

# 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 ( $\geq 5.5$ 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

## UA92

### HIGH-GAIN ANTENNA



#### 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		$\leq 2$ dB
Antenna gain		$\leq 5.5$ dBi
Out-of-roundness		$\leq 1$ dBi @Elevation angle 20°
Phase center offset		$\pm 1$ mm

#### Low Noise Amplifier Performance

Frequency range	1525 - 1615 MHz, 1165 - 1278 MHz
Characteristic impedance	50 $\Omega$
VSWR	$\leq 1.5$
Noise figure	$\leq 1.5$ dB
LNA gain	40 $\pm 2$ dB
In-band flatness	$\pm 1$ dB
Out-of-band suppression	<ul style="list-style-type: none"><li>L1 <math>\pm 150</math> MHz &gt;40 dBc</li><li>L2 <math>\pm 200</math> MHz &gt;50 dBc</li></ul>
Differential transmission delay	$\leq 5$ ns (L1-L2)
Antenna transmission delay	15 ns (Typically)
Voltage	3.3 - 12 V dc
Current	$\leq 50$ 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