



The cornerstone of reality capture

NavVis VLX 3 is the industry-leading, wearable dynamic scanning system that efficiently delivers comprehensive, highly detailed reality capture data to laser scanning professionals and surveyors for large, complex sites, both indoor and outdoor.

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All-in-one, highly-detailed reality capture

Comprehensively capture 3D measurements with two 32-layer lidar sensors in combination with groundbreaking SLAM software to deliver industry-leading point cloud quality for a wearable device. Four cameras positioned on top of the device take high-resolution, sharp images in every direction for a complete 360° image — all without the operator appearing in the field of view.

Live scanning feedback

Monitor your scanning progress in real time with a built-in touchscreen interface, to ensure complete coverage as you move.

Precision meets ergonomics

A first-of-its-kind wearable device which enables operators to comfortably scan at the speed of walking. The forward-facing design allows for targeted scanning, together with a built-in screen for optimal viewing. Comes fully equipped with:

- Grip pads
- Shoulder pads
- Built-in screen
- Forward-facing design
- Stabilizing belt



Geo-registration

NavVis VLX takes your laser scanning and survey workflows to the next level. It's fully compatible with standard tools in the field, and can capture control points in a local site coordinate system measured by both Total Stations and GNSS rovers. It also supports national and global coordinates for precise geo-registration and alignment of datasets.

Innovative folding design

The unique hinged design folds up and fits into a protective case or backpack, so that a single operator can easily transport and set up.

Seamless transportation

With multiple methods of transporting NavVis VLX, moving around and between sites has never been simpler. A protective, hard-shelled case on wheels enables air and rail travel, while a compact, sturdy backpack* allows you to move to and from your site with ease.



Complete coverage at speed

With an unobstructed field of view, NavVis VLX 3 delivers comprehensive, detailed coverage of complex indoor and outdoor environments so you can confidently scan more with speed and survey-grade precision.



Smart mapping

NavVis VLX 3 is expertly engineered to generate the perfect scan, every time. Panoramic images can be taken automatically with no need to reposition or adjust the device when capturing point clouds or imagery, especially ideal for large areas that require more time to scan.

Industry-leading data quality

From design to deliverable, NavVis VLX is optimized to offer unparalleled results. Robust SLAM coupled with state-of-the-art system and processing software, NavVis VLX 3 generates data that preserves original details, detects and removes dynamic objects, minimizes drift and captures high detail at range.

Superior accuracy

For accuracy that exceeds industry standards from any wearable device, NavVis VLX 3 is powered by precision SLAM technology that's entirely in a class of its own and is fully equipped to capture control points in a global or local coordinate system.

Ground-breaking innovation

Differentiate yourself from competition and win more projects with uniquely innovative technology that goes beyond traditional workflows. Stand out from the crowd with a device that boosts efficiency and exceeds client expectations — all without compromising on quality.


highly-detailed reality capture





BUILD BETTER REALITY

Bridge the gap between the physical and digital worlds through reality capture technology that provides the digital foundation for the world you want to live in.

[Book a demo](#) 

See for yourself how NavVis technology can seamlessly integrate into your workflow.