

GNSS Receiver

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# Tilt survey: Accurately, Efficiently, Conveniently

- → Tilting does not require tedious initialization. After getting fixed, circling and shaking can directly make the receiver become "Ready".
- ◆ Support for the pole calibration, and any of the pole can be used. Higher precision and more reliable data can be obtained after calibration.
- ◆ Maximum tilt angle can be up to 60°, accuracy ranges from 2cm to 5cm depending on the tilt angle.
- ◆ Dynamic accurate measured, from now on you can do the surveying while moving, measuring and staking points without centering.

# Color LCD Display, multi-touch

- Industrial level dustproof and waterproof grade
- high brightness, full liquid crystal, full color
- support touch screen and full screen gestures,
- ◆ 1.45 "color display capacitive screen,

## Longer battery life, shorter charging time

- ◆ Built-in battery(13600mAh) for longer lasting operation
- ◆ USB-PD quick charge +Type C interface

Improved built-in radio(5W), support effective working distance 10KM



Extinguish: No receiving satellites

Blink red: Satellites received, but not positioning success

Blink green: Positioning success, but not fixed Satellite indicator light

Green light on: Fixed solution

Red/Green lights flicker alternately; GNSS motherboard dysfunction

Green light on: Datalink setup success

Blink green: Data transmission 2 Datalink indicator light

Blink blue: Blue light flashes according to the set static smpling interval

Extinguish: No Bluetooth connection Bluetooth indicator light

Blue light on: Bluetooth connextion with device

Green light on: Electric quantity: 30%-100% 4 Power indicator light Blink green: Electric quantity: 10%-30%

Blink red: Electric quantity: <10%, beeping sound: interval per second

Rde light on when charging, green light on after charging

**6** Power button Power button, used to start and close devices

**6** Display 1.45-inch color touch screen, used for interface display and settings



1 5pin To connect external power supply and external radio

2 Type-c For charging and data transfer

SIM NANO SIM Card

















IP67







### • GNSS Performance

BD990 Board 336 Channel

## Satellites

L1CA/L2E/L2C/L5 GPS GLONASS L1CA/L2CA/L3CDMA

BDS B1/B2/B3

Galileo E1/E5A/E5B/E5AltBOC/E6

NAVIC L5

QZSS L1CA/L1SAIF/L1C/L2C/L5

SBAS L1CA/L5

#### Position Accuracy .....

Static  $\pm (2.5+0.1\times10^{-6}\times D)$ mm Horizontal

Vertical  $\pm (5.0+0.4\times10^{-6}\times D)$ mm

RTK

 $\pm (8.0 + 1 \times 10^{-6} \times D)$ mm Horizontal Vertical ±(15+1×10<sup>-6</sup>×D)mm Up to 50Hz Update Rate

## System

Operation System Linux

Button Power On/Off; Report current working mode & Status

Satellites / Datalink / Bluetooth/ Indicators

WIFI Status/Power TTS Multi Language Voice

Voice Guide Tilt Survey Support

Accuracy 2cm @ 30°tilt

5cm @ 60°tilt (Note: Rod height 1.8m)

#### Interface

TNC UHF Antenna

External Radio and External Power 5pin Type-C For charging and Data Transmission

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Nano SIM Slot Other

### Communication

TRM501 (5W Power) Radio

403-470MHz Radio frequency

Trim Talk 450S, PCC, Satel, Protocol

Hi-Target(9600), Hi-Target(19200), Trim Talk(4800), HZSZ,

South(9600), South(19200),

TrimMarkIII

Network Global Network Module (EG25-G)

BT5.0. BLE

LTE FDD: B1/B2/B3/B4/B5/B7/B8 /B12/B18/B19/B20/B25/B26/B28 LTE TDD: B38/B39/B40/B41

UMTS: B1/B2/B4/B5/B6/B8/B19

GSM: B2/B3/B5/B8

WIFI 802.11 b/g/n

#### Physical and storage \_\_\_\_\_\_

Bluetooth

Dimensions 154\*154\*76mm (LxWxH)

1.55kgs Weight

1.45-inch TFT LCD Display Screen

Work Temperature -30°C~+65°C Stock Temperature -40°C~+80°C IP67 Standard Ingress Protection

Shock & Vibration Withstand 2m along with rod drop onto hardwood floor, 1.2m

drop without pole

Internal Memory 32GB

100% Condensing Humidity