



Mini Survey Antenna HX-GS288A

HX-GS288A receives GPS L1 and GLONASS L1 frequencies, which can be used in land survey, marine survey, channel survey, seismic monitoring, bridge survey, container operation and agriculture applications. Customers can use the same antenna for GPS only or dual constellation applications.

It has high gain and wide beam width to ensure the signal receiving performance of satellite at low elevation angle. The phase center of this antenna remains constant as the azimuth and elevation angle of the satellites change. Signal reception is unaffected by the rotation of the antenna or satellite elevation, so placement and installation of the antenna can be completed with ease.

Key Features

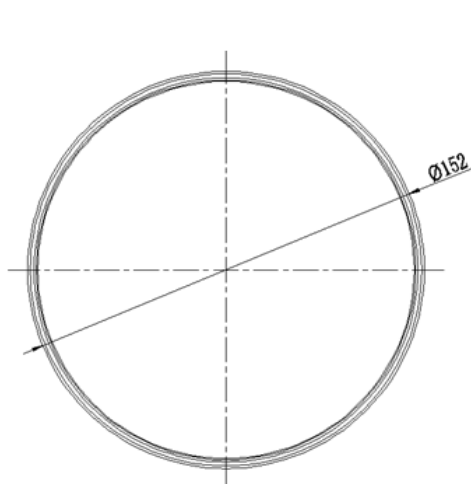
- Support GPS L1 and GLONASS L1 frequencies
- Multi-path rejection board inside can eliminate the multi-path influence to measurement error
- Adopt multi feed design to ensure the superposition of phase center and geometrical center, and minimize the influence to measurement error
- Very low noise figure
- GIS&RTK applications
- Mize size and lightweight
- 5/8" x 11 Mounting



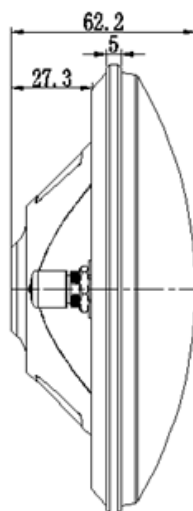
Technical Specifications

| Antenna Specification | |
|-----------------------|----------------------|
| Frequency Range | GPS L1 GLONASS L1 |
| Impedance | 50ohm |
| Polarization | RHCP |
| Axial Ratio | ≤3dB |
| Azimuth Coverage | 360° |
| Output VSWR | ≤2.0 |
| Peak Gain | ≥4.5dBi |
| Phase Center Error | ±2mm |
| LNA Specification | |
| LNA Gain | 40±2dB |
| Noise Figure | ≤2.0dB |

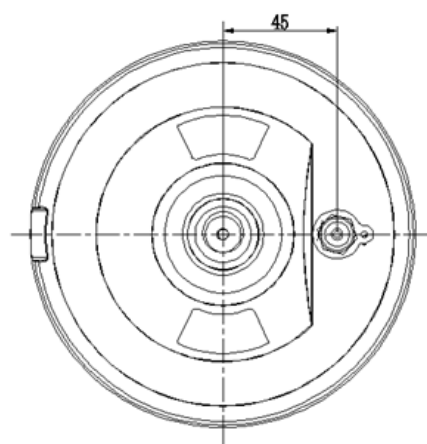
| Output VSWR | ≤2.0 |
|---------------------------|----------------------|
| Operation Voltage | 3.3~12VDC |
| Operation Current | ≤45mA |
| Group Delay | ≤5ns |
| Mechanical Specification | |
| Dimension | φ 152*62.2mm |
| Connector | TNC Female |
| Weight | 374g |
| Environment Specification | |
| Storage Temp | -55℃~+85℃ |
| Operating Temp | -45℃~+85℃ |
| Humidity | 95% No-condensing |



Top view



Side view



Bottom view

Dimension (mm)

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