

DATASHEET

High accuracy GNSS handheld

Android™ 10 operating system

6-inch high resolution sunlightreadable display

Powerful Qualcomm[®] processor with 4 GB RAM and 64 GB internal storage

Large capacity, user replaceable all day battery

Ultra-rugged design with MIL-STD-810 certification

4G LTE, Wi-Fi, Bluetooth® connectivity options for voice calls and data

Spectra Geospatial SP30, the ideal integrated solution.

The Spectra Geospatial® SP30 is the highly accurate handheld receiver that delivers unparalleled convenience and cost-efficient high performance.

Powerful, easy-to-use with Android™ 10 OS, support for RTX L-band, and RTK accuracy, it is like no other handheld. And it features an array of upgrades compared to previous product versions, including a faster processor, more RAM and data storage, an improved camera, a brighter, six-inch, all-weather display, and a bigger battery.

Versatile and scalable, you can rely on the Spectra Geospatial SP30, whatever the project. With several accuracy levels, it's the ideal compact solution for any task or budget.

Spectra Geospatial SP30, Work faster. Work longer. Work better.





GNSS CHARACTERISTICS

- 240 GNSS channe
- GPS L1 and L2 GLONASS L1 and L2
- BeiDou B1 and B2
- Galileo E1 and E5b
- QZSS L1 and L2
- SBAS L1(WAAS, EGNOS, MSAS, GAGAN)
- L-band
- Scalable accuracy from meter to centimeter (meter, sub meter (30/30), decimeter (7/2), centimeter)
 Patented Z-Blade technology for optimal GNSS performance
- Full utilization of signals from all 6 GNSS system (GPS, GLONASS, BeiDou, Galileo, QZSS and SBAS)
- Berlou, B
- Fast Search engine for quick acquisition and re-acquisition of GNSS signals
 Patented SBAS ranging for using SBAS code & carrier observations and orbits in RTK Processing
 Patented StrobeTM Correlator for reduced GNSS multi-path
 Supported data formats: ATOM, CMR, CMR+, RTCM 2.1, 2.3, 3.0, 3.1 and 3.2 (including MSM), CMRx and sCMRx
 External antenna connector (TNC)

- Protection against future LTE and 5G signals thanks to new TALLYSMAN[®] extended filtering technology

REAL-TIME ACCURACY (RMS)^{1,2}

Meter (SBAS only)

- Horizontal: < 70cm
- Vertical: < 90 cm

Sub-Meter

- Horizontal: 30cm
- · Vertical: 30cm

Decimeter

- Horizontal: 7cm
- Vertical: 2cm
- Centimeter ³
- Horizontal: 10 mm + 1 ppm Vertical: 15 mm + 1 ppm

REAL-TIME PERFORMANCE

- Instant-RTK[®] Initialization
 Typically 2 sec for baselines < 20 km
- Up to 99.9% reliability
 RTK initialization range: over 40 km

- TRIMBLE RTX POSITIONING 4
- FieldPoint™ RTX: 10 cm horizontal

Initialization Fast: < 5 min

POST-PROCESSING ACCURACY (RMS) 1,2

- Horizontal: 15mm + 1ppm
- Vertical: 25 mm + 1 ppm
- PROCESSOR
- Qualcomm Snapdragon 626
 Clock frequency: 2.2 GHz

OPERATING SYSTEM

- Android[®] 10 (Google certified)
 Android Security Updates provided until December 2024
- · Software package includes: Google Mobile Services

MEMORY

- 4 GB RAM
- Storage: 64 GB (non volatile).
 MicroSDXC[™] memory card (up to 256 GB)

COMMUNICATIONS

Cellular

Cellular
 GSM (850,900,1800,1900), WCDMA (B1, B2, B5, B8), LTE-FDD(B1, B2, B3, B4, B5, B7, B8, B12, B13, B17, B20, B25, B28), LTE-TDD (B38/B39/ B40/B41), TD-SCDMA (B34, B39)
 Nano SIM x2

SPEKTRA

A TRIMBLE COMPANY

- Wi-Fi (IEEE) 802.11 a/b/g/n/ac
- Bluetooth 4.1
 NFC (13.56 MHz)
- USB 3.0 (Type C)

ENVIRONMENTAL CHARACTERISTICS

- Operating temperature: -20° to +55°C (-4 to 131°F) 5
 Storage temperature: -40° to +70°C without battery
- Storage temperature: -40 to +70 to without bartery (-40 to 158°F)⁵
 Humidity: 5% to 90% RH, non-condensing. According to MIL-STD-810H 507.6
 Water & dust proof: IP67 (IEC 60529)

SP30

Accuracy and TTFF specifications may be affected by atmospheric conditions, signal multipath, satellite geometry and corrections availability and quality.

2. Performance values assume the other of the satellites, following the procedures recommended in the product manual. High multipath areas, high PDDP values and periods of severe atmospheric conditions may degrade performance. Except for Meter (SBAS only), real time accuracies require RTK

corrections. PP accuracy obtained with Mobile Mapper Office (high accuracy

RTX on SP30 is not supported outside RTX Fast areas (https:// positioningservices.trimble.com/resources/coverage-maps/).

option enabled).

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SP30 cm used with Monopole accessory

Batteries can be stored up to +70°C.

- Water & dust proof: IPO/(IEL 00029)
 Salt fog (MIL STD 810 H method 509.7)
 Free drop: 1.2 m (3.9ft), 10 drops
 (2 faces, 4 edges and 4 corners) on concrete
 Shocks: MIL STD 810G (fig 516.6-10 Procedure I)
- Vibration: MIL-STD-810G (fig 514.6CI-Cat4)
- Altitude: MIL-STD-810G-2014 Method 500.5

POWER CHARACTERISTICS

- Battery Li-Ion: 8000mAh
 Battery life: > 8 hrs @ 20 °C (68°F) with GNSS on
- Charging time: 4 hours
 Removable battery

PHYSICAL CHARACTERISTICS

- Size: 30.6 x 12.2 x 4.7 cm (12 x 4.8 x 1.8 in)
 Weight: 790 g (1.74 lb)

User interface

- 2 volume keys, on/off key, 4 programmable keys, standard Android touch panel 3 buttons
- On screen keyboard display
 Size: 6.0" capacitive multi touch
 Resolution: 1920 x 1080 pixels
- Brightness: 450 Cd/m2
- Panda glass 3 damage-resistant
- · Auto rotate between Portrait and Landscape

MULTIMEDIA & SENSORS

Rear camera: 13 M pixels with auto-focus and LED flash

RTK rover: Direct IP, NTRIP (VRS, FKP, MAC networks) Post-processing with MobileMapper Office
Trimble RTX IP or Satellite

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Via Pellizzari 23/A, 20871 Vimercate (MB)

(both exhibit excessive power consumption)

- Front camera: 5 M pixels with fixed focus
- E-Compass
- Gyrometer Accelerometer
- Ambient light sensor
- Barometer
- Speaker
- Microphone
 Light sensor

STANDARD ACCESSORIES

- Handstrap
 Screen protectors (x2)
- A/C charger
- USB cable

Monopole

- Pouch
- Battery door opener
- Monopole adaptor OPTIONAL ACCESSORIES External GNSS antenna
 Pole bracket

Dual-battery charger

OPERATING MODES

FIELD SOFTWARE

MobileMapper Field

or 3rd party Android applications

Origin LTOrigin GNSS

Penman