Spectra Geospatial SP20 GNSS Handheld

Product Description

Power characteristics

* Battery lithium ion: 6400mAh
* Battery life: > 8 hrs @ 20 °C with GNSS on
*Charging time: 4 hours
*Removable battery

Physical characteristics
*Size: 29.5 x 12 x 4.5 cm (11.6 x 4.7 x 1.8 inches)
*Weight: 850 g (1.87 lbs)

User Interface
*2 Volume keys, On/Off/Reset keys, 2 Programmable keys

Standard accessories

* Hand strap
* Screen protector (x2)
*Air conditioner charger
* USB cable
*Pouch
*Battery door opener
* Monopole adapter

Interface
*USB2.0 (micro)
* External antenna connector (TNC)
*Audio jack 2.5 plug (CTIA/AHJ standard)

Features

1. Integrated high precision GNSS
2. Innovative Camera Logging Ergonomic
Design
3.Android operating system
4.GIS and Surveying Solutions

memory
*2 GB SDRAM
*Storage: 16 GB (nonvolatile).
* MicroSDHC™ Memory Card: (up to 64
GB, SanDisk®,
Kingston R recommended)

operating system

* Android® 6.0 (Google certified)
* Available languages: Afrikaans, German,
English, Spanish, French, Italian,
Portuguese (Portuguese and Brazil),
Japanese, Korean,
Simplified Chinese, Greek, Russian,
Azebaijani, Czech, Danish, Lithuanian,
Hungarian, Dutch, Norwegian (Bookmar),
Romanian,
Finnish, Swedish, Turkish, Bulgarian,
Serbian (Kyrillian), Hindi, Polish
* Software packages include: Google Mobile
Services, Sat-Look

specification

Environmental characteristics

* Operating temperature: -20° to 60°C

(-4 to 140°F)
*Storage temperature: -30℃ to 70℃

No battery (-22 to 158°F) 5
* Humidity: 95% No condensation
*Waterproof and dustproof: IP67
*Free Fall: 1.2m above concrete
*Shock: MIL STD 810 (Figure 516.5-10) (01/2000)

* Vibration: MIL-STD-810F (Figure 514.5C-17) (01/2000)

communication

* mobile phone

– GSM (850,900,1800,1900), GPRS, EDGE, UMTS, WCDMA (B1,
B2, B5, B8), HSPA, TDSCDMA (B34, B39), LTE-FDD (B1, B3, B4,
B5, B7, B8, B20), LTE-TDD (B38/B39/ B40/B41)
* Wi-Fi (IEEE) 802.11 b/g/n
* Bluetooth 4.0 dual mode
*USB (Micro B USB connector)
*NFC

Real-time Accuracy (RMS)1,2
SBAS (WAAS/EGNOS/MSAS/GAGAN)

* Horizontal: < 50 cm
* Height: < 85 cm

Real-time Kinematic Position (RTK)3
*Horizontal: 10mm1ppm
*Height: 15mm 1ppm

Real-time performance
* Initialization of Instant-RTK®
– Typically for 2 seconds if the baseline is less than 20 km.
– Up to 99.9% reliability
*RTK Initialization Range: 40 km or more

Post-processing accuracy (RMS) 1, 2
Static and fast static
*Horizontal: 3mm 0.5ppm
*Height: 5mm 0.5ppm
High precision static 4
*Horizontal: 3mm 0.1ppm
*Height: 3.5mm0.4ppm

Data logging characteristics
*Recording interval: 1 to 999 seconds

processor
* Qualcomm Snapdragon 410
* Quad Core
*Clock frequency: 1.2GHz

Android standard touch panel button

* On-screen keyboard display

*Size: 5.3 inch capacitive multi-touch
*Resolution: 1280x720 pixels
* Brightness: 450 Cd/m2
* Damage resistance due to gorilla glass
* Automatic rotation between portrait and landscape

Multimedia and Sensors
*Rear camera: 13M pixels, with flashlight
*Front camera: 2 million pixels
* Electronic compass
*G Sensor
* Speaker
* microphone
* Light sensor

Optional accessories
*External GNSS antenna
*Pole bracket
* Monopole

Operation mode
*RTK Rover: Direct IP, NTRIP (VRS, FKP, MAC network)
* Post-processing
* Trimble RTX (IP and satellites)

Field Software
* Mobile Survey
* Mobile Mapperfield
* or third-party Android applications