GNSS RECEIVER
F100

› **Highly Integrated GNSS Receiver**
› **Color LCD Display with Multi-touch Screen**
› **Accurate and easy to use tilt surveying technology**

Compared with the traditional tilt measurement method, F100 is easier to operate, has reliable accuracy, greatly improve work efficiency, and unlimited environment.

Multi-touch screen with a color LCD display
The 1.45in color LCD display with a multi-touch capacitive screen has an industrial level dustproof and waterproof grade. It has a high brightness with full liquid display and full color.

Accurate, efficient and convenient tilt surveying technology
The F100 tilt does not require tedious initialization. After getting fixed, circling and shaking can directly make the receiver become "Ready". It also support the pole calibration and any model of pole can be used. After calibration, higher precision and reliable data can be obtained.

The maximum tilt angle can go up to 60° with accuracy range from 2cm to 5cm depending on the tilt angle. The F100 tilt is able to deliver accurate dynamic measurements allowing a soft field-work without staying on measuring points.

Long Battery life with a shorter charging time
Its shorter charging time and a battery having 13600mAh capacity are new features that are essential for lasting field work.

Built-in 5 Watt radio with working distance up to 10km

GNSS

GPS Board	BD 990
Channels	336
Satellites	GPS: L1C/A, L2C, L2E, L5 GLONASS: L1C/A, L2C, L3 BeiDou: B1, B2, B3 Galileo: E1, E5A, E5B, E5AltBOC, E6 IRNSS: L5 QZSS : L1C/A, L1SAIF, L1C, L2C, L5 SBAS: L1C/A/L5
Update rate	Up to 50 Hz
Static accuracy	Horizontal ±(2.5 + 0.1×10-6 ×D)mm RMS Vertical ±(5.0 + 0.4×10-6 ×D)mm RMS
RTK accuracy	Horizontal ±(8.0 + 1×10-6 ×D)mm RMS Vertical ±(15 + 1×10-6 ×D)mm RMS

SYSTEM

OS	Linux
Button	Power On/Off; Report current mode & Status
Indicators	Satellites/Datalink/Bluetooth/WIFI Status/Power
Voice Guide	TTS Multi Language Voice
Tilt Survey	Supported
Accuracy	H: 2cm @ 30°tilt V: 5cm @ 60°tilt (note: Rod height 1.8m)

INCLUDED ACCESSORIES

Pole Clamp with Controller Holder

Charger li-Ion 8.4 volts

Uhf antenna 410-470 mhz

Rugged carrying case

Measuring Tape

INTERFACE

TNC	For UHF Antenna
5 pins	External radio and external power
Type-C	For charging and Data transmission
Others	SIM slot and TF slot

COMMUNICATION

Radio model	TRM501 (5W Power)
Radio frequency	403-470MHz
Protocol	Trim Talk 450S, PCC, Satel, Hi-Target (9600), South(19200), TrimMarkIII
Network	Network board (EG25-G) 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
Bluetooth	BT 5.0, BLE
WIFI	802.11 b/g/n

PHYSICAL AND STORAGE

Dimensions	154*154*76mm (LxWxH)
Weight	1.55kgs
Screen	1.45-inch TFT LCD Dispay
Work Temperature	-30°C - + 65°C
Stock Temperature	-40°C - + 8O°C
Ingress Protection	Ingress Protection
Shock & Vibration	Withstand 2m along with pole drop onto hardwood floor, 1.2m drop without pole
Internal Memory	1.2m drop without pole
Humidity	100% condensing

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