

UA92

HIGH-GAIN CHOKE RING ANTENNA

The eSurvey UA92 is a multi-system full-frequency reference station antenna covering BDS, GPS, GLONASS, IRNSS, QZSS and GALILEO. It adopts a unique choke structure design. The product has a stable phase center, good multipath suppression effect, high positioning accuracy, and low elevation angle reception.



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 (≥ 5.5 dBi)

Experience strong GNSS satellite tracking ability, and make your measurement work and data more reliable due to the excellent antenna gain.

High Phase Center Accuracy

Experience sub-millimeter phase center accuracy with higher stability.

Rugged Design for Harsh Environments

Use it for many years with IP67 design, which is 95% protected against solid objects like dust and sand, and it has been tested to work for at least 30 minutes under 15 cm to 1 m of water.

Excellent Multipath Suppression Effect

No longer need to worry about interference by multipath due to the unique choke coil design.

Multiple Applications

The UA92's compact size and light structure can be used for mechanical control, deformation monitoring, Marine mapping, and other fields.



Website



Social media

Product Specification

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Antenna Performance

Satellites tracking	GPS	L1, L2, L5
	BDS	B1I,B1C,B2a,B2b,B3I,B3Q,B3A,B3AE
	GLONASS	G1,G1a,G2,G2a
	GALILEO	E1, E5a, E5b, E6
	QZSS	L1, L2C, L5
	IRNSS	L1,L2c,L5,L6
	SBAS	L1, L5
	L-Band	L-Band
Polarization		Right-handed circular
Axis ratio		≤ 2 dB
Antenna gain		≤ 5.5 dBi
Out-of-roundness		≤ 1 dBi @Elevation angle 20°
Phase center offset		± 1 mm

Low Noise Amplifier Performance

Frequency range	1525 - 1615 MHz, 1165 - 1278 MHz
Characteristic impedance	50 Ω
VSWR	≤ 1.5
Noise figure	≤ 1.5 dB
LNA gain	40 ± 2 dB
In-band flatness	± 1 dB
Out-of-band suppression	■ L1 ± 150 MHz >40 dBc ■ L2 ± 200 MHz >50 dBc
Differential transmission delay	≤ 5 ns (L1-L2)
Antenna transmission delay	15 ns (Typically)
Voltage	3.3 - 12 V dc
Current	≤ 50 mA

Environmental Performance

Operating temperature	-40°C - +85°C
Storage temperature	-55°C - +85°C
Humidity	Up to 95%
Water/dust proof	IP67

Physical

Dimension	D213 mm x H155 mm
Weight	2700 g
Antenna interface	TNC-F
Radome material	PC
Base material	Aluminum alloy
Mount	5/8-11 UNC-2B