

SMA26 PRO Survey System

Ideal solution for survey

Overview

The SMA26 PRO survey system is a survey system including Handheld; it integrates the advantages of high precision, low power consumption, small size, convenient and fast portability and operation. It can meet various engineering needs of surveying and mapping industries.

The system consists of two SMA26 PRO GNSS receiver and a Handheld, Handheld with surveying software. The software interface is clear, easy to learn and understand, convenient and practical, making work easier, faster and more efficient. It can be widely used in surveying and mapping industries such as land, construction, forestry, roads, electric power, water conservancy, oil pipelines, etc.

New 4G RTK

Plug in the SIM card and use it immediately. Dual mode integrated design, supporting direct connection to CORS real-time measurement or self built CORS benchmark station networking, efficient and accurate, and flexible adaptation to diverse surveying and mapping scenarios.

NEW LINUX OPERATING SYSTEM

Linux intelligent operating system, supporting voice playback, 4G, WEBUI, and WIFI connection. You can easily access and set up your device by opening a website and viewing its information. Experience hassle-free connectivity with our user-friendly interface. Advanced voice interaction capabilities and a convenient self-test function make device maintenance easy.





ALL-IN-ONE DESIGN

The device has built-in Bluetooth, radio, WIFI, storage, positioning, inertial navigation, and antenna modules. It can switch between base station mode and rover mode for automatic switching between the mobile and base station.

TILT COMPENSATION FOR HARD-TO-REACH MEASUREMENTS

The NebulasIV GNSS SoC integrates RF, baseband, and high-precision algorithms. It can track 40+ satellites for accurate positioning in complex environments. The built-in IMU module doesn't require calibration and achieves a 2.5cm tilt measurement accuracy ($\leq 30^{\circ}$) with simple initialization.

Technical Specifications - SMA26 PRO GNSS Receiver

Satellite system accuracy	Signal Tracking channels number Initialization reliability Satellite-based differential Static accuracy RTK accuracy Tilt measurement	BDS: B1I,B2I,B3I,B1C,B2a,B2b GPS: L1C/A,L1C,L2C,L2P(Y),L5 GLONASS: G1,G2,G3 Galileo: E1,E5a,E5b,E6 QZSS: L1C/A,L1C,L2C,L5 SBAS: L1C/A L-Band 1408 > 99.9% PPK, PPP: B2b-PPP、E6-has flat: ± (2.5+0.5×10 ⁻⁶ ×D)mm Elevation: ± (5+0.5×10 ⁻⁶ ×D)mm flat: ± (8+1.0×10 ⁻⁶ ×D)mm Elevation: ± (15+1.0×10 ⁻⁶ ×D) mm Accuracy: 2.5cm (Accuracy within 30°)
		angle: 0 ~ 60°
	Indicator lights	satellite search light, power light, data light, static light
User Interaction	Buttons	Power button, function button
	WEBUI	supports PC/mobile web page configuration
	Intelligent voice	supports multi-language voice broadcast 10000mAh
	battery Charging time	< 4 hours
	Charging time working time	≥20h (Rover station) , ≥15h (Base station)
Electrical performance	power suuply	9 ~ 36VDC
	storage	32G
	Power consumption	Rover station≤2.0W, Base station≤2.2W
	size	Ф140mm×141mm
Physical properties	weight	1.03kg
	humidity	95% non-condensing
	Operating temperature	-45°C ~ +75°C
	Storage temperature	-55°C ~ +85°C
	Protection level	IP67
	Shock and vibration	2m drop resistance
	Differential Data	RTCM3.X
Data Output	Positioning data	NMEA-0183
	Static Data	Binary
	Data update rate	1-50Hz
Communication	Bluetooth	BT4.1, compatible with BT2.x
	WIFI	2.4G,802.11b/g/n
	Network Module	Global version:
Communication	Network Module	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B66/B71 LTE-TDD: B34/B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: GSM850/EGSM900/DCS1800/PCS1900
Communication	Network Module	B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B66/B71 LTE-TDD: B34/B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19
Communication	Network Module	B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B66/B71 LTE-TDD: B34/B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: GSM850/EGSM900/DCS1800/PCS1900 optional version: LTE-FDD: B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/66 LTE-TDD: B34/38/39/40/41

SMAJAYU

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Handheld Data collector FP88



	5.45inch high-definition high-brightness screen	
Screen	Capacitive screen, 5-point touch;	
	HD hard screen, TP high aluminum white glass	
	Resolution (720*1440)	
SIM card type	Dual Nano Sim	
Network communication	FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28 TDD-LTE: B34/B38/39/40/41(100M) WCDMA: B1/2/5/8 GSM: B2/B3/B5/B8	
operating system	Android 11	
Main control platform	MT6762/6765, octa-core 2.0GHz	
Internal memory	64GB ROM+4GB RAM	
Phone size	221*78*16.5mm	
Features	IP68 dust and water resistance, 4G full network access smart terminal, industrial appearance design	
Navigation	GPS+BDS+GNSS+GLL+AGPS	
High precision	Dual-bandRTK	
Charging method	TYPE-C direct charging	
Fast charging	Support 2A fast charging (9V2A)	
Three-proof function	Support IP68 waterproof, IP68 dustproof, professional shockproof	
sensor	Gravity accelerometer, gyroscope, distance, light, electronic compass	
flashlight	High-brightness professional-grade flash replacement (working current 100-150mAh);	
NFC	13.56MHZ (support ID card recognition)	
Speaker	8Ω 2W Speaker	
Microphone	support	
Earphones (optional)	TYPE-C interface intercom headset	
Motor	support	
Battery	9000 mAh	
Operating temperature	-20°C ~+50°C	
Storage temperature	-40°C ~+70°C	
Buttons	51-key full keyboard + one custom key on the side	
Camera pixels	Rear 1300W HD camera	
flash	4*4 high brightness real flash light	
Video Recording	Maximum support 1920*1080 pixels, 30 frames	
WLAN Function	WIFI 802.11 a/b/g/n/ac, Support 2.4G/5.0G WIFI	
Data Interface	Type C USB 2.0	
USB interface	TYPE-C standard interface, supports 2A charging, data download, OTG and other functions;	
Bluetooth transmission	BT5.0	
External interface	Side USB port,	
Wristband	support	

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