

# 570TG-100G

HD/3G/4K/UHD IP-Based SMPTE ST 2110 Test Signal Generator



The **570TG-100G** is a 16-channel test signal generator. As part of Evertz' Software Defined Video Networking solution, the 570TG is an IP-based generator with 100GbE I/O for HD/3G/4K/UHD test generation applications in IP-based environments. Each channel supports IP SMPTE ST 2110-20 HD/3G/4K/UHD video with up to 16x channels of audio per channel, in up to 4x streams of ST 2110-30 audio per channel.

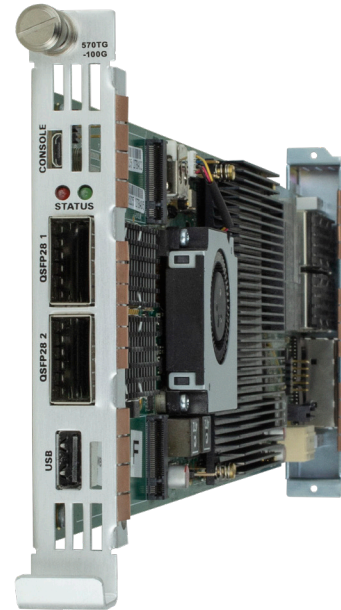
Content for test signals are stored on the unit and new logos can be loaded via the website. The 570TG can be controlled externally with native webpage, **VUE**, Evertz' customizable user interface and/or by third-party automation system over IP. The 570TG is **VistaLINK® PRO**-capable, offering remote monitoring, control and configuration capabilities via Simple Network Management Protocol (SNMP).

## Broad Support of Standards

- SMPTE ST 2110, including SMPTE ST 2059 for PTP timing
- SMPTE ST 2110-30 audio, levels A and B
- Support for receiving gear to have multi-path merge based on SMPTE ST 2022-7
- NMOS 4, 5 for discovery, routing with SDP files

## Video Formats

- 720p/1080i @ 60, 59.94, 50, 30, 29.97, 25, 24, 23.98
- 1080p @ 60, 59.94, 50
- 2160p @ 60, 59.94, 50, 30, 29.97, 25, 24, 23.98



SMPTE color bar test pattern, 16:9 aspect ratio.

## Features & Benefits

- 16x HD/3G/4K/UHD independent test signals
- 16x different tone generations available for 16x channels of audio (up to 4x streams)
- Timecode burn-in
- YCbCr 4:2:2 10-bit patterns
- 4K/UHD — single/2SI/SQD
- SMPTE ST 2110 Narrow, Narrow Linear, Wide
- HDR encoded stream
- On-screen display, built-in storage for large number of test signal storage, NMOS 4, 5 compliant

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## Specifications

### Video Interfaces:

Video Encapsulation: SMPTE ST 2110-20  
Audio Encapsulation: SMPTE ST 2110-30  
Metadata Encap.: SMPTE ST 2110-40

### Reference:

SMPTE ST 2059

### Ethernet Interface:

- 4x QSFP28
- 2x RJ-45 (10/100/1000)

### Data Format:

Ethernet/IP/UDP

### Physical:

Number of Slots: 2

### Enclosures:

570FR: 15-slot 3RU chassis  
S570FR: 4-slot 1RU chassis

## Ordering Information

### 570TG-100G

HD/3G/4K/UHD IP-based SMPTE ST 2110 test signal generator, with web and VistaLINK® PRO support, designed for core IP environments

### QSFP Options:

**QSFP25G-SM-PSM4-LR-G-NFEC** 100G QSFP, 4-channel 1310nm, MPO/APC connector, 10km

**QSFP25G-MM-M** 100G QSFP, 4-channel 850nm multi-mode

**QSFP-10G-TR13-G** 40G PSM LR4 10km QSFP+ optical transceiver

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