e-survey

UA35

GNSS ANTENNA

The eSurvey UA35 covers the reception of GNSS signals such as GPS, GLONASS, BDS, Galileo, QZSS, IRNSS and L-Band. It has the superior performance of the antenna phase center. Its small size and light weight make it easy to carry around and operate.

Antenna

Powerful Satellite Tracking Capacity

Obtain all available and reliable data sources, with total channels and all signals (GPS, BDS, GLONASS, GALILEO, IRNSS, QZSS, and SBAS) of GNSS tracking.

High Gain (GPS L1 > 6 dBi, GPS L2 > 5 dBi)

No longer worry about the effect of Experience strong GNSS satellite tracking ability, and make your measurement work and data more reliable due to the excellent antenna gain.

Superior Antenna Phase Center

Further, improve the reliability of your measurement work due to the coincidence of the phase center and mechanical center that can make the phase center error less than 2 mm.

Rugged Design

Use it for many years with IP69K design that is protected against the ingress of dust and high temperature, high-pressure water - making products with this certification ideal for use in conditions where equipment must be carefully sanitized.).

Small size and Light Weight

Easily carry it in a variety of complex environments.

Excellent Axial Ratio Performance

Axial ratio ≤6 dBi makes the UA35 antenna performance better.

Website

Social media

Product Specification

UA35

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Antenna Performance		
Satellites tracking	GPS	L1, L2, L5
	BDS	B1, B2, B3
	GLONASS	G1, G2, G3
	GALILEO	E1, E5
	QZSS	L1, L2, L5
	IRNSS	L5
	SBAS	SBAS:L1
	L-Band	L-Band
Polarization		Right-handed circular
Axis ratio		≤2 dB @Axial
Antenna gain		▪ GPS L1 > 6 dBi ▪ GPS L2 > 5 dBi
Phase center offset		± 2 mm

Low Noise Amplifier Performance	
Frequency range	1525 - 1615 MHz, 1182 - 1278 MHz
Characteristic impedance	50 Ω
VSWR	≤ 2.0:1
Noise figure	2 dB Max
LNA gain	39 ± 2 dB
In-band flatness	± 1.5 dB
Out-of-band suppression	▪ L1 ± 200 MHz >40 dBc ▪ L2 ± 200 MHz >50 dBc
Differential transmission delay	≤ 5 ns (L1-L2)
Antenna transmission delay	15 ns (Typically)
Voltage	3.3 - 15 V dc
Current	≤ 40mA

Environmental Performance	
Operating temperature	-40°C - +85°C
Storage temperature	-55°C - +100°C
Humidity	Up to 95%
Water/dust proof	IP69K RoHS EU directive

Physical	
Dimension	D146 mm x H46 mm
Weight	500 g
Antenna interface	TNC-F
Radome material	ASA plastic
Base material	Aluminum alloy
Mount	5/8-11 UNC-2B