



SMITH &  
GARRATT

HERITAGE · RURAL · PRIVATE CLIENT

SMITH & GARRATT · THE GUILDHALL · LADYKIRK · BERWICK-UPON-TWEED · TD15 1XL  
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# DIGITAL SURVEYS & SPATIAL MAPPING FOR THE HERITAGE SECTOR

## **MORE ACCURATE THAN THE MOST ACCURATE MEASURED SURVEY**

- Heritage recording - 3D imaging to a resolution of less than one millimetre
- Retains an exact record of richly decorated interiors in case of loss by fire or water
- Identifies movement in buildings - spots any movement of any element moving one millimetre relative to any other
- Value for money - scanning is non-intrusive, automated and quick to do, so costs less than a traditional measured survey
- Solution for inaccessible structures - towers, bridges, &c are scanned from safety
- Contributes to conservation - the basis for your Heritage Management Plan or Quinquennial - Culture Minister Fiona Hyslop said, *'Truly astonishing ... this leading edge technology will help digitally preserve Scotland's heritage for generations to come'*
- Insurers love it... and will soon require a scanned record of every listed building as part of your disaster recovery plan
- Information sharing - virtual visitors can fly through or stop to examine every architectural detail without footfall
- Eligible for funding from the Heritage Lottery Fund (subject to conditions)
- The ultimate Building Information Modelling (BIM) tool for construction management
- Smith & Garratt is the only firm of conservation accredited surveyors to offer a building scanning service



# LASER SCANNING

*Detail of ornate plaster ceilings  
by Thomas Clayton, circa 1755.*

**L**aser scanning is the perfect tool for recording the detail of historic structures for conservation and posterity. Interiors and exteriors - from cathedrals to cottages - we create exact 3D digital models and highly detailed elevations which we combine with rectified photography to record and monitor the fabric of buildings.

A digital scan captures the moment. Scans compared over time reveal changes in condition and the tiniest movements - often providing the earliest warning of structural stress.

Makes easy work of hard-to-access spots such as bridges and spires.

Our finest buildings rarely have accurate plans. Ideal for complex structures, scanning creates an exact 3D replica from which we produce plans and elevations to any scale, complete with cross-sections at any point... and at the cutting edge scans can be used to programme 3D printers to recreate lost or damaged features.

Perfect for displays - fly through a 'virtual building' stopping wherever you want to examine an area in detail! Great for sharing information, marketing and fundraising.

Smith & Garratt is the only firm of conservation accredited surveyors offering a building scanning service. We understand the structures we scan; we interpret the data; we provide follow-up advice.

OUR DIGITAL SPECIALITIES ARE:

- **Measured building surveys**
- **Restricted access surveys**
- **Detailed archaeological/heritage recording**
- **Interpretation of movement**
- **Works planning**
- **Disaster recovery**

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