3D scanning

3D scanner

Escáner 3d Artec

The center has the **Artec EVA 3D** scanner, a portable scanner that can be held with one hand.

Artec EVA is ideal for making a quick, textured and accurate 3D model of medium sized objects. The scanner allows to quickly obtain models in high resolution and vibrant colours, thanks to its features this scanner can be used in an endless number of applications:

- From rapid prototyping to quality control.
- CGI.
- Heritage preservation.
- Automotive industry.
- Forensic Science.
- Medicine Science.
- Prosthetic design.
- Aerospace industry.
- ...

Specifications

- **3D resolution:** 0.5 mm
- **3D accuracy:** 0.1 mm
- **Colours**: 24bpp
- **Texture resolution:** 1.3mp
- **Working distance:** 0.17 - 0.35 m
- **Linear field of view:** 214x148 mm. (min.) - 536x371 mm. (max.)
- **Angular field of view:** 30x21º
- **3D reconstruction rate:** 16fps
- **Exposure time:** 0.2 ms
- **Data acquisition speed:** 2 million points per second
- **Multi-core processing:** Yes
- **Dimensions:** 190 x 140 x 130 mm
- **Weight:** 0.85 Kg
- **Power consumption:** 12V, 48W
- **Connectivity:** 1 x USB2.0
- **Processing capacity:** 40000000 triangles / 1 GB RAM

Mobile workstation

The center has a **Dell Latitude E5440** laptop that works as a mobile workstation for the 3D scanner.

The compact size of this equipment, the great duration of its battery and its high resolution touch screen make it the ideal equipment to work with the scanner anywhere.

EThe equipment has the **Artec Studio 10** scanning software, a complete suite to manage the 3D models captured with the scanner.

Specifications

- **Battery:** 9 cells
- **Screen size:** 14 "(1366x768 pixels)
- **Processor:** i5-4310U
- **RAM:** 4GB
- **HDD:** 500GB
- **Operating System:** Windows 7