



# RENO 1



Adopting Mk-803 in Standard Edition and BD990 in Pro Edition, meeting different needs.



8-15km range  
High sensitive to weak signal  
Huge data flow



2nd Generation of Rimu  
60° tilt C=correction  
Fast fixing

## POSITIONING

	RENO 1	RENO 1 PRO EDITION
Board Model	Mk-803	Trimble D990
Channels	1,598	336
GPS	L1 C/A, L2C, L2P, L5	L1 C/A, L2C, L2E, L5
GLONASS	L1 C/A, L1P, L2C/A, L2P	L1 C/A, L2 C/A, L3 CDMA
BEIDOU	B1, B2, B3	B1, B2, B3
GALILEO	E1, E5A, E5B, E6, E5 AltBOC	E1, E5A, E5B, E5AltBOC, E6
QZSS	L1, L2C, L5	L1C/A, L1 SAIF, L2C, L5
L-band	Reserved for upgrade	Trimble RTX, xFill
Positioning Rate	1-20Hz	1-50Hz
Initialization Reliability	>99.9%	>99.9%

## ACCURACY

Code Differential	H: 0.25m ± 1ppm (rms) V: 0.50m ± 1ppm (rms)
Static	H: 2.5mm ± 0.1ppm (rms) V: 5mm ± 0.1ppm (rms)
Real-time Kinematic	H: 8mm ± 1ppm (rms) V: 15mm ± 1ppm (rms)
Network RTK	H: 8mm ± 0.5ppm (rms) V: 15mm ± 0.5ppm (rms)

## IMU MEASUREMENT

Tilt Angle	Maximum 60°
Accuracy	10mm + 0.7mm/°

## DATA STORAGE

Type & Storage	SSD 8GB External USB Pen drive
Data Transfer	USB Transfer Supports FTP/HTTP download
GPS Output Format	CMR+, sCRMx, RTCM 2.x RTCM 3.x, NMEA 0183, PJK plane coord., binary code
Network Model	VRS, FKP, MAC Ntrip fully supportable

## COMMUNICATION

I/O	5pin LEMO external power + RS232 Type-C (OTG+Fast Charge+Ethernet) Radio antenna, SIM card slot
UHF Radio Module	X-link 1/2/3W 410-470MHz
Protocol	TrimTalk 450s, TrimMark 3, PCC, EOT, SOUTH Farlink
Cellular Module	WCDMA, CDMA2000, TD-LTE, FDD-LTE, GPRS, EDGE
WiFi	802.11b/g/n Hotspot/Data Link
Bluetooth	Bluetooth 2.1 + EDR and 4.0
NFC	<10cm
INTERFACES	
Button	2
LED Indicator	Bluetooth, Data Link, Static Data, Recording, Power
POWER SUPPLY	
Battery	Internal Li-on Battery 7.4V, 10,000mAh
Operating Time	Rover Mode 16h

## PHYSICAL

Dimension	96.5mm(H), 166mm (W)
Weight	1,300g
Operating Temp.	-45-75°C
Proof	IP68 2m drop on hard surface 40G 10ms sawtooth wave

### ITEM LIST (ROVER)

Receiver  
Carrying Case  
Charger  
Type-C Cable  
Radio Antenna  
Carbon Fiber Pole  
HI Measuring Plate  
Connector

### ITEM LIST (BASE)

Receiver  
Carrying Case  
Charger  
Type-C Cable  
Radio Antenna  
30cm Pole  
HI Measuring Plate  
Connector



## Data Collector H6

Android 8.1  
5" HD screen  
6GB RAM/64GB ROM  
Full Keyboard  
IP67