

A9



A9 is a state-of-the-art GNSS receiver that merges industrial-leading inspiring ideas and technologies, offering an efficient and productive solution to no matter amateur or professional.



A9 is capable to track enormous signals of all constellations with stunningly fast fixing speed even under thick cover of trees or beside tall buildings. Coordinates will be examined twice to ensure an utmost accuracy.



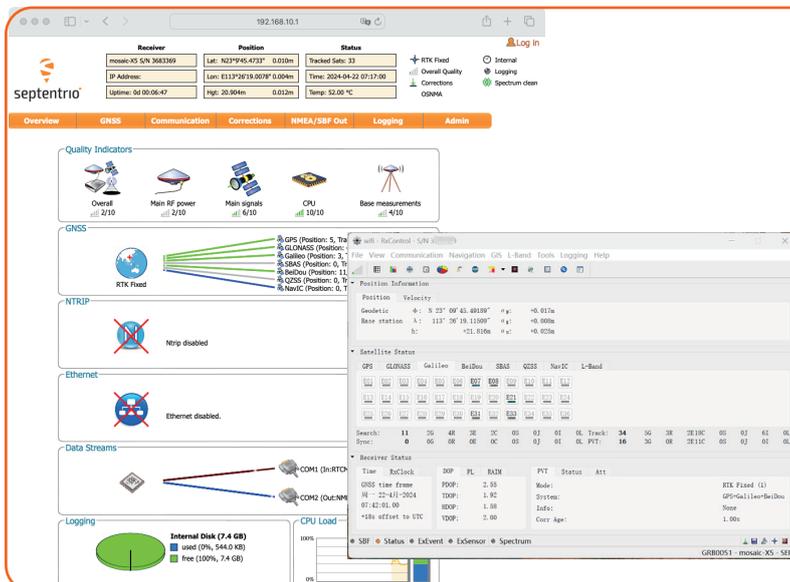
When you are quite away from the point, the controller shows you the general direction to the point. Until you are steps away from the point, the controller will shift to the camera beneath the receiver seamlessly and shows a more accurate guidance to the point.



No need for calibration. No need for initialization. In a few seconds after getting fixed, you are in the tilt collecting mode. Just tip the pole end to the point at any pose within 60°, press Collect, and you are free to go to next point.



Thanks to the 2W internal UHF Rx/Tx radio featured with high efficiency and low power consumption, A9 provides a safe and stable datalink with a super long distance up to 15km.



A9 adopts high-performance Septentrio GNSS module, the mosaic-X5. It is accessible to not only our own WebUI, but also Septentrio's official WebUI.

Moreover, A9 allows to store .sbf file to internal memory or computer via Wi-Fi connection.

SPECIFICATIONS

A9

SATELLITE PERFORMANCE

Channels	1,760
GPS	L1C/A, L2C, L2P(Y), L5
GLONASS	L1, L2
BEIDOU	B1I, B2I, B3I, B1C, B2a, B2b
GALILEO	E1, E5a, E5b, E6
QZSS	L1, L2, L5, L6
SBAS	L1, L5
L-Band	B2b PPP
Positioning Rate	1-20Hz

ACCURACY

Code Differential	H: 0.40m (RMS) V: 0.80m (RMS)
Static	H: 2.5mm±0.5ppm (RMS) V: 5mm±0.5ppm (RMS)
Real-time Kinematic	H: 8mm±1ppm (RMS) V: 15mm±1ppm (RMS)
Network PPK	H: 3mm±1ppm (RMS) V: 5mm±1ppm (RMS)

IMU MEASUREMENT

Tilt Angle	Maximum 60°
Accuracy	2cm

DATA STORAGE

Type & Storage	SSD 8GB External USB Pen drive
Data Transfer	Type-C USB Transfer Supports FTP/HTTP download
Differential Format	RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2, NMEA 0183, PJK plane coord., binary code, Trimble GSOF
GPS Output Format	VRS, FKP, MAC
Network Model	Ntrip fully supportable

CAMERA

Optical Format	1/5 inch
Pixel Size	1.75*1.75µm
Active Pixel Array	1616*1232
Sensor	2 mega CMOS imaging sensors

COMMUNICATION

I/O	Type-C (OTG+Fast Charge+Ethernet)
Antenna Port	All-in-one port for radio/GPRS antenna
Network Modem	Nano-SIM card LTE FDD, LTE TDD, UMTS, GSM
UHF Radio	2W Tx/Rx 410-470MHz
Protocol	S-link, TrimTalk, Hi-target, SOUTH, CHC 802.11b/g/n
WiFi	Hotspot/Data Link
Bluetooth	Bluetooth 2.1 + EDR and 4.0
NFC	Available

INTERFACES

Button	1
LED Indicator	Data Link, Satellite, Bluetooth, Power

POWER SUPPLY

Battery	Internal Li-on Battery 3.6V, 6,800mAh
Operating Time	Static mode 20h Rover mode 15h

PHYSICAL

Dimension	75mm(H), 132mm (W)
Weight	740g
Operating Temp.	-30°C to 65°C
Storage Temp.	-40°C to 80°C
Proof	IP68 water and dust proof 2m drop on hard surface 40G 10ms sawtooth wave

