



Marine GPS Locator

Model: VP-88u

WI-RD-D-024 V1.1



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Overview:

VP-88u is an outstanding high sensitivity Marine GPS receiver. Its excellent performance easily conquers the most difficult tasks. In addition, it provides various functions to meet customers' needs. You will find the device an **accurate, reliable** and **useful** aid to your positioning pursuits.

VP-88u is the latest GPS product innovation in combining GPS receiver technology and mini-antenna in a Plug-Navigate-Location concept from SAN JOSE TECHNOLOGY, INC.

VP-88u receives FREE broadcast signals from the Low Orbit Global Positioning System (GPS), a satellite-based transmitter which emits ranging/satellite information/high precision time signals that the **VP-88u** receiver can use to determine positions and time. It also has high sensitivity for weak signal operation without compromising accuracy. Undoubtedly, **VP-88u** is the best choice for you.



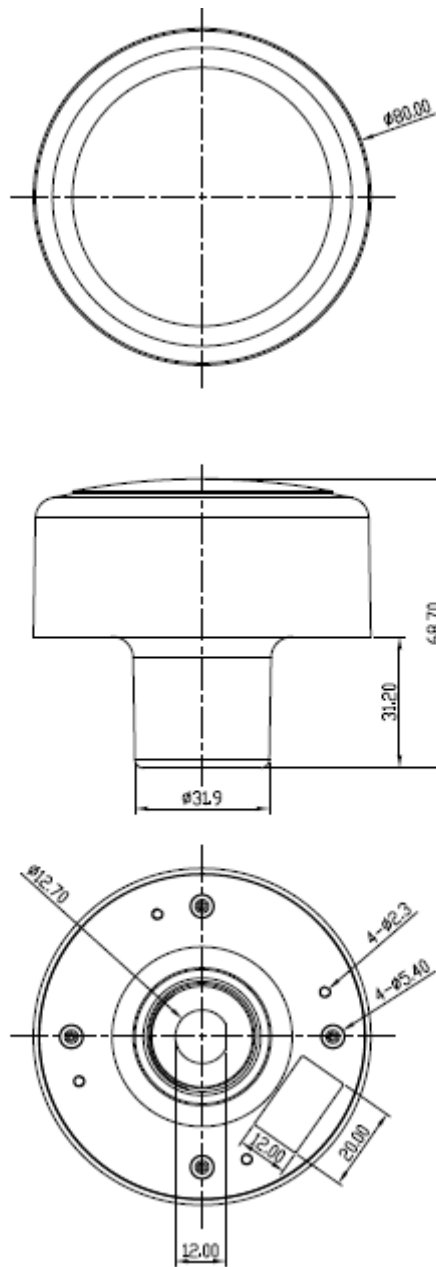
Specification:

PHYSICAL CONSTRUCTION	
GPS Locator Dimension	80 mm(W) X 71.3 mm(H)
Mounting Base Dimension	110 mm(W) X 70 mm(L) X 75.2 mm(H)
Weight	150 gram(without cable)
Power cable	UL 2464 / 24AWG 15M
Enclosure	High impact, corrosion-proof polycarbonate resin
Receiving frequency	1575.42MHZ; C/A code
Connector	7 pin circular, hermetically sealed. Gold plated for anti-corrosion
Construction	Full EMI shielding
ENVIRONMENTAL CONDITIONS	
Temperature	Operating: -30 ~ +85 °C
	Storage: -40 ~ +85 °C
COMMUNICATION	
Protocol	NMEA, UBX binary
Interface	RS232
INTERFACE CAPABILITY	
Standard Output Sentences	GGA,GLL,GSA,GSV,RMC,VTG. Optional: ZDA
PERFORMANCE	
Built-in Antenna	Highly-reliable ceramic patch
Sensitivity	-160dBm (Tracking)
SBAS	WAAS, EGNOS, MSAS, GAGAN
Receiver architecture	50 parallel channels
Start-up time	1 sec. typical (hot start)
	50 sec. typical (warm start)
	50 sec. typical (cold start)
Position accuracy*	Without aid: 2.5 m SBAS: 2.0 m
Velocity	500 m/s
Altitude	50,000m (Maximum)
Update Rate	1 Hz(standard)
Power Supply	8V~35V
Power Consumption	37mA~76mA @ 12V
Baud Rate	4800 bps (default)
	Optional: 9600/19200/38400/115200 bps are adjustable

*CEP, 50%, 24 hours static, -130dBm, SEP <3.5m

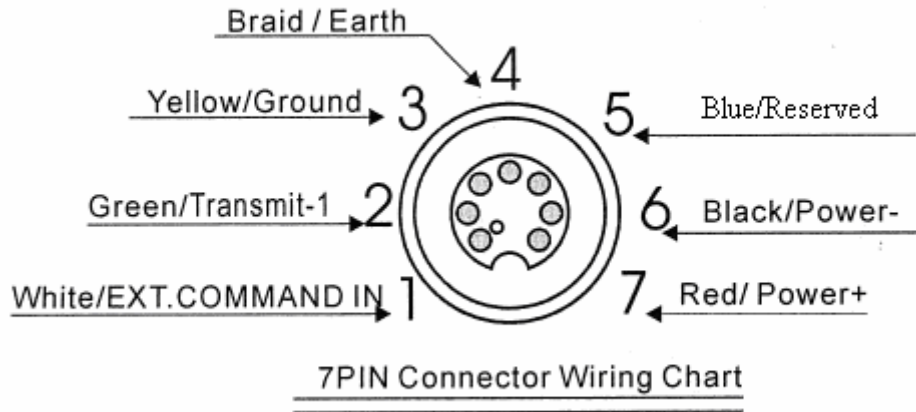
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Mechanical Diagram:



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Pin Assignment:



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Pin Definitions:

I/O PIN & CABLE			
Connector	Wire	Function	Description
PIN1	White	receive	To receive external command from PC(Rx)
PIN2	Green	transmit	Outputs NMEA0183 sentences(Tx)
PIN3	Yellow	Ground	Signal ground common to receiver and transmit
PIN4	Braid	Earth	To be connected to vehicle chassis for EMI suppression if necessary
PIN5	Blue	-	Reversed
PIN6	Black	Power-	Power ground (Negative)
PIN7	Red	Power+	Power input 8 to 35 V DC (Positive)
-	Purple	-	Reserved