HMAX For Infrastructure: Mobile Measurement

HITACHI

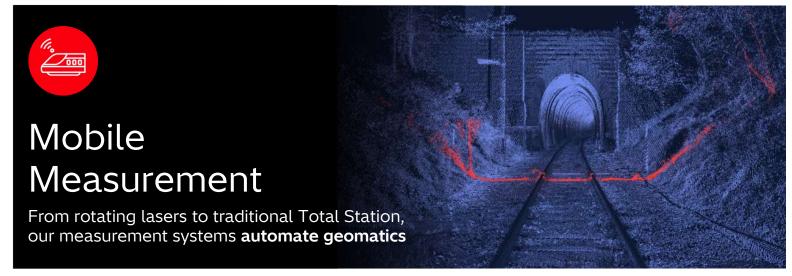
Portable mobile mapping system for infrastructure monitoring

Maintaining railway infrastructure is crucial, especially with aging tracks and a shortage of skilled workers.

HMAX for Infrastructure by Hitachi Rail uses sensors on trains or other vehicles to monitor track health, ride quality, and more, integrating data into a single platform. Leveraging machine learning and AI, HMAX reduces operating costs and enhances railway reliability.

Following the acquisition of Omnicom Balfour Beatty in 2025, HMAX now offers new train-borne monitoring of rail infrastructure capabilities, including:

- Mobile monitoring
- ▶ Mobile measurement
- Remote monitoring



With our growing ability to plot trends over time, clients compound their value with us over years.



Surveying



Mobile mapping

Each unit contains **two high-speed laser scanners**, an inertial measurement device, and an imaging system.

The vehicle mounted geomatic hardware is synchronised to capture high density spatial point cloud data, removing the need for manual surveying of the network.

Used in the UK, Ireland, Canada, and Australia.



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