Extron® Electronics INTERFACING, SWITCHING AND DISTRIBUTION



User's Guide



GLI 2000 5BNC GLI 2000 2BNC

Passive Ground Loop Inhibitors

Introduction

The GLI 2000 5BNC and GLI 2000 2BNC are heavy-duty, passive ground loop inhibitors. Ground loop inhibitors eliminate hum bars (as shown below) and common mode noise caused by improper video equipment grounding. Ground loop problems can be caused by using AC power sources with different ground levels or by plugging high-current equipment into the same power source as video equipment.



Hum bars

The GLI 2000 series consists of the following models:

GLI 2000 5BNC — The GLI 2000 5BNC inhibits ground loops on RGBHV, RGBS, RGsB, or RsGsBs video signals. The unit has five female BNC connectors for input and five for output.

GLI 2000 2BNC — The GLI 2000 2BNC inhibits ground loops on S-video or composite video signals. The unit has two female BNC connectors for input and two for output.

Both models feature high bandwidth, high core saturation voltage to handle even the worst ground loop problems, and guardrails to protect the connectors.

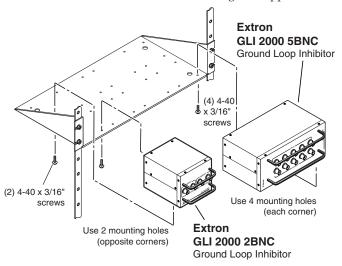
Installation

The GLIs can be mounted on a standard universal 2U rack shelf.

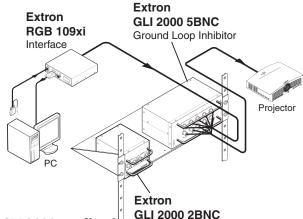
Rack mounting

Mount the GLIs on a standard universal 2U rack shelf (Extron part #60-032-01). The GLI 2000 5BNC mounts in one of four locations at the front or the rear of the rack. The GLI 2000 2BNC mounts in one of eight locations at the front or rear of the rack.

- Remove rubber feet if they were previously installed on the bottom of the GLI.
- 2. To mount the GLI 2000 5BNC on the shelf, use four 4-40 x 3/16" screws in the corners to secure the GLI to the shelf.
 - To mount the GLI 2000 2BNC on the rack shelf, use two $4-40 \times 3/16$ " screws in opposite (diagonal) corners to secure the GLI to the shelf.
- 3. Install blank panel(s) or other unit(s) on the rack shelf.
- 4. Attach the rack shelf to the rack using the supplied bolts.



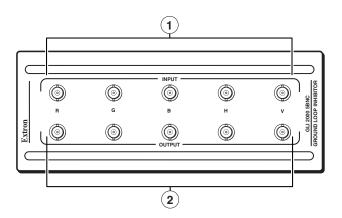
Mounting the GLI on a standard 2U rack shelf



Typical GLI 2000 application Ground Loop Inhibitor

Connections

GLI 2000 5BNC



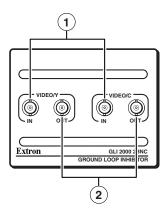
GLI 2000 5NBC connectors

- 1 Input connectors Connect an RGBHV, RGBS, RGsB, or RsGsBs video source to these five BNC connectors.
- **Q** Output connectors Connect an RGBHV, RGBS, RGsB, or RsGsBs video display to these five BNC connectors.



The H and V channels on the GLI 2000 5BNC have a bandwidth of 200 MHz, rather than 425 MHz, and should not be used for high-resolution signals.

GLI 2000 2BNC



GLI 2000 2NBC connectors

- 1 Input connectors Connect an S-video source or two composite video sources to these two female BNC connectors.
- **Quit Connectors** Connect an S-video display or two composite video displays to these two female BNC connectors.

Specifications

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NOTE See the Extron Web site for details on core saturation test conditions.

Bandwidth

GLI 2000 5BNC >425 MHz (-3dB) for RGB, >200 MHz

(-3dB) for HV

GLI 2000 2BNC >100 MHz (-3dB)

CMRR

Video input

Number/signal type

Connectors

GLI 2000 5BNC 5 female BNC GLI 2000 2BNC 2 female BNC

video

0.7V p-p for RGB 0.3V p-p for C of S-video

Minimum/maximum levels Analog: -15V to +15V p-p with no offset

Impedance 75 ohms

Horizontal frequency 10 kHz to 2000 kHz Vertical frequency 15 Hz to 180 Hz

Return loss

Video output

Connectors

GLI 2000 5BNC 5 female BNC GLI 2000 2BNC 2 female BNC

DC offset ±10 mV maximum

Sync — GLI 2000 5BNC unless otherwise indicated

Input level -15V to +15V p-p

Max. propagation delay

GLI 2000 2BNC 52 ns GLI 2000 5BNC 26 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,

part #60-032-01

Enclosure type Metal

Enclosure dimensions

GLI 2000 5BNC 3.4" H x 8.6" W x 5" D (2U high, half rack

width)

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 width)

8.6 cm H x 10.9 cm W x 12.7 cm D (Depth excludes connectors/guards and

handles.)

Specifications, cont'd

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/NSTA 1A in carton (International Safe				
	Transit Association)				
Listings	UL, CUL				
Compliances	CE				
MTBF	30,000 hours				
Warranty	3 years parts and labor				

NOTE

Specifications are subject to change without notice.

Part Numbers

GLI 2000 5BNC	60-601-01
GLI 2000 2BNC	60-603-01

Optional Accessories

2U rack shelf	60-032-01
BNCM-RCAF adapter	10-264-01
SVHSM-BNCF adapter	26-353-01
SY 15 VGAM-RGBHVM 6'	26-533-02
SY MAC/QUADRA 35 6'	26-171-01
SU 13W3-61	26-241-01