

# SP358e

**GNSS RTK SYSTEM** 



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## SP35Se GNSS Receiver

SP35Se is a multi-functional GNSS receiver supporting the Linux operating system, capable of receiving signals from all satellite systems. Its next-generation measurement engine supports tilt measurement and features AR real-scene stakeout functionality. Equipped with built-in 4G full-network communication, Bluetooth, Wi-Fi, and a 1.5W LoRa radio. SP35Se offers exceptional cost-effectiveness, combining portability with durability, making it your premier choice for a foundational dual-purpose surveying tool.



HEIGHT	DIAMETER	WEIGHT
<b>86</b> mm	<b>134</b> mm	<b>750</b> g



#### Receive all satellite signals.

SP35Se 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).



#### 1.5W LoRa radio.

When SP35Se is used as a base station, transmitting at 1.5W high power in open areas, with a distance of up to 10KM.



#### AR real-scene stakeout

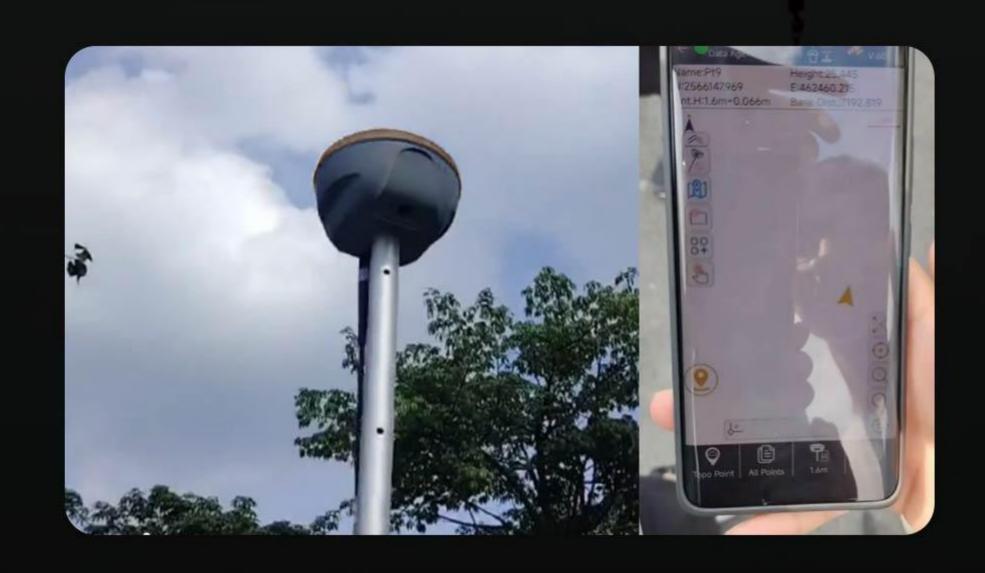
Professional ultra-wide-angle camera, providing high-definition real-scene staking function, and more convenient real-scene stakeout application, makes your stakeout easier and more intuitive.



#### Lightweight & Portable Design

Combining a magnesium alloy shell and plastic top cover with compact internal layout, SP35Se achieves an ultra-light 750g weight. Engineered for field use, it maintains accuracy while enhancing field mobility.





### 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



C100T control terminal is a versatile data controller crafted specifically for the surveying sector. It boasts an outstanding battery life of up to 18 hours. Its 5.45-inch display is readable in direct sunlight, and with an IP68 protection rating, it can withstand various harsh outdoor conditions. The powerful 8-core processor and Android 11 operating system ensure that the C100T operates efficiently and smoothly, and it is compatible with multiple measurement software applications, facilitating surveying tasks.

## Key Features

- 5.45-inch sunlight readable HD touch screen
- 8-core 2.0GHz CPU
- Android 11 operating system
- 4GB RAM + 64GB ROM
- 13MP rear camera
- IP68 certified grade, water/shock/dust proof
- 9000mAh
- Wi-Fi, Bluetooth, Network and 4G





	ITEM	SPECIFICATION	REMARKS
HARD	WARE SYSTEM OS	ARM Cortex-A7 Linux	
	GPS GLONASS BDS GALILEO QZSS SBAS	L1C/A, L1C,L2P(Y), L2C,L5 L1, L2, L3 B1I, B2I, B3I, B1C, B2a, B2b E1, E5a, E5b, E6 L1, L2, L5 L1	Support PPP-B2b Support PPP-E6 Support SBAS
GNSS	NavIC(IRNSS)* Channel Data format Correction I / O Protocol Data update frequency Recapture Time Cold Boot RTK Initialization Time Internal noise level Phase Center Offset	L5 1408 channels NMEA-0183 RTCM3.X ≤20Hz <1s <40s ≤10s ≤1mm ≤2.5mm	Requires latest firmware support
POSITIONING	Single(RMS) DGPS(RMS) RTK(RMS) Time Accuracy(RMS) Static Accuracy(RMS) Speed Accuracy(RMS) Tilt compensation Accuracy (within 60°) AR Stakeout 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 Horizontal: ± (8mm+1ppm) Vertical: ± (15mm+1ppm) The three-dimensional error of laser tilt surveying within 5m distance is ≤2.5cm	
	Bluetooth NFC WIFI Network	BR+EDR+BLE Support 802.11 b/g/n/ac 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	
SYSTEM	Data Radio Storage	Transceiver station Frequency: 410~470MHz Power: 0.5W/1.5W Air baud rate: 4800, 9600, 19200 Protocol: TRIMTALK, TRIMMK3, SOUTH, TRANSEOT, SATEL, LORA 8GB Support AR real scene stakeout Sensor Size: 1/2.8 inch	
AR Camera	AR Camera	Aperture: f/2.5 Pixel: 1920*1080px Field of view: 69.3°±3° Distortion: <0.38%	
BATTERY	Battery Battery Endurance Charge	7.4V, 6500mAh More than 16 hours (Typical, Rover, GSM) Support USB PD 12V/2A, USB DCP 5V/3A	2P2S TBD
ENVIRONMENT	Working Temperature Storage Temperature Anti-vibration Protection	-30℃~+65℃ -40℃~+85℃ Resistant to 2m drop with pole at room temperature IP68	
PHYSICAL	Material Dimension Weight	Magnesium alloy shell+ABS/PC plastic top cover Φ134mm*86mm ≤0.75Kg	

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