Scanner notes
May 2015

**Creaform Handyscan700**
Most expensive of all scanners presented here.
Seems to be targeted at close accurate features of smaller objects.
Requires targets.

Result in SolidWorks

Modified by Geomatic software
**Creaform goscan50 (Best tested)**

Capable of accurate scans, includes a calibration plate and does not need targets.

Easy to use, better software feel than others.

Object range 300mm to 3m. Creates point cloud and meshes, solid models possible with additional software.

Requires no alignment or post-processing steps.

Feels more solid than the Artec.

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Result in SolidWorks
**Artec Eva (Second choice)**

Longest (slowest) processing times of all units tested.
Creates mesh as well as point clouds.
Seems to have issues with holes.
Wide distance range from under 1/2m to 1m.
Fan unit a problem for field work and sensitive to lighting conditions.

[Image of Artec Eva 3D Scanner review]

Result in SolidWorks

Untrained result in SolidWorks
**Mantis Vision F5**

Output during scanning is just 2D and only point cloud.

**NDI Vicrascan**

Single laser scanner, not as accurate as other models tested.
Scanning times are longer than other models tested.
Needs to scan in three axes (two at 90 degrees and one at 45 degrees) for crosshatch pattern.

![Result in SolidWorks, small round pyramids are the markers.](image-url)
**Faro Freestyle**
Relatively recent player in the market.
Seems more suited to body and building scans.
Accuracy at the 1 to 2mm range, rather than 1/10 of other models tested.
Fast scanning but poor software.

![Result in SolidWorks](image1)

![Modified in GeoMagic](image2)