

MyMo

Reimagining Radar Monitoring



Setting a new standard for SHM:
assess more structures, more frequently.

IDS GeoRadar is the leading provider of Ground Penetrating Radar (GPR)
and Interferometric Radar solutions worldwide.

www.idsgeoradar.com



MyMo

Reimagining Radar Monitoring

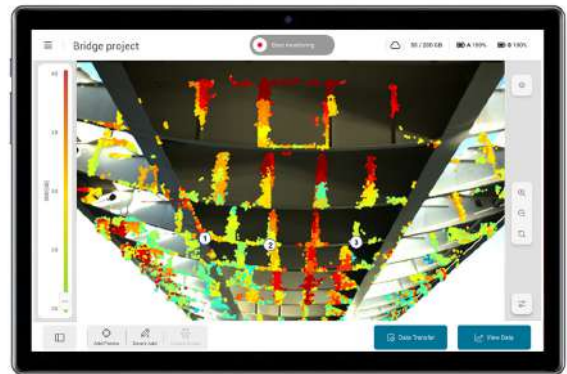
MyMo is a portable solution for fast, non-contact structural health monitoring that combines multiple technologies into a compact device providing a straightforward visualisation of vibrations and displacements. MyMo enables engineers and infrastructure owners to assess more structures, more frequently, by making structural monitoring faster to deploy and easier to scale.

A compact approach to monitoring...

MyMo sets a new standard to structural monitoring, combining interferometric radar technology with photogrammetry into a single device for intuitive and quick structural insights on real-time data of structures.

MyMo enables easier and cost-effective assessments compared to current SHM solutions, making **structural insights accessible** and helping engineers focus resources where they matter most.

Photogrammetry creates a detailed three dimensional model of the structure, enabling precise identification of the monitoring points measured remotely through **radar interferometry**.



Intuitive tablet interface for multi-point monitoring selection and management



Unmatched versatility across multiple scenarios

MyMo supports a wide spectrum of SHM scenarios - from **bridges, buildings, and towers** to **dams and wind turbines** - providing results with **sub millimetric accuracy**.

MyMo addresses the need for flexible, remote and real-time monitoring solutions providing insights into both structural **dynamic** and **static behaviours**.



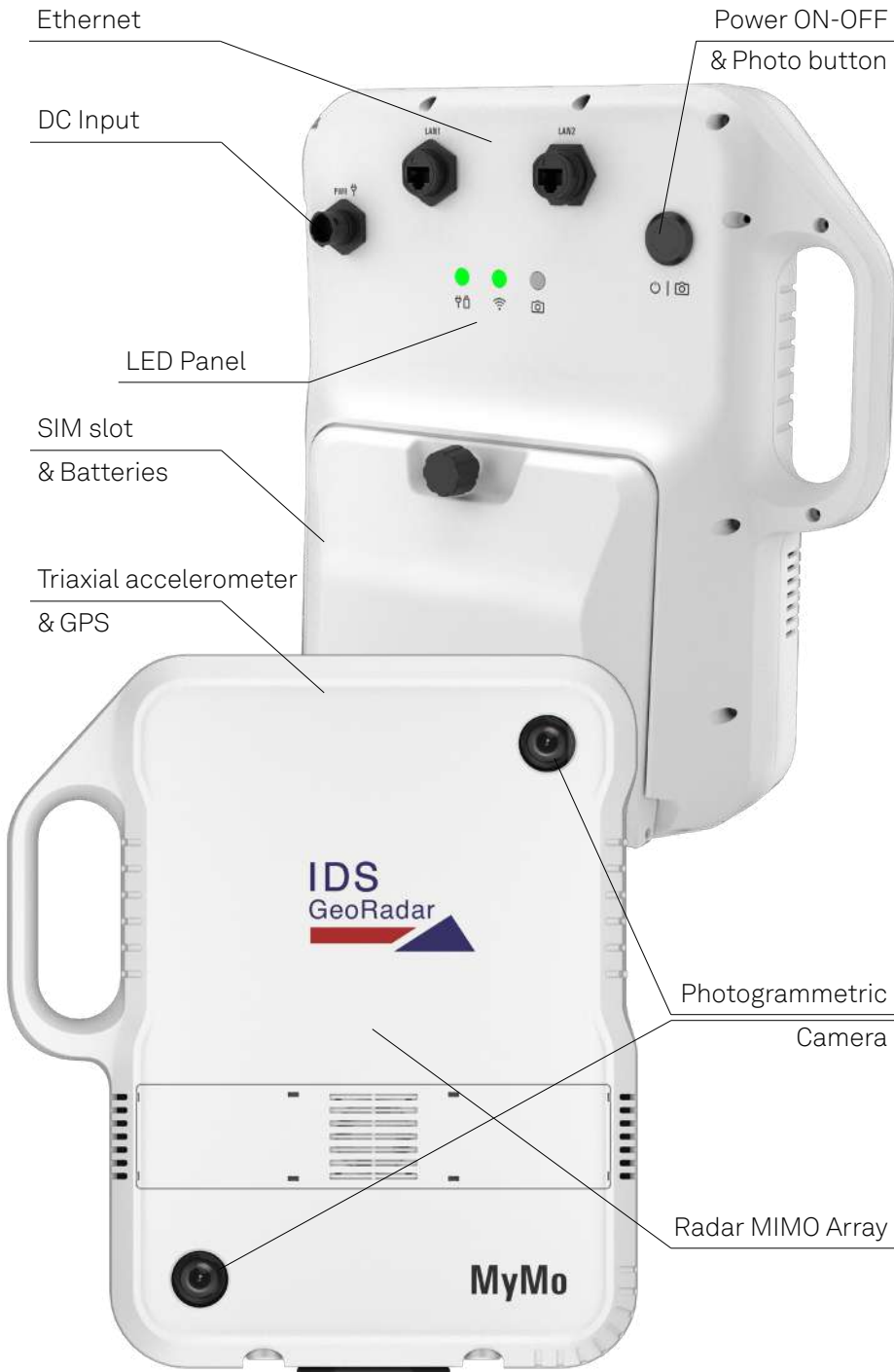
Portable & easy deployment by single operator

Designed as a **grab and go solution**, MyMo weighs only **4.3 kg** and can be **fully deployed by a single user** in just minutes. Mounted on a tripod and operated via tablet, it removes traditional barriers of access, logistics, and manpower typically associated with dynamic monitoring - empowering teams to perform **more frequent and agile inspections**.



Fast insights for decision making

MyMo delivers a **streamlined** monitoring **workflow**: it collects, processes, and visualises displacement data through an intuitive web app, enabling **fast interpretation** and **actionable insights**. MyMo not only accelerates early stage assessments but also - through an easy data export - integrates smoothly into advanced, long term SHM ecosystems.



SYSTEM SPECIFICATIONS

- Max measurement distance: 400 meters
- LOS Displacement Accuracy: 0.1 mm *
- Acquisition Rate:
Up to 400 Hz (Dynamic mode)
15 seconds (Static mode)
- Spatial Resolution:
0.2 m x 1.8 m at 100 m
0.8 m x 7.2 m at 400 m
- Field of View: 30° horizontal x 30° vertical
- Batteries Autonomy: 5 hours, hot swap
- Power supply: 220 / 110 V AC
- Power consumption: 28W
- Dimensions: 32 cm x 27 cm x 11 cm
- Weight: 4.3 kg
- Environmental resistance: IP 65
- Operating Temperature: -20°C / +50°C
(+40°C with direct sunlight)

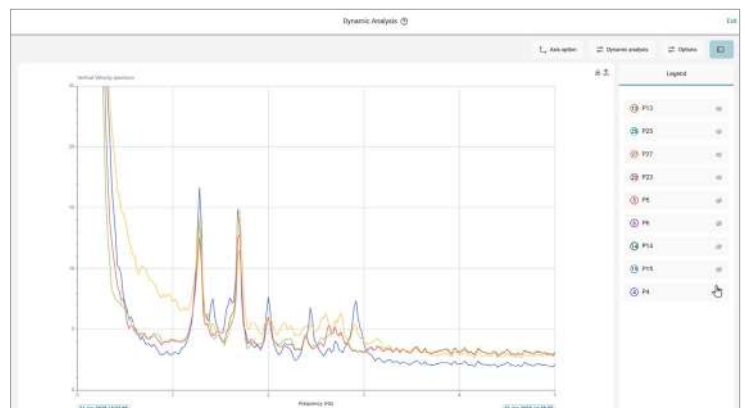
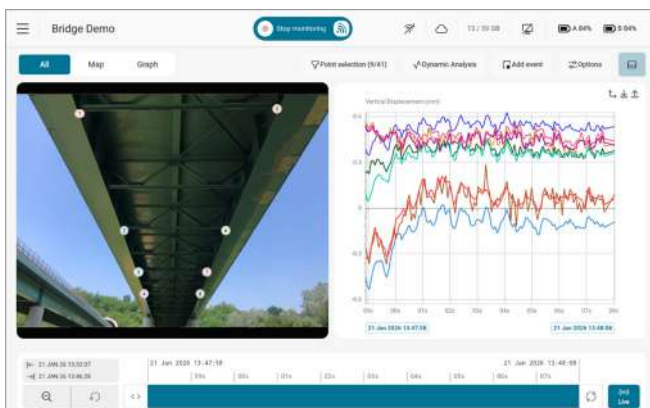
* Instrumental accuracy measured under stable atmospheric conditions on a stable target with SNR > 30 dB

MONITORING APPLICATIONS

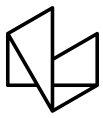
- Bridge Structural Health Monitoring:
→ Dynamic analysis of bridge deck and cables
→ Static load test
→ Long term displacement
- Structure Monitoring:
→ Dynamic analysis
→ Long term displacement
- Slope Stability Monitoring:
→ Cut slope
→ Natural landslide
→ Quarry

REAL-TIME INSIGHTS

- Points & Time Series
- Dynamic Analysis
- Deflection Analysis
- Deformation Analysis



MyMo provides actionable insights on vibrations and displacements for structural health monitoring



HEXAGON



MyMo

TECHNICAL SPECIFICATIONS

Max Measurement Distance	400 meters
LOS Displacement Accuracy	0.1 mm *
Acquisition Rate	Up to 400 Hz (Dynamic mode) 15 seconds (Static mode)
Spatial Resolution	0.2 m x 1.8 m at 100 m 0.8 m x 7.2 m at 400 m
Field of View	30° horizontal x 30° vertical
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Weight	4.3 kg
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