

R10 RECEIVER



Alien GNS

Somos la Escuela GNSS Low Cost
al alcance del usuario

SMALL SIZE, HIGH INTEGRATION

The R10 portable high-precision locator is a lightweight, simple, and practical high-precision full-constellation GNSS RTK receiver independently developed and produced by AllyNav. The total weight of the device is 0.55kg . It is small, light, and easy to carry. Integrated large-capacity battery, GNSS antenna, satellite positioning module , Bluetooth , etc.

REAL TIME KINEMATIC

HIGH PRECISION AND WIDE APPLICATION

R10 supports Beidou, GPS, GLONASS, Galileo, QZSS, with high positioning accuracy, which can ensure positioning accuracy in a variety of complex environments; it can meet the needs of precision agriculture, vehicle positioning, mechanical control, and ship positioning. part of the demand.

WELL-CONFIGURED AND EASY TO OPERATE

Adopt TYPE-C charging interface, support power bank charging, support TYPE-C upgrade; built-in 4.0 Bluetooth module, support various mobile phone connections; standard IP 54 waterproof and dustproof design; built-in 4800mAh large - capacity battery, support more than 16 hours of battery life; flexible use, can be held by hand or directly screwed to the centering rod for measurement.

GOOD SOFTWARE AND COMPLETE FUNCTIONS

The software adopts the standard version of the measurement software or the flagship version of the measurement software, with functions such as measurement, point placement, CAD stakeout, etc. It supports various CORS systems.

TECHNICAL PARAMETER

CHANNEL	1408 channels, based on NebulasIV	PHYSICAL	Physical size: $\Phi 165\text{mm} \times 70\text{mm}$
SIGNAL	BDS: B1I/B2I/B3I/ B1C/B2a	PROPERTIES	Working temperature: $-45^{\circ}\text{C} \sim +75^{\circ}\text{C}$
TRACKING	GPS: L1C/A/L2P (Y) /L2C		Storage temperature: $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$
	GLONASS: L1/L2		Protection class: IP54
	Galileo: E1/E5a/E5b		Shock and Vibration: 2m drop resistance
	QZSS: L1/L2/L5		Buttons: 1button
	Cold start time: <25s		Indicator lights: 2 LED indicators
	Initialization time: <5s (typ.)		Weight: 0.55kg
	RTK initialization reliability: >99.9%	DATA	Data refresh rate: 1Hz
	Recapture: <1s	INTERFACE	Baud rate: 115200
ACCURACY	Single point positioning: Plane: 1.5m		Interface mode: standard TYPE-C interface
INDEX	Elevation: 2.5m		Bluetooth: B T4.0
	RTK Accuracy: Plane: $\pm (10+1.0 \times 10^{-6} \times D) \text{ mm}^1$	ELECTRICAL	Endurance time: $\geq 16\text{h}$
	Elevation: $\pm (20+1.0 \times 10^{-6} \times D) \text{ mm}$	PARAMETERS	Input voltage: $\text{DC}5\text{V} \leq 1\text{A}$
DATA	Differential data: RTCM3.3/3.2/3.1/3.0		Battery capacity: 4800mAh
OUTPUT	Positioning data: NMEA-0183		Power consumption: 1w

1: D is the baseline distance, the unit is mm

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