

L-40 Technical Features

LIDAR

Max Range	0.1 - 40m@10%, 0.1 - 70m@80% reflectivity
Min Range	0.1 m
Scanning Point Frequency	200.000 pts/s - 10 Hz
Field of view	360°H, -7~52°V
Laser Class	Class 1/905nm
Wavelength	905nm

RGB CAMERA

N° of pixels	16 Mpx
Diagonal FOV	Horizontal 140°, Vertical 200°
Focal length	3.5 mm
Aperture	Fixed F2.8
Resolution	3504 x 4672 pixel
Sensor size	13.13 * 8.76 mm; 1 inch
Pixel size	2.4 μ m
Shutter Type	Mechanical shutter; Electronic shutter
Nu° of lens	2

V-SLAM CAMERA

Focal Length	1.68
Image Pixel	1280 x 800
Effective Pixel	1 milion
Frame rate	30 Hz

SYSTEM

RTK accuracy	Horizontal 0.8 cm, Vertical 1.5 cm/ +1ppm BDS B1I, B2I, B3I, B1C, B2a, B2b GPS L1C/A, L1C, L2C, L2P(Y), L5 GLONASS L1, L2, L3 Galileo E1, E5a, E5b, E6 QZSS L1C/A, L1C, L2C, L5 NavIC L5 SBAS L1C/A
Control point support	Ground & wall
Data storage	256 Gb SSD, (support memory expansion)
Communication	Wi-fi, Bluetooth, USB type-c
Operating mode	SLAM mode, Real-time visualisation
Operatng time	150 min
Processing mode	Post-processing with Topogeos Point Cloud Studio

ELECTRICAL SPECIFICATION

Battery Capacity	45.36 wh (3150 mAh)
Supply Voltage	14.8 V ~ 16.8 V
Working Time	150 min
Charging Port	Type-C
Charging Power	PD 30 W
Charging Time	120 min

PHYSICAL SPECIFICATION

Weight	1.08 kg (With battery)
Over Dimension	110.5 mm x 140 mm x 313.3 mm
Operating temperature	-20°C to +55°C (-4°F to 131°F)
Operating humidity	<95%
Waterproof/Dustproof	IP54

Specifications are subject to change without notice.

**Topo
GEOS**

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