

## SMA26 Survey System

Ideal solution for survey

### Overview

The SMA26 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 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.

### Key Features

Supports multiple constellations & frequencies:

- GPS L1C/A/L2P(Y)/L2C /L5
- GLONASS G1/G2/G3
- BDS B1I/B2I/B3I/B1C/B2a /B2b\*
- GALILEO E1/E5a/E5b /E6\*
- QZSS L1, L2, L5



Handbook with built-in high-capacity battery .

Easy-to-use, powerful software.

Guided application operation function, low threshold for software use, quick use and high work efficiency.

A variety of receiver startup and base station connection methods, suitable for more different working environments.

Large capacity battery, suitable for long time outdoor work.

The base station and the mobile station can be interchanged, which can be used as a base station or a mobile station for surveying and mapping.

# Technical Specifications

## - SMA26 GNSS Receiver

### DATASHEET



Signal Tracking	BDS B1I/B2I/B3I/B1C/B2a/B2b GPS L1C/A/L2P(Y)/L2C /L5 GLONASS G 1/ G 2 /G3 Galileo E1/E5a/E5b /E6 QZSS L1/L2/L5 Cold start time: <25s Initialization time: <5s (typical value ) RTK initialization reliability: >99.9% Recapture: <1s Wi-Fi 2.4GHz&5GHz
Accuracy Index	Single Point Positioning: Plane: 1.5m Elevation: 2.5m Plane: $\pm(8 + 1.0 \times 10^{-6} \times D)$ mm (D is the baseline distance in mm) RTK accuracy: Elevation: $\pm(15 + 1.0 \times 10^{-6} \times D)$ mm Speed accuracy: 0.03m/s
Data Output	Differential data: RTCM3.X Location data: NMEA-0183 Static data: Binary
Electrical Parameters	Power consumption: Rover $\leq 2.0W$ , Base $\leq 2.2 W$ Battery life: $\geq 18$ h (Rover), $\geq 11$ h (Base) Radio frequency: 410 ~ 470MHz Input voltage: 9~36V DC Battery capacity: 10000 mAh Radio power: 0.5W/1.5 W Storage capacity : 32G
Physical Properties	Working temperature: $-45^{\circ}C \sim +75^{\circ}C$ Storage temperature: $-55^{\circ}C \sim +85^{\circ}C$ Physical size : $\Phi 140$ mm $\times 141$ mm Protection grade: IP67 Shock and Vibration: Resistant to 2m drops Buttons: 2 buttons Indicators: 4 LED indicators Humidity: 100% non-condensing Weight: 0.4 kg
Data Interface:	Data refresh rate: default 1Hz, up to 20Hz Interface mode: Type-C, TNC connector Bluetooth: BT4.1, backward compatible with BT2.x, protocol supports Windows/Android/IOS system WIFI: IEEE 802.11 a/b/g/n
Inertial Navigation Measurement:	Tilt angle 0~60° Tilt angle 0~60°

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# Technical Specifications

## - Handheld LP81

### DATASHEET



Product Features	GPS	GPS+BDS+GLL+AGPS;
	Charging mode	TYPE-C Direct Charger;
	Fast Charging	Supports 2A fast charging (9V2A);
	IP Rating	Support IP65 waterproof, IP65 dustproof, professional shockproof;
	Included Sensors	Accelerometer, distance, light;
	Flash Bulb (Photography)	High light professional grade flash (working current 100-150mAh);
	Audio	1625 8Ω 1.5W Speaker;
	Vibration Motor	support ;
Performance Parameters	Fuselage Features	With IP65 dustproof and waterproof function, 4G all-network intelligent terminal, industrial design
	Display	5.45-inch HD screen, 720x1440 resolution;
	Touch Screens	Capacitive screen, 5-point touch, support gloves, gesture operation function;
	Screen Materials	HD Hard Screen,TP High Aluminum White Glass
	Operating System	Android 11
	Processor	MTK6762V, 8-core 2.0GHz
	Memory	64GB ROM+ 6GB RAM
	Physical Dimensions	224*78.5*17 (mm)
	Power Supply	6600 mAh
	Operating Temperature	- 20°C to 55°C
	Storage Temperature	- 40°C to 70°C

Connectivity	WWAN	GSM: B2/B3/B5/B8 WCDMA: B1/B2/B5/B8 TD-SCDMA: B34/39 FDD-LTE: B1/2/3/5/7/8/20/28a&b TDD-LTE: B34/B38/39/40/41(100M)
	Mobile Communication	LTE CAT4/HSPA/TD-SCDMA/EDGE/GPRS; LTE :CAT4 ( 150Mbps Downlink 50mbps Uplink) WCDMA: Category 24 HSDPA category 7 HSUPA
	Theoretical Rate	TD_SCDMA: category 14(downlink) category 6(uplink);
	Bluetooth	GSM: Class 12 GPRS, Edge;
	SIM Card Slots	BT5.0 with Bluetooth PTT headset support; 2 Nano SIM card slots;
	WLAN	Support 2.4G/5.0G dual-mode WIFI: WIFI 802.11 a/b/g/n/ac
	Camera Function	Camera
Flash		4*4 high brightness true flash strobe;
Video		Maximum support 1920*1080 pixels, 30 fps;
Interface Expansion	Data interface	Type C USB 2.0;
	USB interface	TYPE-C standard interface, support 2A charging, data download, OTG and other functions;
	Plug-In interface	Side extension USB port;

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