

# R26-V2 Survey System

## Ideal solution for survey

### Overview

The R26-V2 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 R26-V2 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

## - R26-V2 GNSS Receiver

### DATASHEET



Signal tracking	Channels	1408 channels, base on NebulasIV™	
	BDS	BDS B1I/B2I/B3I/B1C/B2a /B2b	
	GPS	L1C/A/L2P(Y)/L2C /L5	
	GLONASS	G1/G2/G3	
	Galileo	E1/E5a/E5b /E6*	
	QZSS	L1, L2, L5	
	Cold start time	< 25 s	
	Initialization time	< 5 s (typ.)	
	RTK initialization reliability	> 99.9 %	
	Recapture	< 1 s	
Precision Index	Point positioning	Plane	1. 5m
		Elevation	2. 5m
	RTK Accuracy	Flat	±( 8 + 1.0 × 10 <sup>-6</sup> ×D) mm
		Elevation	±( 15 + 1.0 × 10 <sup>-6</sup> × D ) mm
presentation of information	Speed accuracy	0.03m/s	
	Differential data	RTCM2.X, RTCM3.X	
	Location data	NMEA-0183	
Electrical parameters	Static data	Binary	
	Power consumption	mobile station 4.0W, reference station 10.5W	
	Battery life	18h (mobile station), 11h (base station)	
	radio frequency	410 ~ 470 MHz / 840 MHz	
	Input voltage	9~36V DC	
	Battery capacity	10200 mAh	
	Radio station power	0.5W / 1W	
physical properties	Storage capacity	8G can be downloaded directly at high speed through USB (support automatic data cycle storage)	
	Operating temperature	-45 °C ~ +75 °C	
	Storage temperature	-55 °C ~ +85 °C	
	Physical size	140mm×141mm	
	Protection grade	IP67	
	Impact and vibration:	2m drop resistance	
	keys	2 keys	
	Indicators	4 LED indicators	
	Humidity	100% without condensation	
	Weight	1.03Kg	
Data interface	Data refresh rate	default 1Hz, the highest 20Hz	
	Baud rate	9600 ~ 460800	
	Interface mode	1 nine-core navigation connector, 1 radio antenna TNC connector	
Used guide measurement	Bluetooth	BT4.0, downward compatible with BT2.x, the protocol supports Windows / Android / IOS system	
	Tilt angle	0~60°	
	Tilting accuracy	2.5cm (30° internal accuracy)	

# Technical Specifications

## - Handheld LP80

### DATASHEET



CPU	8 cores 2.0GHz
Operating system	Android 8.1
RAM	4GB
Display size/type	5 inch IPS highlight screen
Camera	Rear 13 million auto-focus camera; high-brightness LED flash Front 5 million fixed focus camera
Resolution	720*1280
Touch screen	5-point capacitive touch screen
Dimension	207*84*20mm
Weight (including battery)	360g
Battery capacity	7000mAh
Charging method	PE fast charge, fully charged within 4 hours
Bluetooth	BT4.1 BLE
GPS	GPS+BD+GLONASS
Data communication	FDD-LTE B1/B3/B5/B7/B8 TDD-LTE B38/B39/B40/B41 TDSCDMA B34/B39 WCDMA B1/B2/B5/B8 GSM B2/B3/B5/B8 CDMA1x/CDMA2000 BC0/BC1
Audio	Front dual stereo speakers, volume 90db±3db (test distance 10cm)
Sensor	Geomagnetism, acceleration, light sensing distance
Expansion card slot	Expandable up to 128G memory card
External interface	USB-TypeC, support fast charge, support OTG, Bottom charging contacts for cradle charging
Button	30 keys + 2 volume keys + 1 power key
method to inform	Sound, vibration, LED prompt
Operating temperature	20°C + 55°C
storage temperature	-30°C + 70°C
Working humidity	Humidity 5% to 95%
Dustproof and waterproof	IP67
Certification and test report	CCC、CTA、CE
Fall	6 sides can withstand the impact of falling to the concrete floor from a height of 1.5 meters
Static Protection	±15kV air discharge, ±8kV contact discharge
PSAM card (smart encryption card)	optional
RFID (High Frequency)	Supported protocols: ISO14443A/B, ISO15693, NFC Reading distance: 0~5cm

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