

# lucid

## SSG192

### High Definition Studio Sync Generator

The ultimate low jitter master clock.

As more digital audio devices find homes in professional studios, synchronization between them presents increasingly greater challenges. Each device's internal clock operates at a sample frequency slightly different from its neighbor, even if all devices are set to the same nominal rate. As a result, audible pops and clicks may result when un-synchronized digital sources are mixed together.

There are various means of synchronizing multiple digital audio devices, the most common being "word clock". Also known as "word sync", word clock runs at the sample rate of the digital audio signal. Daisy-chaining the word clock signal is one way of distributing it around a studio. But this solution creates new problems. Each device in the chain introduces cumulative delay and long word clock cables (particularly at the end of the daisy chain) increase clock jitter. Both delay and jitter contribute to significant increase of high-frequency distortion artifacts throughout the system.

The Lucid SSG192 is a one-stop solution to the above problems. With the SSG192 as the master clock for all audio and video in your studio, you reference multiple digital components to one accurate, stable clock. The SSG192 provides 15 internal clock rates (including 96 and 192 kHz) and four external sources (word clock, AES11, AES3 or video blackburst), any of which can act as the master clock to control connected equipment. With four discrete word clock outputs, plus additional outputs for 256X Superclock, 1024X Lucid UltraClock, video and AES11, the SSG192 handles every type of studio configuration that might come its way.



### Key Features

- Simultaneously outputs Word Clock, 256X Superclock, 1024X Lucid UltraClock, and AES11 sync formats.
- Generates or synchronizes to house video blackburst.
- Offers simple user interface to set pull-up and pull-down rates.
- Supports all standard digital audio output frequencies from 32 kHz to 192 kHz.
- Compatible with Digidesign Pro Tools, Sonic Solutions, Mackie Digital 8 Bus, Yamaha O2R and O3D, Tascam DA-88, and many other professional digital audio consoles, workstations, and recorders.



### Film and video post-production

In film and video post production studios, the SSG192 can reference to, or serve as, the house video blackburst generator. It supports NTSC 59.94, NTSC 60, or PAL/SECAM 50 Hz formats. The SSG192 generates all common pull-up and pull-down rates (0.1% and 4% correction factors).

### Superclock and UltraClock

The SSG192 also features two configurable clock outputs. These connections can be set to run at 256X, for compatibility with Digidesign's Pro Tools systems, or set to run at 1024X. In 1024X mode, called Lucid UltraClock, the unit runs at 512X the sample rate for compatibility with future high-definition audio products from Lucid.

### Today and tomorrow

At home in your studio today, and prepared for your studio in the future, the SSG192 is your total synchronization solution.

### Performance

Digital Audio Output Sample Rates:

Internal Sync: 32, 42.336, 44.056, 44.1, 44.144, 45.937, 46.080, 47.952, 48, 48.048, 50, 88.2, 96, 100, and 192 kHz

Word Clock: 30 – 200 kHz

AES11: 30 – 100 kHz

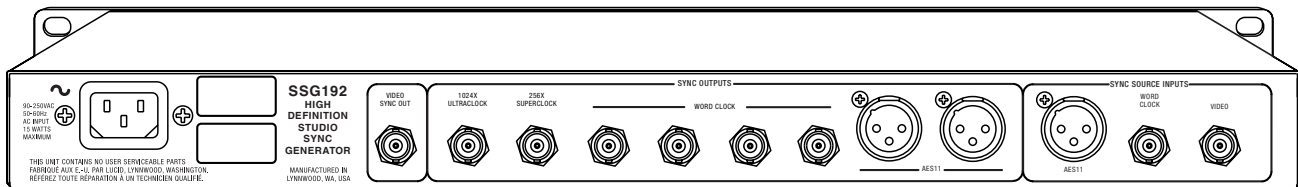
Video In: 30 – 200 kHz @ 25 – 30 fps

### Connectors

- Video Sync Input: 1 x BNC
- Video Sync Output: 1 x BNC
- Word Clock Sync Input: 1 x BNC
- Word Clock Sync Output: 4 x BNC
- AES11 Sync Input: 1 x XLR (will accept AES3 audio)
- AES11 Sync Output: 2 x XLR
- 256x Superclock Output: 1 x BNC
- 1024x UltraClock Output: 1 x BNC
- Power In: Standard IEC Power Inlet

### Physical

- 1U Chassis (H x W x D):  
1.72 in. x 19 in. x 6 in.  
4.37 cm x 48.26 cm x 15.24 cm
- Weight: 7.4 lb. (net)



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