

ARTEC RAY



SCAN UP TO
110 m
AWAY

- / **ULTRA-HIGH PRECISION, FAST LASER SCANNER**
- / **CLEANEST 3D DATA CAPTURE FOR MINIMUM POST-PROCESSING TIME**
- / **IDEAL FOR CONSTRUCTION, INSPECTION AND PRODUCT DESIGN**

The fastest, most accurate laser scanner for capturing large objects such as wind turbines, ship propellers, airplanes and buildings. Producing 3D data of the highest quality, Artec Ray scans with submillimeter distance accuracy and best in class angular accuracy.

Furthermore, data capture is cleaner than that from any other 3D scanner of this type, with noise levels at an absolute minimum. This speeds up post-processing significantly, making it a hassle free job.

APPLICATIONS



*Reverse
Engineering*



Inspection



*Construction
(BIM)*



*Product
Design*



Forensics



*Heritage
Preservation*



EASY 3D SCANNING, HIGH PRECISION RESULTS

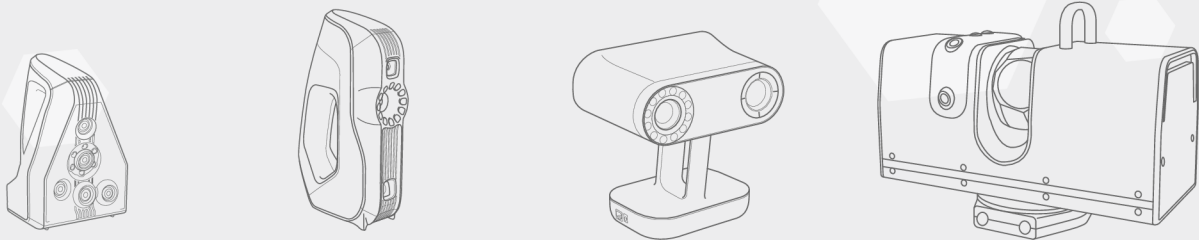
Scanning with Artec Ray is easy - just place it on a tripod in front of your object and press the button! Portable and compact, you can set it up indoors or outdoors, without need for a power source, since the internal battery will last you for up to 4 hours.

SOFTWARE

Scan and process directly in the powerful Artec Studio, then seamlessly export to Geomagic Design X.



THE FULL 3D SCANNING PACKAGE



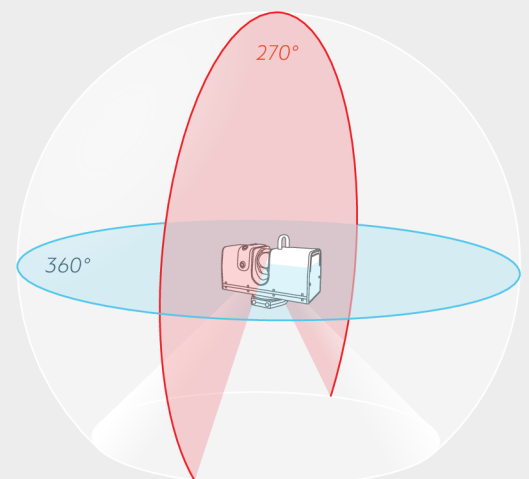
Pair it with an Artec handheld scanner, such as Eva or Spider, to scan difficult to reach areas, e.g. the interior of a car, or to easily add intricate detail to a large-scale 3D model. Armed with Artec Ray and an Artec handheld scanner, there will be virtually no limits to what you can capture in 3D.

SPECIFICATIONS

	<i>High Quality Mode</i>	<i>High Sensitivity Mode</i>
Recommended Work Range	1-50 m	1-110 m
Ambiguity range	180 m	180 m
Ranging error	0.7 mm @ 15 m	<0.9 mm @ 15 m
Angular accuracy	25 arcsecs	25 arcsecs
Range noise, 90% reflectivity	0.12 mm @ 15 m	0.25 mm @ 15 m
Range noise, 10% reflectivity	0.3 mm @ 15 m	0.7 mm @ 15 m
Speed (points/second)	208,000 pts/sec	
Scanning modes	Autonomous or via USB	
Color	Two fully integrated 5 megapixel cameras	

FIELD-OF-VIEW PER SCAN

Horizontal (maximum)	360°
Vertical (maximum)	270°



KEY SPECS

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SYSTEM SPECIFICATIONS

Scanner Type	Phase Shift, Hemispherical Scanner with 360° x 270° field of view
Distance Measurement Method	Phase-shift
Laser Wavelength	1550 nm
Laser Type	Continuous Wave
Laser Class: (IEC EN60825-1:2007)	Class 1
Internal Coordinate Representation Unit	0.001 mm

Angular position data

Beam diameter at Aperture	3 mm
Internal Angular Representation Unit (vertical / horizontal)	1 arcsec

Scan density control: software selectable

Min. Vertical Point Density	12 points/degree
Min. Horizontal Point Density	2 points/degree
Max Vertical Point Density	80 points/degree
Max Horizontal Point Density	80 points/degree

Physical dimensions and weight

Weight with battery	5.74 kg
Dimensions L x H x W	287 mm x 200 mm x 118 mm

Power specifications

External power supply voltage	14 - 24V DC, 30 W
Internal battery power supply	Two Li-Ion 14V, 49Wh batteries, powers the scanner for up to 4 hours.
Power consumption	30 W

Computer requirements

Supported OS	Windows 7, 8 or 10 – x64
Minimum computer requirements	i5 or i7 recommended, 32 Gb RAM, NVIDIA GeForce 400 series