yellobrik® SPG 1707

HD / SD Sync Pulse Generator with Genlock

- Wide variety of HDTV Sync standards
- Simultaneous HD and SD analog sync outputs
- 3 x HD sync outputs and 3 x SD sync outputs
- Genlock with cross lock to any sync standard
- Sync only, Color bars or Black Burst for SD sync
- NTSC, PAL or PAL M/N sync outputs
- Burst phase adjustment for NTSC and PAL sync
- 48KHz Word Clock or DARS audio reference output
- Simple to use, all controls easily accessible

The SPG 1707 is a compact, versatile analog sync pulse generator with genlock providing HD / SD video sync and audio reference signals. The module provides three SD sync outputs and three HD sync outputs and a separate audio sync output that can be switched between 48 KHz World Clock or Digital Audio Reference (DARS).

Flexible genlock capability allows the module to genlock to any SD or HD reference input, with full cross lock capability, even across unmatched standards.

The HD tri-level sync outputs can be set to any of the available HD standards, and the bi-level SD outputs set for NTSC, PAL or PAL M/N. The SD and HD sync outputs and audio sync signals are all frequency locked to the reference regardless of the selected sync standard for the outputs.

The SD sync outputs can be Color bars, Black Burst or Sync only with selectable 7.5 IRE pedestal for NTSC standards with adjustable burst phase in 8 increments.

The sync generator is robust and temperature stabilized, making it suitable as a reference source with 2ppm accuracy.

All user controls are located on the top of the module clearly labelled and easily accessible. This facilitates simple changes to module function and configuration without referring to a manual.

The compact portable design makes it suitable for a wide range of applications in broadcast and mobile production environments.

Note: 1080p 50Hz / 60Hz and 59.94Hz sync standards not supported

Technical Specifications

HDTV Sync	3 x Tri-level HD Analog Sync outputs
	Standards: **1080i** /50Hz / 59.94Hz / 60Hz. **1080p** / 23.98Hz / 24Hz / 25Hz / 29.97Hz / 30Hz. **720p** / 23.98Hz / 24Hz / 25Hz / 29.97Hz / 50Hz / 59.94Hz. **1080psf** / 23.98Hz/24Hz **Note:** 1080p 50Hz/60Hz is not supported and 720p 30Hz/60Hz is not supported, but the .001 derivatives are supported
	SMPTE 274M, SMPTE 296M
	Selectable via integrated 16 position rotary switch
	Return Loss > 40dB up to 5MHz. SNR > 75dB
SDTV Sync	3 x Bi-level SD sync outputs
	Standards: NTSC, PAL, PAL M/N
	SMPTE 170M, ITU-R BT 470.6
	Selectable: 75% color bars / black burst / sync only
	NTSC 7.5 IRE pedestal ON/OFF
	Adjustable burst phase in 8 increments
	Return Loss > 40dB up to 5MHz. SNR > 75dB
Ref Sync Input	Bi-level or tri-level analog sync
	Cross lock compatible to 525 and 625 SD sync and all HD sync standards (excluding 1080p 50/60/59.94Hz)
	SMPTE 274M, SMPTE 296M
Audio Ref.	Selectable 48KHz Word Clock or DARS
	DARS: SMPTE 276M unbalanced AES (24-bits) - Grade 2
	48KHz Word Clock: 0 - 5.0V
Accuracy	2 ppm
Power	+12VDC @ 2.3W nominal - (supports 7 - 17VDC input range)
USB	Mini "Type B" connection for firmware upgrades
Physical	Size: 140mm x 90mm x 22mm (5.51" x 3.34" x 0.86") including connectors Weight: 300g (10.6oz)
Ambient	5 - 40ºC (41 - 104ºF) 90% Humidity (non condensing)
Model #	SPG 1707 - - (EAN# 4250479317079)
Includes	Module, AC power supply

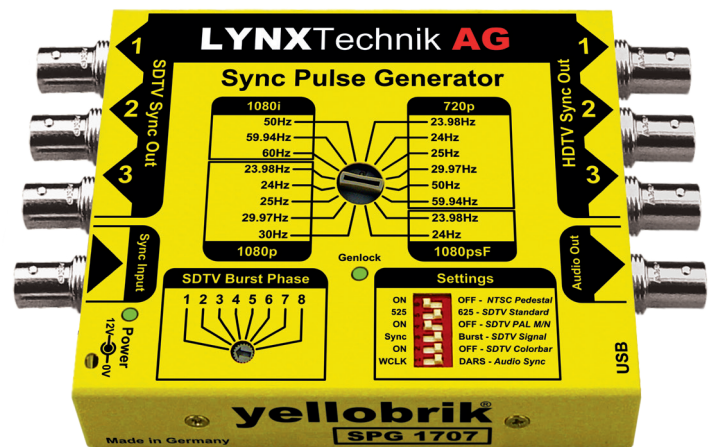Specifications subject to change

Power Adapter Options

The kit **INCLUDES** AC power supplies. The power adapters below are optional.

P-TAP 1000
Use with a standard battery P-TAP power source.

XLR 1000
Use with a standard 4 pin XLR camera battery power source.