

# 660RTK

## Introduction

660RTK is a handheld RTK positioning terminal with built-in 4G, WIFI, Bluetooth and CORS services. It adopts high-precision RTK module and supports 16 frequency signal reception of satellite navigation systems such as GPS, Beidou, Galileo and QZSS. RTK fixed solution The state positioning accuracy can reach 1 cm, which is suitable for precise measurement occasions.

The 660RTK also has sensors such as a barometric thermometer, a three-axis electronic compass, and a three-axis accelerometer, which are suitable for outdoor sports such as hiking, paragliding, and parachuting.

660RTK is optimized for industrial applications, with functions such as picking points and finding points, sharing AB points, topographic measurement, grid tree planting, spot measurement area, surrounding area, and the length of straight lines and curves. Built-in hundreds of coordinate systems such as WGS84, Beijing 54, Xi'an 80, UTM, MGRS, etc. It also supports setting three sets of custom coordinate systems at the same time.

## Function

**Stake out:** Marking and finding farmland outlet stakes

**Shared AB point :** Provide AB point coordinate data to tractor autopilot

**Area length:** Enclosed area, dotted area and other area length measurement methods

**Elevation Analysis :** Collect and analyze terrain heights and estimate land leveling effort

**File format:** GPX format, exportable to CSV, CAD file formats

**Waypoint file :** GPX format, exportable to CSV, CAD file formats

**Track file :** 10,000 points per entry, unlimited number of files

**Route file :** 1000 points per entry, unlimited number of files

**Area file :** Up to 200 measurement records can be saved

**Map format :** Support MBTiles, RUN.GPS Atlas offline maps

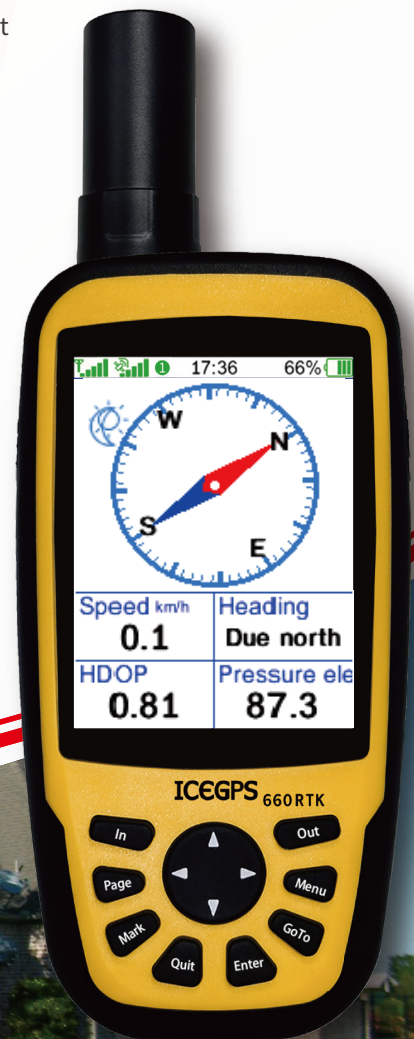
**Multiple coordinates :** Display 3 kinds of coordinates on the same screen, easy to compare data

**Coordinate system :** More than 100 predefined and custom coordinate systems around the world such as WGS84, Beijing 54, Xi'an 80, National 2000, UTM, MGRS, etc.

**Parameter estimation :** Support Beijing 54, Xi'an 80 conversion parameter calculation

**Waypoint icon:** Allow users to customize waypoint icons

**Bluetooth transmission:** Support for Bluetooth file sharing and use with GNSS



# Product Specifications

## (Dual Frequency)

### GNSS performance

Tracking frequency	<b>GPS/QZSS:</b> L1/L5 ; <b>BeiDou :</b> B1I/B2a <b>GALILEO:</b> E1/E5a ; <b>GLONASS:</b> G1 (Optional)
Data update frequency	1Hz/5Hz
Sensitivity	<b>Track:</b> -165dBm ; <b>Recapture:</b> -160dBm ; <b>Capture sensitivity:</b> -148dBm
Speed accuracy	0.1m/s
First positioning time	<b>Cold start:</b> 27s ; <b>Hot Start :</b> 2s
RTK accuracy	<b>Horizontal accuracy:</b> 1cm + 1ppm ; <b>Elevation accuracy:</b> 2cm + 1ppm
Application limit	<b>Speed:</b> 515m/s ; <b>Height:</b> 18km
Data Format	NMEA 0183

### Physical Specifications

Volume	70×143×36mm
Screen size	3.2 Inch
Screen Resolution	240*320
Weight	271 g
Shell material	ABS
Battery capacity	6000mAh Lithium battery
Sensor	Electronic compass, accelerometer, barometer, thermometer
External interface	Type-C
Protection class	IP65

### Performance Specifications

Battery life	15H
Supported Differential Methods	NTRIP
Storage card	TF card, up to 128G, FAT32 file system
Bluetooth	Support Bluetooth 5.0, support SPP, BLE, HID and other profiles
Telecommunication	4G/WIFI
Operating system	MTK
System language	Chinese/English/Korean

### Operating environment

Working temperature	-20°C ~ 70°C
Storage temperature	-20°C ~ 70°C
Waterproof and dustproof	The equipment can completely prevent dust from entering; The low-pressure spray from any angle of the equipment has no effect.