

Laser Scanners

Number of laser scanners	2 × 32-layer
Laser class	1, eye-safe per IEC 60825-1:2007 & 2014
Wavelength	903 nm
Range	Up to 300 m
Points per second	2 × 1,280,000

Accuracy

Accuracy of point cloud	5 mm in a dedicated test environment of 500 m ² ⁽¹⁾
Control point support	Ground and wall

Cameras

Number of cameras	4
Image resolution	4 × 20 megapixel
Focus	Fixed
Lens	Fisheye, 3.3 mm, aperture f/2.4

Operation

Battery	2 × 2 Li-ion 98 Wh V-Mount Micro, hot swappable
Operating time	1.5 hours (with 1 set of 2 batteries)
Memory	Portable SSD with 1 TB storage
Sensors	WiFi, Bluetooth, IMU
Field of view	360° horizontal, 360° vertical

Display

Type	AMOLED capacitive multi-touch display
Dimensions	5.5"
Resolution	1920 × 1080

Environment

Operating temperature	0°C to 35°C
Robustness	Outdoor and indoor
IP classification	IP42

Output

Images	JPEG
Point cloud	E57, LAS, PTS, XYZ, PLY

Physical

Design	Wearable
Dimensions (H × W × L)	111 × 33 × 57 cm In XL position
Weight	8.5 kg
Housing	Powder coated & anodized aluminum, carbon frame

Transport Case

Dimensions (H × W × L)	43 × 54 × 82 cm
Weight (fully equipped)	23.9 kg
Weight (excluding batteries)	21.7 kg

⁽¹⁾ All accuracy statements are 1 sigma. More details on the dedicated environment and accuracy metric can be found in our whitepaper (navv.is/accuracy)