

Tri-/Bi-Level Sync Pulse Generator with Genlock

- Supports all regular analog Tri- and Bi-Level Sync standards
- Simultaneous HD/Tri-Level and SD/Bi-Level sync outputs
- 3 x HD/Tri-Level and 3 x SD/Bi-Level sync outputs
- Genlock with cross lock to any sync standard
- "Color Bars", "Black Burst" or "Sync Only" for SD
- NTSC, PAL or PAL M/N for Bi-Level sync outputs
- Burst phase adjustment for NTSC and PAL sync
- Audio Sync output 48kHz Word Clock or DARS
- yelloGUI compatible to access additional internal settings

The SPG 1708 is a compact, versatile analog sync pulse generator with genlock providing Tri-/ Bi-Level video sync and audio signals. The module offers three Tri-Level sync outputs, three Bi-Level sync outputs, and a separate Audio Sync output, with 48kHz Word Clock or Digital Audio Sync Signal (DARS) capabilities.

The sync generator has an accuracy of 2ppm, is robust and temperature stabilized. The flexible genlock capability allows the module to lock to any HD or SD Sync input, with full cross-lock functionality, even across unmatched standards.

Bi-Level and Tri-Level sync outputs and audio sync signals are all frequency locked to the reference, regardless of the selected sync standard for the outputs. Output signals are timing locked if they are in the same frame rate group as the reference. Additionally, a delay in units of output line and pixel can be applied when remote controlling the SPG 1708 via yelloGUI.

Frame Rate Groups

23.98Hz	24Hz	25Hz & 50Hz	29.97Hz & 59.94Hz	30Hz & 60Hz
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Available sync formats for Bi-Level Sync are NTSC, PAL, or PAL M/N. In addition it can output Color Bars, Black Burst, or just the Sync signal with selectable 7.5 IRE pedestal for NTSC standards with adjustable burst phase in 8 increments. The Tri-level sync outputs can be set to any of the available HD/3G standards.

User controls are located on the top side of the module, clearly labeled, and easily accessible. When remote controlling the device via USB, more options and settings are available with the yelloGUI.

Download the yelloGUI here:
yellogui.lynx-technik.com



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.



Technical Specifications

HD Sync	3 x Tri-level Sync outputs
	1080i 50Hz / 59.94Hz / 60Hz
	1080p 23.98Hz / 24Hz / 25Hz / 29.97Hz / 30Hz / 50Hz / 59.94Hz / 60Hz
	720p 23.98Hz / 24Hz / 25Hz / 29.97Hz / 30Hz / 50Hz / 59.94Hz / 60Hz
	1080psf 23.98Hz / 24Hz
	SMPTE 274M, SMPTE 296M
	Selectable via integrated 16 position rotary switch
	Return Loss: >40dB up to 5MHz
	SNR > 75dB
SD Sync	3 x Bi-level Sync outputs
	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 Input	Bi-level or tri-level analog sync
	Cross lock compatible to 525 and 625 SD sync and all HD sync standards
	SMPTE 274M, SMPTE 296M
Audio Sync	48kHz Word Clock or DARS
	48kHz Word Clock: 0 - 5.0V
	DARS: SMPTE 276M unbalanced AES (24-bits) - Grade 2
Accuracy	2 ppm
Power	+12V DC @ 2.4W nominal - (supports 7 - 17V DC input range)
USB	Mini "Type B" connection for firmware upgrades and remote control
Physical	Size (incl. connectors): 140mm x 90mm x 22mm (5.51" x 3.34" x 0.86") Weight: 300g (10.6oz)
Ambience	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Model #	SPG 1708 - (EAN# 4250479328655)
Includes	Module, AC power supply

