

## Fairlight Evaluates LYNX Technik AG® yellobrik SPG 1707 SD/HD Sync Pulse Generator with Genlock



### FAIRLIGHT

www.fairlightau.com

Frenchs Forest, NSW, Australia

Fairlight manufactures digital audio mixing consoles, as well as control and editing systems for Broadcast, Post Production, Music Studios and Film Production Studios

### LYNX Technik Product:

#### yellobrik SPG 1707

Multi-format (SD/HD)  
Sync Pulse Generator  
with Genlock

*"The yellobrik SPG 1707 SD/HD sync generator with genlock, in our opinion here at Fairlight, fills a gap in the market – and meets the needs of many of our customers."*

*"In our opinion this unit can be easily used as a studio reference generator in OB applications, mobile editing, post production, and professional AV applications that require a high quality HD or SD reference signal."*

-- Joe Hammer,  
Product Support Director,  
Fairlight

Fairlight's SX-20 is a "Sync I/O Toolbox" interface that provides a wide variety of audio, synchronization and control. SX-20 is a required component of any base CC-1 core processing system.

The yellobrik SPG 1707 was evaluated alongside the SX-20 synchronization unit by the Fairlight production department.



The SPG 1707 is portable sync generator that includes genlock with full cross lock capability, which locks the outputs to any reference sync format and standard. The module provides 3 x HDTV tri-level sync outputs as well as 3 x SDTV bi-level sync outputs and supports all SD, HD and composite (PAL / NTSC) video formats. A separate audio sync output can be switched between 48 KHz Word Clock or Digital Audio Reference (DARS).

#### The Evaluation:

First, the 3 x tri-level HD analog sync outputs using the following standards were tested - and the module performed perfectly.

- 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

Return Loss > 40dB up to 5MHz and SNR > 75dB were benchmarked without a problem.

All user controls are clearly indicated on the top of the module and directly accessible. The Fairlight engineers were able to use the unit immediately without referring to a manual.

Then, the 3 x bi-level SD sync outputs were tested - and performance was again perfect.

- NTSC, PAL, PAL M/N

*"Our award-winning yellobrik SPG 1707 SD/HD Sync Pulse Generator with Genlock is a resilient and versatile problem solver. It delivers simultaneous sources of HDTV tri-level and SDTV bi-level sync. The Genlock capability is what makes the module stand out from the other solutions out there, allowing you to cross lock to any sync signal regardless of the output sync format selected."*



**- Winfried Deckelmann**  
**CEO LYNX Technik AG**

The SPG 1707 multi-format SD/HD sync generator is temperature stabilized, and source reference quality easily met a 2ppm accuracy level.

Genlock capability easily allows the module to genlock to any SD or HD reference input, with full cross lock capability. The SD and HD sync outputs and audio sync signals proved to be totally frequency locked to the reference regardless of the selected sync standard for the outputs.

"In our opinion this unit can be easily used as a studio reference generator in OB applications, mobile editing, post production, and professional AV applications that require a high quality HD or SD reference signal," states Joe Hammer, Product Support Director at Fairlight.

"Pricing for the system is very affordable ... and I will not hesitate to suggest this fine product as a solution for our existing and potential Fairlight client base."

### **About yellobrik "brick-style" Interface Products:**

yellobrik series is a new range of standalone modular "brick" style interface products for broadcast and professional use. They are compact, simple to understand, and easy to use. All information needed is printed right on the module and all controls and settings are always easily accessible (no manuals needed). Each yellobrik includes the power supply, mounting brackets and comes in a custom plastic case for transport and storage.

### **yellobrik products include:**

- CDH 1811 - 3G SDI to HDMI Converter
- SPG 1707 - HD / SD Sync Pulse Generator with Genlock
- DVD 1806 - 3G 1>6 Reclocking SDI Distribution Amplifier
- OTX 1810 - 3G SDI to Fiber Optic Transmitter
- ORX 1800 - 3G Fiber Optic to SDI Receiver
- OTR 1810 - 3G Fiber Optic / SDI Transceiver

**LYNXTechnik AG**  
[www.lynx-technik.com](http://www.lynx-technik.com)

**yellobrik**<sup>TM</sup>

### **SYNC PROBLEMS?**

- ✓ **Need a stable HDTV, SDTV and audio reference sync source?**
- ✓ **Need HDTV sync locked to your NTSC or PAL master reference?**
- ✓ **Need to cross-lock between any and all video standards?**

### **WE HAVE THE AWARD-WINNING SOLUTION**



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