Artec Neo

Hybrid, wireless metrology-grade 3D scanner

Artec 3D

NEW!

MADE IN LUXEMBOURG

Scope of delivery:

1x Artec Neo 3D scanner
1x Recalibration board with retro-reflective targets
1x Power supply with a cable
1x Carry case
1x Thunderbolt cable
2x Artec Neo battery set
1x Artec Neo battery set charger
1x Artec targets box
1x Spatula for target removal
1x Quickstart Guide

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Specifications

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Resolution & accuracy	
Accuracy (with targets)	0.025 mm (0.001 in)
Volumetric accuracy (with targets)	0.025 mm + 0.040 mm/m (0.001 in + 0.0016 in/ft)
Accuracy (without targets)	0.050 mm (0.002 in)
Volumetric accuracy (without targets)	0.050 mm + 0.3 mm/m (0.002 in + 0.036 in/ft)
Mesh resolution	0.050 mm (0.002 in)
Acceptance test	VDI/VDE 2634 part 3*

Scanning range	
Size of scanning object/area	S – M
Working distance	0.19 – 0.3 m (7.48 – 11.81 in)
Volume capture zone	1,800 cm³ (109.84 in³)
Linear field of view H×W @ closest range	128 × 104 mm (5.04 × 4.09 in)
Linear field of view H×W @ furthest range	171 × 152 mm (6.73 × 5.98 in)
Depth of field	110 mm (4.33 in)

Speed	
3D reconstruction rate for real-time fusion, up to	15 fps
Data acquisition speed, up to	8 mln points/s

Scanning algorithms	
Target compatibility	Yes
Target-free geometry and texture tracking	Yes
Hybrid (target & target-free 3D scanning) mode	Yes

Texture	
Texture resolution	5 MP
Colors	24 bpp

Hardware	
Scanner type	Handheld
Power source	AC / DC power adapter, DC 24V
Interface	Thunderbolt 3, compatible with Thunderbolt 4 hosts
3D structured-light source	450 nm, blue LED
Texture illumination source	White LED CRI > 95, color temperature 4000 K
Dimensions HxDxW	187 × 156 × 118 mm (7.36 × 6.14 × 4.65 in)
Weight	1.3 kg / 2.9 lbs (with batteries)
Warranty	2 years

Compatibility	
Supported OS	Windows 11
Recommended computer parameters	13th or 14th Gen Intel Core i7 or i9 processors, RTX 4070 8 GB
Minimum computer requirements	12th Gen Intel Core i9 processor, RTX 4060 8 GB

Output formats	
3D mesh	OBJ, PLY, WRL, STL, AOP, ASC, PTX, E57, XYZRGB
CAD	STEP, IGES, X_T
Measurements	CSV, DXF, XML

* Testing is carried out in Artec's metrology lab, operating according to ISO/IEC 17025 principles.

Artec Neo is a new product and it´s continuously being improved, so its specification may change over time. Artec 3D reserves the right to update these specifications.