



## ANALOG SYNC GENERATOR 812-OP/G



### For Future Generations

The SPG-812 analog test set (812AT or OP/G) is an important element of the GenFlex family of products. The SPG-812 analog test set module allows the user to select from sixteen (16) different video test patterns by a front panel switch or through a remote control unit, the SPG-812TRC. These patterns are produced in any one of four (4) possible formats:

1. Composite video plus a Y/C pair.
2. SMPTE Component video: Y-Pr-Pb.
3. Red, Green, and Blue. (RGB).
4. Green + Sync, Blue, and Red.

All patterns are produced at 10-bit resolution and use high-performance hybrid post-filters with integral output amplifiers. Both NTSC and PAL video standards are supported.

When genlocking to incoming video, the SPG-812 chassis will have either an analog (812AG or OP/C) or a digital genlock module (812DG or OP/D) installed in the bottom slot next to the power supply. The Genlock module places the required timing pulses on the motherboard buss to allow each subsequent module to lock to a single reference. The analog test set offers "infinite window" timing of horizontal and vertical as well as 360° subcarrier phasing. Timing information is stored in battery-backup RAM within the unit's onboard microcontroller.

The PCO-818 automatic pulse change-over modules operate as independent or synchronized operation. Two PCO-818 change-over chassis may be interlinked to cause all modules to switch should a failure occur in the master generator.

The analog test set module may be installed in any slot within the SPG-812 chassis except for the slot dedicated to the audio module. If the 812AT is installed in the "Genlock Module or Master" slot, it will serve as the master timebase for all other modules in the chassis, and the overall unit would have no genlocking capability. The SPG-812 analog test set uses a single 2-bit mechanical encoder to control all module functions including system timing and pattern selection. An eight-character alpha-numeric display provides a menu of options for each module parameter.

The 812-OP/G is the plug-in module that provides 16 analog test signals. The test signals are:

- 1) 100% color bars
- 2) 75% color bars
- 3) SMPTE color bars
- 4) 5-Step modulated stairstep
- 5) 5-step un-modulated stairstep
- 6) modulated ramp
- 7) un-modulated ramp
- 8) 2T/12.5T pulse & bar
- 9) field square wave
- 10) SDI pathological pattern
- 11) 50% multiburst
- 12) 100% line sweep
- 13) red field
- 14) shallow ramp
- 15) gray
- 16) black.

# 812-OP/G ANALOG TEST GENERATOR

## SPECIFICATIONS

### ANALOG VIDEO OUTPUTS:

#### Formats:

Composite video and S-video (Y/C): ..... BNC Connector Shared with Composite Video  
Component analog video (SMPTE Y, Pb, Pr): ..... BNC Connectors  
Red, Green, Blue (RGB): ..... BNC Connectors  
Red, Green + Sync, Blue (RGsB): ..... BNC Connectors

#### Performance

Video Standard: ..... NTSC/PAL Selectable  
Connector: ..... 75Ω BNC  
Signal-to-Noise Ratio: ..... -70dB, A Weighted  
Output Return Loss: ..... -40dB@ 3.5MHz  
Differential Phase: ..... 0.5°, Typical  
Differential Gain: ..... 0.9%, Typical  
Luminance Rise Time: ..... 140ns ±20ns  
Group Delay: ..... ±5ns  
Frequency Response: ..... 0.1dB to 5.5MHz  
Generator Bit Resolution: ..... 10Bit  
Generator Sample Rate: ..... 13.5MHz Luminance, 6.75MHz Chroma

### PHASING CONTROLS:

Horizontal Phasing ..... Infinite Window  
Resolution ..... 37nS/ Increment  
Vertical Phasing ..... Infinite Window  
Resolution ..... 1 line or 63.5 uS/ Increment

### REFERENCE INPUTS:

Signal Type ..... Horizontal Blanking ,Vertical Blanking, Field Identification

### ENVIRONMENTAL:

Temperature ..... 0 to 50 C ambient  
Humidity ..... 10% to 90% non-condensing  
Power ..... 4.2 Watts

### MECHANICAL:

Length ..... 10.0"  
Width ..... 4.27"  
Weight ..... 8 oz.

### FRONT PANEL LED INDICATORS:

Power ..... Green/In the pattern select switch  
H-Lock ..... Green/horizontal is locked to incoming H/Red horizontal is unlocked  
NTSC ..... Green/SW1 is selecting NTSC  
PAL ..... Yellow/SW1 is selecting PAL

**LINK ELECTRONICS, INC.**

2137 Rust Avenue  
Cape Girardeau, MO 63703  
Phone: 573 334 4433  
FAX: 573 334 9255

**PROFESSIONAL SERIES--**

**modular system products--by LINK**

## Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>