TG-5120 Multi-Format SD/HD-SDI Pattern Generator + Voice

MAXTRON VIDEO PRODUCTS

General:

The TG5120 is a full featured, multi-pattern, multi-format, SMPTE 259M/292M SD/HD-SDI test signal generator with embedded 16-Channel voice ID's and audio tones. The TG-5120 expands upon the Maxtron TG-5100 series of test pattern generators with new patterns and the addition of Standard Definition NTSC and PAL SDI formats. Embedded voice tags repeat the channel ID every 15 seconds, leaving no doubts or confusion about which audio channel is being monitored. The inclusion of digitally generated, standard level 1kHz(R)/440Hz(L) audio tones, within each group permit very accurate system leveling checks. Both the US -20dBFS and European -18dBFS reference levels are supported via internal jumper.

The pattern lineup for the TG-5120 includes new patterns, one specifically designed for the emerging 3D video applications, and new Cr and Cb ramps. Others patterns include the moving zoneplate which is used to expose video compression and scaling artifacts and the pathological pattern which is used to stress the SDI receiver PLL's in the signal path. There is a traveling wizard that moves, in a ping-pong fashion, about the screen to reveal dropped or repeated frames or frozen video in frame stores and MPEG encoders. Also included is a proprietary A/V Sync video flash pattern with coincident gated audio designed to permit measuring the exact system audio-video delay.

Rugged and durable, the TG-5120 is available with an optional internal Lithium-ion battery pack. It is housed in a mechanically strong, extruded aluminum box, with laser cut openings. Pattern and format selects use push-wheels that are not prone to being accidently changed and always indicate the exact status of the generator.

- 2 SMPTE 259M/292M compliment outputs
- 10 patterns, including 4-pixel checkerboard for 3D applications
- 2 SD formats and 8 HD formats
- Full 10/20-bit pattern generation
- 16-Channel embedded audio with voicing and tones
- Designed for Portable or Bench applications with lab quality signals
- Extremely small size - 4 x 2.5 x 1.25 inches
- 100-120VAC external power supply included
- Optional Internal Li-ion Battery Pack available • Factory install only • Order TG-5120B
- Optional 9-28VDC Power Adapter • Order PS-1520

Patterns A/B:
- RP219 with Moving Wizard/+Circle
- Full Field 75% Color bars/+Circle
- Moving Zoneplate
- Red/Cr Ramp
- Green/Checkerboard
- Blue/Cb Ramp
- White/10 Stairstep
- Black/Y Ramp
- Pathological/A/V Sync Flash
- Convergence/+Circle

Formats:
- 486i59.94 (NTSC)
- 576i50 (PAL)
- 720p59.94
- 1080i59.94
- 1080p29.97
- 1080p24
- 1080(sF)24
- 1080p25
- 1080(sF)25
- 1080i50