Artec 3D

AN INTRO TO ARTEC
STUDIO 12

INDUSTRY ACCLAIMED SOFTWARE
for professional 3D scanning
and data processing

Now new and experienced users alike can easily achieve
high accuracy 3D scans

AUTOPILOT MODE

FAST PROCESSING SPEED

**SCAN EVEN BLACK
AND SHINY OBJECTS**

MAKING ACCURATE 3D MODELS
HAS NEVER BEEN SO STRAIGHTFORWARD

Autopilot

An advanced smart mode which guides users through post-processing in a few easy steps, automatically selecting the most effective settings for your data and producing a high precision 3D model.

High precision

Whether you choose Autopilot or manual mode, Artec Studio never compromises on precision.

Optional advanced settings

Artec Studio features a full range of advanced settings giving experienced users full control and flexibility.

Direct export to CAD

Artec Studio 12 features direct export to Design X and SOLIDWORKS, making the scan to CAD process even easier.

Easy scanning

Artec Studio's best in class texture and geometry tracking means you don't need to put targets on your object. Just point and shoot!

Built with speed in mind

Powerful algorithms that process your data in seconds. Automated features to save you time.

Scan even black and shiny objects

Artec Studio features the most advanced algorithms for capturing hard-to-scan surfaces such as hair or shiny, black objects.

Tablet compatible

Scan and process your data all on a tablet! Add to this the Artec battery pack and you have a fully mobile 3D scanning solution!

Scan with 3D sensors

Learn professional 3D scanning and processing skills using Artec Studio Ultimate and a compatible 3D sensor.

Ultra-compact data compression

Save much more 3D data on your computer or tablet using cutting edge compression algorithms.

EXPORT YOUR MODEL TO A WIDE RANGE OF POPULAR SOFTWARE

AUTODESK.   3S SOLIDWORKS   Geomagic®   blender

HOW TO MAKE A 3D MODEL
THE WORKFLOW EXPLAINED

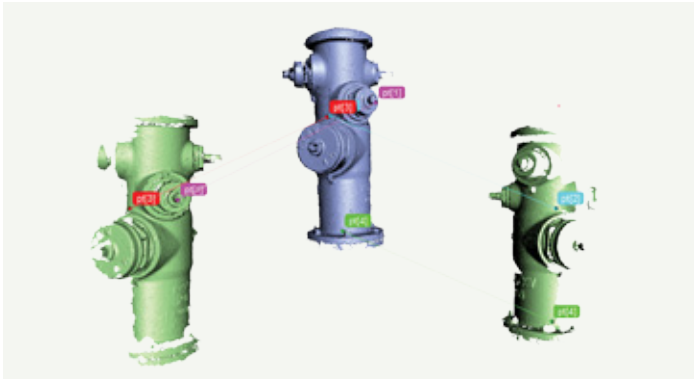*Workflow 1*

Autopilot

For highly accurate results in a few easy, automated steps.

Scan your object and then enter Autopilot to process all your data automatically. Perfect for beginners to achieve professional, high precision results. A great time saver for advanced users.

Workflow 2

Manual mode

For highly accurate results, with full control and flexibility during the process.

Scan your object and choose the post-processing settings yourself. Advanced users have a full range of powerful tools to manipulate their 3D data exactly as they like.

Workflow 3

Build your 3D model as you scan

For instant results, with no post-processing.

Using Real-Time Fusion scanning mode, move the scanner around the object and see your model being built as you go. Perfect for scanning simple objects, such as limbs or torso, or for getting a quick preview.

"Autopilot: very user-friendly and easy!"

Teddy Larsson,
AK Innovative CAD&CAM Solutions

"The Autopilot tool is amazing. I actually got better data on a difficult part processing through the auto-tool than through manual processing!"

Kevin Shain,
Laser Design, 3D scanning systems and 3D measurement services

"Many of my clients need things within a very tight time-frame. I have found real-time fusion to be a godsend when I need to make sure everything is covered before the subject needs to be returned."

Cameron Berry,
3D scanning specialist, Ink Digital

# MORE ABOUT PROCESSING 3D DATA

AUTOPILOT MODE
FAST, AUTOMATED POST-PROCESSING

Whether you are new to 3D scanning and require step-by-step guidance in 3D data processing, or are an experienced user looking to speed up your workflow, Artec Studio's breakthrough automated processing features set a new horizon in 3D scanning.

/ Automatically applies the optimal post-processing algorithms for your object in order to achieve the best possible result

/ Full post-processing timeline, totally automatic

/ Perfect for beginners, a great time saver for advanced users

USING THE AS AUTOPILOT,
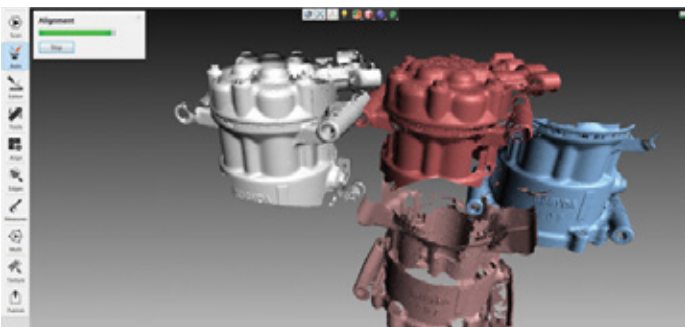### RUN THROUGH 4 EASY STEPS TO AN ACCURATE, WATERTIGHT 3D MODEL

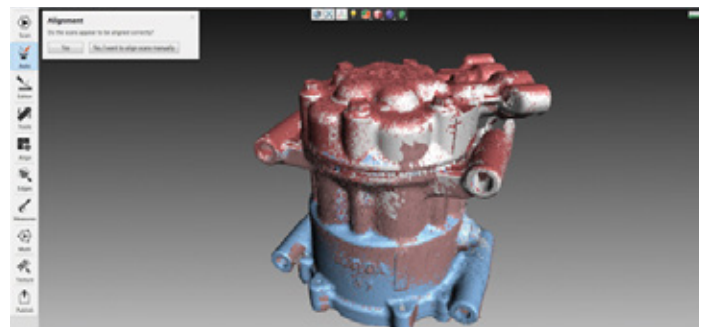*Step 1* Answer a few simple questions about your object and the type of 3D model you need
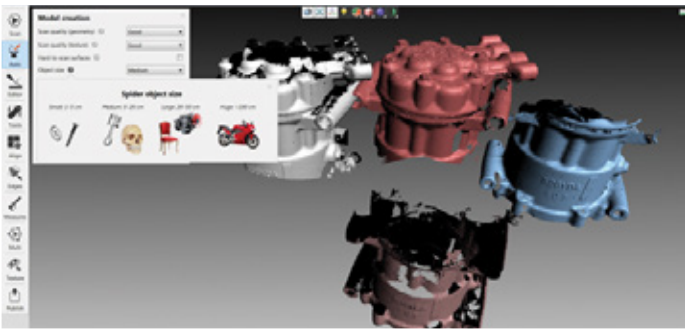
Step 2 Delete any unwanted scanned data
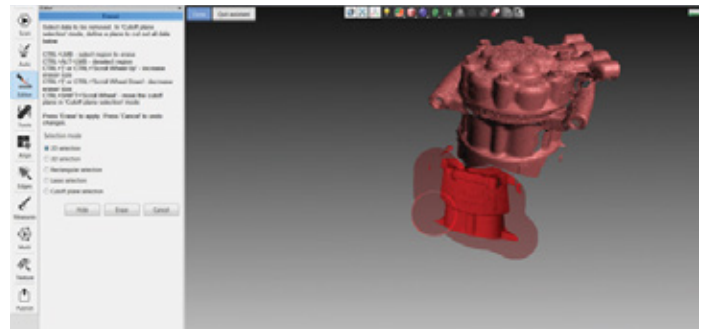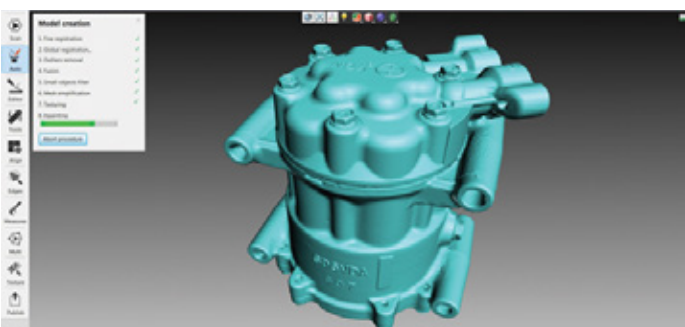

Step 3a Auto align your data in one click

Step 3b Confirm that all scans are correctly aligned

Step 4 Autopilot applies the best processing algorithms to your data


Result A high precision 3D model

MANUAL MODE

CONTROLLED MANUAL PROCESSING
AT BREATHTAKING SPEED

Artec Studio 12 also features a full range of tools for you to process your 3D model manually, giving you full control over your data.

Included are many features which streamline your workflow, making it even faster to achieve the results you need.
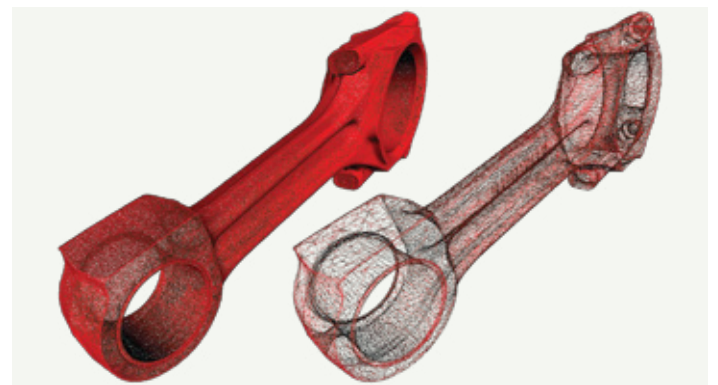
Smart base removal

Automatically delete the base your object was scanned on. Detects even curved surfaces. No need to manually erase that table, stand, or floor!

Before

After
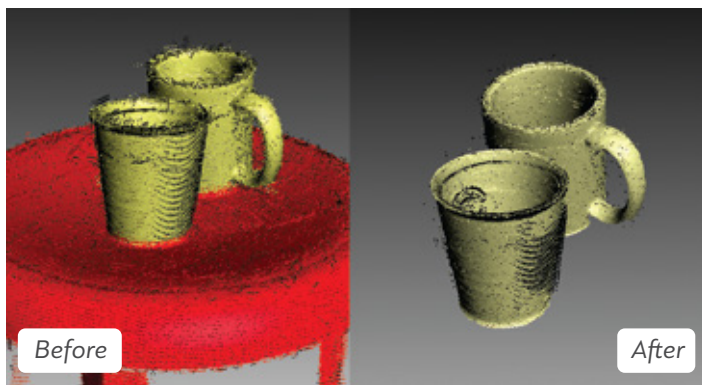
Simplify your mesh in a flash

Optimize the size of your 3D model file by reducing the number of polygons from millions to thousands while maintaining the high quality of the mesh.

Fast, accurate scan alignment

Auto-align for quick, easy processing. Now 95% of objects can be auto-aligned with total accuracy at the click of a button.

Smart geometry editing

Touch up your 3D model in a few quick clicks with Artec Studio's intuitive geometry editing tools.

Apply texture at lightning speed

Accurately map brilliant color to your object in no time.

Rapid, automatized and precise texture editing

Use Artec Studio's advanced algorithms to automatically map texture where data is missing.

ANALYZE YOUR 3D MODEL
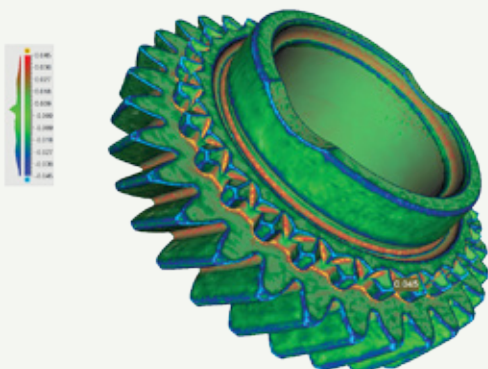
/ Measure the surface and volume of your 3D model

/ Export linear, geodesic and sections measurements in DXF, CSV and XML

/ Annotate your 3D model

/ Compare scans and models with surface distance maps

EXPORT TO
YOUR PROFESSIONAL APPLICATION

Direct scan to CAD

Artec Studio has been successfully integrated with indispensable tools for engineers, product developers and designers to provide them the fastest and smoothest path from 3D scan to CAD. Now you can export your 3D model to 3D Systems Design X in just one click. And by installing either the DezignWorks or Geomagic plugin on your computer, there's nothing simpler than landing your 3D model in SOLIDWORKS, – just press the "Export to SOLIDWORKS" button in Artec Studio for a fast, seamless workflow.

Publish your 3D model online

Upload to the internet and embed your 3D model on your site

Popular 3D export formats

Export your 3D model into the format you need: OBJ, PLY, WRL, STL, AOP, ASCII, Disney PTEX, E57, XYZRGB

WHAT ELSE DO I NEED TO KNOW
ABOUT ARTEC STUDIO?

FULL-FEATURED GUI

ARTEC STUDIO COMES WITH A FULL-FEATURED INTERFACE THAT ALLOWS YOU TO MANIPULATE YOUR 3D MODELS. INCLUDES:

/ Projects and built-in Undo/Redo

/ 3D editing tools (eraser, smoothing brush, transformation tools)

/ Advanced 3D processing algorithms, including: auto-align, hole filling, mesh smoothing, filtration, edge smoothing and much more

LOCALIZATION FOR
11 LANGUAGES

Chinese Traditional, Chinese Simplified, Czech, English, French, German, Italian, Japanese, Polish, Russian and Spanish

COMPARE ARTEC STUDIO

ADVANCED PROCESSING: STREAMLINED FOR FULL CONTROL AT SPEED	Artec Studio version		
	12	11	10
Global registration	Up to 20 times faster than AS11	•	•
Smart memory management for smoother processing	•		
Auto texture correction	•	•	•
Texture mapping	Up to 10 times faster than AS10	Up to 10 times faster than AS10	Up to 5 times faster than AS 9
Texture healing brush	•	•	•
Expanded eraser options	•		
FAST, AUTOMATIC PROCESSING FEATURES			
Autopilot: A-Z automatic post-processing pipeline	•	•	
Smart base removal	Deletes even curved surfaces and all data beneath the base	Removes single flat base only	
Auto-align your scans	Texture + Geometry based 95% of scan data sets can be autoaligned	Texture + Geometry based 95% of scan data sets can be autoaligned	Texture based only 65% of scan data sets can be auto-aligned
Fast mesh simplification	•	•	•
EASY SCANNING			
Scan black, shiny, fine objects	Yes! Automated sensitivity for easy scanning and best results when using Eva	Manual sensitivity control	Manual sensitivity control
Eva maximum FPS boosted	•		
Full-screen scanning mode	•		
Real-time fusion: object size	No limit to object size	No limit to object size	Only small objects
Real-time fusion: tracking	Boosted	Boosted	•
Real-time fusion: improved visualization for easier scanning	•	•	
Texture and geometry tracking	•	•	•
Tracking Alignment Correction	•	•	•
3rd party sensor support	Ultimate Edition: Microsoft Kinect V1 & V2, ASUS XTion, PrimeSense Carmine, Intel RealSense F200 (IVCAM), R200 (DS4) & SR300, XYZprinting 3D scanner		
Scanning on MacOS	Artec ScanApp (beta)	Artec ScanApp (beta)	Boot Camp
ERGONOMICS			
3Dconnexion 3D mouse compatibility	•		
Glossy 3D model rendering: shows full detail of scans	•	•	
Full visualization on rotation	•		
New UI design	New and improved	•	
Optimized color settings	•		
New background	•		
Hints and hotkeys	•		
Progress bar in Windows Taskbar	•		
PROJECT COMPRESSION TOOLS			
Basic	•	•	•
Ultra-compact	•		
MEASUREMENT TOOLS			
Measurement tools: Linear, geodesic, sections, distance maps, volume, annotations, CSV, DXF, XML export	•	•	•
Export mesh square and mesh volume	•		
DIRECT SCAN TO CAD			
Direct export to Design X	•	•	
Direct export to SOLIDWORKS	SOLIDWORKS 2014-2017	SOLIDWORKS 2014-2016	
EXPORT FORMATS			
Full range of export 3D formats: OBJ, PLY, WRL, STL, AOP, ASCII, Disney PTEX, E57, XYZRGB	•	•	•
MOBILITY: TABLET COMPATIBILITY			
UI adapted for tablet use	Improved	•	
Full functionality and support for Microsoft Surface Pro 4 tablet	•	•	
VIDEO CARD COMPATIBILITY			
NVIDIA Quadro	•	•	
NVIDIA GeForce 400 Series or higher	•	•	•
AMD	•	•	•
Intel Series 4600 and higher	•	•	

Artec 3D
STUDIO 12

Free trial version available
from 24 April 2017

Subscription or one-off purchase

Artec Studio is available to purchase as a yearly subscription, ensuring you are always up-to-date with the very latest version, or as a one-off lifetime purchase of a single version only.

Ultimate

For use with Artec 3D scanners and 3rd party sensors:

Artec Leo, Eva, Eva Lite, Space Spider, Spider, plus discontinued models *(MH and MHT series AG, AC, W2 and T2)**

Microsoft Kinect for Windows V1 & V2, ASUS XTion, PrimeSense Carmine, Intel RealSense F200 (IVCAM), R200 (DS4) & SR300, XYZprinting 3D scanner

Professional

For use with Artec 3D scanners:

Artec Leo, Eva, Eva Lite, Space Spider, Spider, plus discontinued models *(MH and MHT series AG, AC, W2 and T2)**

*For information on compatibility with other series of discontinued scanners, please contact support@artec-group.com

	Artec Studio 12 Ultimate	Artec Studio 12 Professional	
	Annual	Annual	Lifetime
1 License	$1,200	$600	$1,450
3 Licenses	$3,000	$1,500	$3,625