



Artec 3D

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DIGITALLY CAPTURE OBJECTS OF ALMOST ANY SIZE

> THE ARTEC 3D SCANNER LINE AND THE KEY FEATURES OF EACH DEVICE

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MULTI-AWARD WINNING SOLUTIONS BEST-IN-CLASS TARGET-FREE TECHNOLOGY

OVER 12 YEARS ON THE MARKET

DATA PROCESSING VIA ARTEC STUDIO SOFTWARE AND EXPORT

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As the 2019 Best 3D Scanning & Metrology Company (3D Printing Industry), our 3D scanners & software are user-friendly enough for beginners to pick up and use, yet powerful enough for even the most demanding of scanning pros. Whether you need to 3D scan tiny mechanical parts or a massive industrial warehouse, our full range of 3D scanning solutions has you covered. Based on target-free technology, all our 3D scanners and software are plug and play and require only a minimum of training.

With over 12 years on the market, our award-winning professional 3D scanners are being used in 146 countries, everywhere from Australia to Zimbabwe, throughout industries such as manufacturing, reverse engineering, quality control, aerospace, healthcare, scientific research, and others.

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ARTEC 3D SCANNER COMPARISON TABLE

TRAINING & SUPPORT



3D SCANNING APPLICATIONS. WHICH INDUSTRIES BENEFIT FROM 3D SCANNERS?



Digitally capture objects of almost any size



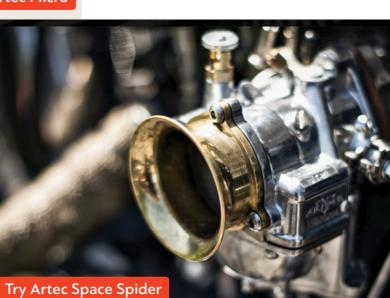


Engine valves Connectors Small parts Watch gears & parts Electronic components Human teeth & jewelry



SCAN SIZE: SMALL

Compressors Small tools PCBs Fasteners Keys & coins Small archaeological objects Jaw structures Anatomical parts such as ears







Gearboxes Construction equipment Castings Alloy wheels The human body Furniture Statues



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Try Artec Leo



Airplanes Small and large vehicles Ships Wind turbines Warehouses Factory floors Archaeological sites Aircraft hangars



SCAN SIZE: MEDIUM-LARGE

Auto bodies Industrial equipment Vehicle interiors Ship propellers Small boats Human body scans Furniture and room interiors

SCAN SIZE: LARGE-VERY LARGE





Use a combination of scanners to digitize a whole environment

Artec 3D scanners can easily be combined for high-accuracy and high-resolution captures of complex environments with objects of varying sizes and detail. For example, a modern airplane hangar with aircraft, service vehicles, and equipment.

> SCAN SIZE: MEDIUM-LARGE

SCAN SIZE: LARGE-VERY LARGE

> Hangar architecture & overall aircraft exterior, fuselage, wings, service vehicles.

Artec Ray Aircraft landing gear, doors, engines, flaps, interiors of plane and service vehicles.

ARY FLIG

NZODIVIF

SCAN SIZE: SMALL

Artec Leo Instrument panels, circuits, hydraulics, avionics, antennas, gearboxes.



Artec Space Spider

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The Artec **3D SCANNER RANGE**

HANDHELD 3D SCANNING PORTABLE, FAST AND INTUITIVE

A professional handheld 3D scanner is portable and user-friendly, making it fast to capture objects and detailed areas from all angles and in almost any environment. Handheld 3D scanners are also the best tool for digitizing hard-to-scan areas such as black or shiny surfaces.

DESKTOP 3D SCANNING

AUTOMATED & METROLOGY-GRADE

If you're looking to 3D scan a number of small objects with the highest precision, then most likely a desktop scanner will be your best choice. You simply mount the object onto the scanning platform, and with a few mouse clicks, the scanner will start the automatic scanning process.

Easy-to-use desktop 3D scanner with

a point accuracy of up to 10 microns,

reverse engineering, product design, manufacture, jewelry and dentistry.

Artec Micro is an ideal choice for

tasks such as quality inspection,



Artec Micro

ACCURACY: up to 0.01 mm

SCANNING OBJECT SIZE: VERY SMALL



Artec Space S

Artec **Eva**

LONG-RANGE 3D SCANNING

FAST METROLOGY-GRADE CAPTURE OF LARGE OBJECTS

A long-range scanner has a very large field of view and is the ideal solution for digitally capturing large areas fast and with maximum accuracy. Tripod mounted, the scanner should be moved to different positions around the object in order to scan from multiple angles.



Artec **Ray**

A long-range laser scanner that quickly delivers submillimeter accuracy. Designed for the highest precision and clean data capture, Ray is ideal for inspection/quality control as well as reverse engineering.

ACCURACY: up to 0.7 mm @15 m

SCANNING OBJECT **SIZE:** LARGE TO VERY LARGE



Budget version of Arte capturing organic shap level option for healthd or schools. No color ca tracking, align or textu

Artec **Leo**

Artec Space Spider An ultra-high-resolution 3D scanner that excels at precisely capturing small objects and complex details for reverse engineering.	ACCURACY: up to 0.05 mm SCANNING OBJECT SIZE: SMALL
Artec Eva Long-time industry-favourite, this versatile 3D scanner makes fast 3D scans of objects such as the human body, furniture, industrial machinery and ancient artifacts.	ACCURACY: up to 0.1 mm SCANNING OBJECT SIZE: MEDIUM
Artec Eva Lite Budget version of Artec Eva for capturing organic shapes. Good entry level option for healthcare, universities or schools. No color capture for tracking, align or texturing.	ACCURACY: up to 0.1 mm SCANNING OBJECT SIZE: MEDIUM
Artec Leo	ACCURACY:

ARTEC STUDIO. **3D SCANNING AND DATA PROCESSING SOFTWARE**

Creating professional 3D models requires smart and powerful software to capture, process, analyze, and edit large volumes of 3D data.

EASY 3D SCANNING WITH ARTEC STUDIO

All Artec scanners, with the exception of Artec Leo, capture 3D data via the comprehensive Artec Studio and its proprietary algorithms.

- / User-friendly and intuitive interface for smooth, expertly guided 3D scanning
- / Quick and easy start-up process
- / 3D Radar guides you to hold the scanner at the optimal distance from the object
- / Get high quality scans every time with a smart tracking system that ensures correct movement of the scanner and object capture
- Stop or pause scanning and continue exactly where you left off by using the smart auto-continue feature

SMART, FAST AND AUTOMATED **PROCESSING OF 3D DATA**

AUTOPILOT.

CREATE PROFESSIONAL 3D MODELS IN JUST A FEW CLICKS



Answer a few easy questions about the object you have scanned, indicating its size, geometry and texture. All the guestions are illustrated with clear examples.



Based on the info provided, Autopilot automatically chooses the right algorithms possible result.



Fast and accurate application of automatically selected settings for all the processing and settings to deliver the best stages: Creates a high precision 3D model in no time.

ADVANCED TOOLS FOR 3D MODELLING / Smart geometry and texture editing / Automatic glare removal based on PBR algorithms / Organically patch and seal holes with Bridges

SCAN TO CAD FOR REVERSE ENGINEERING

/ Fit CAD primitives to your 3D model

/ Save fitted primitives as a CAD file and import to SOLIDWORKS, Design X or other CAD software



EXPORT YOUR 3D MODELS OVER TO A WIDE RANGE OF POPULAR SOFTWARE

35 SOLIDWORKS

4 Geomagic

AUTODESK.

NEW SOFTWARE FEATURES AND MAJOR UPDATES RELEASED ANNUALLY

A new version of Artec Studio is released yearly, with new features and major updates, making your investment into 3D scanning a long-term, cutting edge solution.

INSPECT YOUR 3D MODEL

IN ARTEC STUDIO

/ Import a CAD file and compare it with your 3D scan.

/ Use primitives to measure deviation

/ Get all the needed measurements including the surface and volume of your model

/ Annotate your 3D objects

/ Precisely position your 3D scan in the global coordinate system

Create precise sections and export contours as DXF

Xblender





Reverse engineering & product design





ACCURATE



3D scanning has proven itself to be a highly crucial tool in the reverse engineering process. It essentially eliminates the need to design a product from scratch. Not only that, but by having an incredibly precise 3D model of an existing part, with all of its surface measurements and unique characteristics, it's the ideal reference from which to start.

When it comes to improving a part or changing the design of it in some way, 3D scanning makes it possible for you to understand the original design intent. With that in mind, you'll be that much better equipped to design your new part.

3D scanning for reverse engineering gives you the fastest and most accurate path for product development as well as improving your production workflow itself. It guarantees that your new components will fit perfectly with existing parts and structures, including legacy parts that are no longer available or even those without drawings or CAD files. And when it comes to parts with highly challenging surface features and intricate geometries, this is where 3D scanning truly shines.

ROI OF 3D SCANNING FOR REVERSE ENGINEERING

Artec 3D scanners: the perfect investment for reverse engineering

An international manufacturer and distributor of construction machine spare parts wanted to replace old parts with new ones milled from 3D models made by the Artec Eva 3D scanner.

> TRADITIONAL METHOD Manual measurement

Time	•••	Approximately 2 weeks to complete each 3 m part + production time.			
Cost		Approximately 80 hours at \$50/hour = \$4000.			
Method	tape measures, c protractors and t	Using measurement tools including tape measures, calipers, angle meters, protractors and thread gauges. Then the final drawing is created in CAD software.			
Level of accuracy	•	High risk of inaccuracy, since it is very difficult to measure such parts by hand.			
ROI per 3 m part	Manual + CAD	3D scanning + CAD			
Time	80h	11 h (85% saving)			
Cost	\$4000	\$550 (85% saving)			



NEW METHOD High-speed 3D scanning with Artec Eva

11 hours total: 30–40 mins to scan each part, 3–4 hrs to create 3D model, 7–8 to convert to solid models.

11 hours at \$50/hour = over 85% cheaper than the manual method.

3D scanning each part in detail, top and bottom, using Artec Eva, 3D data processing in Artec Studio and CAD conversion using Geomagic Design X.

Up to 0.1 mm 3D accuracy.

!

THE COMPANY ACHIEVED OVER 85% REDUCTION IN TIME AND COST **USING 3D SCANNING**



Rapid prototyping





FAST

FLEXIBLE

For a broad variety of industrial applications, rapid prototyping with 3D scanners is a reliable and cost-effective path to creating 3D models of products, parts, and even entire machines. Prior to manufacturing in large quantities, engineers can use such 3D models for testing existing parts as well as variations of the same parts, in addition to unique product designs based upon the original models. This step-by-step verification is a crucial phase during which testing is conducted that factors in size and shape, as well as the characteristics of different materials.

In recent years, the combination of 3D scanning and 3D printing (additive layer manufacturing) has become a popular option for companies making prototypes, opening up the range of possibilities for industrial manufacturing even more. Having the flexibility to confidently create and test prototypes in diverse materials in a matter of hours has been a long-standing dream come true for engineers and product designers worldwide.



Quality control

MEASURE TRICKY / HARD TO ACCESS AREAS



Even the most highly precise production facilities manufacture parts with slight variations from the original CAD design. The question is whether those deviations are acceptable or not. 3D scanning lets you create precise models of your parts, and then via either first article inspection or in-line inspection, you can use these models to confirm if your parts are within specified tolerances. By doing so, you can significantly reduce production time, slash production costs, as well as limit liability issues related to product failure.

Non-contact 3D scanning does what manual inspection simply cannot. Digital inspection can precisely and fully document disparities well beyond the level of pass/fail. When working with a 3D scanner that offers submillimeter accuracy, you can easily create 3D models for CAD reports that clearly show the full spectrum of deviations across the part's surfaces.

SIGNS YOU REALLY NEED **3D SCANNING**

If you haven't started leveraging this rapid non-contact measurement technology yet, here are the key warning signs that indicate it's time to dive into the world of scanning.







You are not

parts fail

sure why some



Measuring parts takes too much time



You think you might be scrapping perfectly good parts

You need to re-measure parts you don't have access to

You need to measure things in more places





Healthcare

NON-CONTACT





In recent years, 3D scanners have seen more and more widespread use throughout the healthcare industry. Whether that's for making prosthetic limbs, 3D-printed knee replacements, 3D-printed organs using stem cells, custom orthotics, or precise dental implants, 3D scanners have enabled healthcare professionals worldwide to do what they only dreamed of in the past. Not to mention the safety record of 3D scanners, which use either photos or structured white light and therefore pose no risk as do X-rays and MRIs, with their use of radiation.

One of the most basic yet at the same time most beneficial uses of 3D scanning in healthcare is that it allows doctors to quickly and safely visualize a range of various solutions for a patient without having to directly test them. Such applications include using 3D scanning to digitally capture a patient's unique anatomy, then export the model to a CAD program and create a prosthetic limb that is comfortable from day one. Another application is in making fast and accurate diagnoses at earlier stages than ever before.

ROI OF 3D SCANNING FOR CUSTOM ORTHOTICS

Artec 3D scanners: a superlative choice for custom orthotics

An orthotics & prosthetics clinic needed to reduce the time & costs required for making custom orthoses, while making them more precise and comfortable.

TRADITIONAL METHOD Manual measurement

Time	30 minutes for casting, 1 hour for measurement, 3 hours CAD design, 30 minutes milling and finishing.
Cost	Approximate time: 5 hours.
Method	Plaster casting together with tape measures and calipers, with the final drawings being created in CAD software and sent to the milling machine.
Level of accuracy	Slow and messy, as well as uncomfortable for patients. High risk of inaccuracy.

ROI per orthosis	Traditional + CAD	3D scanning + CAD
Time	5h	1 h (80 % less time)
Cost	Full cost	69% cheaper



NEW METHOD High-speed 3D scanning with Artec Eva

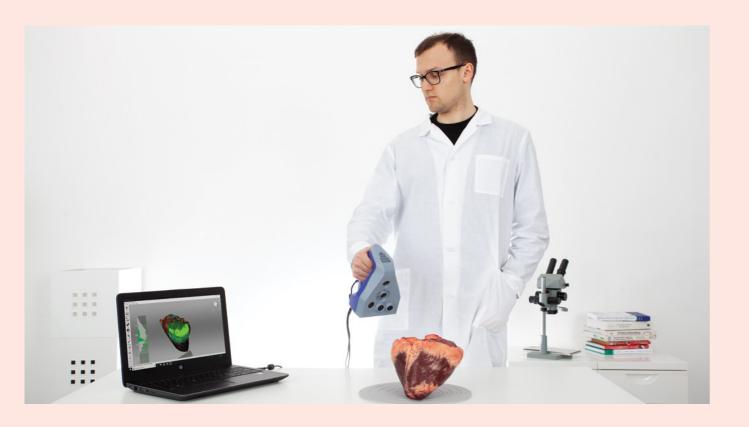
3 minutes for 3D scanning, 20 minutes processing & CAD, 30 minutes milling and finishing.

Approximate time: 1 hour = 80% time savings compared to traditional method.

3D scanning patient's feet from all sides with Artec Eva, processing in Artec Studio, converting to CAD, then sending to milling machine.

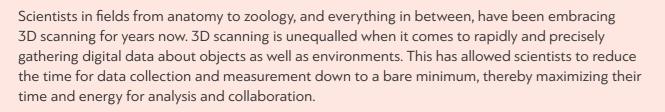
Up to 0.1 mm 3D accuracy.

THE CLINIC ACHIEVED 80% REDUCTION IN TIME AND 69% REDUCTION IN COSTS USING 3D SCANNING



Science & Research





NON

CONTACT

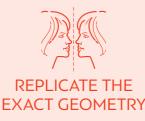
To focus on the field of paleontology, for example, researchers using 3D scanning use captured digital data to gain clear windows into a specimen's biological structure, as well as its genetic influences, evolutionary changes over time, its environment, and much more.

With its ability to capture millions of points per second, and precisely measure even the most organic and elaborate of objects, 3D scanning gives researchers a pivotal tool for use in a myriad of applications, both in the laboratory and out in the field. On top of that, due to the fragile nature of many specimens and objects, a key requirement in many scientific fields is that of noncontact with the specimens being studied. 3D scanning answers this demand perfectly, as it allows the high resolution digital capture of objects at submillimeter levels of accuracy, without the need for any physical contact with the specimen itself.



CGI

CREATE A HIGH POLY MODEL IN MINUTES



CGI has been used to inject unforgettable scenery and jaw-dropping special effects into movies as far back as 1973. CGI and VFX have allowed movie makers worldwide to bring their dreams to life on the big screen, and 3D scanning has played an integral part in that, especially in the past decade. Rather than spending countless hours on creating new computer graphics and scenery from scratch, artists and designers can simply use a handheld 3D scanner to digitally capture props, actors, and even entire scenes in a matter of minutes. From there, it's a short process to converting these scans into 3D models, which can then be modified and integrated using a variety of cinematic technologies. The resulting digital models that we eventually see on the screen are breathtaking, often indistinguishable from the real actors, props, and locations.

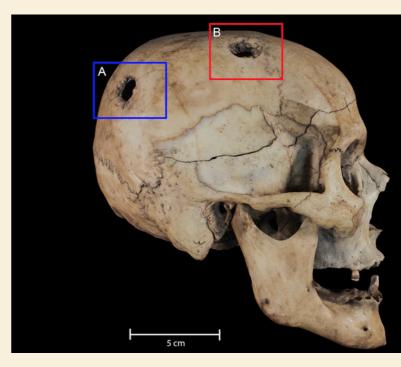
3D scanning has also found its way into the video game arena. Game companies can quickly 3D scan new characters, props, and locations in mere weeks, rather than the months it used to take the traditional way. This has allowed them to release new versions faster than ever before, with a level of realism that has turned millions of users around the world into raving fans anxiously lining up for the newest release.

A more recent use of 3D scanning for CGI has been that of digitally capturing furniture and home interiors and clothing for creating online catalogs as well as lifelike VR and AR (augmented reality) websites. Users can view products in different colors, and in the case of VR/AR, navigate, explore, combine, and interact with various 3D models and environments in different configurations.



EASILY MAKE CHANGES OR ADDITIONS TO AN **EXISTING OBJECT**





Forensics

Heritage Preservation and Virtual Museums







The application of 3D scanning in the field of heritage and cultural preservation is growing increasingly popular in recent years. Typically performed via desktop 3D scanners for scanning very small objects, handheld, structured-light scanners for small to medium objects, or tripod-mounted laser (LiDAR) scanners for very large objects or an entire site. With all three kinds of scanners delivering up to sub-millimeter accuracy, 3D scanning gives you what nothing else can: color, highly-interactive, exact digital models of buildings, landscapes, and all the objects within and surrounding them.

Whether for VR or AR or simply archival preservation of historical architecture, monuments, sculptures, reliefs, artifacts, topography, etc., 3D scanning allows the non-contact digital cataloging of priceless, fragile objects. Additionally, in the case of future repairs or reconstruction, for example, following a fire or other disaster, such exact digital models can truly save the day.

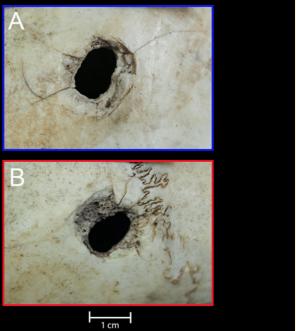
Beyond the preservation aspect, 3D scanning has made possible what was once only dreamed of: virtual tours and fly/walk-throughs of historical buildings and locations. These are being made available for visitors and researchers both near and far. The educational and cultural outreach benefits of these kinds of experiences extend well beyond the present day. As technology progresses, the 3D data gathered today will be utilized to an even greater extent, in museums, research labs, classrooms, and elsewhere.



Today as never before, forensics investigators have a wide array of cutting-edge tools available for crime scene analysis and investigation. Traditionally, the use of cameras, tape measures, and other approximate methods of forensics investigation requires hours if not days at the crime scene itself, with each passing hour increasing the chance of evidence disappearing or the scene itself being compromised. As well, it can be extremely difficult for investigators to understand which aspects of a scene contain relevant evidence that needs to be identified and documented. 3D scanning addresses all of the above issues and more.

Using a handheld structured-light scanner, or a tripod-mounted laser scanner, or together in unison, a forensics team can digitally capture a crime scene in its entirety in minutes rather than hours. The resulting scans will be geometrically precise, with all the colors, depths, and textures present at the scene itself, not to mention the exact spatial relationships between everything captured, up to submillimeter levels of accuracy.

A more recent development in 3D scanning in forensics is that of creating 3D-printed bones and other evidence for use in the courtroom as well as ongoing investigations. Such 3D-printed replicas, if created via the use of a professional high-resolution 3D scanner, will be virtually identical to the original forensic object, and thus ideal for presentation in court to a jury, or for use during active investigations, even taken out into the field for forensic comparisons.





ARTEC 3D SCANNER **COMPARISON TABLE**

MicroSpace SpiderEva / Eva LiteLeoRayScanner typeDesktopHandheldHandheldLong-rangeSize of scaning object / areaVery smallSmallMedium Up to 0.01 mmMedium to largeLarge to very largeAccuracyUp to 0.01 mmUp to 0.05 mmUp to 0.1 mmUp to 0.1 mm0.7 mm @15 mmResolutionUp to 0.029 mmUp to 0.1 mmUp to 0.5 mmUp to 0.5 mm0.0125°Target free technologyYesYesYesYesYesColor + geometry trackingYesYesYes/NoYesYesColor captureYesYesYes/NoYesYesScanning softwareArtec StudioArtec StudioOn-board softwareArtec Studio r Artec StudioData softwareSi, Jo ri 9 recommended, 32GB RAMSi, Jo ri 9 recommended, 8GB RAMSi, Jo ri 9 recommended, 2GB RAMSi, Jo ri 9 rec				•	÷	
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Hassle-free export into a wide range of formats:

CAD: STEP, IGES, X_T Measurements: CSV, DXF, XML Mesh: OBJ, PLY, WRL, STL, AOP, ASC, PTX, E57, XYZRG Point cloud: BTX, PTX

ARTEC STUDIO SOFTWARE

Subscribe to Artec Studio and its yearly new features and major updates to keep your 3D scanner and 3D data processing workflow at the cutting edge of 3D technology.

GLOBAL SUPPORT AND TRAINING

We offer global support, training, and integration via our extensive reseller network as well as online by Artec 3D's dedicated support team. And we stand behind all our 3D scanners with a 2-year guarantee.

EVERY ARTEC 3D SCANNER COMES WITH A 2-YEAR GUARANTEE

GET A FREE DEMO AND TRY ONE OUT

Get a free demo at one of our **150 distribution centers** worldwide and see how well Artec 3D scanners can scan the types of objects you need digitizing.

www.artec3d.com/where-to-buy

