

VP-88U

Marine GPS-Receiver

- Extremely robust
- Waterproof
- Sensitivity: -160dBm
- RS-232 data output
- Adjustable Baud rate
- WAAS, EGNOS, MSAS, GAGAN
- Very fast TTFF
- Standard NMEA-0183 Data
- Simple Installation and Operation
- 1" Screw for pole-mounting
- Pedestal included



General

The **VP-88U** is an external waterproof GPS receiver with integrated antenna for applications in the open air, at sea or on vehicles. It has at its heart a uBlox GPS Chipset, which gives great efficiency and accuracy, even in situations where the sky is obscured by spray, vegetation or buildings.

The receiver has a 7-pin connector. A suitable cable (15m) is available.

Connector Pinout

Pin#	Colour	Function (VP-88U)
1	White	RX – RS-232 Commands in
2	Green	TX – RS-232 NMEA Data out
3	Yellow	Signal ground
4	Braid	Shield ground
5	Blue	-
6	Black	Power Minus
7	Red	Power Plus: 8V ~ 35V

Specifications

General		L1 frequency, C/A code (SPS), 50 Independent tracking channels
Sensitivity		-160dBm
Accuracy	Position Velocity	Without aid: 2.5m CEP With SBAS: 2.0m CEP 0.1 Knot RMS steady state
Acquisition	Cold start Warm start Hot start	50 sec. (typical) 50 sec. (typical) 1 sec. (typical)
Dynamics	Altitude Velocity Vibration	50000m max. 500 m/sec. 4G max
Primary Power		8V ~ 35V DC
Power Consumption		37mA~76mA @ 12V DC
Signal Protocol		NMEA-0183 v3.01 baud rate(adjustable) 4800/9600/19200/38400/115200
Signal Level		RS-232(standard) default 4800 baud
NMEA Messages	Default: Optional: Update rate	GGA, GLL, GSA, GSV, RMC, VTG, ZDA 1~5Hz (default 1Hz)
EMI filter		Rejects power line interference
SBAS		Supports WAAS, EGNOS, MSAS, GAGAN
Enclosure		High impact, corrosion-proof polycarbonate resin. Screw thread 1" 14tpi to pole or stand.
Water Resistance		100% waterproof
Cable		UL 2464/ 24AWG,15M
Connector		7 pin circular, hermetically sealed. Gold plated for anti-corrosion
Operation Temperature		-30° C to +85° C
Storage Temperature		-40° C to +85° C
Weight		150 grams (without cable)
Dimensions	GPS Locator Mounting Base	80mm(Dia.) × 71.3 mm(H) 110mm(W) × 70mm(L) × 75.2mm(H)
Part-numbers	VP-88U	GPS Receiver with stand and 15m Cable

