

System Parameters			
Weight	1.7kg	Interfaces	USB 3.1 Gen2
Size ^[1]	180mm×130mm×400mm	Storage	1T SSD
Outer Casing	Industrial-grade Aluminium	Continuous Operation Time	1.5h
Power Consumption	<30W	Wireless	Supports WiFi, Bluetooth : 802.11a/b/g/n/ac, 2.4~2.4835GHz and 5.15~5.85GHz
Environment			
Operating Temperature	-20°C~50°C -4°F - 122°F	IP Rating	IP54
Functions			
Visual Positioning	Supported	Real-time RTK Fusion	Supported
Real-time RGB	Supported		
Output			
Point Cloud Formats	.las .ply	Image Formats	.jpg
Real-time Accuracy			
Absolute Vertical Accuracy (RMSE) ^[2]	3cm	Relativet Accuracy (RMSE) ^[3]	2cm
AbsoluteHorizontal Accuracy (RMSE) ^[2]	3cm		
Processed Accuracy			
Absolute Vertical Accuracy (RMSE) ^[4]	3cm	Point Cloud Thickness ^[5]	0.5cm
Absolute Horizontal Accuracy ^[4]	3cm	Horizontality (with RTK) ^[6]	0.015°
Relative Accuracy(RMSE) ^[3]	1cm	Verticality	0.03°
Repeat Accuracy(RMSE) ^[3]	2cm	LixelUpSample	Supported
LiDAR			
Operating Range	0.5m~120m 0.5m~300m	Scanning Frequency	320,000 points/s 640,000 points/s
LiDAR Sensor	Class 1 / 905nm	Sensor FOV	360°×270°
Camera for Panoramic Images			
Resolution	2×48MP	CMOS	1/2"
Focal Length	2mm	Shutter	Rolling shutter
Aperture	F/2.0	FOV	190°×190°
Camera for Visual Positioning			
Resolution	1×1MP	FOV	190°×119°
Shutter	Global shutter		
Battery			
Voltage	14.4V	Capacity	46.8wh
Charging			
Input	100V~240V 50 ~ 60 HZ 1.5A 80VA	Power Rating	34W
Output	16.8V 2.0A		
Accessories and RTK			
Backpack with Stabilizing Arm	Dimensions:60cm×60c×15cm Weight: 2.5KG	Backpack with Padding	Dimensions:55cm×35cm×25cm Weight: 2.7KG
Standard RTK ^[7]	Supported Channels: GPS L1/L2/L5 GLONASS L1/L2 BDS B1/B2/B3 Galileo E1/E5a/E5b/E6b Accuracy: Horizontal: 0.8 cm+1 ppm Vertical: 1.5 cm+1 ppm	Survey Grade RTK ^[7]	Supported Channels: GPS L1/L2/L5 GLONASS L1/L2 BDS B1/B2/B3 Galileo E1/E5a/E5b/E6b Accuracy: Horizontal: 0.8 cm+1 ppm Vertical: 1.5 cm+1 ppm
2m Extension Pole	Supported	Mobile Phone Mount	Supported
Control Point Plate	Supported	Shipping case	Dimension: 42cm*34cm*18cm Weight with System: 6.6kg

[1]Includes battery and base, excludes other accessories.
[2]RTK disconnection <100m.
[3]Distance between two points is less than 100m.
[4]GCP/RTK disconnection <100m.
[5]Two RTK-enabled scans without disconnection.
[6]Point cloud thickness within 10m of the walking path.
[7] The test results may be affected by atmospheric conditions, baseline length, GNSS antenna type, multipath effects, the number of visible satellites, and satellite geometry, which could cause deviations. The measurement was conducted using a 1km baseline and receivers with good antenna performance, without accounting for potential antenna phase center offset errors.