



A Survey-grade Handheld Laser Scanner

- inbuilt camera default, external camera optional
- inbuilt RTK for outdoor direct geo-referencing
- LCD screen display on board and APP operation both
- industry's first RGB light indicating work status



Basic Package

(RTK built in but disabled)



Standard Package Supreme Package

advanced license code to activate inbuilt RTK)



(GNSS antenna installed and (both inbuilt RTK activated and external camera installed for top configuration)

ROBOT SLAM#

Note: all configurations and specifications in this doc are subject to change without any prior notice.

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Model		RobotSLAM II	RobotSLAM II Plus	RobotSLAM II Ultra		
Series			RobotSLAM II			
Laser Scanner		16-channel	32-channel	32-channel		
Scan Range		0.05 to 120 m	0.05 to 120 m	0.5 to 300 m		
Scan Rate		640,000 pts/sec max. (from dual returns)	1,280,000 pts/sec max. (from dual returns)	1,920,000 pts/sec max. (from triple returns)		
Weight		1.75/2.2 kg	1.75/2.2 kg	1.45/1.9 kg		
		(without/with battery handgrip)				
Dimension		103 x 217 x 388 mm (L x W x H, basic package)				
Laser Safety		Class-1 (IEC 60825-1:2014) eye-safe				
Laser Wavelength		905 nm				
Echo Mode		8-bit, 2-3 returns max. (strongest return typical)				
Scan Frequency		10 Hz				
Scan FOV		360° (H) x 285° (V)				
H. Angle Resolution			0.18° (10 Hz)			
V. Angle Resolution		2°	1°	1.3°		
Relative Accuracy			best up to 1 cm			
GNSS Differential		GPS + Glonass + Beidou + Galileo, multi-constellation tracking				
Signal Tracking		1698 channels				
RTK Positioning Accuracy		RMS1cm+1ppm				
CORS Access		nano SIM card slot built in				
Positioning Data Refresh Rate		100 Hz max.				
Absolute Accuracy		best up to 3-5 cm				
Scanning Principle		laser sensor 360° mechanical rotation				
Accumulated Mileage Error		0.1%-0.2% (under the conditions without loop closure)				
Housing Material		aviation-grade aluminum, with high protection level and anti-interference				
Syst	em Consumption	26 w				
Power Supply		battery handgrip (model iGrip) to plug in, external power supply available				
Battery Unit		model iGrip, 3500 mAh, 50 Wh, 14.4 V				
Battery Endurance		1.5 to 2 hours per unit				
IP Rating		IP 54				
Temperature		-20°C to 65°C (operating); -40°C to 85°C (storage)				
Device Connection		Wi-Fi / Ethernet / type-C USB 3.0				
Data Storage		built-in SSD 512 GB (extendable upon request)				
Data Download		Wi-Fi / Ethernet / type-C USB 3.0				
Inbuilt Camera		13 MP fish-eye, 2 nos. 26 MP in total				
External Camera (option)		panorama camera, imaging mode: 72 MP; video pano mode: 29.5 MP / 30 fps				
APP		RobotSLAM Palm				
Process Software		RobotSLAM Engine				
On-site Process			available			
	Package Option	Basic	Standard	Supreme		
	rotatable scanner	120	0/300m, 16/32 channel, op	tional		
	inbuilt camera 13 MP x	2	available			

	Package Option	Basic	Standard	Supreme	
	rotatable scanner	120/300m, 16/32 channel, optional			
	inbuilt camera 13 MP x2	available			
default	LED screen	available			
	status light	available			
	battery handgrip	available			
inbuilt RTK		equipped but disabled	activated by an advanced license code		
GNSS antenna		N/A	supplied	supplied	
external camera 72 MP		N/A	N/A	supplied	

