



NAVAIS NS-100

Full-Band GNSS Survey Antenna



Professional-grade signal integrity. Professional full-band reception for precise surveying, mapping, reference stations and high-integrity positioning.

Key Features

- Full-band tracking across all major GNSS constellations
- High phase-center stability for precision surveying
- Rugged weather-resistant construction
- L1, L2, L5, L6 and L-Band frequency support
- Advanced multipath mitigation and low-noise amplification
- Ready for RTK, PPK, base-station and CORS applications

Supported GNSS Signals

Constellation	Supported signals
GPS	L1, L2, L5
GLONASS	L1, L2, L3
Galileo	E1, E5a, E5b, E6
BeiDou	B1, B2, B3
QZSS	L1, L2, L5, L6
SBAS	WAAS, EGNOS, MSAS, GAGAN
L-Band	PPP correction services

Technical Specifications

Specification	Description
Model	NS-100
Antenna type	Full-band GNSS survey antenna
Frequency coverage	L1, L2, L5, L6 and L-Band
Phase-center accuracy	+/- 2 mm
Gain	5.5 dBi typical
Axial ratio	<= 3 dB
GNSS support	GPS, GLONASS, Galileo, BeiDou, QZSS and SBAS
Multipath rejection	Advanced filtering design
Connector	TNC Female
Environmental protection	Rugged outdoor design
Applications	RTK, PPK, CORS, surveying, marine and monitoring

Positioning Benefits

Centimetre-level positioning: Optimized for RTK and PPK workflows where reliable high-accuracy fixes are essential.

Full constellation tracking: Simultaneous multi-constellation reception improves availability and reliability in challenging environments.

Superior multipath suppression: Reduces reflected-signal interference near structures for cleaner and more stable measurements.

L-Band correction support: Compatible with modern PPP and correction services for enhanced performance in remote locations.

Exceptional signal quality: High gain and low-noise design improve tracking sensitivity, initialization and robustness.

Survey and reference-station ready: Suitable for control networks, marine navigation, precision agriculture, machine control and infrastructure monitoring.

Typical Applications

RTK and PPK surveying | CORS and reference stations | Marine positioning | Construction | Geodetic monitoring

Discuss your survey, reference-station or integration requirements at info@navaisgnss.com