P TG 3610 B "*Testor*"

SD/HD Video & AES Test Generator

Processing

Description

The P TG 3610 B Testor is a versatile multi-rate video and AES test generator which can generate video test signals in 525/625 plus (HDTV formats. Provides 2 independent simultaneous video outputs. Also provides 4 channels of external AES plus embedded audio with adjustable frequency, audio gain and selectable momentary pause (silence) for left and right channels. Additional test patterns can be loaded via the compact flash slot (option) and even user defined using the standard DPX file format. Each output can have an independent user defined character overlay. The module has an integrated display and menu system for local control and setup. All settings are stored in Flash RAM and will survive power cycles and long term storage. PC remote control and status monitoring possible when used with one of the available controller options.

Key Features

Multirate operation from SDTV to HDTV in one unit.

Includes a library of standard static and dynamic video test patterns.

Compact flash slot option for loading user defined patterns (DPX file).

4 x external AES and embedded audio test signals.

AES outputs transformer coupled.

Adjustable AES tone frequency with selectable left / right channel pause.

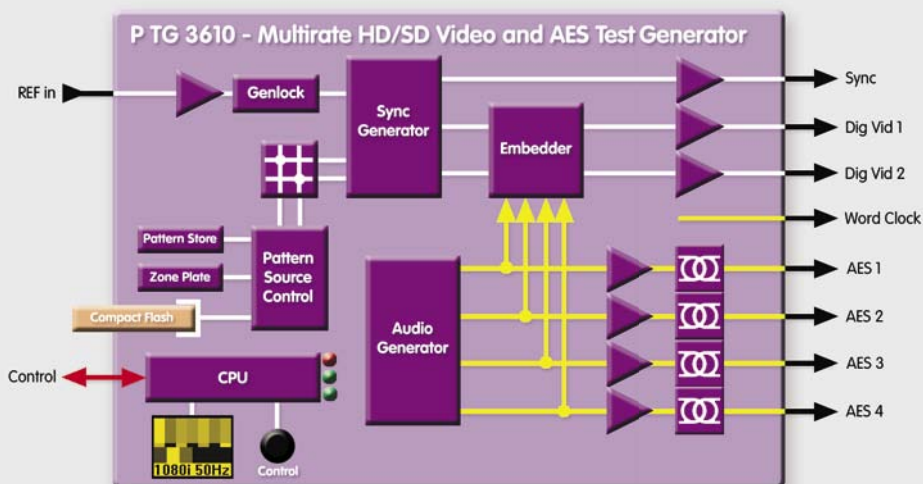Adjustable AES full scale level. (0dB FS to -60dB FS)

2 simultaneous test pattern outputs (user selectable).

Character overlay (22 characters max) Color and position user definable.

Genlock + crosslock capability with tri-level sync output and adjustable timing.

Microprocessor controlled with local display and set-up menus.

Remote control interface.

P TG 3610 - Multirate HD/SD Video and AES Test Generator

Actual Size

LYNX
TECHNIK AG

SD/HD Video & AES Test Generator

Specifications

Video Standards

SDTV	**525** 59.94Hz, **625** 50Hz
HDTV	**1080i** 60Hz / 59.94Hz, / 50Hz,
	720P 59.94Hz / 60Hz/ 50Hz / 29.97Hz
	30Hz / 25Hz / 23.98Hz / 24Hz
	1080P / 25Hz / 23.98Hz / 24Hz
	29.97Hz / 30Hz
	1080PSF / 25Hz / 23.98Hz / 24Hz

Inputs

Bi-level or tri-level analog sync.

Outputs

2 x Digital Video outputs
Analog Sync output (bi level or tri level)
4 x AES AES3id on 75 Ohm BNC
48KHz Word Clock reference

Test Signals

Static: Full Field Red, Green, Blue, Yellow,
Cyan, Magenta, White
Pathological EQ , Pathological PLL
Y-Ramp, CB-Ramp, CR-Ramp
YCBCR-Ramp, Y Staircase
Pluge, 100% Full Field Color bars
75% Full Field Colorbars,
75% Colorbars over Red,
SMPTE-Bars, SMPTE RP 219 Bars,
100% window (color temp),
Field 1 / Field 2 Test, 15% Grey
Multiburst, Frequency Sweep
Center Sweep, Convergence Grid
Static Zoneplate (chroma or luma)

Dynamic: Zoneplate (chroma or luma).
IRT Audio Synchronization.
LCD Panel Persistence Test.

Test Signals (continued)

Website   Download additional patterns from the LYNX
website (requires PTG FLASH option)
User   User defined image / pattern as standard
DPX file (requires PTG FLASH option)

Genlock

Free Run / Frequency Lock and Timing lock
modes. Reference in automatically detected.
Cross lock compatible

Timing

One frame adjustable sync + video output
timing in lines and pixels.

Character Overlay

Each video output can have a user defined
ASCII text overlay up to 22 characters.
Position and colors can be changed.

Audio Test Generator

Four external AES/EBU channels (20/24 bit
48KHz).
Adjustable frequency 20Hz - 20KHz in 1 Hz
steps for each channel.
Selectable momentary pause (silence) for
left or right channel.
Adjustable audio gain for each channel
(0dB to -60dB FS).
Adjustable phase for each channel.
Each audio channel is locked to reference
input.

Embedder

Audio is embedded into all 4 audio groups
(16 channels) on both SDI outputs.

Sync Output

Tri-level or Bi-Level analog sync output is
provided.

Options

Power Options

R PS 3001 E/U
Wall Mount Brick
AC Power Supply.

R PS 3001-3
In Line Brick AC
Power Supply.

R PS 3100
Rechargeable
battery belt pack.

R FR 3002
Anton Bauer Battery
adapter plate.

R PS XLR
XLR Camera Battery
Adapter (9-14VDC)

Other Options

P TG FLASH
Compact flash slot
enable code

R CT 3002
USB Service Adapter
& PC Control Software

Mobile User ? - Protect Your Investment

Choose one of these compact, rugged cases. Both have the Testor
securely mounted and protected. (Operated while in the case).

Complete Self Contained Mobile Solutions !

Airtight, watertight and rugged, these cases can take abuse.
Ideal for outside broadcast or the mobile video engineer.

RFR 3600
**Integrated AC Power
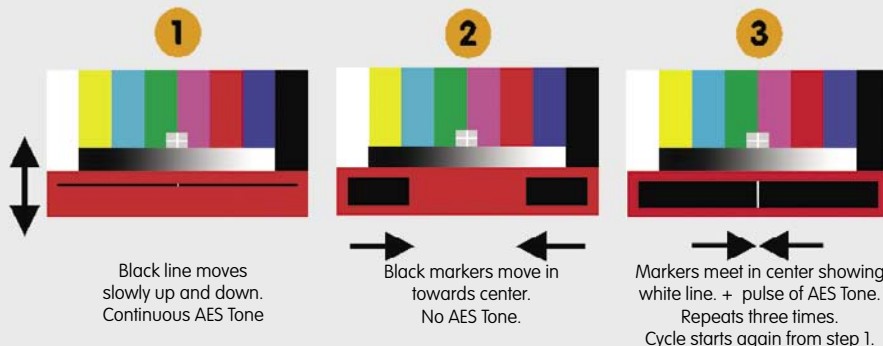Integrated USB port
Ext DC IN Connection**
(for external RPS 3100
battery or RPS XLR adapter)

RFR 3610
**Integrated AC Power
Integrated Battery**
(6 hour runtime)
**Integrated Charger
Integrated USB port**

Genuine custom **PELICAN** cases

Audio Synchronization

The IRT audio synchronization pattern is dynamic and useful for audio timing / lip sync. An audio visual cue
similar to a clap board is provided. This pattern is supplied as standard and is available for standard 4:3 SDTV
use as well as in 16:9 HDTV mode.

1 Black line moves
slowly up and down.
Continuous AES Tone

2 Black markers move in
towards center.
No AES Tone.

3 Markers meet in center showing
white line. + pulse of AES Tone.
Repeats three times.
Cycle starts again from step 1.

Character Overlay

LYNX PTG

- User defined Text (22 chars max).
- User defined position.
- User defined background color
  (or transparent)
- User defined text color.