NavVis VLX 3

NavVis

Laser Scanners

Number of laser scanners	2 × 32-layer
Laser class	1, eye-safe per IEC 60825-1:2007 & 2014
Wavelength	903 nm
Raw laser range	Up to 300 m
Operational range	Up to 50 m [1]
Points per second	2 × 1,280,000

Accuracy

Accuracy of point cloud	5 mm in a dedicated test environment of 500 m² [2]
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
Panorama field of view	360° horizontal, 360° vertical

Operation

Battery	2 × 2 Li-ion 98 Wh V-Mount Micro, hot swappable
Operating time	1.5 hours (with 1 set of 2 batteries)
Storage	Portable SSD with 1 TB storage, ExFat filesystem (compatible with Windows, macOS, Linux)
Interfaces	WiFi, Bluetooth
Sensors	IMU

Display

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

Environment

Operating temperature	0°C to 40°C
Extended temperature	−10°C to 40°C [3]
Robustness	Outdoor and indoor
IP classification	IP42

Output

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

Physical

Design	Wearable
Dimensions (H x W x 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] depending on processing settings

[2] Local accuracy. All accuracy statements are 1 sigma. Absolute accuracy is subject to the size of environment and can be controlled via control points. More details on the dedicated environment and accuracy metric can be found in our white paper (navv.is/data-quality).

[3] Operation possible down to −10°C (14°F) for a maximum of 20 minutes in calm conditions (no wind). Device to be switched on 20 minutes before use at or above a temperature of 0°C (32°F).