



BRIDGE SURVEYS

WE WORK WORLDWIDE

COMPREHENSIVE CAPTURE

Be it a road, rail, canal, river or pedestrian bridge, a detailed laser scan survey provides many advantages for bridge inspection and management. For the rail sector, we have scanned bridges, tunnels and abutments and provide the data in many formats.



DELIVERING

- 3D models
- Digital terrain models
- Orthorectified imagery
- Sections, elevations, & profiles
- Structural plans
- Surface deviation reports
- Vertical/horizontal clearances



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CONFIDENCE

Ensuring that pre-fabricated components will fit

By accurately measuring existing bridge geometry, engineers could be confident that the prefabricated new bridge deck fitted the existing geometry.

DETAIL

For historic bridges, laser scanning provides enough detail to provide brick by brick elevations

High resolution scans can be coloured with high resolution imagery. Detailed meshes or drawings can help engineers to identify areas of damage.

Detailed sections reveal subtle vertical tilts in abutments & other variations within the structure. Outputs include AutoCAD drawings, sections, elevations, meshes, 3D models & more...

MONITORING

Repeat surveys facilitate precise deformation and movement monitoring

Finite Element Analysis - structural components and beams can be scanned (for example: a road bridge girder after an incident) to analyse beam deformation.

INTEGRATED

We use the latest technology

Merrett Survey provide a complete survey solution and augment laser scan surveys with other technologies, including sonar scans, GPS and direct measurements where required.