-video and composite video. GLI 2000 Series products are able to handle even the highest frequency signals and various cable lengths without signal degradation.

GLI 2000 Series products are designed for applications that experience ground loop and interference problems, such as those found in convention centers, hotels, or other large buildings. These problems occur when separate grounds, carrying different loads, are "looped" together by sources and displays within an A/V system, resulting in hum bars — 50- or 60-cycle noise. Hum bars can be described as thick, horizontal background bars rolling vertically through the displayed image. This problem is most common when a projector and its signal source(s) are powered from two different power-ground systems that are separated by significant distance. One solution is to have all system components powered from the same ground, but this is not always a possible or cost-effective solution. The GLI 2000 Series can save hours of troubleshooting and unnecessary rewiring by providing video hum suppression for systems where it is impractical to connect all equipment to the same ground — virtually eliminating hum bars, common-mode noise, and other visible effects caused by improper grounding in video systems.

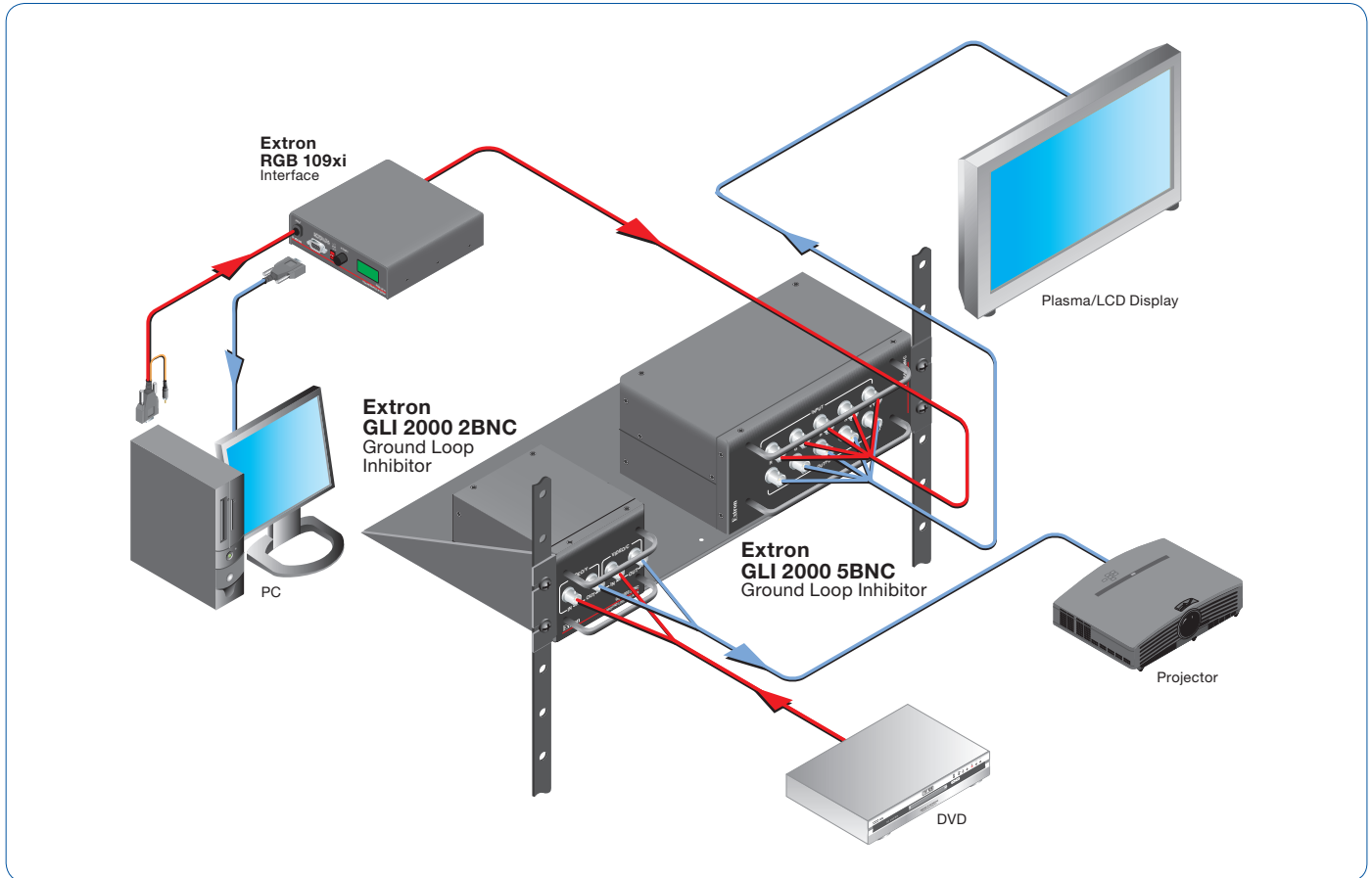
The GLI 2000 family of products uses proven passive technology and high performance components that provide high core saturation voltage capabilities for even the worst ground loop problems. The GLI 2000 Series products do not require an external power supply as they are non-powered. This enables them to be added anywhere in a system. By using innovative technology, the GLI 2000 Series is effective in solving the majority of video grounding problems.

MODEL	VERSION DESCRIPTION	PART #
GLI 2000 2BNC	GLI with 2-BNC Connectors	60-603-01
GLI 2000 5BNC	GLI with 5-BNC Connectors	60-601-01

OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
RSU 249	2U 9.5" Deep Universal Rack Shelf Kit	page 820	60-032-01
RCAF-BNCM/10	RCA Female to BNC Male Adapter - Qty. 10	page 791	100-229-01
SVHSM-BNCF 8" (20 cm)	S-Video Male to 2 BNC Female Adapter	page 795	26-353-01
SYM BNCM/6	15-pin HD Male to BNC Male Mini High Resolution Cables	page 776	26-533-02

Continued →

GLI 2000 Series



SPECIFICATIONS

VIDEO

Gain	Unity
Core saturation voltage	>10 V. See the Extron Web site for details on core saturation test conditions.
Bandwidth	
GLI 2000 5BNC	>425 MHz (-3 dB) for RGB, >200 MHz (-3 dB) for HV
GLI 2000 2BNC	>100 MHz (-3 dB)
CMRR	
GLI 2000 5BNC	>58 dB @ 50 Hz or 60 Hz
GLI 2000 2BNC	>53 dB @ 50 Hz or 60 Hz

VIDEO INPUT

Number / Signal type	
GLI 2000 5BNC	1 VGA-UXGA RGBHV, RGBS, RGsB, RsGsBs
GLI 2000 2BNC	1 S-video or 2 composite video
Connectors	
GLI 2000 5BNC	5 female BNC
GLI 2000 2BNC	2 female BNC
Nominal level	1 Vp-p for Y of S-video, and for composite video 0.7 Vp-p for RGB 0.3 Vp-p for C of S-video
Minimum / Maximum levels	Analog: -15 V to +15 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency	10 kHz to 2000 kHz
Vertical frequency	15 Hz to 180 Hz

RETURN LOSS

GLI 2000 5BNC	<-27 dB @ 1 MHz to 100 MHz
GLI 2000 2BNC	<-28 dB @ 1 MHz to 100 MHz

VIDEO OUTPUT

Number / Signal type	
GLI 2000 5BNC	1 VGA-UXGA RGBHV, RGBS, RGsB, RsGsBs
GLI 2000 2BNC	1 S-video or 2 composite video
Connectors	
GLI 2000 5BNC	5 female BNC
GLI 2000 2BNC	2 female BNC
Nominal level	1 Vp-p for Y of S-video, and for composite video 0.7 Vp-p for RGB 0.3 Vp-p for C of S-video
Minimum / Maximum levels	Analog: -15 V to +15 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency	10 kHz to 2000 kHz
Vertical frequency	15 Hz to 180 Hz
Return loss	<-30 dB @ 0 to 100 MHz
DC offset	±10 mV maximum

SYNC (GLI 2000 5BNC, UNLESS OTHERWISE INDICATED)

Input type	RGBHV, RGBS, RGsB, RsGsBs
Output type	RGBHV, RGBS, RGsB, RsGsBs
Standards (GLI 2000 2BNC)	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level	-15 V to +15 Vp-p
Output level	-15 V to +15 Vp-p, unterminated
Input impedance	75 ohms
Output impedance	75 ohms
Max. propagation delay	
GLI 2000 5BNC	26 ns
GLI 2000 2BNC	52 ns
Polarity	Positive or negative (follows input)

GENERAL

Power	Not powered
Temperature / Humidity	Storage: -40° to +158°F (-40° to +70°C) / 10% to 90%, non-condensing Operating: +32° to +122°F (0° to +50°C) / 10% to 90%, non-condensing
Rack mount	Yes, with optional 2U rack shelf
Enclosure type	Metal
Enclosure dimensions	
GLI 2000 5BNC	3.4" H x 8.6" W x 5" D (2U high, half rack wide) 8.6 cm H x 21.8 cm W x 12.7 cm D
GLI 2000 2BNC	3.4" H x 4.3" W x 5" D (2U high, one quarter rack wide) 8.6 cm H x 10.9 cm W x 12.7 cm D (Depth excludes connectors/guards and handles)
Product weight	
GLI 2000 5BNC	6.2 lbs (2.8 kg)
GLI 2000 2BNC	3.1 lbs (1.4 kg)
Shipping weight	
GLI 2000 5BNC	10 lbs (5 kg)
GLI 2000 2BNC	5 lbs (3 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances	CE
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%. Specifications are subject to change without notice.

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