



Artec™ MH and MHT 3D Scanners

Easy. Quick. Accurate.

Entire shape acquisition

The Artec™ MH/MHT 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 continuously 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 500,000 points per second, the Artec™ MH/MHT 3D Scanner performs measurement acquisition a dozen times faster than laser scanners, while providing high resolution (up to 0.5 mm) and high accuracy (up to 0.1 mm).

Scanning of moving objects

Since the Artec™ MH/MHT 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 live.

Portability

The Artec™ MH/MHT 3D Scanner can be used as a hand held device, allowing the user to scan outside or those items that should not be transported.

Luminous Color

The Artec™ MHT camera also captures a brilliant spectrum of colors (up to 24bpp). Capturing both color information of the object's shape and its geometry results in fine textured models. The models can then be opened and post-processed by a number of 3D software packages.

New Opportunities

The number of uses for the Artec™ MH/MHT 3D Scanner is only limited by your imagination: architecture, medicine, prototyping, sport, education, manufacturing, movie-making, 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!

The Artec™ MH and MHT 3D Scanners come with:

- Artec Scanning Software
- Power supply
- Carrying bag

Specifications	MH	MHT
Ability to capture texture	No	Yes
3D resolution, up to	0.5 mm	
3D point accuracy, up to	0.1 mm	
3D accuracy over distance, up to	0.15% over 100 cm	
Texture resolution	n/a	1.3 mp
Colors	n/a	32 bpp
Light source	flash bulb (no laser)	
Linear field of view, HxW @ closest range	214 mm x 148 mm	
Linear field of view, HxW @ furthest range	536 mm x 371 mm	
Angular field of view, HxW	30x21°	
Working distance	0.4 – 1 m	
Video frame rate, up to	15 fps	
Exposure time	0.0001 s	
Data acquisition speed, up to	500,000 points/s	
Calibration	< 1 min no special equipment required	
Output formats	OBJ, STL, PLY, WRML, ASCII	
Processing capacity	40'000'000 triangles/1GB RAM	
Multi core processing	Yes	
Dimensions, HxDxW	180x187x260 mm	
Weight	1.4 kg	1.6 kg
Power consumption	12V, 36W	
Interface	1x USB2.0	2x USB2.0
Compatibility	Windows XP, Windows Vista, Windows 7 - 32 bit, 64 bit	
Minimum computer requirements	Intel® Core™ 2 duo, 2Gb RAM, NVIDIA GeForce 9000	