

# ARTEC RAY



## SPECIFICATIONS

### High Quality Mode

### High Sensitivity Mode

Recommended Work Range	1-50 m	1-110 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	

## KEY SPECS

Range	Up to 110 m
Ranging error	<0.7 mm @ 15 m
Angular accuracy	25 arcseconds
Range noise, 90% reflectivity	0.12 mm @ 15 m
Range noise, 10% reflectivity	0.3 mm @ 15 m

Export formats

OBJ, PLY, WRL, STL, AOP, ASCII, Disney PTEX,  
E57, XYZRGB, BTX, PTX, CSV, DXF, XML

## 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*

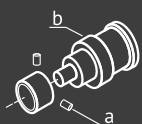
Supported OS *Windows 7, 8 or 10 – x64*

Minimum computer requirements *i5 or i7 recommended, 32 Gb RAM,  
NVIDIA GeForce 400 series*



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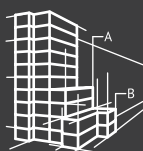
## APPLICATIONS



*Reverse  
Engineering*



*Inspection*



*Construction  
(BIM)*



*Product  
Design*



*Forensics*



*Heritage  
Preservation*