Survey GNSS Antenna GPS500

Harxon
a BDStar company

HIGH PERFORMANCE ANTENNA FOR GIS SURVEYING



HIGH PHASE CENTER STABILITY

The GPS500 features a multi-point feeding deign to achieve greater phase center stability. It effectively improves measurement accuracy and provides better RTK solution. And GPS500 has passed the international NGS certificate test.

TRACKING IN CHALLENGING ENVIRONMENTS

The ability to receive low elevation signals with high gain and wide beam width makes GPS500 an excellent choice for tracking visible satellites under challenging conditions, providing the positioning solutions with precision and reliable data. It can be widely used in agriculture tractors, unmanned vessels, also for autonomy vehicles, GIS surveying where high precision operations are needed.

STRONG ANTI-INTERFERENCE PERFORMANCE

The antenna LNA features an excellent out-of-band rejection performance, which can suppress the electromagnetic interference, providing the stability and reliability of GNSS signals. Also it effectively avoids disconnection dangerous when receivers are operated under complex electromagnetic environments such as communication base station and busy urban area.

SMALL SIZE AND LIGHT WEIGHT

The light weight and small size GPS500 antenna can lighten the loads of small unmanned vehicles, as well as a standard TNC female connector for easy integration. Its IP67 ruggedized design can protect it from dust and water.

KEY FEATURES

- Support GPS, Glonass, Galileo, Beidou, QZSS and SBAS signal reception
- Stable phase center guarantees the accuracy of positioning within millimeter-level
- Strong anti-interference ability to endure the harshest operating environments
- IP67 ruggedized protection

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PERFORMANCE

Signal Received	
GPS	L1,L2
GLONASS	L1,L2
GALILEO	E1
BDS	B1,B2,B3
QZSS	L1,L2
SBAS	L1
Nominal Impedance	50Ω
Polarization	RHCP
Axial Ratio	≤3dB
Gain at Zenith (90°)	
1205-1278MHz	5.5dBi(maximum)
1559-1615MHz	5.5dBi(maximum)
LNA Gain	40dB(typical)
Noise Figure	≤2dB
Output/Input VSWR	≤2.0

Operation Voltage	+3.3 to + 12VDC
Operation Current	45mA(maximum)
Group Delay Ripple	<5ns

MECHANICAL

Dimensions	¢152*62.2mm
Connector	TNC female
Weight	≤500g
Mounting	BSW5/8''-11 screw, 12-14mm

ENVIRONMENTAL

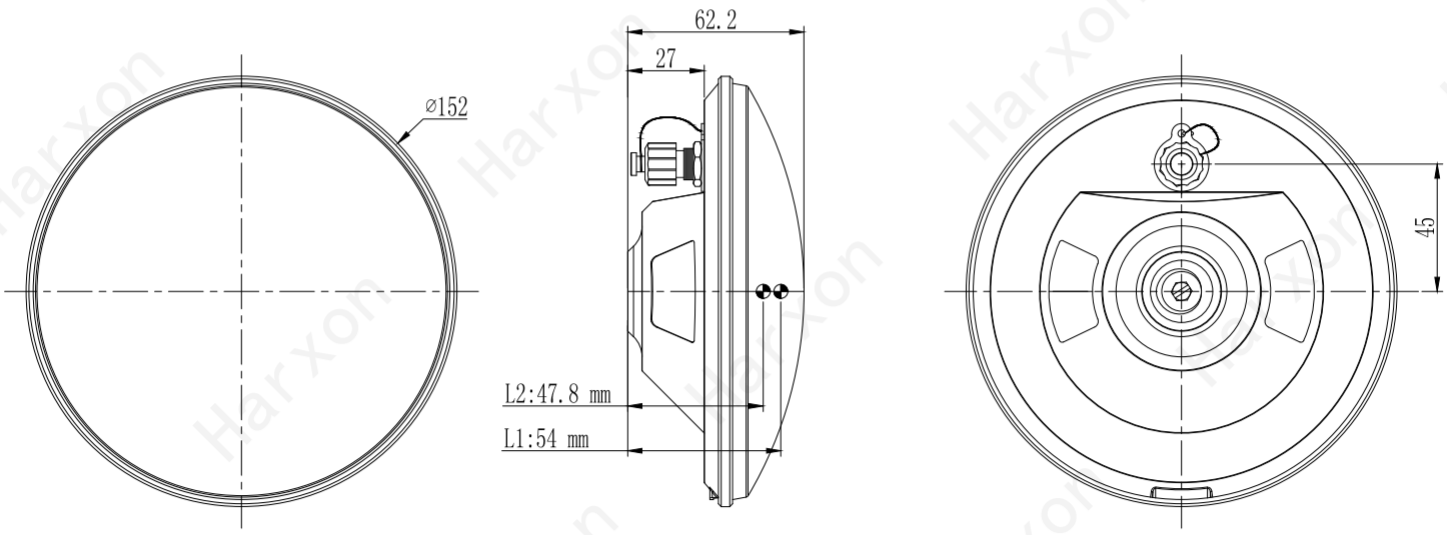
Temperature	
Operating	-40℃ to +85℃
Storage	-55℃ to +85℃
Humidity	95% non-condensing
Water/Dust Resistance	IP67
Regulatory Compliance	FCC CE RoHS

For the most recent details of this product:
https://en.harxon.com/products-detail.php?ProId=201

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Structure& Phase Center Drawing (mm)



TOP VIEW SIDE VIEW BOTTOM VIEW

Undeclared tolerance:±0.3mm

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