

Scanner notes

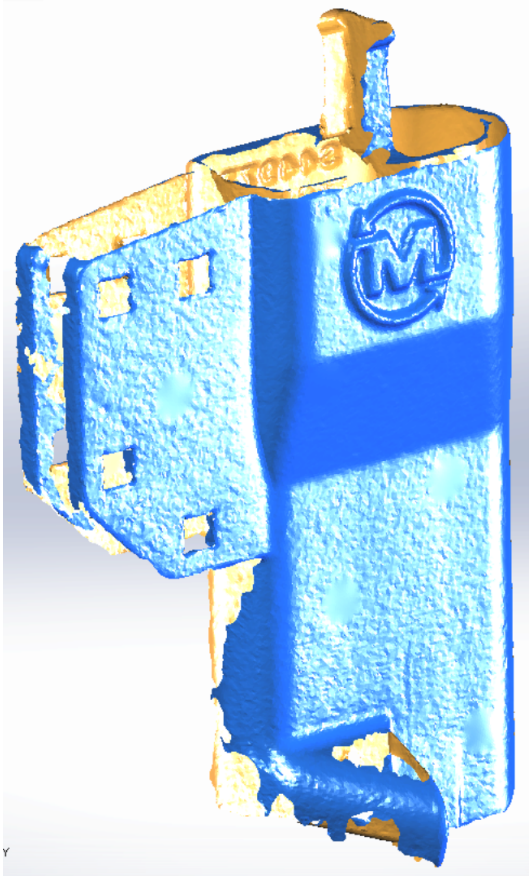
May 2015

Creaform Handyscan700

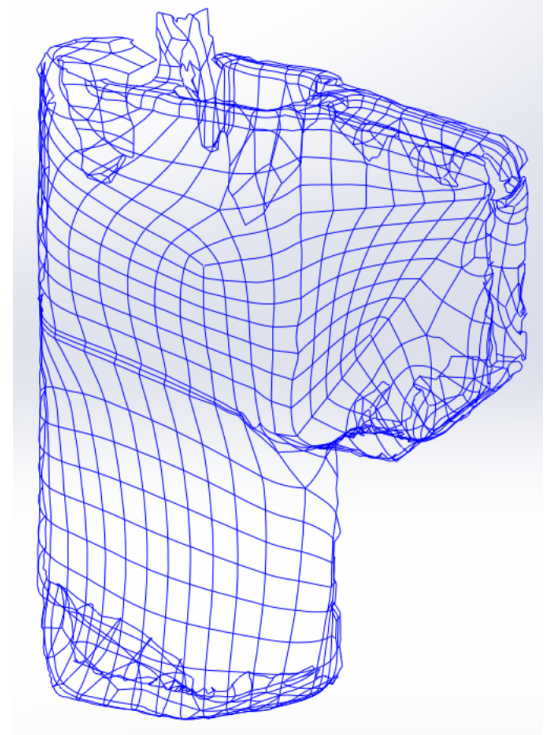
Most expensive of all scanners presented here.

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.

3D Scanners - Creaform Go!SCAN 50 - Review \$ | € | £

KEY FACTS



Creaform Go!SCAN 50



[BUY](#)

Brand	Creaform
Product	Go!SCAN 50
Website	creaform3d.com
Type of device	Portable
Price	\$ 28,000



ANIWAA'S OPINION

One of the easiest 3D scanning experience, fast and accurate. With its larger field of view, the Go!SCAN 50 model is ideal for scanning medium to large objects quickly and effortlessly.

PROS & CONS

 Easy to use // Suited for medium to big size objects	 A little bit expensive // Texture capture is an option
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QUALITY

 Resolution:	Up to 0.5 mm
 Precision:	Up to 0.1 mm

SYSTEM

Supported OS:	Windows
Connectivity:	USB 2.0
Power Input:	Specific adaptor provided

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.

3D Scanners - Artec EVA - Review \$ | € | £

KEY FACTS



Artec EVA

BUY

Brand	Artec
Product	EVA
Website	artec3d.com
Type of device	Portative
Price	\$ 18,000

ANIWAA'S OPINION

Artec Eva™ 3D Scanner is similar to a video camera which captures in 3D. The scanner captures up to 16 frames per second. These frames are aligned automatically in real-time, which make scanning easy and fast. Eva™ allows texture capture at 1.3 mp resolution with 24 bpp color depth. The indicated price depends on options, taxes, changing rates and country of delivery.

PROS & CONS

+ Texture capture // Acquisition time // Light weight	- 3D capture of small details
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QUALITY

Resolution:	Up to 0.5 mm
Precision:	Up to ± 0.1 mm

SYSTEM

Supported OS:	Windows
Connectivity:	USB 2.0
Power Input:	12V 48W

Result in SolidWorks

Untrained result in SolidWorks

Mantis Vision F5

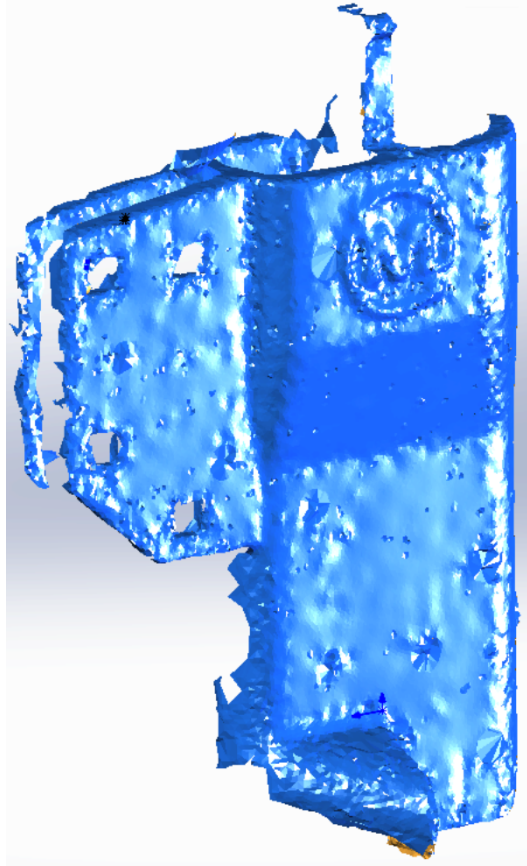
Output during scanning is just 2D and only point cloud.

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.

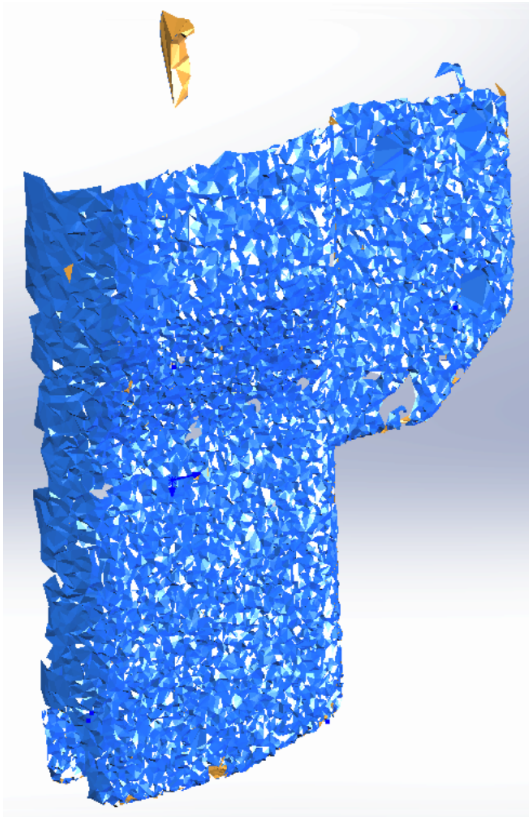
Faro Freestyle

Relatively recent player in the market.

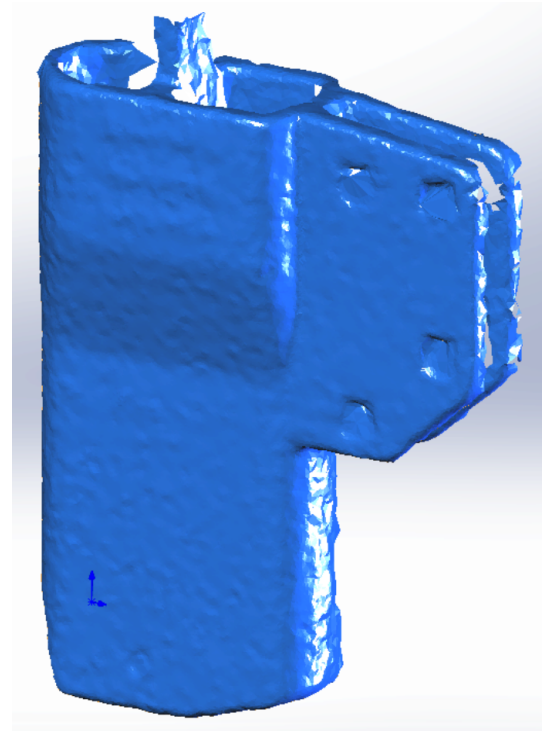
Seems more suited to body and building scans.

Accuracy at the 1 to 2mm range, rather than 1/10 of other models tested.

Fast scanning but poor software.



Result in SolidWorks



Modified in GeoMagic