



Palm 3

High Precision Network RTK Rover

Lighter & Portable

Full Constellation

Flexible Use with Cellphone

1408
Channels

4800mAh
Battery

IP54
Protection

0.55kg
Total Weight

Key Features



Compact Integration

Battery, GNSS antenna & BT 4.0 integrated in one small, rugged body.



Full Constellation

BeiDou, GPS, GLONASS, Galileo, QZSS — 5 systems in one receiver.



TYPE-C Charging

Universal TYPE-C interface for charging and firmware upgrade.



4800mAh Battery

Built-in high-capacity battery with 16+ hours of continuous field work.



Bluetooth 4.0

Built-in wireless for stable Android phone connections.



IP54 Protection

Waterproof & dustproof design for harsh outdoor environments.



Ultra-Lightweight

Only 0.55 kg total — compact and easy to carry on every job.



Versatile Mounting

Handheld or screwed directly onto the centering rod.



GeoCell Software

Survey, stakeout, CAD & full support for any CORS system.

Application Scenarios

**Forestry**

**Infrastructure**

**Urban Planning**

**Environmental**

**Traffic Mgmt.**

**Disaster Response**

**Agriculture**

**Outdoor Travel**

**Land Surveying**

**Power Inspection**

**Water Conservancy**

**Education**

Why Palm 3



8mm+1ppm
Centimeter-Level RTK Accuracy

Reliable cm-level precision for surveying and mapping in any environment.



16+ hrs
All-Day Battery Life

4800mAh battery for all-day RTK field work with Type-C charging.



0.55kg
Ultra-Portable Design

Compact and rugged IP54-rated design for any field deployment.

Supported GNSS Systems

GPS

GLONASS

Galileo

BeiDou

QZSS

SBAS

Software Ecosystem

GeoCell (Android OS) | Supports CORS / NTRIP | CAD & GIS Ready

GNSS

Channels: 1408
GPS: L1C/A, L1C, L2P(Y), L2C, L5
GLONASS: G1, G2, G3
Galileo: E1, E5a, E5b, E6
BDS: B1I, B2I, B3I, B1C, B2a, B2b
QZSS: L1C/A, L1C, L2C, L5
SBAS: L1C/A
Positioning rate: 1 Hz (Max. 20 Hz)
Signal reacquisition: <5 s

GNSS ACCURACIES (RTK)

Horizontal: 8 mm + 1 ppm RMS
Vertical: 15 mm + 1 ppm RMS
Initialization time: <5 s
Initialization reliability: >99.9%
Tilt compensation: 0–60° (25 mm within 30°)

STAND-ALONE

Horizontal accuracy: 1.5 m
Vertical accuracy: 2.5 m
Positioning rate: 1 Hz (Max. 20 Hz)

COMMUNICATIONS

Bluetooth: BT 4.0
APP supported OS: Android OS
Data format: NMEA-0183
Correction data: RTCM 3.3 / 3.2 / 3.1 / 3.0
Baud rate: 115200
Port: Standard Type-C connector

POWER

Input voltage: DC 5 V, max 1 A
Battery capacity: 4800 mAh
Power consumption: 1 W
Battery life: 16+ hours

PHYSICAL

Size: Φ165 mm × 70 mm
Weight: 0.55 kg
Working temperature: -45 °C to +75 °C
Storage temperature: -55 °C to +85 °C
Shock & vibration: Survives a 2 m drop
Indicator: 2 LED indicators
Buttons: 1 physical button
Ingress protection: IP54 waterproof & dustproof

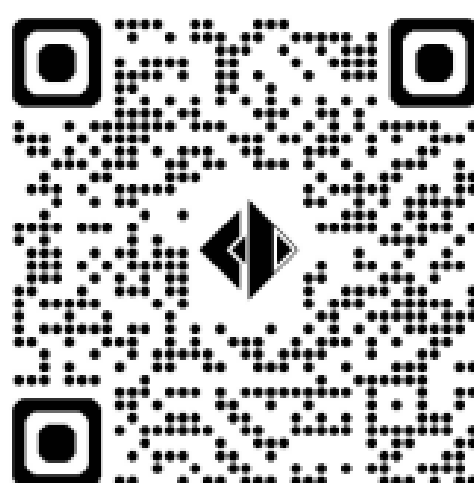
* All specifications are subject to change without notice.
(1) Accuracy depends on the open sky, free of multipaths, optimal GNSS geometry and atmospheric conditions. (2) Battery life is subject to the particular operating temperature.
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