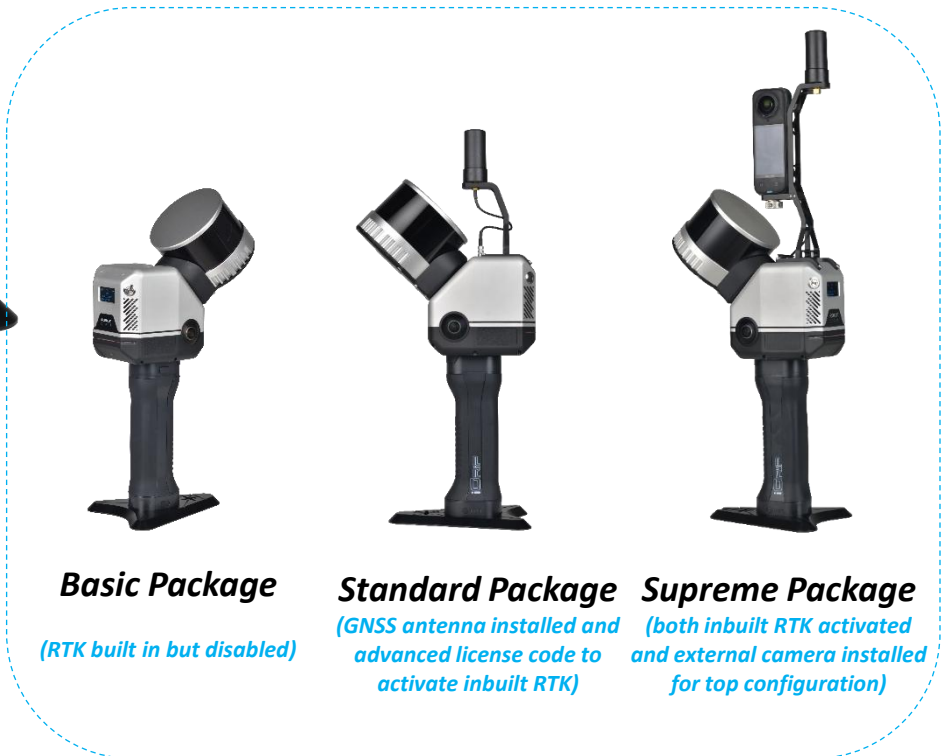


RobotSLAM II

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

(GNSS antenna installed and advanced license code to activate inbuilt RTK)

Supreme Package

(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.



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	320,000 pts/sec	640,000 pts/sec	640,000 pts/sec
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 adopted)		
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	RMS 1 cm + 1 ppm		
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		
System 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
default	rotatable scanner	120/300m, 16/32 channel, optional		
	inbuilt camera 13 MP x2	available		
	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	