

LAUNCH OF EYESMAP – UNIQUE TERRESTRIAL PHOTOGRAMMETRY

What is Eyesmap?

Eyesmap is a surveying tablet, a unique system of surveying using integral stereo cameras and depth sensor. Using Eyesmap you photograph the object or area from different positions and the internal calibrated stereo cameras creates a combined image

- on which you can take measurements,

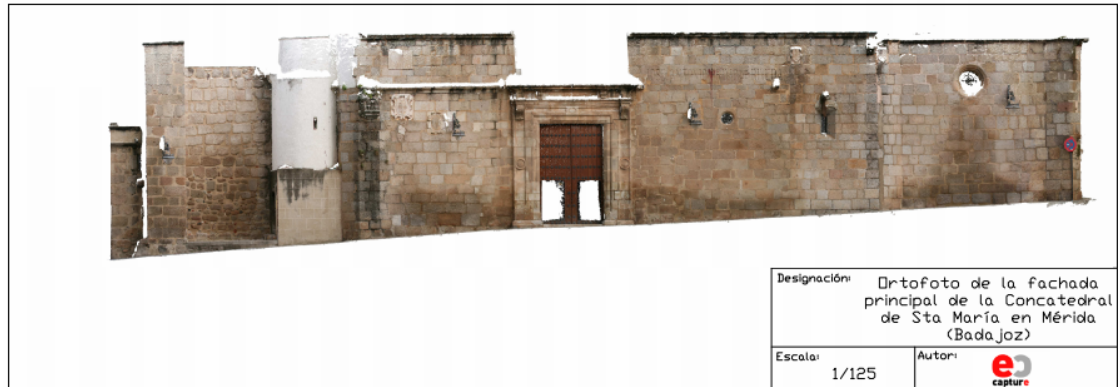


OR

- create a point cloud for an Autocad drawing, or
- a 3D model that can be rotated and viewed from different angles, or



- an orthophoto, a projection of a 3D object onto a flat plane.



How does it work?

When you take a number of images with the Eyesmap from different angles the stereo cameras enable the software to match edges (or the reference markers) in the images and create a 3D model of the object or area.

What can you use it for?

Eyesmap makes it simple to survey objects and areas that are difficult or very time consuming to survey with traditional methods like a total station, perhaps because they are intricate or very detailed or have a lot of points to be measured, like:

- Archaeological digs or objects
- Heritage sites, e.g. churches, castles, ruins, etc.
- Forensic scenes and accidents,
- Interiors with lots of details. In many cases of interior surveys the rooms are simple rectangular areas to be surveyed, however where there is a lot of detail to be recorded, pipes, windows, opes, odd features, columns, Eyesmap will do a speedier job than traditional methods

What output can I get?

- Measure objects immediately on the tablet.
- Point cloud in .dxf format will open directly in Autocad
- .ply file for 3D object survey
- Orthophoto, 3D projection onto a flat plane. Can be imported into Autocad to prepare a 2D drawing.

How accurate is it?

Typical accuracies:

Measurement Method	Accuracy
Distances, surfaces	3mm @ 10m
3D Photomodelling	1mm @ 4m
Depth Sensor Scanning	5mm @ 3m
Orthophoto	1mm @ 4m

Other stuff: who makes it, upcoming developments?

Eyesmap is manufactured by e-Capture Research and Development S.L., a technology-based company located in Merida (Badajoz), Spain, created to specifically develop the EyesMap product family. Six out of seven of the shareholders within the company are experienced surveyors with more than 10 years working in the 3E/GEO sector. To date e-Capture has received €2.3m in funding to develop projects relating to terrestrial photogrammetry.

EyesCar is a further project very related to EyesMap, as it uses part of the same technology. Its technology validation has been finished. EyesCar is currently in pilot project phase providing impressive results so far, with strong intention (and expectation) to exceed the performance of current competitive solutions.



Call us for a demonstration

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