

Real Project Real Conditions

L-40 Handy
SLAM in action



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Handy SLAM

- 200k pts-sec
- 0.1- 40 m range
(80 m Ø)
- 360° horizontal &
large vertical FOV
- Dual 16 MP global
shutter cameras
- Optional RTK
for absolute
georeferencing



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L-40 Package

Everything you need.
Nothing you don't.

- Carrying Case
- Grip Battery
- Charger
- Position Plate
- Phone Holder

*No extra accessories.
No hidden costs.*



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Field Control

- Real time SLAM control
- Live point cloud preview on site
- Android based field operation



Powered by:
TopoGEOS Capture App

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With TopoGEOS
PointClouds Studio

Post Processing

- SLAM trajectory refinement
- Point cloud cleaning and optimization
- Export to standard formats
LAS, PLY, TXT, etc...



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L-40 Bundle

Capture.
Process.
Deliver.



L-40
Laser Scanner

Capture Field
Software

Pointclouds
Studio Software

All with One Bundle

*No licenses to unlock.
No software to buy later.*

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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 LIC/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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