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KEY SPECS

Up to 110 m Range Ranging error Angular accuracy

<0.70mm @ 15m 25 arcseconds

Range noise, 10% reflectivity 0.30 mm @ 15 m Two fully integrated 5 megapixel cameras

0.12 mm @ 15 m

Hassle-free export into a wide range of formats: Mesh: OBJ, PLY, WRL, STL, AOP, ASC, PTX, E57, XYZRG Point cloud: BTX, PTX, XYZ CAD: STEP, IGES, X_T Measurements: CSV, DXF, XML

Color

Range noise, 90% reflectivity

SYSTEM SPECIFICATIONS

Scanner type	Phase shift, hemispherical scanner with 360° \times 270° FOV
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

Power specifications

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

Supported OS

Minimum computer requirements

i5, i7 or i9 recommended, 32 GB RAM, NVIDIA GeForce 400 series

Windows 7, 8 or 10 – x64





ULTRA-HIGH PRECISION, FAST LASER SCANNER

CLEANEST 3D DATA CAPTURE FOR MINIMUM PROCESSING TIME

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.

06/2020-EN-NOPE

RAY-001-(



REVERSE ENGINEERING INSPECTION

CONSTRUCTION (BIM)

IDEAL FOR CONSTRUCTION, INSPECTION AND PRODUCT DESIGN

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 data processing significantly, making it a hassle free job.





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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 Leo, Eva or Space 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	High Quality mode	High Sensitivity mode
Recommended work range	1-50 m	1-110 m
Ranging error	<0.70 mm @ 15 m	<0.90 mm @ 15 m
Angular accuracy	25 arcsecs	25 arcsecs
Range noise, 90% reflectivity	0.12 mm @ 15 m	0.25mm @ 15m
Range noise, 10% reflectivity	0.30mm @ 15m	0.70mm @ 15m
Speed	208,000) pts/sec
Full volume scan time	122,000	pts/sec
Scanning modes	Autonomou	s or via USB
Color	Two fully integrated	5 megapixel cameras

FIELD-OF-VIEW PER SCAN

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

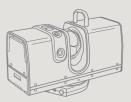
PHYSICAL DIMENSIONS AND WEIGHT

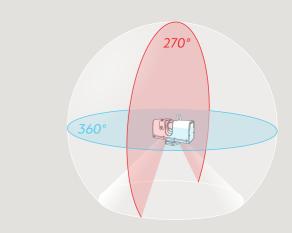
Weight with battery	5.74 kg
Dimensions L × H × W	287 mm × 200 mm × 118 mi

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