GLE/HGIG-100v2

Handheld GPS synchronized IRIG B/G time code Generator

Applications

• Time synchronization of stand-alone data acquisition equipment.

Main Features

- Seventy-two channels GPS L1C/A, GLONASS L10F, BeiDou B1 receiver.
- Selectable IRIG-B or IRIG-G time code generator, AM or DCLS out.
- UTC time synchronization with programmable ±12 hours offset
- 1 PPS output
- NMEA 0183 output, including GPS/UTC Time & Position.
- Internal rechargeable LiPo battery cell.



GLE/HGIG-100v2 is a compact and robust UTC synchronized timecode generator, which provides IRIG B126 or G146 AM or DCLS, 1 PPS signal and NMEA 0183 output. It is designed to accurately synchronize the internal time of standalone and mobile data acquisition equipment.

An offset (± 12 hours max) can applied to the IRIG time code output.

The active GPS antenna, installed on the top panel, may be disconnected to use an external one.

If no GPS signal is received, GLE/HGIG-100v2 switches to the internal clock and continues

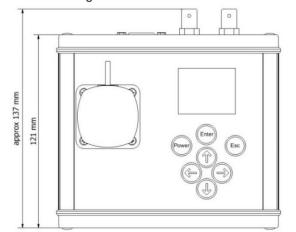
to generate the time without any significant change in the IRIG timecode and in the serial NMEA data stream. The unit is equipped of a 2000mAh LiPo battery.

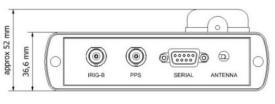
The internal battery charger works with a standard +5V USB connection to PC or with the supplied AC/DC USB wall adapter.

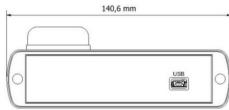


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IRIG Output Format	B126 1kHz AM Modulated (optional G146 100kHz) or selectable DCLS without carrier
IRIG Output Level	AM:adj. from 2Vpp to 5Vpp (Mark), unloaded, in sixteen steps; DCLS: >3.0V (Typ.) @ 50 Ohm
IRIG Connector	BNC, 50 Ohm Impedance
IRIG Time Offset	Max ± 12 Hours in HH:MM format
1 PPS Signal Level	>3.0V (Typ.) @ 50 Ohm load
1 PPS Pulse Width	High for 500ms
1 PPS Connector	BNC, 50 Ohm Impedance
NMEA 0183 RS 232 Output	19.2 kBaud, 8 bit, No Parity: \$GNRMC, \$GNVTG, \$GNGGA, \$GNGSA,\$GPGSV, \$GNGLL, \$GNZDA
NMEA 0183 Connector	DSUB 9 Pin Socket
GPS Antenna	Active Type
GPS Connector	SMA Socket
Timing Accuracy	+/-0.5 PPM (when not locked to GPS / over the entire temp. range)
Nominal battery run time	More than 5 hours
Nominal battery charge time	5 hours (unit switched off)
Operating Temperature	-10 to +55 °C (During battery charging: 0 to +40 °C)
Physical	Dimensions: 140 x 120 x 52 mm (L x D x H), excluding connectors. / Weight: < 600 grams

Mechanical Drawing







Due to continuous developments, specifications are subject to change without prior notice. This product is not intended for applications whose its failure to perform can be expected to cause damages to properties and/or persons and/or injury to human life.

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