## KEY SPECS

Range
Ranging erro
Angular accuracy

Up to 110 m
$<0.70 \mathrm{~mm}$ @ 15 m
25 arcseconds

Range noise, $90 \%$ reflectivity Range noise, $10 \%$ reflectivity Color
0.12 mm @ 15 m 0.30 mm @ 15 m Two fully integrated 5 megapixel cameras

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

## SYSTEM SPECIFICATIONS

## Scanner typ

Distance measurementmethod
Laser wavelength
Laser type
Laser class: (IEC EN60825-1:2007)
Internal coordinate representation unit

Phase shift, hemispherical scanner with $360^{\circ} \times 270^{\circ} \mathrm{FOV}$ Phase-shift
1550 nm
Continuous wave
Class 1
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

Min. horizontal point density
Max vertical point density
Max horizontal point density

## Power specifications

External power supply voltage
Internal battery, powers the scanner for up to 4 hour
Power consumption

12 points/degree
2 points/degree
80 points/degree
80 points/degree

14-24V DC, 30W
Two Li-lon 14V, 49Wh batteries
30 W

Computer requirements

## Supported OS

Minimum computer requirements

Windows 7,8 or $10-x 64$
i5, i7 or i9 recommended, 32 GB RAM, NVIDIA GeForce 400 series


## ULTRA-HIGH PRECISION,

 FAST LASER SCANNERCLEANEST 3D DATA CAPTURE FORMINIMUM 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 data processing significantly, making it a hassle free job.


Artec 3D


## 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 <br> 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 | 1-50m | 1-110m |
| Ranging error | <0.70 mm @ 15m | < 0.90 mm @ 15 m |
| Angular accuracy | 25 arcsecs | 25 arcsecs |
| Range noise, 90\% reflectivity | 0.12 mm @ 15m | 0.25 mm @ 15 m |
| Range noise, 10\% reflectivity | 0.30 mm @ 15 m | 0.70 mm @ 15 m |
| Speed | 208,000 pts/sec |  |
| Full volume scan time | 122,000 pts/sec |  |
| Scanning modes | Autonomous or via USB |  |
| Color | Two fully integrated 5 megapixel cameras |  |

FIELD-OF-VIEW PER SCAN
Horizontal (maximum) $\quad 360^{\circ}$
Vertical (maximum) $270^{\circ}$

PHYSICAL DIMENSIONS AND WEIGHT

| Weight with battery | 5.74 kg |
| :--- | :--- |
| Dimensions $\mathrm{L} \times \mathrm{H} \times \mathrm{W}$ | $287 \mathrm{~mm} \times 200 \mathrm{~mm} \times 118 \mathrm{~mm}$ |



