

 auto **MAP**

MOBILE MAPPING SERVICE



LandScape is proud to offer autoMAP. By utilising Topcon's IP-S2 Compact+ Mobile Mapping System, autoMAP is able to rapidly gather high accuracy point cloud data and high resolution panoramic photographic imagery. autoMAP makes surveying and mass GIS data collection easier and more cost effective than ever before. Accurate vehicle positions are obtained using three technologies:

- A dual frequency GNSS receiver establishes an accurate geospatial position
- An Inertial Measurement Unit (IMU) provides vehicle attitude
- A connection to external wheel encoders obtains odometry information

These three technologies work together to sustain a highly accurate 3D position for the vehicle even in locations where satellite signals are blocked by obstructions such as buildings, bridges or tree lines.

IP-S2 Mobile Mapping System Features

- Generates Geo-referenced spherical imagery
- Sensor fusion software provides coloured 3D models of the environment
- High accuracy vehicle position and attitude
- Flexible, custom sensor integration
- Factory calibrated, integrated system
- Cost effective, turn-key solution
- Able to map at full highway speed
- Mobilise to any vehicle / platform



SYSTEM OVERVIEW



The autoMAP service acquires data in a single campaign which feeds workflows for multiple outputs and deliverables. This exceptionally rich, highly accurate, fully geo-referenced environment lends itself to efficiency savings through an integrated approach to multiple application use. Real value is derived from the innovative use of spatial / GI data to empower organisations to improve decision making and increase collaborative working.

1) ASSET MANAGEMENT

autoMAP provides the basis of your asset management planning. High resolution geo-referenced imagery, and video, combined with the ability to measure specific features/change and extract relevant asset data, provides the asset management professional with a remarkably versatile and intuitive tool kit.



2) MAPPING & GIS

autoMAP provides an intuitive interface for efficient map management and GI data population. Detailed and exceptionally accurate spatial data can be captured in a fraction of the time associated with traditional techniques.

3) 3D MODELLING

The autoMAP Mobile Mapping Service provides the ultimate reference to your modelling projects. The dimensional control of the point cloud data set and the textural input from the panoramic imagery combine to provide the corner-stones of any environment modelling project.

4) TOPOGRAPHICAL MAPPING

Travelling at normal highway speed, autoMAP removes the need for survey personnel on the carriageway, lane closure and associated traffic management. With a planned approach to ground survey control, the point cloud is further constrained to produce increased accuracies as necessary for highway topographical mapping purposes.

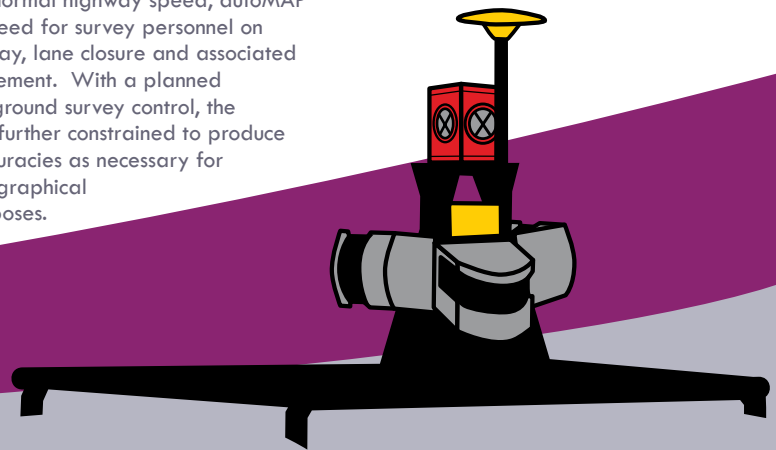


5) MARINE APPLICATIONS

The versatility and flexibility of the autoMAP system in a marine environment enables delivery of seamless integrated models in what are often inaccessible and challenging survey conditions. Integrating the mobile mapping content with other hydrographic data-sets produces a highly accurate and compelling deliverable.

6) REMOTE SITE VISUALISATION

autoMAP offers the potential to bring the outside in. autoMAP has the ability to capture data at one site and serve to another – allowing for efficiencies to be gained. Instant interpretation is achieved in relating the photographic data domain to reality.



SOLUTIONS

ENABLE YOUR TEAM WITH CLICK AND MAP

1 COLLINS SQUARE
53.3476719, -6.2841702, 17
STATUS: OCCUPIED

PUBLIC LIGHTING
HEIGHT: 9.642M
53.3475355, -6.28442185, 4.349
TYPE: UNPAINTED
NUMBER: 12

TRAFFIC SIGN
53.3476419, -6.2844198, 4.304
TYPE: INFORMATION

ADVERTISEMENT
QUANTITY: 2
AREA: 2.18m²

NMI ENTRANCE
WIDTH: 3.38m

INSPECTION COVER
53.3475697, - 6.2844056, 4.268
SERVICE: TELECOM
COVER TYPE: 232

BOLLARD
53.3476038, -6.2843212, 4.356
TYPE: STATIC

IMAGERY



WITH SPATIAL INTELLIGENCE

DATA DELIVERY

Our service offers various options for the hosting and application processing of the mobile mapping data to suit the needs of any scale of customer organisation. In some cases the customer may be best qualified and resourced to extract data (e.g. carriageway inspection), whereas in other cases the processing is best out-sourced to either autoMAP or other third party providers. Whatever the model, autoMAP offers the IT architecture and applications to ensure ultimate flexibility.

IMAGERY WITH SPATIAL INTELLIGENCE

The Mobile Mapping System acquires continuous panoramic imagery in to which is embedded millions of laser scanning measured points. This combination provides us with a remarkably rich geo-referenced data-set from which any user can derive instant value. Features within the natural and built environment can be viewed, analysed, measured and readily added to a geographical data base at the click of a button.

POINT CLOUD

Raw or colour coded point clouds may be derived from the autoMAP Mobile Mapping System. Laser scan data from autoMAP may be readily integrated to detailed terrestrial scans or airborne LIDAR. As laser scan point clouds become more common place in the engineering and design measurement arenas the choice and sophistication of processing and delivery software selection increases. autoMAP may provide user tailored advice in this area.

GEOREFERENCED IMAGERY AND VIDEO

Traditional geo-referenced imagery and video services have been limited to a geographic coordinate of the camera. With autoMAP imagery and video spatial intelligence is embedded in to the whole panorama. Click on a feature within the panorama and the resident laser point cloud will assign an accurate 3D coordinate.

GEOSPATIAL INTEGRATION

autoMAP aims to provide solutions which allow for integration into existing workflows, software and back office systems. autoMAP offers GIS and web mapping solutions as a powerful tool to ensure mobile mapping content is accessible to the wider GI community.



DATA DELIVERY



AUTOMAP HOSTED AND SERVED

We provide a fast and secure data hosting service with the reassurance your scheme data is readily available, wherever you are. The hosting service allows our clients to focus on their core business whilst leaving the IT infrastructure management and handling of large data-sets to autoMAP. The solution is fully scalable to meet the needs of small and large user applications.

CUSTOMER HOSTED AND STAND-ALONE

Our ICT and GI professionals can advise and assist you in designing the right solution to hosting and serving autoMAP data. Configurations will depend on legacy systems, user base geographics, applications required and size of data-set. Solutions are fully scalable to allow for inevitable change.

MOBILE ACCESS

Mobile mapping content may be securely published, over the internet, to other users, internet browser clients and mobile applications for iPhone, iPad and other such devices.

auto **MAP**

- High resolution imagery with an extra dimension
- Rapid and safe data collection
- High accuracy 3D models
- Intuitive 'Click and Map' technology



LandScope Engineering Limited

The Chart House | Picklescott | Church Stretton | Shropshire | SY6 6NT

Tel: 01694 731930 | Fax: 01694 751343 | Email: enquiries@auto-map.co.uk

www.auto-map.co.uk