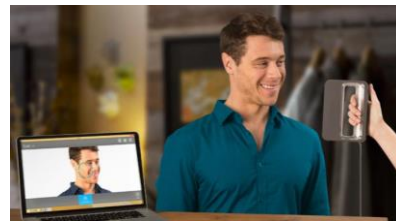


Stevens Prototyping Lab 3D Scanning Equipment

Consumer 3D Scanner (quick lower resolution and accuracy scans, fast post processing)

3D systems Sense 3D scanner (first gen)

- Handheld structured light 3D scanner
- Good for scanning freeform objects
- Scanning range: 0.2m – 1.6m (7.87” – 63”)
- Scan volume:
 - Min: 0.2m x 0.2m x 0.2m (7.87” x7.87” x7.87”)
 - Max: 2m x 2m x 2m (78.74” x78.74” x78.74”)
- Field of View: (45° H x 57.5° V)
- Spatial XY resolution: 0.9mm at 0.5m
- Depth resolution: 1mm at 0.5m
- Data interface: USB 3.0 (6ft long cable)
- Depth frame image size: 640 x 480 pixels
- Color frame image size: 1920 x 1080 pixels
- For Windows OS



3D systems iSense

- Mobile version of the sense scanner developed for iOS devices
- For iOS 7 and later
- Scanning range: 0.4m – 3.5m (7.87” – 63”)
- Scan volume:
 - Min: 0.2m x 0.2m x 0.2m (7.87” x7.87” x7.87”)
 - Max: 3m x 3m x 3m (78.74” x78.74” x78.74”)
- Field of View: (58° H x 45° V)
- Spatial XY resolution: 0.9mm at 0.5m
- Depth resolution: 1mm at 0.5m
- Data interface: USB 3.0 (6ft long cable)
- Depth frame image size: 640 x 480 pixels
- Color frame image size: 320 x 240 pixels
- Battery runtime: 3-4 hours of active scanning



Professional 3D scanners (high accuracy and resolution scans, longer processing times)

Geomagic Capture blue light scanner

- Desktop 3D scanner used for scan-based design and inspection of engineered parts
- Scanning range: 0.3 – 0.48 mm
- Field of view:
 - 124mm x 120mm (near)
 - 190mm x 175 mm (far)
- Accuracy: 0.06mm
- Resolution:
 - 0.11mm at 300mm
 - 0.18mm at 480mm
- Power consumption: 48V, 72W
- Data interface: Ethernet
- Software: Geomagic capture for SolidWorks (add-in)



Artec Eva Structured light Scanner

- Handheld 3D scanner used for high resolution scanning of freeform objects and large engineered parts
- Scanning range: 0.4m – 1m
- Field of view: 30° H x 21° V
 - 214mm x 148mm (near)
 - 536mm x 371 mm (far)
- Accuracy: 0.1mm
- Resolution: 0.5 mm
- Power consumption: 12V, 48W (battery pack available)
- Data interface: USB 2.0/3.0
- Software: Artec Studio

