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SP30

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SP30 GNSS Receiver

SP30 is a multi-functional GNSS receiver that integrates AR and laser modules. It has a built-in high-precision positioning module, supporting tracking of satellite signals at all frequency points in the full system. The device is equipped with 4G Full-netcom, Bluetooth, WIFI and a 5W digital radio. Due to the intergration of built-in high-precision inertial navigation module, laser surveying module and AR real scene staking module, SP30 can provide more possibilities for surveying & mapping work.



| HEIGHT | DIAMETER | WEIGHT |
|--------|----------|--------|
| 86.6mm | 145.7mm | 1000g |

RECEIVE ALL SATELLITE SIGNALS



SP30 integrates high-precision positioning module, configures 1408 high-speed channels, supports BDS B1I, B2I, B3I, B1C, B2a, B2b(PPP-B2b), GPS L1C/A, L1C, L2C, L5, GLONASS L1, L2, L3, Galileo E1, E5a, E5b, E6(PPP-E6), QZSS L1, L2, L5, SBAS and NavIC(IRNSS).

AR REAL-SCENE STAKEOUT



Professional ultra-wide-angle camera, providing high-definition real-scene staking function, and more convenient real-scene stakeout application, makes your stakeout easier and more intuitive.



LASER SURVEYING

SP30 is equipped with a high-precision millimeter-level laser ranging module, integrated with high-precision inertial navigation, to achieve surveying anywhere and better cope with various complex environments.



ULTRA-LONG ENDURANCE

The built-in large-capacity battery enables it to operate continuously for more than 24 hours in the Rover mode.

CHARACTERISTIC



- ARM Cortex-A7
- Linux intelligent system



- BDS, GPS, GLONASS, Galileo, QZSS, SBAS, NavIC
- 4G, Radio, Bluetooth, WiFi



- Centimeter level positioning
- Positioning accuracy of less than 2cm within the tilt range of 60°



- High-capacity lithium battery
- ultra long battery endurance



- Solid magnesium alloy shell
- In line with IP68 design requirements, safe and reliable



- Support AR high-definition real scene stakeout
- Support Laser surveying

C500 Data Controller

C500 control terminal is a new Android 12 data collector launched by Spherefix, using Qualcomm's latest industrial grade processor. Equipped with a standard all English keyboard and a 5.5-inch 500nit display screen made of Gorilla glass, it is clear and easy to read in sunlight. In addition, C500 is equipped with Bluetooth 5.0, dual band 2.4G/5G WiFi, and a 4G modem that supports global networks. The built-in 9000mAh battery provides long-lasting endurance, and IP68 protection makes C500 perform well in challenging environments, making data collection tasks easier and more efficient.

KEY FEATURES

- 5.5-inch sunlight readable HD touch screen
- 8-core 2.0GHz CPU
- Android 12 operating system
- 4GB RAM + 64GB ROM
- 13MP rear camera
- IP68 certified grade, water/shock/dust proof
- 9000mAh(Support Rapid Charing)
- Wi-Fi, Bluetooth and 4G
- Type-C (USB3.0 Supports OTG).





| | TEM | SPECIFICATION | REMARKS |
|----------------------|--|---|--|
| HARD | WARE SYSTEM | ARM Cortex-A7 | 1 1 1 1 |
| i. | OS | Linux | |
| GNSS | GPS GLONASS BDS GALILEO QZSS SBAS NavIC(IRNSS)* Channel Data format Correction I / O Protocol Data update frequency Recapture Time Cold Boot | L1C/A, L1C,L2P(Y), L2C,L5 L1, L2, L3 B1I, B2I, B3I, B1C, B2a, B2b E1, E5a, E5b, E6 L1, L2, L5 L1 L5* 1408 channels NMEA-0183 RTCM3.X 20Hz <1s <40s | Support PPP-B2b Support PPP-E6 Support SBAS Requires latest firmware support |
| POSITIONING ACCURACY | Single(RMS) DGPS(RMS) RTK(RMS) Time Accuracy(RMS) Static Accuracy(RMS) Speed Accuracy(RMS) Tilt compensation Accuracy (within 60°) Laser Surveying | Horizontal: 1.5m; Vertical: 2.5m Horizontal: 0.4m; Vertical: 0.8m Horizontal: ±(8mm+1ppm); Vertical: ±(15mm+1ppm) 20ns Horizontal: ±(2.5mm+1ppm); Vertical: ±(5mm+1ppm) 0.03m/s <2cm The three-dimensional error of laser tilt surveying within 5m distance is ≤2.5cm | TBD |
| SYSTEM | Bluetooth WIFI Network Data Radio Storage Camera | BR+EDR+BLE 802.11 b/g/n LTE FDD: B1/2/3/4/5/7/8/18/19/20/25/26/28 LTE TDD: B38/39/40/41 WCDMA: B1/2/4/5/6/8/19 GSM: B2/3/5/8 Transceiver station Frequency: 410~470MHz Power: 1W/2W/5W Air baud rate: 9600, 19200bps Protocol: TRIMTALK, TRIMMK3, SOUTH, TRANSEOT 32GB Support AR real scene stakeout Sensor Size: 1/2.8 inch Aperture: f/2.5 Pixel: 1920*1080px Angle of view: D: 70.3° H: 62.7° V: 38.6° Distortion: <0.38% | |
| INDICATOR | Power Indicator Satellite Indicator Bluetooth Indicator Data link Indicator | Show power status Show position status Lights up when Bluetooth is connected Show differential signal status | |
| BATTERY | Battery Battery Endurance Charge | 7.4V,10000mAh More than 24 hours (In Phone network data link mode) Support USB PD 12V/2A, USB DCP 5V/3A Support external power supply 9~24VDC | TBD TBD |
| ENVIRONMENT | Working Temperature Storage Temperature Anti-vibration Protection | -20°C~+60°C -20°C~+70°C Resistant to 1.5m drop with pole at room temperature IP68 | |
| PHYSICAL | Material Dimension Weight | Magnesium alloy shell+ABS/PC plastic top cover Ф145.7mm*93.6mm 1000g | TBD |

Manufacturers may update parameters at any time, please refer to the latest product information.



FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -- Reorient or relocate the receiving antenna.
- -- Increase the separation between the equipment and receiver.
- -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.