



Key Features

- Support GPS L1 、 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.
- Water & dust-proof design ensures absolute seal of kernel parts, capable for long time outdoor operation.
- Very low noise figure.
- Lightning proof circuit inside can protect the LNA from being damaged by surge immunity.

Survey Antenna HX-GS282A

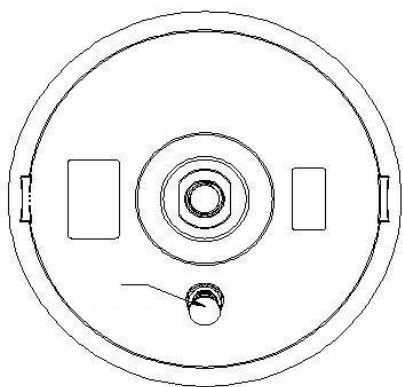
HX-GS282A receives GPS L1 and GLONASS L1 frequencies, which can be used in land survey, marine survey, channel survey, seismic monitoring, bridge survey, container operation, agriculture applications. Customers can use the same antenna for GPS only or dual constellation applications.

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. It also built with weather-resistant materials to allow operation in the most rugged of environments.

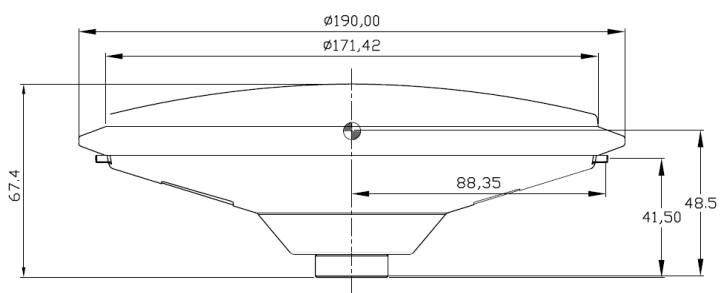
Technical Specifications

Antenna Specification	
Frequency Range	GPS L1 GLONASS L1
Impedance	50ohm
Polarization	RHCP
Axial Ratio	≤3dB
Azimuth Coverage	360°
Output VSWR	≤2.0
Peak Gain	5.5dBi
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 190*67.4mm
Connector	TNC Female
Weight	550g
Environment Specification	
Storage Temp	-55℃~+85℃
Operating Temp	-45℃~+85℃
Humidity	95% No-condensing



Bottom view



Side view

Dimension (mm)

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