

A scan of the interior of the building...

Giving The Wintergardens a new lease of life

*FARO® Laser Scanner Photon 80
used in project to restore Grade 2*
listed theatre*

Russell Geomatics recently started work on the Victoria Pavilion, known as The Wintergardens, in Morecambe, Lancashire, as part of a restoration project funded by a local charity. The pavilion is a Grade 2* listed 2,200 seat Victorian theatre / music hall, which was built in

1897 and was in use until 1977 when it fell into disrepair. During its heyday performers including Laurel & Hardy, Tom Jones, Shirley Bassey, Ken Dodd, Billy Connolly, Paul Nicholas, Laurence Olivier and George Formby all trod its boards.

Work on the Wintergardens project is currently underway and involves Russell Geomatics conducting a 3D laser scan survey to capture high resolution point cloud data. This data is then transferred into AutoCAD and Pointools software for

images, video presentations and CAD output. Russell Geomatics had originally decided to purchase a Photon 80 to help cope with a growing demand for laser scanning within the listed and heritage market place which the company operates in. The scanner will be used to record everything, from caves to castles, as it is equally at home recording external facades as well as room interiors. Previously, the company had used a terrestrial LIDAR type scanner and, >>



4 GOOD REASONS

1 The FARO Laser Scanner Photon 80 first impressed us with its price vs. its specification – we simply wouldn't have been able to get the same level of spec for our budget from any other manufacturer.

2 We've found it to be a good-quality, reliable scan unit and, importantly, FARO has ensured support is available when needed and has been quick to sort out any problems.

3 We are now able to bring a building 'back to the office' in a rich detailed 3D form that is both flexible and versatile.

4 Details not even included within the original survey brief are also recorded and can be utilised later without the need to travel hundreds of miles back to site.



WWW.FARO.COM/PHOTON

>> although the range was good, scan times for internal recording were comparatively long. The Photon 80 proved to be an unbeatable package with a full 3 year warranty and maintenance agreement in place up front prior to order and delivery. In addition, Russell Geomatics was able to purchase a carbon fibre GITZO tripod, digital camera and alloy bracket to allow colour scanning. This level of spec would simply not have been possible within their budget from any other manufacturer.

The laser scan survey at The Wintergardens is comprised of hundreds of individual scans, which are carried out using the FARO Photon 80 and survey control, installed with 1 second angular accuracy laser theodolite. The whole project will capture in excess of 320 scans of various resolutions from 1/4 to 1/1 (which is equal to 700

million pixels) and requires approximately 12 days on-site scanning work.

Using the FARO Photon 80 means Russell Geomatics is now able to bring a building 'back to the office' in a rich detailed 3D form that is both flexible and versatile, as well as providing almost full dimensionally correct 3D information for the business and its clients. Details not even included within the original survey brief are also recorded and can be utilised later without the need to travel hundreds of miles back to site.

Andrew Russell, Director of Russell Geomatics, said: "The FARO Photon 80 first impressed us with its price vs. its specification. As we have started to use the product we've found it to be a good-quality, reliable scan unit and, importantly, FARO has ensured support is available when needed and has

been quick to sort out any problems. We are currently considering the possibility of a further purchase and would fully recommend the laser scanner."



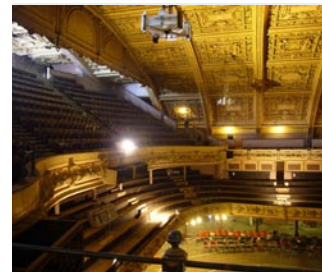
FARO® Laser Scanner Photon 80 in action at The Wintergardens

ABOUT RUSSELL GEOMATICS

Headquartered in Cheshire, Russell Geomatics Limited has more than 15 years experience of measuring and recording historic buildings such as churches, cathedrals, bridges, monuments and sculptures. Working within the measured building survey sector the company also carries out topographical surveys for commercial development, monitors structural movement and provides dimensional control and alignment within shipbuilding and refitting.

Russell Geomatics has carried out detailed, well presented measured surveys of built structures for a variety of high profile organisations, including the National Trust, Church of England.

WWW.RUSSELLGEOMATICS.COM.UK



A full colour image of the inside



Famous faces

SUMMARY

Russell Geomatics was commissioned to carry out a laser scan of The Wintergardens – a Grade 2* listed Victorian theatre in England which had fallen into disrepair since closure in 1977.

The company chose to buy a FARO Laser Scanner Photon 80 to help cope with a growing demand for laser scanning within the listed and heritage market place.

Russell Geomatics is now able to bring a building 'back to the office' in a rich detailed 3D form that is both flexible and versatile, as well as providing almost full coverage dimensionally correct 3D information for the business and its clients.

ABOUT FARO

With more than 17,000 installations and 7,600 customers worldwide, FARO develops and markets computer-aided measuring equipment and software

for creating digital 3D models. The equipment enables highly precise 3D measurements, 3D comparisons of small and large parts and components directly in pro-

duction, factory planning, and as-built documentation - like specialised applications in mechanical engineering, accident research and documentation, and heritage.