

# V560 Marine Antenna

Triple-frequency GNSS, L-Band and MF combined antenna, with inmarsat rejection filter for marine applications.

## Multi-constellation GNSS reception for maximum performance

The V560 marine antenna receives all GNSS constellations and frequencies providing increased flexibility for the user. The V560 antenna provides enhanced Inmarsat interference rejection, which allows tracking of GNSS signals in the presence of high powered Inmarsat transmitters which can be found on marine vessels.

## Reception of correction services from multiple sources

The V560 also supports L-Band from 1525 to 1560 MHz which supports all VERIPOS correction services, including differential and Precise Point Positioning (PPP) providing robust and reliable positioning. Additionally the antenna is capable of receiving corrections broadcast via the Marine Radio Beacon network (285 - 323 MHz) removing the need for a separate antenna.

## Durable, future-proof design made for harsh marine environments

This rugged antenna is enclosed in a durable, waterproof housing and meets IEC60945 specification for marine applications. Meeting the European Union's directive for Restriction of Hazardous Substances (RoHS) and capable of tracking all GNSS signals, users can be confident the V560 Marine antenna can be used in system designs for years to come.



V560 Marine Antenna

## Benefits:

- Multi-frequency and multi-constellation antenna to allow reception of all available GNSS signals required for robust positioning
- Reception of correction from Marine Radio Beacon network the removing need for separate antenna
- High quality measurements for precision applications
- GNSS and L-Band reception even in the presence of Inmarsat interference
- Marine-certified antenna for use in all marine applications

## Features:

- GPS+GLONASS+Beidou+Galileo+QZSS signal reception
- Triple-frequency GNSS signal tracking
- VERIPOS correction service L-Band reception
- MSK Beacon (MF) signal reception
- Increased Inmarsat Rejection
- Excellent Multipath Rejection

**Frequency**

**Passbands**

Upper Band	1525 - 1610 MHz
Lower Band	1160 - 1290 MHz
MSK Beacon (MF)	285 - 323 MHz
Inmarsat Rejection Filter	

**Satellite Signals**

GPS	L1, L2, L5
GLONASS	L1, L2, L3
Galileo	E1, E5, E5a/b, E6
BeiDou	B1, B2, B3
QZSS	L1, L2, LEX

**Specification**

**Polarization** Right Hand Circular (RHP)

**Axial Ratio** 3dB Max @ Boresight

**Radiation Coverage**

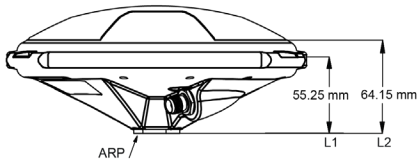
6.0 dBic	0° = 0°
-2.0 dBic	0° < $\theta$ < 75°
-3.0 dBic	75° ≤ $\theta$ < 80°
-4.0 dBic	80° ≤ $\theta$ < 85°
-5.0 dBic	HORIZON

**Low-Noise Amplifier (LNA)**

Gain	45 dB (±2 dB)
Noise Figure	2.6 dB (Max)
Impedance	50 Ω
Voltage Standing Wave Ratio	≤ 2.0 : 1

**Antenna Phase Centre**

L1 North 2.78 mm East 1.27 mm Up 55.25 mm  
 L2 North 0.82 mm East 1.09 mm Up 64.15 mm



**Physical and Electrical**

**Dimensions**

7.50 in (19.05 cm) x 3.17 in (8.05 cm)

**Weight**

730 g

**LNA DC Voltage Input**

Input voltage +3 to +15 VDC  
 Power consumption 105 mA

**Enclosure Material**

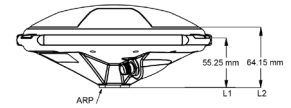
Weatherable Polymer  
 Plastic

**RF Input Connector**

TNC Female

**Antenna Mounting**

5/8in-11 UNC-2B Adapter



**Environmental**

**Temperature**

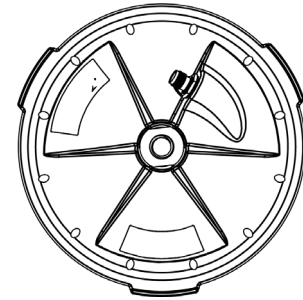
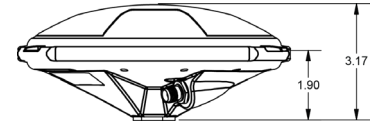
Operating -40°C to +70°C  
 Storage -50°C to +85°C

**IP Rating**

IP67

**Compliance**

CE  
 FCC  
 RoHS3  
 WEEE  
 EN 60945 (Exposed Equipment)



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For the most recent details of this product visit [veripos.com](http://veripos.com)

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