

# Promising 3D Portable Measuring Instrument Launched



At Intergeo 2014 e-Capture R&D, a technology-based company, introduced a new 3D accurate measuring instrument embedded in a tablet. e-Capture intends to revolutionise the world of measuring with a new generation of portable, easy-to-use and highly accurate instruments, optimal for most archaeology and civil engineering-related jobs.

The prototype of EyesMap was shown in the stand of e-Capture at Intergeo. EyesMap holds two rear cameras, a depth sensor and a GPS system amongst others. Such a system is able to measure coordinates, surfaces and volumes of all types of objects up to a distance of 70 to 80 metres. To the same extent EyesMap can scan advanced photogrammetric pictures with up to 4 million dots in almost 2 minutes. These photographic colour scans will allow to create 3D models of all kinds of objects of different

sizes: from little insects to big buildings or landscapes.

EyesMap is developed for modelling 3D indoors and outdoors, as well as measuring 3D elements. The measuring instrument is suited for archaeologist, architects, geomatic engineers, industry, forest engineering, security and a large amount of applications.

## Computational vision

EyesMap uses computational vision techniques blended with photogrammetry, precision sensor fine tuning, visual odometer and other advanced images measuring techniques.

The EyesMap project is developed under Windows and it will have a space for developers who wish to realise their own applications for any specialty; this instrument is intended to be very useful for architects, archaeologists, civil engineers, topographers, industrial engineers, as well as all other professionals in arts, medicine video games, security, criminology, etc.

To get an impression [watch this video](#).

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