

PTG 3610 D

Processing

P TG 3610 D "Testor"

SDTV / HDTV

SERIES 3000

MiniModules

PROCESSING

SD/HD Video & AES Test Generator

Description

The P TG 3610 D 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 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)

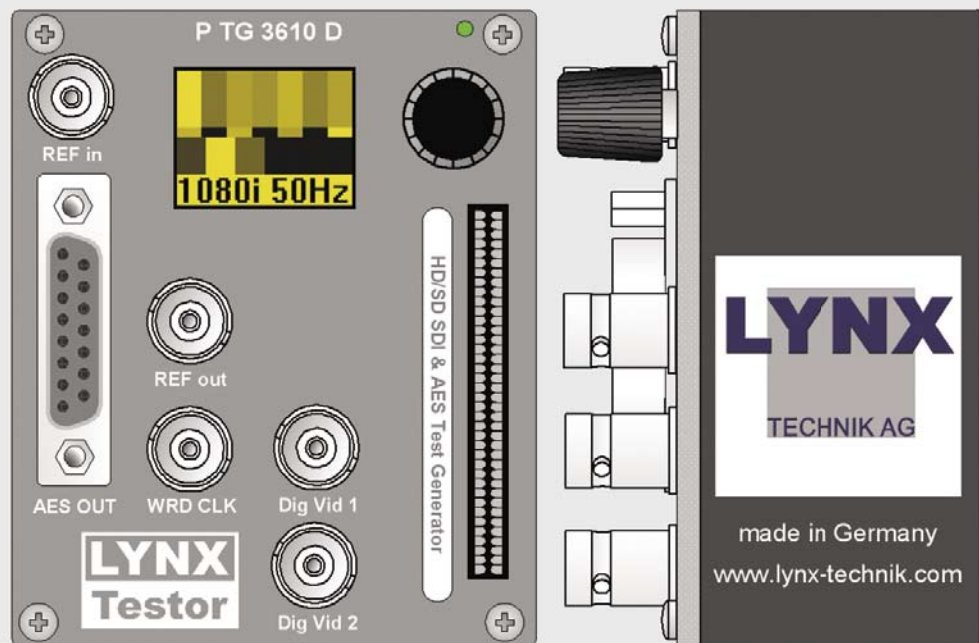
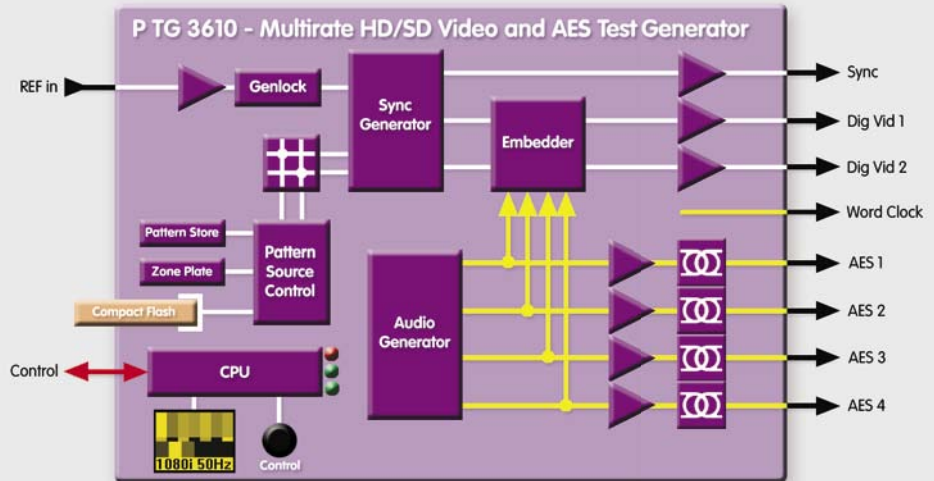
2 simultaneous test pattern outputs (user selectable).

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.



Actual Size

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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 Balanced AES on 15 pin female SubD
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
YBCR-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 web site (requires PTG FLASH option)
User User defined images / patterns as standard DPX files (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



R AC M15-4

15 Pin SubD to
4 x inline male XLRs



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

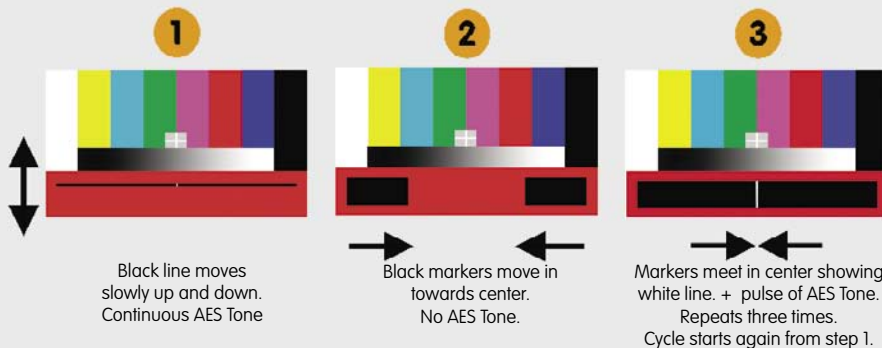
Integrated AC Power
Integrated Battery
(6 hour runtime)
Integrated Charger
Integrated USB port



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.



Character Overlay



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

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