

SYNCHRONIZE VIDEO WITH GPS 1Hz OR IRIG-B TIMECODE



VIDEO SYNC GENERATOR V-data Model VSG

- Two 75 ohm composite sync outputs.
- First vertical pulse of odd field coincides with 10 microsecond accuracy to IRIG-B timecode frame reference, or positive transition of 1 Hz pulse.
- Programmable for 60 Hz, 525 line or 50 Hz, 625 line formats.
- 9 to 16 VDC at 100 milliamps, wall transformer supplied.
- Indicators for IRIG-B (valid), Hunt (no input), High (input lags), Low (input leads)
- Compatible with cameras which genlock to monochrome video or composite sync.
- Compatible with other **V-data** products including:
 - **VED** (Video Encoder/Decoder) Video time and data inserter/retriever.
 - **GTP** (Global Time and Position) Combined GPS receiver and IRIG-B generator.

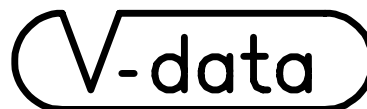
Ordering Information:

Video Sync Generator, Model VSG
with power supply and manual

\$950.00

FOB Destination in USA
Mastercard/Visa or Net 30

V-data
693 Melrose Road
Lottsburg, VA 22511
(804) 529-5950
vdata@crosslink.net



SPECIFICATIONS

VIDEO SYNC GENERATOR, V-data Model VSG

PHYSICAL

Construction: Extruded aluminum enclosure, aluminum end panels, powder painted.

Size: 5.3"W X 1.1"H X 4.75"L

Weight: 0.5 pound

ENVIRONMENTAL

Temperature: -40 Deg. C to 85 Deg. C

Humidity: 0 to 95% non-condensing.

INPUTS

Power: 9 to 16 VDC at 100 milliamps, 2.1 mm jack with extended thread for locking plug, center pin positive, reverse polarity protection, 9 VDC wall transformer supplied.

IRIG-B Timecode: 3V peak-to-peak +/- 0.1V, opto-isolated, BNC connector.

1PPS (One pulse per second): 0 to 5V positive transition, 10K ohm termination, BNC connector.

OUTPUTS

Video sync: Two independent composite syncs, 75 ohm, BNC connectors.

INDICATORS

IRIGB: Red LED indicates valid IRIGB input.

Hunt: Red LED indicates loss of input.

High: Green LED indicates track point leads input, alternates with Low indicator.

Low: Green LED indicates track point lags input, alternates with High indicator.

CONTROLS

Jumpers: Two jumpers select between 60Hz, 525 and 50 Hz, 625 formats.

Adjustment: Factory set tuning pot, may require user re-adjustment due to component aging, environmental extremes, or switching between 60 Hz and 50 Hz formats.

PERFORMANCE

Settling time: 15 seconds after last Hunt indication.

Accuracy: +/-10 microseconds +/- (the input jitter in microseconds)

