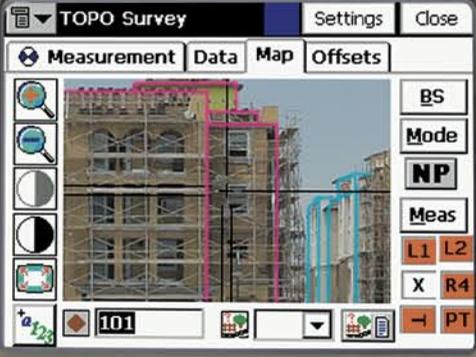


 **TOPCON**

Extend your horizons!
Capture Reality



TOPO Survey Settings Close

Measurement Data Map Offsets

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Capture Reality



The unique technology in capturing reality extends the range of applications to the use of Total Stations. Every measurement which needs to have besides the coordinates any other information can now be done. Describe the outside situation within a few measurements! Use digital photos to reproduce the outside situation in the office.

New technologies have emerged combining the simplicity, reliability and accuracy of a standard total station with Digital Photogrammetry advances in mass data capture.

Reality is captured by storing the image along with the survey data! Capture Reality: Imaging or robotic scanning.

Imaging



Topcon's GPT-7000i Series Imaging Total Stations are the world's first to incorporate the latest digital imaging technology and enhancing field data collection.

Built-in CCD camera for capturing digital images, precise and long range EDM, TFT colour graphic display, the latest Windows CE and much more.

In addition, PI-3000 office software provides accurate 3D measurements from ground based (terrestrial) digital photography, for example GPT-7000i data.

By utilising a system of registering common points in a series of photographs, the software is able to compute 3D measurements.





Play a Part in Reducing Traffic Jams



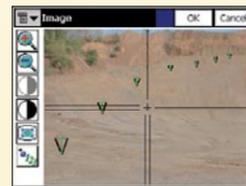
Police Force have now access to new technology that can assist accident investigators to reduce the time associated with surveying incident scenes whilst maintaining or increasing the detail recorded of these surveys.



It is believed that the Topcon equipment may be able to reduce the time taken to carry out on-scene surveying and investigation of serious collisions, therefore minimising traffic congestion following road accidents.



Field Data Storage Overlay



As the surveyor records data, coloured lines and points are overlaid on to the live digital feed to show what has already been recorded. By rotating the instrument and watching the video feed the "have I got every thing question" is easily answered before moving station. Each measurement is stored with a specially compressed photo of the point taken through the coaxial camera.



This overlay can also be used in a "virtual reality" by uploading data to be set out or underground obstructions. These are then seen as overlays to the video feed. It is now possible to set out points and know if there will be dangerous cables or avoid damage to previously laid drainage.





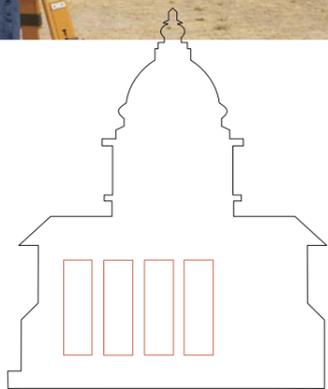
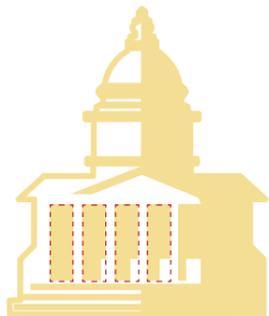
Robotic Field-Scanning



Field Scan is Topcon's 3D auto measurement system. Topcon's Field Scan software in combination with Topcon's Robotic Total Station, the GPT-8200A, gives the surveyor all tools to either have a one-man station or a complete scanner.

Field Scan runs on a Windows CE FC-100 field computer and is used in combination with the GPT-8200A. Field Scan uses digital, calibrated images as a tool to define a scan area.

In addition, PI-3000 Office software imports job files from the Field Scan software. When a Field Scan is done with images, 3D models are generated automatically with texture.



Robotic Landscapes-Scanning

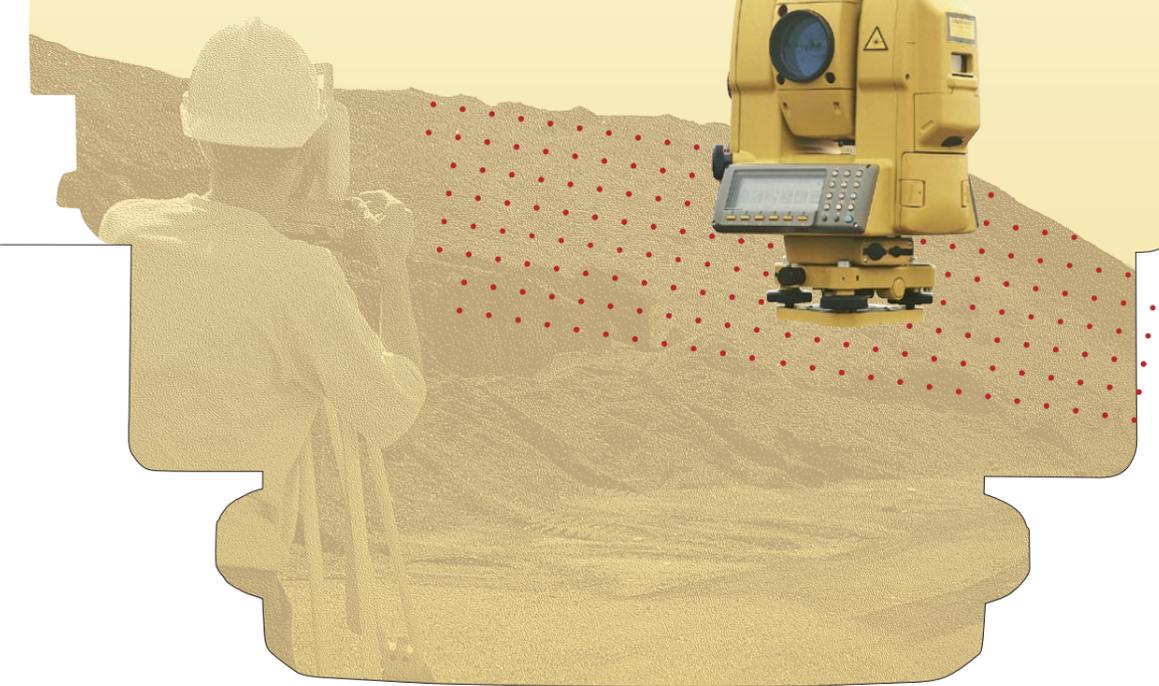


Robotic Scanning technology is particularly well suited for recording landscapes, especially when making detailed inventory records that need to be accomplished rapidly.

Gathering mass data when using scanning techniques becomes now easier than ever. Just by using Topcon's GPT-8200A Robotic Total Station and digital, calibrated images, data can be quickly collected and is simply usable for further processing.

Measuring the consequences of a landslide and volume calculations are now done within no time.

Using Topcon's Robotic Scanning technique 3D models are generated out of point clouds with overlapping image texture.





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