



polistream G3500

SDI Graphics Inserter

Function

Direct in-line two-layer 10-bit SDI graphics insertion

Features

- 2 Independently controllable graphic layers allowing simultaneous subtitle and logo insertion
- Maximum of 32 graphic cells (frames) per layer at full-screen size (720 x 576 pixel resolution)
- Optionally up to 512 graphic cells (frames) per layer at 256 x 256 pixel resolution
- Layer specific graphic fade in and out function available
- 5 Configurable GPI controlled functions
- Power fail SDI input bypass relay
- All ancillary and VBI data (e.g. embedded audio) from the SDI input is passed through transparently
- Remote configuration and unit upgrade via Ethernet

Video signal connectors

7 x 75Ω panel mounting BNC

SDI video format – input and output

Serial digital component ANSI/SMPTE 259M-C
625 and 525 line format supported (auto switching input)

SDI video output specifications

Output drive: 200m+ of BELDEN 8281 cable
Output jitter: < 704ps
Input to output delay: 600ns (8 pixels)

SDI video connections

1 x video input
1 x video output (input loop-through)
1 x video output (with power fail bypass)
1 x video output (direct - no power fail bypass)

Analogue video format – input and output

Analogue composite 1V pk to pk (PAL & NTSC)

Analogue video connections

1 x VITC / sync reference input
2 x monitor outputs

LTC time code input

LTC - line-level audio signal input on 75Ω BNC

Ethernet connection

100BASE-TX Ethernet RJ45 connector

Control

All G3500 unit configuration and operation is done via the Ethernet and GPI connections directly from a controlling PC or application and there are no user configurable switches, links or front panel controls

GPI connections

1 x 25 way D type (female) connector

Pin	Function	Pin	Function
10	GPI - 1	25	+5V (200mA max)
23	GPI - 2	13	Ground
11	GPI - 3		
24	GPI - 4		
12	GPI - 5		

Indicators

3 x Front panel system status LEDs
7 x Rear panel signal status LEDs

Physical

Unit dimensions: 483 x 445 x 44.5 mm (W x D x H)
1RU standard 19in rack-mounting

Shipped dimensions: 590 x 580 x 110 mm (W x D x H)

Approx unit weight: 3.1 Kg

Approx shipped weight: 4.8 Kg

Mains input details

- Panel mounted 3 pin IEC with integral fuse holder
- 100 to 250 VAC
- 47 – 63 Hz

Power consumption (measured) @ 240V

Typically: 40 W

Environmental information

- Dual fans with side-to-side air flow exiting on LHS (viewed from front)
- 0°C to 30°C (at a relative humidity not exceeding 90% non-condensing)

Electro-magnetic compliance & Safety

EN55022 Class A (emissions)
EN50082-1 (immunity)
ENBS60950 (safety)

Custom configuration options

- 1 x Serial Ports (RS232 or RS422)
- GPO Alarm outputs and GPI function configurations

