

PRODUCT INFORMATION

NavVis VLX



Fast capture for AEC

A first-of-its-kind wearable mapping device that brings high-quality reality capture to the AEC industry in a versatile, compact design

NavVis VLX

Designed for versatility



Dual LiDAR

Two multi-layer LiDAR sensors capture 3D measurements and enable industry-leading SLAM software in a combination that delivers best-in-class point cloud quality.

Complete 360° capture

Four cameras positioned on top of the device take high resolution images without any blind spots or operators appearing in the field of view.

Forward-looking

A new design for wearable mapping hardware that is strategically positioned at the front to enable targeted scanning as well as viewing of the built-in screen.

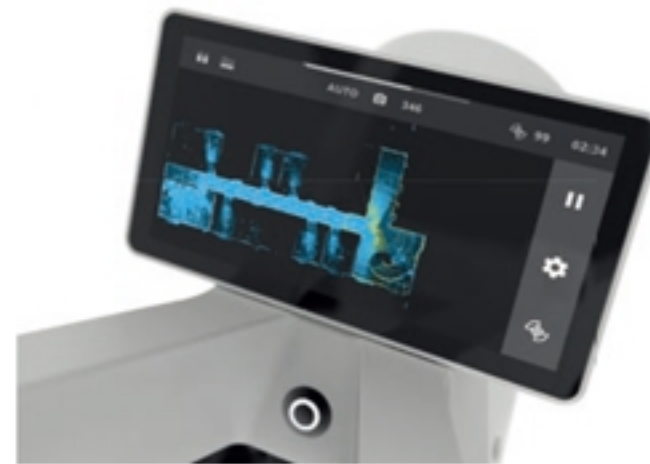
Control point compatibility

For survey-grade accuracy and automatic dataset alignment, NavVis VLX is compatible with ground and wall control points.



Compact

The compact design folds up into one case enabling single operator set up and transport.

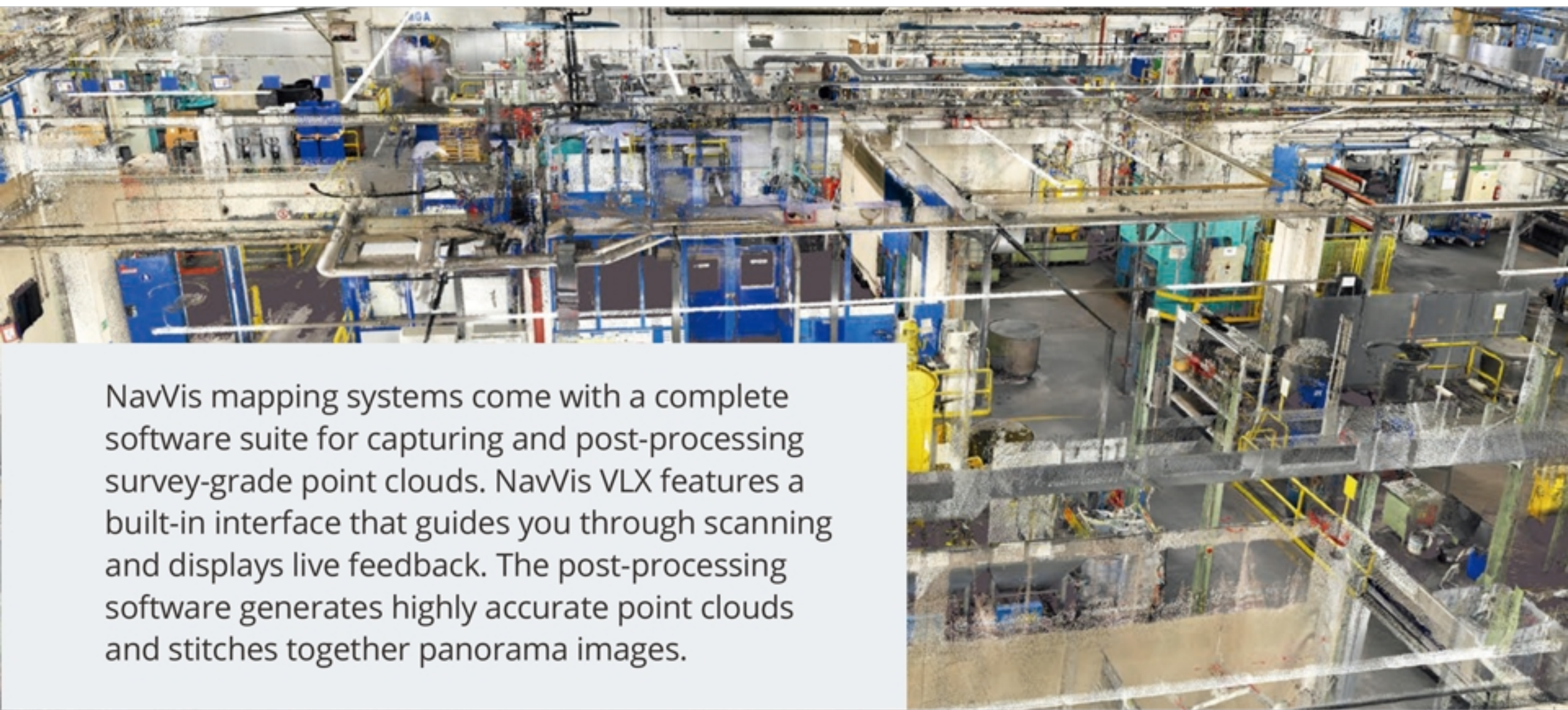


Built-in interface

The touchscreen interface displays live feedback during scanning and is built into the device to allow hands-free movement.

NavVis Mapping Software Suite

Mobile mapping and post-processing



NavVis mapping systems come with a complete software suite for capturing and post-processing survey-grade point clouds. NavVis VLX features a built-in interface that guides you through scanning and displays live feedback. The post-processing software generates highly accurate point clouds and stitches together panorama images.

Benefits of NavVis Mapping Software



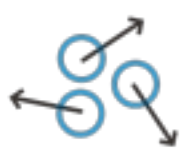
Accurate and reliable SLAM delivers survey-grade point clouds



Point cloud surface reconstruction focuses on preserving details



Highly realistic point cloud texturing



Automatic detection and removal of dynamic objects



Auto-generation of fully immersive 360° walkthroughs

Included with
your subscription

NavVis IndoorViewer

Leverage point cloud files to give your customers an entirely new way to access and interact with building scan projects as fully immersive digital twins. NavVis IndoorViewer enables laser scanning professionals to create and publish web-based digital buildings in just a few clicks.



Physical

Design	Wearable
Dimensions (H x W x L)	108 x 33 x 56 cm
Weight	9.3kg
Housing	Anodized aluminum

Operation

Battery	2 x 2 Li-ion V-Mount Micro, hot swappable
Operating time	1.5 hours (with 1 set of 2 batteries)
Memory	1TB removable
Sensors	WiFi, Bluetooth, IMU

Laser Scanners

Number of laser scanners	2 x 16-layer
Laser class	1, eye-safe per IEC 60825-1:2007 & 2014
Wavelength	903nm
Field of View (FOV)	360° horizontal, 360° vertical
Range	Max. 100m
Points per second	2 x 300,000

Cameras

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

*Environment dependent:
Measured in a room of 100m². All accuracy statements are one sigma.

Accuracy

Relative accuracy of point cloud*	8mm
Control point support	Ground and wall

Output

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

Environment

Operating temperature	5°C to 35°C, non-condensing
Robustness	Indoors and building surroundings

Display

Type	AMOLED
Dimensions	5.5"
Resolution	1080 x 1920
Touch technology	Capacitive multi-touch

Transport Case

Dimensions (H x W x L)	47 x 51 x 78cm
Weight (fully equipped)	26.8kg