Model 5405

Dual Analog Sync Generator

The 5405 Dual Analog Sync Generator is a stable video timing source that is perfect for local reference generation in broadcast, remote trucks and post. Two dual independent composite reference signals are generated.

The 5405 can operate from an internal precision frequency reference as a stand-alone Master Sync Generator or lock to a video reference. For the ultimate in precision, the 5405 can lock to an external 10 MHz source, such as an atomic standard or GPS receiver.

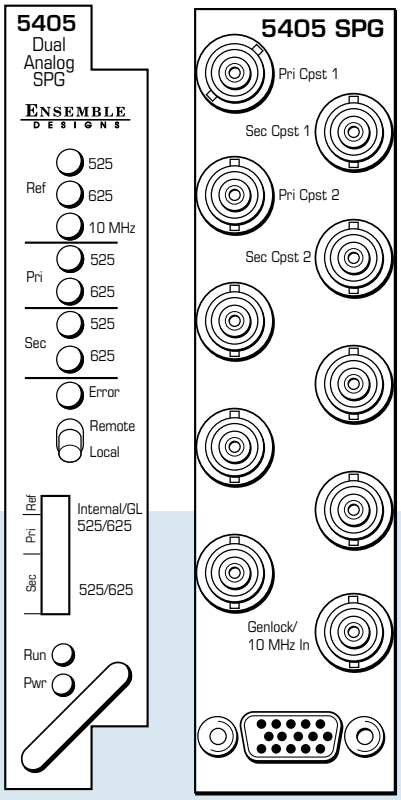
The primary output consists of two identical composite outputs. A separate pair of composite outputs form the secondary sync generator. Facilities that require multiple outputs can use the 5150 Distribution Amplifier module in conjunction with the 5405.

Each output set can be timed with respect to the reference to any point in the television frame. Color framing tracks the reference signal. Timing adjustments for primary and secondary outputs are configured independently. The 5405 can be configured to output 525 and 625 standards simultaneously. The secondary output can also track the primary.

Module control and monitoring is accessed through an Avenue Control Panel, and/or an Avenue PC.

Features

- Use as Master Sync Gen or lock to external reference or GPS
- Two pair of composite outputs
- Primary and secondary outputs are independently timeable
- Can provide 525 and 625 outputs simultaneously
- Remote control, monitoring and alarms



www.ensembledesigns.com
tel 530.478.1830

Reference Input

Number	Two: External or Frame Master Reference
Signal Type	1 V P-P PAL, NTSC, or 10 MHz
Return Loss	>40 dB DC to 5.5 MHz

Composite Outputs

Number	Two Primary, Two Secondary
Signal Type	NTSC/PAL
Impedance	75 Ω
Return Loss	>40 dB DC to 5.5 MHz
Frequency Response	±0.1 dB, 0 to 5.0 MHz
Output DC	±50 mV
K Factor	<1.0%
Differential Phase	<1.0 degree
SCH Phase	±2 degrees
Delay	Adjustable over full frame in sub-degree steps
Color Framing	Tracks Ref, user selectable

Accuracy and Timing Stability

Internal TCXO

PAL Fsc	4.43361875 MHz ±1 Hz
NTSC Fsc	3.579545 MHz ±1 Hz
Long Term Drift	<1 ppm/year
Analog Jitter	<1 ns
Genlock	(External or Master Reference)

General Specifications

Power Consumption	10 watts
Temperature Range	0 to 40°C ambient (all specs met)
Relative Humidity	0 to 95%, noncondensing
Altitude	0 to 10,000 ft