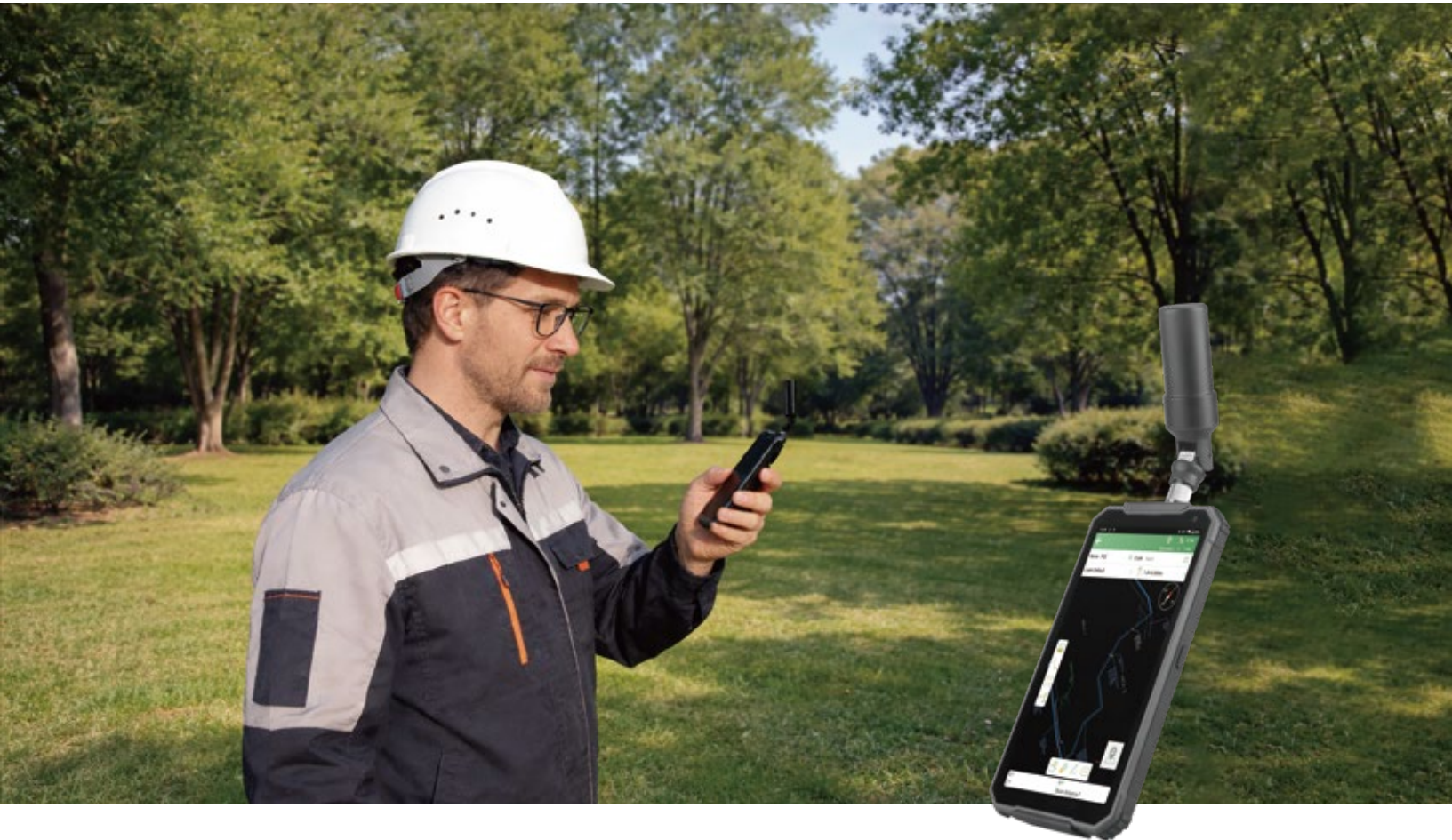# HT6
HANDHELD TERMINAL

Smart Precision in the Palm of Your Hand

ALL-IN-ONE HANDHELD DESIGN

The HT6 integrates an RTK GNSS engine, a GNSS helix antenna, a 6-inch touchscreen terminal, Android smart system, and industrial-grade hardware into a compact handheld device. Its lightweight and standalone design enables efficient field positioning, data collection, and intuitive on-screen control for professional applications.

CENTIMETER-LEVEL ACCURACY

Featuring a 1408-channel GNSS engine with full-constellation tracking, the HT6 delivers reliable centimeter-level RTK positioning for demanding surveying and GIS applications. Advanced anti-interference algorithms ensure stable and precise accuracy even in complex or partially obstructed environments.

SMART & SMOOTH EXPERIENCE

Powered by a Qualcomm octa-core processor and Android 10 OS, the HT6 delivers fast, responsive performance for professional workflows and mainstream surveying or GIS software. Dual Nano-SIM, Wi-Fi, Bluetooth, and NFC modules provide flexible connectivity and seamless data transmission in the field.

SYSTEM

CPU	Qualcomm Octa-core CPU, 1.8 GHz
OS	Android 10.0 GMS
ROM	64 GB
RAM	4 GB
TF Card	Support
Rear Camera	13 megapixels with auto-focus and flash
Front Camera	5 megapixels

SATELLITES TRACKING

Standard Configuration

Channels	1408
GPS	L1C/A, L2C, L2P, L5
BDS	B1I, B2I, B3I, B1C, B2a, B2b*
GLONASS	G1, G2
Galileo	E1, E5a, E5b, E6*
QZSS	L1, L2, L5
SBAS	WAAS, EGNOS, SDCM, BDSBAS, GAGAN
Cold start	<30s
RTK Initialization Time	<5s(typical)
RTK initialization reliability	>99.9%
Re-acquisition	<1s

* Signals marked with * are reserved for future upgrade.

Enhanced Configuration (Optional)

Channels	1408
BDS	B1I, B2I, B3I, B1C, B2a, B2b
GPS	L1C/A, L1C, L2C, L2P(Y), L5
GLONASS	G1, G2, G3
Galileo	E1, E5a, E5b, E6
QZSS	L1C/A, L1C, L2C, L5
NavIC	L5
SBAS	WAAS, EGNOS, SDCM, BDSBAS, GAGAN
L-Band	Support
RTK Initialization Time	<5s(typical)
RTK initialization reliability	>99.9%
Re-acquisition	<1s

PHYSICAL

Size	81.6mm ×162mm × 13mm
LCD Display	6″ IPS LCD, 500nits sunlight readable, capacitive multi-touch
Resolution	1440×720 pixel
Weight	265 g
Keypad	Power, Volume up/down, F1, F2
Sensors	Gravity sensor, Gyroscope, Accelerometer, Ambient light sensor

ACCURACY

Standalone	1.5m Horizontally 2.5m Vertically
DGPS	0.4m Horizontally 0.8m Vertically
PPP (Enhanced version only)	5cm Horizontally 10cm Vertically
Static post-processing	2.5mm+0.5ppm Horizontally 5mm+0.5ppm Vertically
RTK	8mm+1ppm Horizontally 15mm+1ppm Vertically
SBAS	< 1.0 m 3D RMS
Time Accuracy	20ns

COMMUNICATION

WIFI	2.4 GHz + 5 GHz, 802.11 b/g/n/ac
Network	GSM: 850 / 900 / 1800 / 1900 EVDO: BC0 WCDMA: B1 / B2 / B5 / B8 TD-SCDMA: B34 / B39 TDD-LTE: B38 / B39 / B40 / B41 FDD-LTE: B1 / B2 / B3 / B4 / B5 / B7 / B8 / B17 / B20 / B28
Bluetooth	BT4.2
SIM Card	Nano-SIM slot ×2
USB	USB Type-C
I/O Interface	12×back pins Pogo Pin UART/USB/-CAN/DCIN/GPIO/USB2.0
NFC	13.56 MHz
Audio	Rear-facing speaker, Microphone

ELECTRICAL

Battery	Standard 3.85V/5000mAh Lithium-ion battery, 19.25Wh
Input	5V/2A DC
Battery Life	12 hours of operation and 168 hours of standby

ENVIRONMENTAL

Working Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Storage Temperature	-30 °C to 70 °C (-22 °F to 158 °F)
Waterproof & Dustproof	IP67
Drop Test	26 drops from 1.2 m (4 ft.)
Vibration	Complies with MIL-STD-810G
Humidity	95% non-condensing

All specifications are subject to change without notice.