

# NAVIK 300 GNSS RECEIVER

**Trimble** *POWERED*

## *AN ADVANCED AND RELIABLE SURVEYING SOLUTION*

Advanced signal tracking in challenging environments. Increased productivity of surveying & mapping professionals by dint of its unmatched performance and accuracy.



# NAVIK-300 GNSS RECEIVER



## KEY FEATURES

### MULTI CONSTELLATIONS TRACKING

336 tracking channels  
Supports GPS, Beidou, GLONASS, Galileo, IRNSS,  
SBAS, QZSS, MSS L-Band.



### MULTI NETWORK CONNECTION

Supports NTRIP, Wi-Fi, BLE, Radio, 4G.



### POWERFUL BATTERY

Powered by high capacity (6800mAh)  
Li-ion battery to ensure continuous  
operation.



### GREATER EFFICIENCY WITH ENHANCED UHF

Upto 5 km range.  
Tx/Rx in the frequency range of 866 MHz  
or 403- 473 MHz optional.



### RUGGED DESIGN

Rugged housing with IP67 Dustproof &  
Waterproof design Can survive 2 m drop  
onto concrete.



### INTEGRATED GNSS RECEIVER

Integrated with a GNSS board, Bluetooth  
and adjustable TX & RX UHF Radio. Smoothly  
work with every type of CORS with 4G modem in-built.



### EASY TO USE

Compact size along with very easy app  
interface.



### HIGH LEVEL ACCURACY

Provides centimeter/millimeter level  
accuracy no matter where you are.



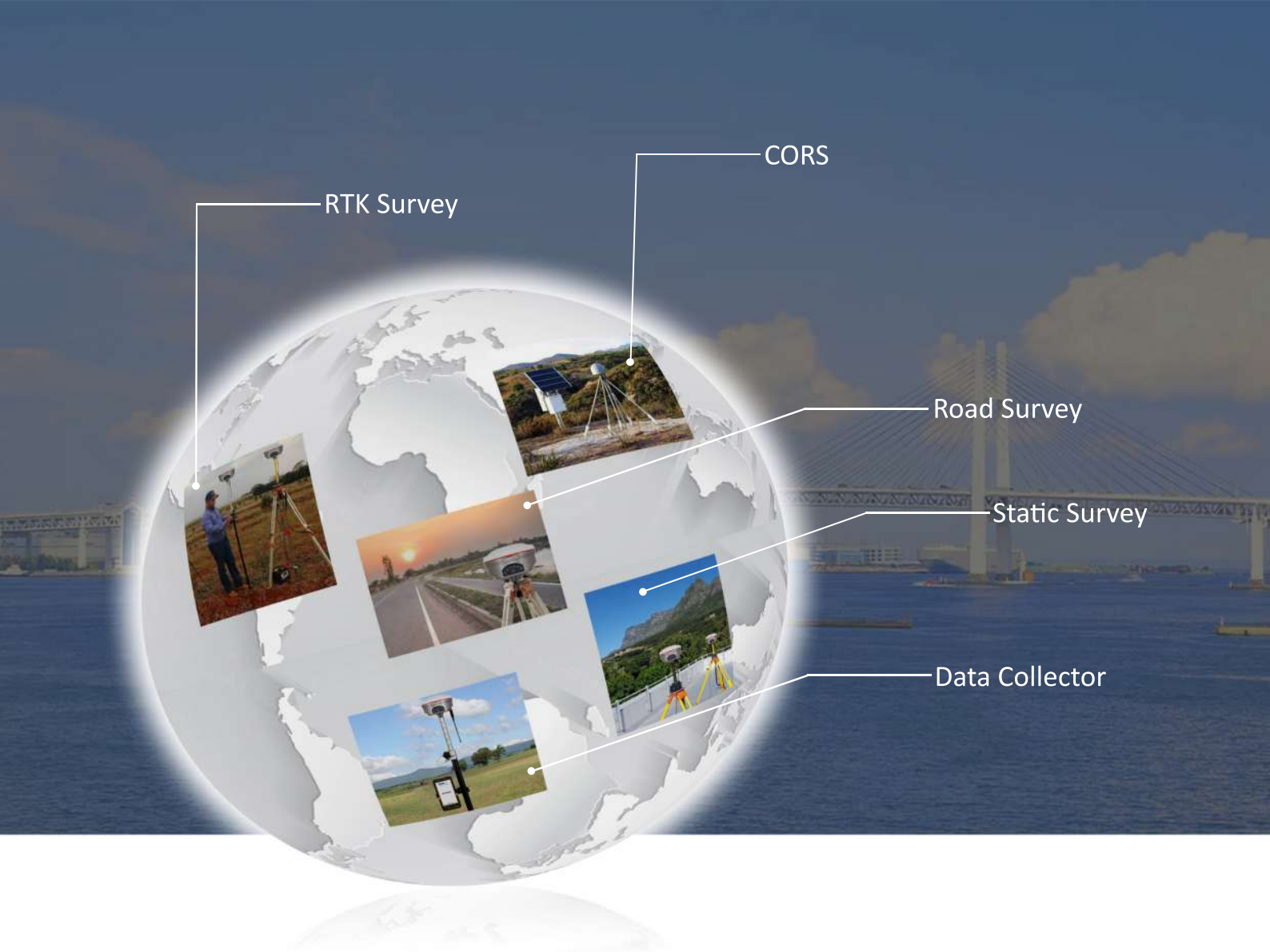
**Supports center point RTX enabling survey without  
base station CORS.**

**Extended RTK support using TRIMBLE Technology**

**Everest Plus™ multipath mitigation technology.  
Proven TRIMBLE low elevation tracking  
technology.**

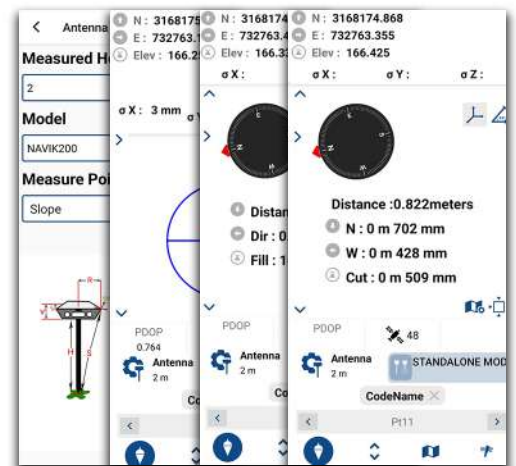
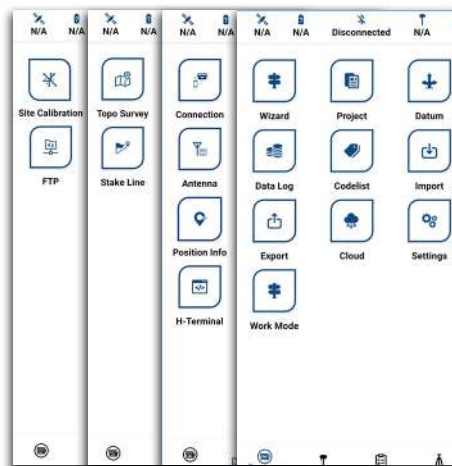
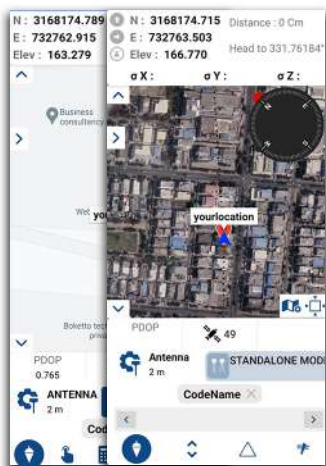
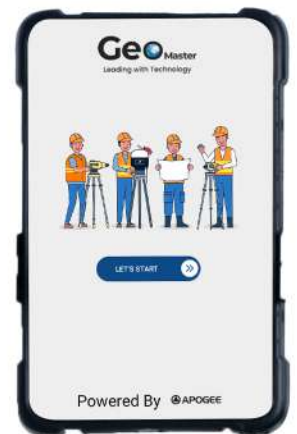






## GEO MASTER SURVEY APP

- GeoMaster is a survey data collection android application.
- It supports all modes of surveying like Static, PPK and RTK.
- GeoMaster is a professional and easy to use app which is designed for more productive surveys.
- GeoMaster also provides a convenient way to import/export surveying data in various formats.
- It is ideal for topographic survey, stake out, auto surveying and incorporates various cogo functions.



# NAVIK-300 GNSS RTK SYSTEM



## SPECIFICATIONS

### Satellite Signal Tracking

336 channels simultaneous tracking.

### Signals/Constellations Tracked

GPS.....L1C/A, L1C, L2C, L2E, L5  
GLONASS.....L1C/A, L1P, L2C/A, L2P, L3  
GALILEO.....E1, E5A, E5B, E5 AltBOC, E6<sup>2</sup>  
Beidou.....B1, B1C, B2, B2A, B2B, B3  
IRNSS.....L5  
QZSS.....L1C/A, L1S, L1C, L2C, L5, L6  
SBAS (WAAS, EGNOS, GAGAN, MSAS): .....L1C/A, L5  
L-band .....CenterPoint RTX

### Positioning Specifications

#### Static GNSS Surveying

##### High-Precision Static

Horizontal.....3 mm + 0.1 ppm RMS  
Vertical.....3.5 mm + 0.4 ppm RMS

##### Static and Fast Static

Horizontal.....3 mm + 0.5 ppm RMS  
Vertical.....5 mm + 0.5 ppm RMS

### Real Time Kinematic Surveying

#### Single Baseline <30 km

Horizontal.....8 mm + 1 ppm RMS  
Vertical.....15 mm + 1 ppm RMS

#### Network RTK

Horizontal.....8 mm + 0.5 ppm RMS  
Vertical.....15 mm + 0.5 ppm RMS

### Trimble RTX Correction Services

#### CenterPoint RTX

Horizontal.....2 cm (0.06 ft) RMS  
Vertical.....5 cm (0.16 ft) RMS  
RTX convergence time for specified  
precisions in Trimble RTX Fast regions.....< 1 min  
RTX convergence time for specified  
precisions in non RTX Fast regions.....< 3 min

#### Code Differential GNSS Positioning

Horizontal.....0.25 m + 1 ppm RMS  
Vertical.....0.50 m + 1 ppm RMS  
SBAS.....typically <5 m 3DRMS

RTK Convergence Time.....< 10 s

### Environmental

Operating Temperature.....-40 °C to +65 °C (-40 °F to +149 °F)  
Storage Temperature.....-40 °C to +80 °C (-40 °F to +176 °F)  
IP Rating.....IP67  
Humidity.....93%

### Interfaces

Wireless.....Wi-Fi, BLE, Radio, 4G, NTRIP  
Wired.....RS-232, USB

### Data and Format

Protocols.....RTCM 3.X, Rinex 3.x, NMEA v3.0,  
v4.0 CMR, CMR+

### Physical

Size.....φ156x106  
Weight.....1.3 kg (approx)



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