

Artec Studio: Smarter. Faster. Every Year.



Annual software updates bring advanced features to Artec Studio, essentially allowing users to upgrade to a new 3D scanner every year.

What's new in Artec Studio 20?

Workflows

Automate data processing with custom workflows that boost efficiency, reduce errors, and consistently deliver top-quality, industry-ready results.

Next-level AI Photogrammetry

Generate cleaner, more complete 3D models at pace thanks to refined masking, sharp image prioritization, and multi-camera support.

Micro II HD Mode & 3-axis support

Activate HD Mode to capture more detailed 3D models with 4x more data points and use 3-axis scanning to achieve full scan coverage.

Improved Artec Point visualization

Pick up more detailed data with every scan, for more intuitive Artec Point capture, and at least 2x faster results.

Spider II Live Decimation & Autopilot

Spider II users can now streamline their workflows with Autopilot and reduce file size on the fly using Live Scan Decimation for export-ready models.

Real-time Fusion for Artec handhelds

Artec Studio 20 brings Real-time Fusion to all our target-free handheld 3D scanners for highly detailed, dynamic scan previews.

Broader file type support

USD and RCP file compatibility has been improved for users in CGI, construction, and more. ZEISS INSPECT is also better integrated for scan analysis.

Enhanced, easier to use UI

Artec Studio's interface has been given a facelift to make scanning and tool panels easier to locate, navigate, and utilize for the same great results with much less effort.

Update history (in-brief)

2025 | AS20 ✓

Custom workflows, Micro II HD Mode, Spider II Autopilot, next-gen AI Photogrammetry, RCP file type integration & a revamped UI.

2024 | AS19 ✓

2x faster workflow, Artec Point & Spider II integrated, AI Photogrammetry added for turning scan, photo, or video data into 3D models.

2023 | AS18 ✓

Smart Fusion for multi-scanner projects, compare map, PtB certification gained, chamfer, fillet & draft angle reverse engineering introduced.

2022 | AS17 ✓

Scan-to-CAD operations: booleans, auto-surfacing & datum alignment. Target support also enhanced, alongside phototexturing and Artec Cloud integration.

2021 | AS16 ✓

New CAD tools, 4x faster HD Mode, 10x faster project loading, model phototexturing added.

Discover what Artec Studio could do for you

Contact your nearest reseller or find out more at www.artec3d.com/3d-software/artec-studio.

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Artec Studio specifications: comparison

	AS 20	AS 19	AS 18	AS 17	AS 16
Fast, powerful 3D processing					
Multi-scanner pipeline	✓	✓	✓		
Workflows	✓				
Multi-scanner Smart Fusion	Improved UI	Fine-tuning of scanner-specific data			
Multi-scanner Global registration	✓	✓			
Fusion: speed	✓	✓	10% faster and with 30% less RAM vs AS16	10% faster and with 30% less RAM vs AS16	
Fusion: exclude faulty frames	✓	✓	✓	✓	
Global registration	✓	New option: thin objects	2X faster	✓	✓
Single-step mesh optimization	✓	10X faster	✓		
Scan decimation	✓	✓	✓		
Autopilot	Eva, Space Spider, Leo, Micro II, Spider II	Eva, Space Spider, Leo, Micro II	Eva, Space Spider, Leo	✓	✓
New Real-time Fusion support	Leo, Eva, Space Spider, Spider II	Leo exclusive	Leo exclusive		
Micro II three-axis support	✓				
Ray II 'Street View' mode	✓	✓			
Artec Point compatibility	2x faster data capture	✓			
X-Ray Mode	✓	✓	✓	✓	✓
HDR & 16-bit Texturing	✓	✓			
AI powered HD Mode					
HD Mode for Leo and Eva	✓	✓	4X faster	✓	✓
HD Mode for Micro II	✓				
Simple HD presets	✓	✓	✓		

AS 20

AS 19

AS 18

AS 17

AS 16

AI powered HD Mode

Point density and frame frequency selection	Automatic or manual	Automatic or manual	Automatic or manual	Manual	Manual
Multiple HD reconstructions with different settings	✓	✓	✓	✓	✓
Setting optimizer based on your GPU	✓	✓	✓	✓	

AI Photogrammetry

Create 3D models directly from photos and videos with AI	✓	✓			
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Advanced CGI tools for the perfect color 3D model

AI color contrast enhancer for Leo	✓	✓	✓		
Boosted 3D scan texture quality	✓	✓	✓		
Improved photogrammetry texture	✓				
Optimized color capturing mode for Leo	✓	✓	✓		
Scene lighting optimization	✓	✓	✓		
Auto glare removal	✓	✓	✓	✓	✓
Model-to-model texture transfer	✓	✓	✓	✓	✓
Photo-texture	Workflow automation support	Ray II photo-texture available	Includes photo-viewing mode	Includes photo-viewing mode	✓
Texture healing brush	✓	✓	✓	✓	✓
Defeature brush	✓	✓	Improved	✓	✓

Smart automation

Autopilot	Including Spider II	Including Micro II	✓	✓	✓
Workflows	✓				
Auto-align	✓	✓	✓	✓	✓
Scan size optimizer	✓	✓	✓	✓	✓
Smart base removal	✓	✓	✓	✓	✓

Easy 3D scanning

Auto-brightness	✓	✓	✓	✓	✓
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Easy 3D scanning

Automated sensitivity for scanning black, shiny and fine objects	✓	✓	✓	✓	✓
Create a 3D model from a combination of Artec 3D scanners	✓	✓	✓	✓	✓
Geometry scanning	✓	✓	✓	✓	✓
Texture scanning	All scanners (except Point)	All scanners (except Point)	✓	✓	✓

Quality inspection

PtB certification of Artec Studio	✓	✓	✓		
Mesh-to-CAD comparison	Import SAT, STEP, IGES, X_T files	Import SAT, STEP, IGES, X_T files	Import SAT, STEP, IGES, X_T files	Import SAT, STEP, IGES, X_T files	Import SAT, STEP, IGES, X_T files
Mesh-to-CAD alignment	Automatic	Automatic	Automatic	Manual	Manual
Datum alignment	✓	✓	✓	✓	
2D section analysis	✓	✓	✓		
Automatic defect detection	✓	✓	✓		
Deviation mapping	Advanced distance calculation	Advanced distance calculation	Advanced distance calculation	Basic distance calculation	Basic distance calculation
Thickness mapping	✓	✓	✓		
Tolerance Check mode	✓	✓	✓		
Enhanced target support	✓	✓	✓	✓	
Target thickness compensation	✓	✓	✓		
Surface distance maps: one-click annotations	✓	✓	✓	✓	✓
Direct export to Control X	✓	✓	✓	✓	✓
Surface distance maps: point-by-point deviation	✓	✓	✓	✓	✓
Measurements: linear, geodesic, sections, distance maps, volume, annotations. Export to CSV, DXF, XML	✓	✓	✓	✓	✓

Quality inspection

Run Control X Inspection from Artec Studio	✓	✓	✓	✓	✓
Run ZEISS Optical 3D Inspection from Artec Studio	✓				

Scan-to-CAD for reverse engineering

Fit CAD primitives to 3D model	Cylinder, sphere, cone, plane, torus	Cylinder, sphere, cone, plane, torus	Cylinder, sphere, cone, plane, torus	Cylinder, sphere, cone, plane, torus	Cylinder, sphere, cone, plane, torus
Create free primitives	Cylinder, sphere, cone, plane, torus, box	Cylinder, sphere, cone, plane, torus, box	Cylinder, sphere, cone, plane, torus, box	Cylinder, sphere, cone, plane, torus, box	
Autosurfacing	✓	✓	Improved	✓	
Freeform fitting	✓	✓	✓	✓	✓
Boolean operations	✓	✓	✓	✓	
Geometrical constraints	✓	✓	✓	✓	Basic
Precise positioning	✓	✓	✓	✓	✓
Export multiple open and closed contours directly to CAD	✓	✓	✓	✓	✓
Create draft angles	✓	✓	✓		
Chamfer and fillet tools	✓	✓	✓		
Instant deviation analysis	✓	✓	✓		
Move and offset faces	✓	✓	✓		
Surface thickening tools	✓	✓	✓		
Direct export to Design X	✓	✓	✓	✓	
Direct export of fitted primitives and meshes to SOLIDWORKS	✓	✓	✓	fitted primitives only	fitted primitives only
Disassembly of assemblies	✓	✓			
Delete faces	✓	✓			

UI and ergonomics

Home screen project manager	✓	✓	✓		
Quick panel	✓	✓	✓		
In-depth properties tab	Advanced	Advanced	Advanced	Basic	Basic
Manual frame picking	✓	✓	✓		
Multiple object export	✓	✓	✓	✓	✓

Cloud collaboration

Artec Studio to Artec Cloud Project Synchronization	✓	✓	✓		
Artec Cloud integration	✓	✓	✓	✓	✓
One-click 3D model share	✓	✓	✓	✓	

Interested in getting the latest industry-leading software?

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