



Artec™ 3D Scanner

TDSL-1.1, TDSM-1.1, TDSS-1.1

Easy. Quick. Accurate.

Entire shape acquisition

The Artec™ 3D Scanner is a 3D video camera that captures video, each single frame of which is a three-dimensional image. The scanning process becomes extremely straightforward, simply walk around the object capturing it with the camera from various angles, while the accompanying software automatically combines all the scanned frames into a single mesh.

No markers required

There is no need to place countless markers all over the object to scan it. The software uses unique geometry of the object itself to properly align the captured 3D frames and to fuse them together.

High speed and accuracy

Thanks to an outstanding measuring speed of up to 1.5 million points per second, the Artec™ 3D Scanner performs measurement acquisition dozen times faster than laser scanners, while providing high resolution (up to 0.2 mm) and high accuracy (up to 0.02 mm).

Scanning of moving objects

Since the Artec™ 3D Scanner is in fact a 3D camera, it can be used to scan dynamic object as well as stationary ones. This can be especially useful in medical applications and movie production where it is vital to capture a human body shape in motion.

Portability

The Artec™ 3D Scanner can be used as a hand held device, allowing the user to scan immobile objects or even those that should not be touched.

Broad range of objects

Various models of the Artec™ 3D Scanner allows digitizing of a broad range of objects: from a matchbook to a whole person or a car. It is recommended that the appropriate-sized scanner is used for a specific purpose to arrive at the final 3D image quickly and most efficiently. In certain cases, a combination of two scanners can be used to maximize accuracy and efficiency.

New Opportunities

The number of uses for the Artec™ 3D Scanner is only limited by your imagination: architecture, medicine, prototyping, sport, education, manufacturing quality control, film industry, animation and computer graphics, fashion - is just a short list of applications in which our scanner will become your indispensable business partner.



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Scanning to new dimensions!

3D model captured by Artec3D® Scanner

The Artec™ 3D Scanner comes with:

- Power supply
- Artec™ 3D Scanning Software
- Documentation CD

Specifications

	TDSL-1.1	TDSM-1.1	TDSS-1.1
Dimensions, HxDxW	353x114x70mm	266x114x70mm	266x114x70mm
Weight	2.3 kg	1.9 kg	1.9 kg
Power consumption	12V, 36W		
Interface	1x USB2.0		
Light source	flash bulb (no laser)		
Field of view, HxW	41x32°	30x21°	30x21°
Working distance range	0.8 – 1.6 m	0.4 – 1 m	0.15 – 0.25 m
Video frame rate, up to	15 fps		
Exposure time	0.0001 s		
Data acquisition speed, up to	500'000 points/s		
3D resolution			
- single frame mode, up to	3 mm	1 mm	0.4 mm
- multi frame mode, up to	1 mm	0.5 mm	0.2 mm
3D accuracy			
- single frame mode, up to	0.3 mm	0.15 mm	0.06 mm
- multi frame mode, up to	0.1 mm	0.05 mm	0.02 mm
Calibration	< 1 min (no special equipment required)		
Output formats	OBJ, STL, PLY, WRML		
Processing capacity	40'000'000 triangles/1GB RAM		
Multi core processing	Yes		
Compatibility	Windows XP, Windows Vista, 32bit, 64 bit		
Minimum computer requirements	Intel® Core™ 2 duo, 2Gb RAM, NVIDIA GeForce Go 7400		