goengineer

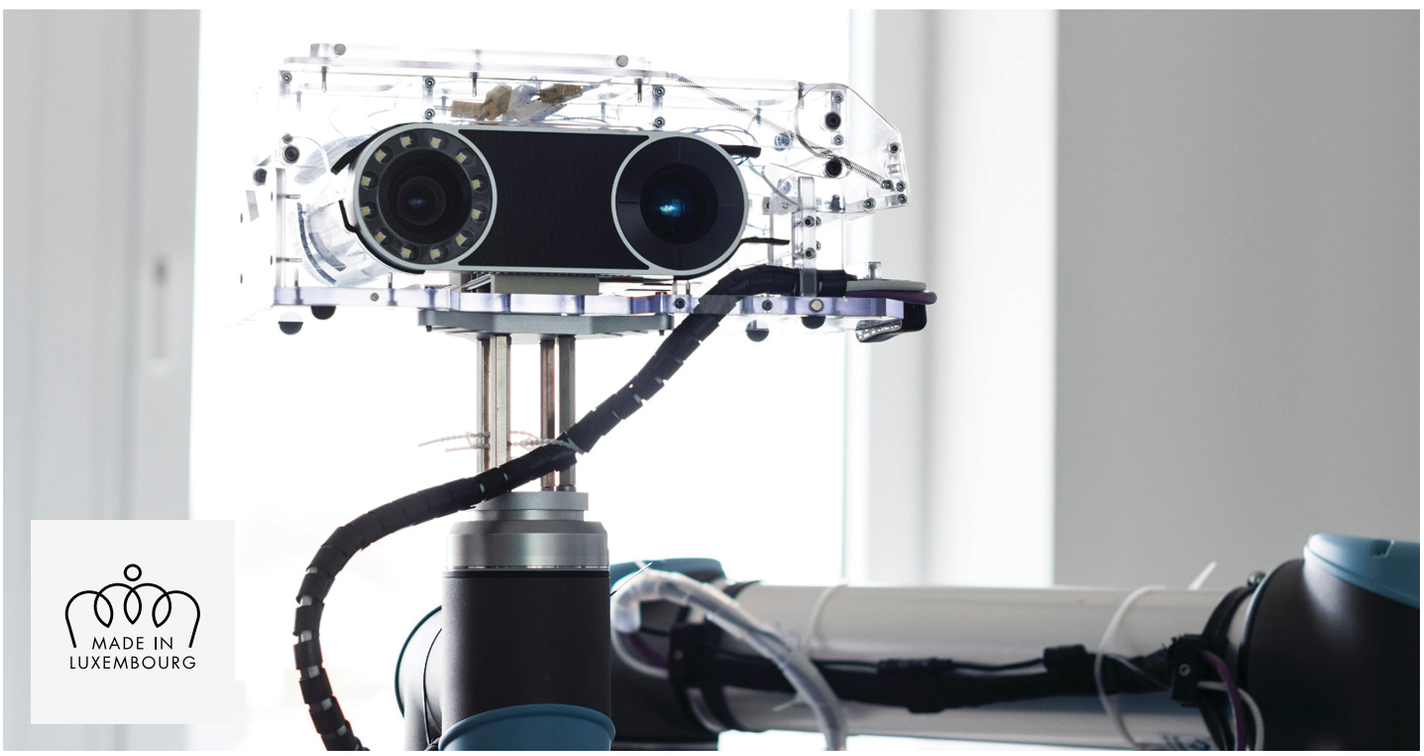
Artec 3D

Professional 3D scanning solutions for heritage preservation



Who we are

Artec 3D scanning solutions have helped to document, explore, reconstruct, and preserve priceless cultural heritage worldwide. Combining next-generation Artec 3D technology, art, and science, professionals across the globe create ultra-accurate digital twins of artifacts, exhibits, structures, and sites. From museum curators to archaeologists in the field to art conservators, heritage preservation specialists trust Artec 3D for the utmost fidelity of data capture.



The wireless, AI-driven Artec Leo is produced in-house at Artec 3D's state-of-the-art production facility.

More than 15 years of experience

Artec 3D has made impressive contributions to the sector in the last 15 years by creating detailed digital replicas of historical objects, pieces of art, and entire structures to aid in research and restoration efforts. Having worked with the world's leading museums, public agencies, and independent preservation initiatives, Artec 3D has been steadily safeguarding cultural heritage for future generations while enabling global access.

Made in Luxembourg

Artec 3D scanners are engineered and manufactured in Luxembourg, meeting the highest quality standards and exemplifying the best of European craftsmanship. Each device is assembled with precision and unparalleled attention to detail, ensuring that every scanner becomes a reliable tool for specialists who require both accuracy and delicacy when handling precious objects.

Trusted by top heritage experts

The list of esteemed organizations that rely on Artec 3D to document, preserve, and share cultural artifacts includes the British Museum, the Smithsonian Institution, and the Colombian Museum of Gold, just to name a few. From art galleries to universities, Artec 3D scanners are used whenever a safe, non-contact technology and unprecedented precision are required.

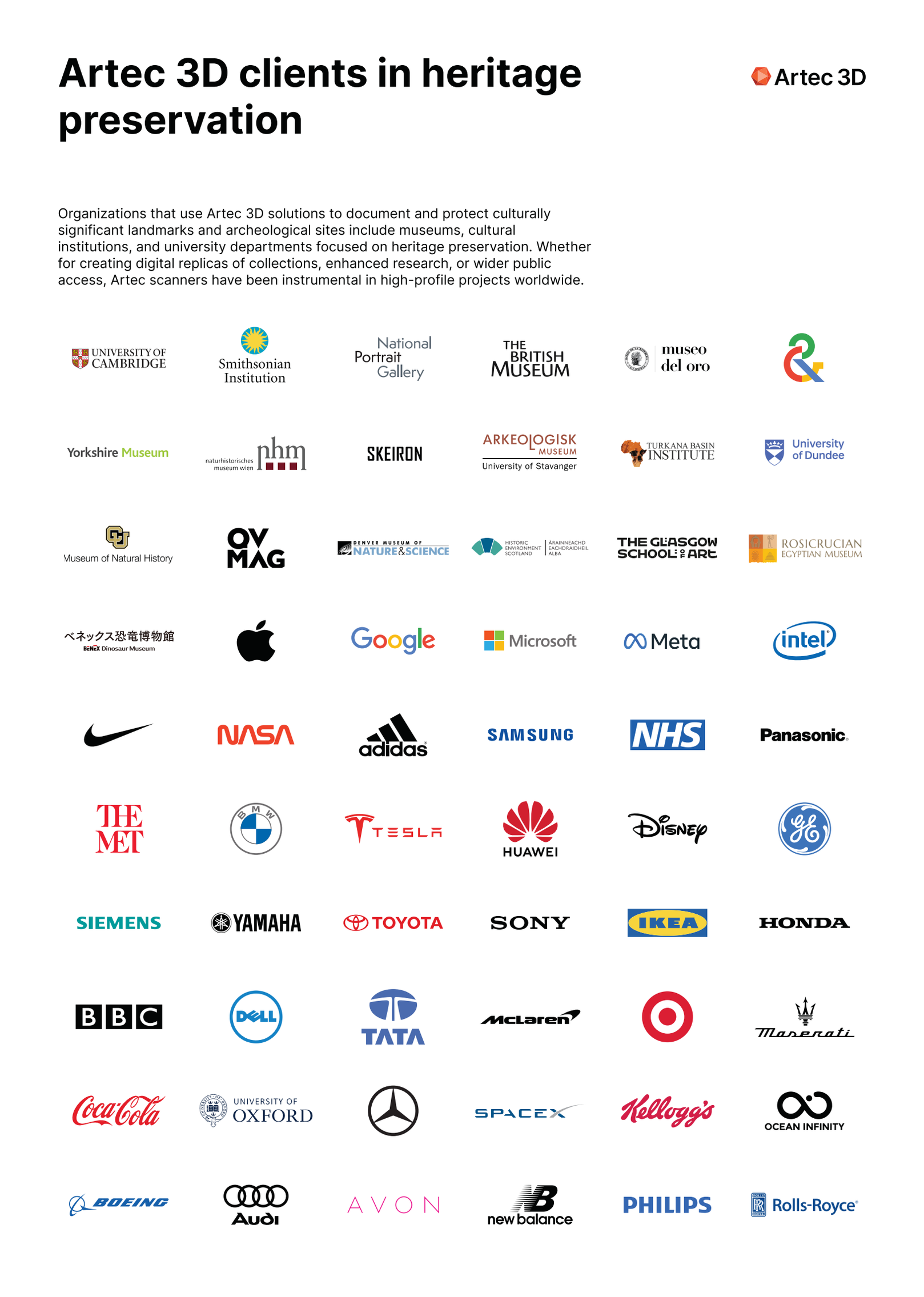
Award-winning solutions

With a proven reputation for their precision, portability, and ease of use, Artec 3D products are a go-to solution for creating detailed 3D models of all types of heritage to digitally immortalize objects and sites in high resolution and allow global virtual access. Artec scanners have won numerous awards for their advanced algorithms, speed, and outstanding performance.

Artec 3D clients in heritage preservation

Artec 3D

Organizations that use Artec 3D solutions to document and protect culturally significant landmarks and archeological sites include museums, cultural institutions, and university departments focused on heritage preservation. Whether for creating digital replicas of collections, enhanced research, or wider public access, Artec scanners have been instrumental in high-profile projects worldwide.



Benefits of Artec 3D scanning in heritage preservation



Artec 3D scanners render vulnerable heritage, such as fragile ancient reliefs, with an astonishing level of detail, all while ensuring safety.

3D scanning is a high-tech time capsule for history and culture: from Celtic rune stones to Buddhist temples, Artec 3D scanners have captured countless artifacts, monuments, and buildings with lightning-fast precision. 3D technology is a way to safely render every intricate element and the grandest of structures, turning heritage into a 3D treasure that lasts forever.

Heritage preservation teams no longer need to worry about degradation or damage from handling unique fragile items: digital twins can be studied, admired, and restored without ever touching the real object. Thanks to high-quality 3D models, professionals and their audiences can benefit from new dimensions of virtual exploration, allowing them to experience timeless cultural heritage like never before.

100%
contactless

100%
portable

S→XL
size range

<2h
for training



Artec Leo allows you to easily move around the object while scanning, making the process as intuitive as shooting a video.

Non-contact data capture

Artec 3D scanners enable you to move around any delicate artifact or site getting its high-quality 3D replica in real time - all at no risk of damaging the authentic object.

Ultra-realistic texture

Whether you document an existing masterpiece or recreate items or environments, Artec 3D devices provide you with 3D models in vibrant color by either scanning your object or combining 3D scan data with photos from a DSLR camera or even a smartphone.

Impeccably accurate geometry

Consistent accuracy brought by Artec scanners results in ultra-sharp 3D models for recording, exploring, and preserving the world's heritage for many generations to come.

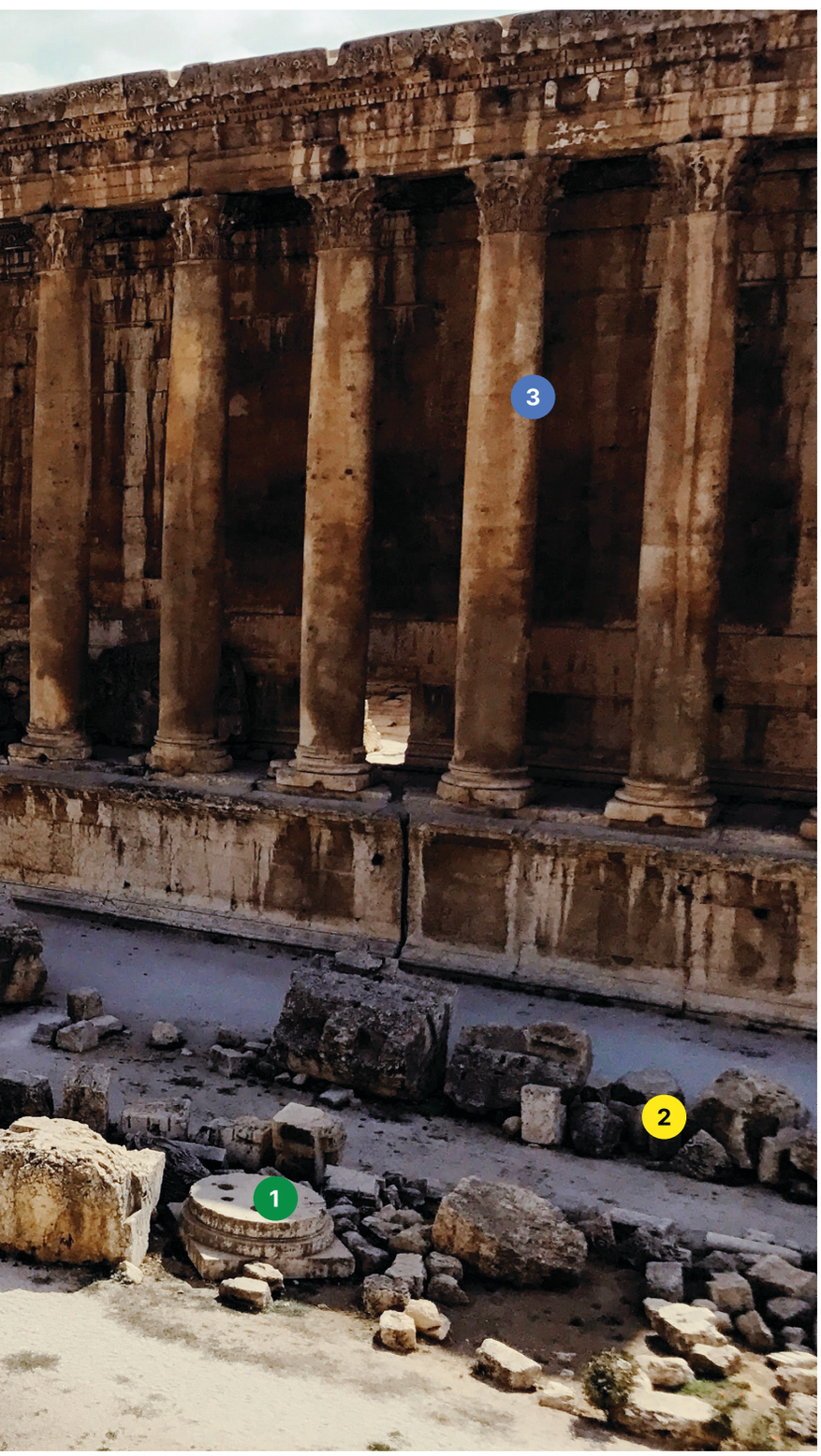
Intuitive yet robust software

A user-friendly interface and cutting-edge processing tools in Artec Studio allow for highly precise 3D scanning, resulting in crispy clean digital models of cultural artifacts and structures. Artec Cloud, in turn, helps you store, edit, analyze, and share these digital twins.

Combine Artec scanners to capture exhibits, sculptures, monuments, and buildings of any size

Artec 3D scanners make a perfect match to capture entire historical environments in 3D, from delicate, ornate artifacts to huge and complex heritage sites. With their different scanning range, Artec devices can help digitize anything from ancient statuettes and elaborate carvings to magnificent castles and excavation sites. Whether rendering the intricate features of cultural monuments or documenting ancient ruins, Artec solutions work seamlessly together to make true-to-original 3D models for heritage preservation, restoration, and research.







1

Artec Leo

Object range: Medium – large

Ancient monuments and statues, sculptures and paintings, ceramics and skeletons, capitals, reliefs, friezes, and decorative elements.



2

Artec Spider II

Object range: Small – medium

Detailed small artifacts with complex geometry, jewelry, detail-rich costumes, weapons, ceramic shards, inscriptions, and any fine textures.



3

Artec Ray II

Object range: Large – extra large

Large-scale objects and environments, such as castles, cathedrals, historical landscapes, and any outdoor heritage sites.

Artec 3D line-up



The handheld Artec Eva, acclaimed for scanning medium-sized artworks and sculptures in museums and galleries, is used by diverse initiatives such as Scan the World.

Handheld 3D scanning

Safe, lightweight and fast

Artec 3D handheld solutions are designed to make scanning intuitive and safe, providing an end-to-end workflow that easily transforms cultural sites into fine 3D replicas in fantastic color. Indoors and outdoors, in any lighting conditions, capture relics, structures, and sites in soaring resolution and with no risk to the original.

Long-range 3D scanning

Accurate capture of large or distant heritage sites

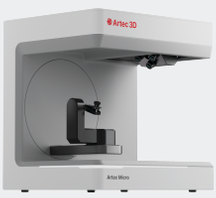
Wide field of view and best-in-class angular accuracy make Artec 3D long-range scanners perfect for digitizing entire ancient towns. Scan massive sites and structures from up to 130 meters away and still get high-precision results.

Desktop 3D scanning

Microscopic detail for tiniest objects

Stationary scanning with Artec 3D brings ultra-accuracy to your desk. Capture your object in a one-click automated workflow and render peculiarities otherwise invisible to the human eye.

Artec 3D



Artec Micro II

Renowned for its exceptional accuracy, this desktop scanner excels at capturing the smallest objects and elements, from a gem in a jewelry piece to a miniature craft. Get an unbeatable level of detail without ever having to leave your museum or university lab desk.

Desktop 3D scanning

Accuracy: up to 5 microns
Scanning object size:
very small to small



Artec Ray II

From a group of tombstones to ancient ruins, Artec Ray II, our long-range 3D LiDAR scanner, offers fast digitization of massive buildings and entire cultural landscapes from a distance of up to 130 meters and with submillimeter accuracy.

Long-range 3D scanning

Accuracy: 1.9 mm @ 10m
Scanning object size:
large to extra large



Artec Leo

For effortless, cable-free scanning right on site, rely on Artec Leo's onboard NVIDIA processor, HD display, and battery. Point and shoot to digitize virtually anything in real time, from a historical monument to a freshly excavated mummy.

Handheld 3D scanning

Accuracy: up to 0.1 mm
Scanning object size:
medium to large



Artec Eva

Adaptable and quick, Artec Eva captures a diverse range of medium-sized objects while keeping every bright hue of their color. A well-loved solution for museum workers, archaeologists, and historians across the globe, featherlight Eva is the true queen of field trips.

Handheld 3D scanning

Accuracy: up to 0.1 m
Scanning object size:
medium to large



Artec Spider II

With astounding resolution and ability to render the tiniest details or patterns, Artec Spider II is a sophisticated precision tool for capturing every fine element like a crack in an ancient ceramic vase, medieval embroidery, or coin surface - whether in a museum room or during an expedition.

Handheld 3D scanning

Resolution: up to 0.05 mm
Scanning object size:
small to medium

Software and integration: Artec Studio



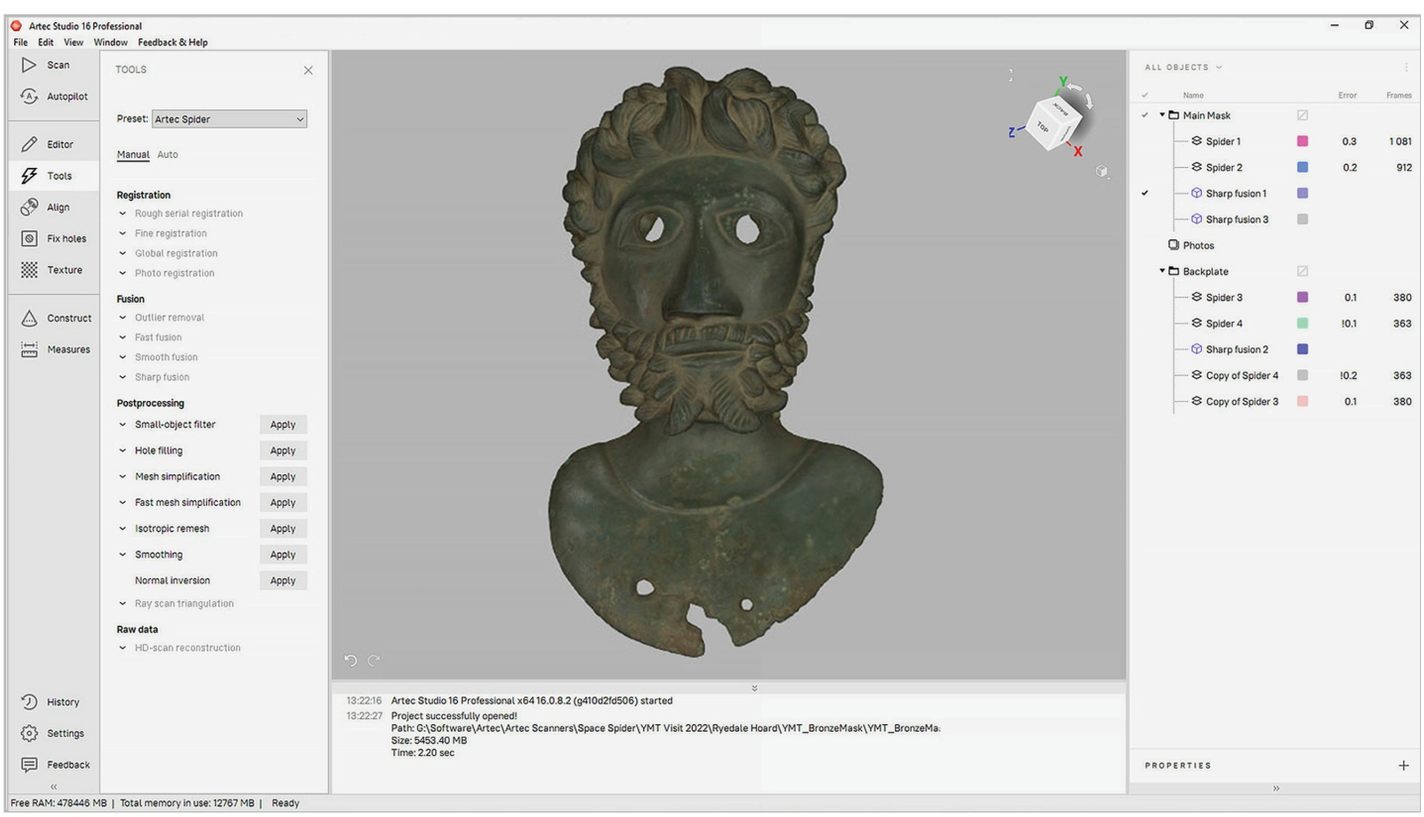
Intuitive 3D scanning with Artec Studio

A powerful scanning and processing software, Artec Studio guides you through your 3D scanning workflow when acquiring data for heritage preservation. With its wide range of smart tools and a gentle learning curve, you can fully harness the potential of your scanner.

User-friendly data processing

Artec Studio has advanced tools and adaptable modes to streamline a scanning experience for heritage preservation specialists. Process datasets of up to 500 million polygons when capturing huge cultural landscapes, and get top-quality 3D data in minutes.

- Texture altering tools to adjust color, eliminate glare, enhance or remove texture elements
- Mesh editing tools to correct surface imperfections
- Photo texturing for texture-perfect results
- Create and process datasets of up to 500 million polygons
- Access, store, share, and process your 3D projects from wherever you are



Artec Cloud

A one-of-a-kind online platform to access, store, view, and collaborate on your 3D data, Artec Cloud is accessible right from your browser. Whether for a group of archeologists across different excavation sites or for museum staff curating an international preservation project, Artec Cloud enables professionals to connect from any part of the world by uploading models from Artec Studio or directly from their devices. Monitor, discuss, and get instant feedback wherever you are.

Artec Studio

User-oriented software to transform cultural objects into high-res digital twins

Artec 3D

Vibrant color representation

Whether it's a building, a work of art, or a dinosaur skeleton, get perfect texture with the help of Artec Studio's photo texturing algorithm. Process raw texture frames to boost color contrast, double resolution, and enhance overall texture quality.igliorare la qualità complessiva della texture.



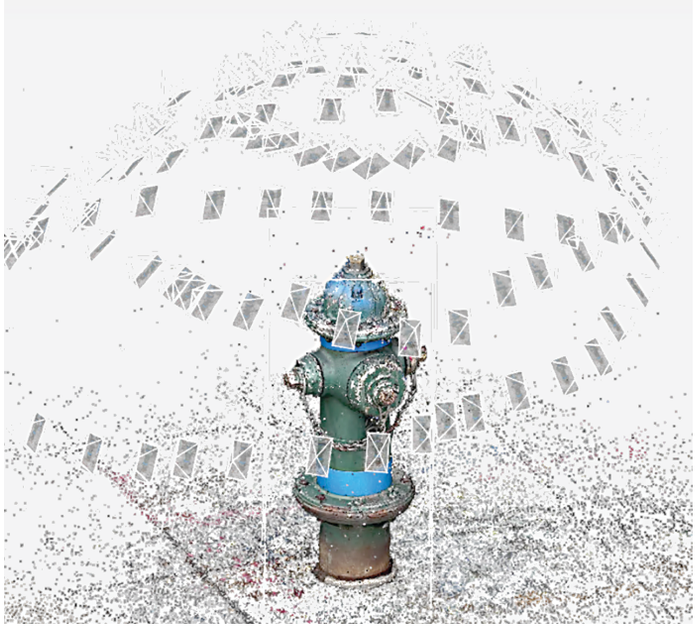
Mild learning curve

Even for professionals with no tech background, Artec Studio makes it possible to rapidly create accurate, lifelike 3D models for digitally documenting, monitoring, and preserving cultural heritage.



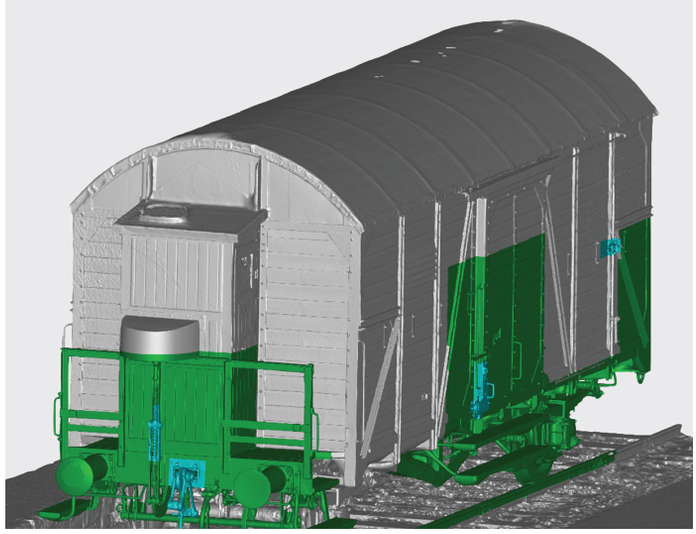
AI Photogrammetry

Ensure photorealistic fidelity in 3D models from photos and videos.



Combine data from different scanners

Artec Studio aids you in using all the 3D data available at a site. Use Artec scanners that best meet your needs, and align the scans to get a comprehensive 3D model, such as of an ethnographic museum with every exhibit in it.



AI Photogrammetry

Artec 3D

With the latest Artec 3D innovation, you can turn images or videos into watertight 3D models. Opening Artec 3D software to a widest range of digital preservation specialists, AI Photogrammetry transforms any data into ultra-realistic digital twins in three easy steps:

Step 1: Capture and upload

Upload photos or videos captured with your device to Artec Studio.

Step 2: Align images

Automatically align images and identify fine features with unique algorithms.

Step 3: Create your 3D model

Construct a feature-rich model, ready for fine-tuning or direct application.

True-to-life 3D models using any device

Digital camera

Smartphone

Microscopy

Drone footage

Neural engine-powered object reconstruction

Achieve unbeatable detail beyond the reach of most digitizing solutions:

- Digitize translucent or transparent surfaces
- Capture shiny objects
- Render featureless surfaces more effectively

Scene reconstruction

Rapidly digitize both indoor areas and entire landscapes with exceptional level of detail:

- Capture extensive areas in a single workflow
- Generate high-resolution terrain mapping
- Access and document isolated or hard-to-reach territories

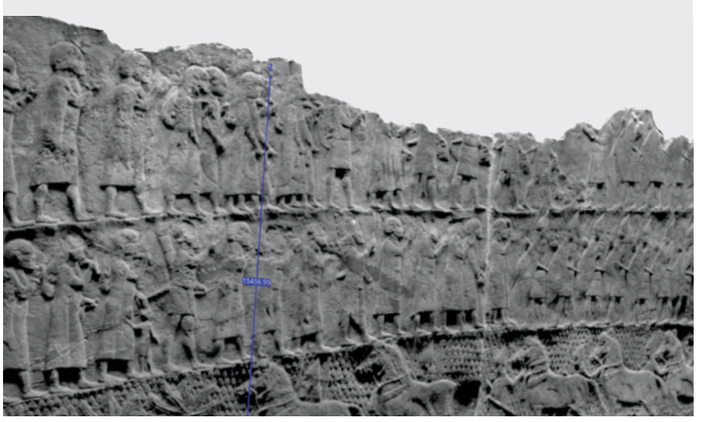




Real-world applications of 3D scanning in heritage preservation

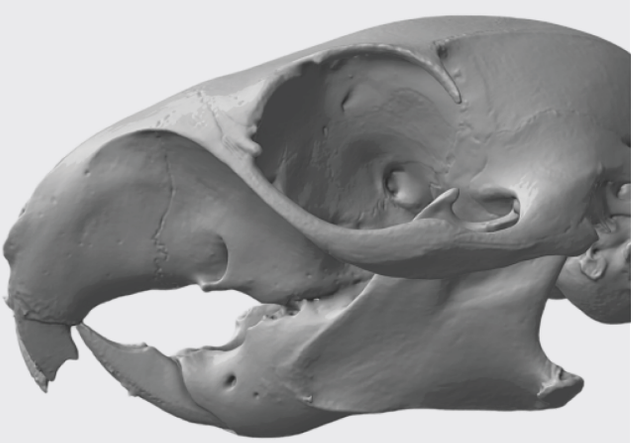
Digitizing historical structures

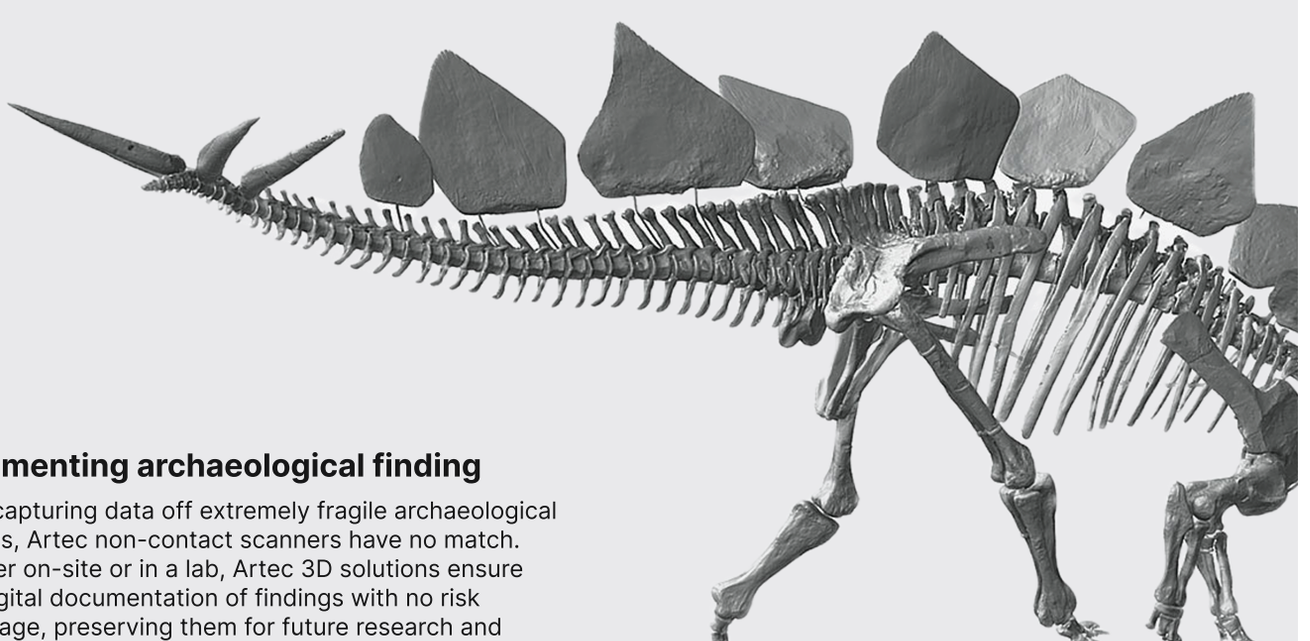
From ancient ruins to architectural landmarks to frescoes on historical walls, Artec 3D scanners create accurate, realistic 3D replicas, protecting vulnerable heritage sites from time, mass tourism, natural disasters, and war.



Preservation and reconstruction

Artec 3D scanners register every meaningful change, from fading colors to structural wear, with exceptional precision. Freeze time with the high-res data detecting risks to heritage integrity or potential damage, to provide information for preservation and reconstruction teams.





Documenting archaeological finding

When capturing data off extremely fragile archaeological artifacts, Artec non-contact scanners have no match. Whether on-site or in a lab, Artec 3D solutions ensure safe digital documentation of findings with no risk of damage, preserving them for future research and conservation.

Education and research

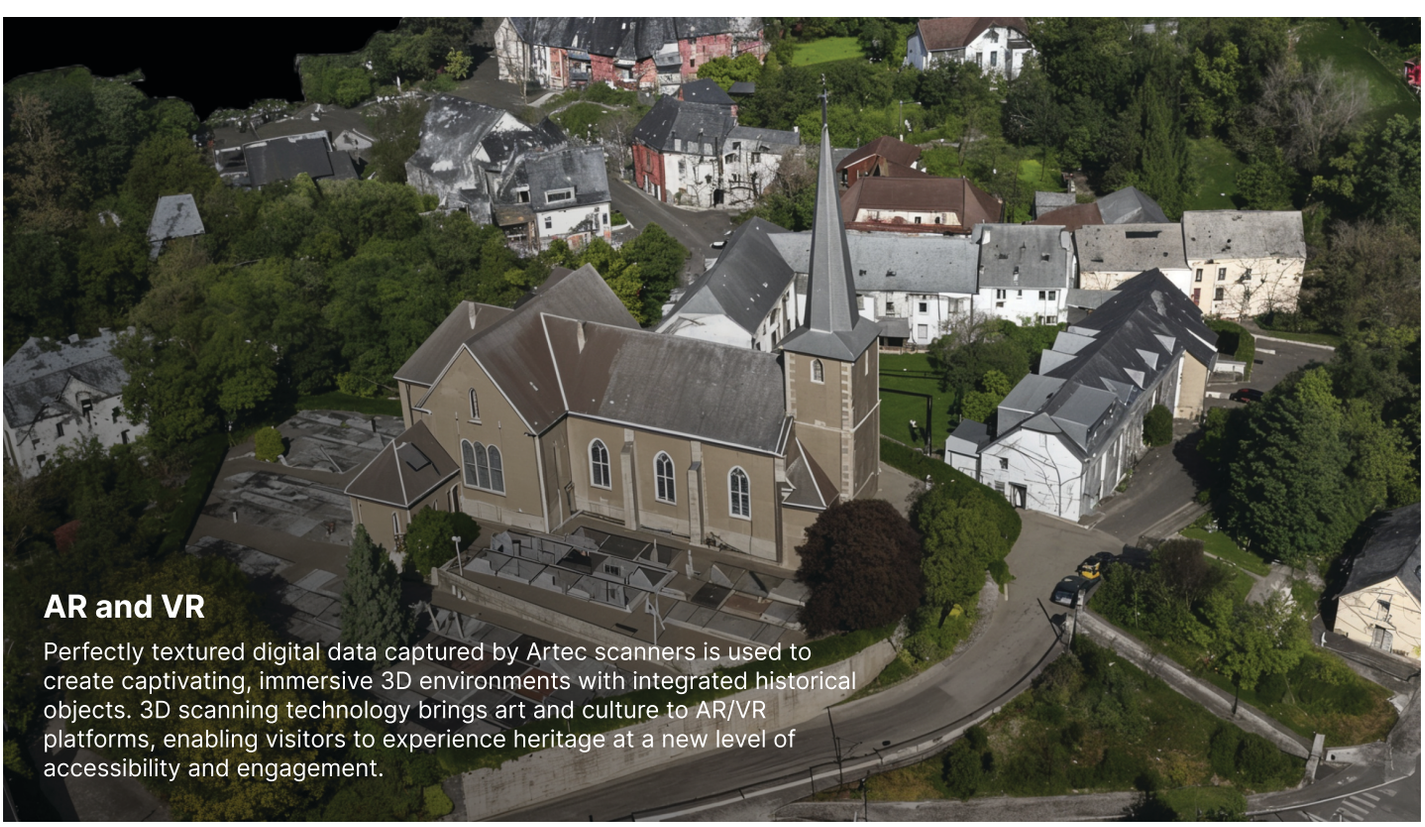
By creating ultra-realistic digital twins of cultural objects, universities and research centers worldwide create next-gen teaching and learning opportunities. Artec 3D scanners facilitate wider access to timeless artifacts while eliminating the need to physically handle them.



Raising awareness of heritage projects

With sharp and vibrant 3D models, Artec solutions contribute to promoting heritage preservation projects, giving visibility to cultural initiatives, and attracting grants and sponsorships. High-quality digital twins help gain recognition and support for heritage preservation efforts.





AR and VR

Perfectly textured digital data captured by Artec scanners is used to create captivating, immersive 3D environments with integrated historical objects. 3D scanning technology brings art and culture to AR/VR platforms, enabling visitors to experience heritage at a new level of accessibility and engagement.

Documenting archaeological findings



Artec 3D technology enables archaeologists to document freshly excavated artifacts, whether in the field or in a museum lab.

Artec 3D scanners are a fast, non-invasive way to capture highly precise digital records of archaeological artifacts and excavation sites. Archaeologists worldwide rely on our portable, non-contact solutions in the field to capture fragile, delicate objects and complex environments, in which they are found. Digitized with exceptional accuracy, artifacts keep their exact shape and texture, down to the finest detail.

Such level of detail allows researchers to examine items without risking damage from handling, while also creating permanent digital collections that can be studied long after fieldwork is over. The resulting 3D scans can be shared with teams and institutions worldwide for further collaboration, research, virtual site reconstruction, and public engagement. By documenting what archaeologists discover - from tiny bones to hidden caves of the bygone eras, Artec scanners support long-term preservation and study of priceless heritage.

Preservation and reconstruction

Artec 3D



By capturing ultra-realistic 3D models of damaged heritage, Artec 3D scanners enable experts to restore items with precision and preserve their original form.

Essential tools for preservation and reconstruction, Artec 3D scanners help create precise 3D models of valuable objects at risk, which enables conservationists to prevent their loss or reconstruct them after being damaged. With the help of accurate 3D scans, professionals can detect the tiniest signs of wear, monitor the condition of artifacts over time, and preserve artifacts and structures for generations to come. From woodwork to statues to library manuscripts, Artec solutions provide high-resolution data to analyze or compensate for any visible or hidden damage.

With digital insights into an item's integrity, it is possible to track changes in materials and composition, design hypothetical restorations, and develop renovation plans without disturbing the authentic pieces. Ultra-realistic data from Artec scanners is used in 3D replicas to 3D print replacements for missing or damaged elements, ensuring that significant items and structures are carefully reconstructed and preserved.

Digitizing historical structures



Digital twins of buildings, facades, and architectural features help ensure cultural heritage endures despite structural damage, environmental risks, or conflict.

When it comes to capturing historical structures, Artec 3D devices provide remarkable speed and precision, be it for entire buildings, decorated facades, or elaborate architectural details - from arches and gates to stained glass windows and staircases. High-quality digital replicas are a guarantee for historical buildings and architectural monuments to withstand the test of time: in a digital format, these landmarks live on despite any structural stress or environmental risks.

Artec 3D scanners play a crucial role in providing detailed 3D models that can serve as a resource for conservators, historians, and architects. By referencing this 3D data, professionals can create tailored restoration projects, unique virtual tours, and accessible educational displays. Conflict-affected communities can rely on digital twins to restore damaged or lost architecture, preserving history and identity even in critical times.

Education and research



Leading universities across the globe, such as the University of Cambridge, trust Artec 3D to create watertight 3D models as part of their research and teaching.

Students, scholars, and teachers can explore and analyze cultural heritage in unprecedented detail with the help of 3D digitization. Artec 3D scanners are invaluable in rendering a diverse range of objects to study, from ancient pottery to remains of Neanderthals. Disciplines like history, archaeology, anthropology, and social science have consistently gained insights with the help of Artec solutions. Making unique and rare artifacts accessible to classrooms and research teams would be impossible without accurate digital twins.

With lifelike digital replicas of heritage items, there is no need to handle fragile originals, so educators worldwide can use 3D models to teach about craftsmanship, social hierarchies, material culture, and history in an innovative, interactive way. In turn, researchers can examine most intricate details, otherwise invisible to the naked eye, from tool marks to surface peculiarities, and reveal information on these objects age, origins, or manufacturing techniques. Artec technology supports cooperative research by enabling teams in different universities, labs, or museums to access and study the same 3D models, share their findings, and get real-time feedback.

Raising awareness of heritage preservation



Artec Leo has played a key role in preservation efforts, notably digitizing Ukrainian landmarks while raising awareness of the struggle to protect Ukrainian heritage.

By transforming cultural artifacts and historical sites into accessible digital replicas, Artec scanners help foster public interest for heritage preservation efforts. State cultural agencies, non-profits, and volunteer initiatives alike benefit from using vibrant 3D models of relics, monuments, and landmarks in their presentations and crowdfunding campaigns. Engaging online experiences or interactive exhibits with digital twins of historical objects reach a global audience far and beyond.

Digital content created with Artec 3D scanners is a great medium to explore endangered heritage that may never be displayed otherwise and emphasize the importance of its preservation. Whether for lobbying, securing funding, inspiring audience participation, or ensuring appreciation for ongoing conservation projects, Artec solutions provide you with detailed, colorful 3D models to illustrate your work.

Virtual and augmented reality



Immersive 3D replicas of cultural heritage sites allow for detailed virtual preservation and interactive experiences that safeguard history for generations to come.

VR and AR can be transformative tools for heritage preservation, with immersive digital experiences that bring mesmerizing artifacts and sites to life in innovative ways. By using photorealistic 3D models captured by Artec scanners, VR and AR applications can recreate entire civilizations with ancient towns, iconic artwork, and historical sites with astonishing detail. Opportunity to explore art and history in a virtual environment as if physically present becomes entirely possible with the level of realism that can only be achieved with the help of ultra-precise digital twins.

With heritage sites often fragile, remote, endangered, or simply inaccessible, VR and AR enable audiences to experience these places in a realistic yet safe way. These applications become interactive educational platforms that enable audiences to connect with the heritage by providing context, narratives, and play elements that deepen the understanding of preservation significance. This dynamic digital format is revolutionary in protecting the cultural past with technology of the future.

Using Artec 3D scanners to save all that could be saved from the world's oldest civilization: Mesopotamia

Artec 3D

Artec 3D application Case Study



Challenge

Over decades, the Iraqi people have faced bombing, war, and destruction – and the heritage that makes up the cradle of civilization has greatly suffered, too. The challenge here was to scan these lands as part of a film made by filmmaker Ivan Erhel.

> *"I want to launch a movement of preserving heritage. If I teach 40 people how to use 3D, and they teach more people, and we start gathering data from all over the country, we can digitize all of it."*
>
> **Ivan Erhel, French filmmaker**

Result

The film has been completed, and a new project has begun: teaching the youth of Iraq about 3D scanning technology while collectively digitizing the country.

Why Artec 3D

The high-res 3D models generated by Artec scanners are irreplaceable for preserving fragile artifacts that are vulnerable to natural wear, environmental threats, and human violent interference. For this project, Artec Space Spider was the perfect choice for scanning smaller artifacts like foundation nails and bricks, thanks to its ability to capture complex geometry and fine details with high resolution, while Artec Eva proved ideal for fieldwork, as it handled larger objects like bas reliefs with a wider angle and was less affected by movement.

Artec Space Spider | Artec Eva | Artec Studio



Cambridge research team decode ancient collaboration with Artec Space Spider

Artec 3D application Case Study



Challenge

Archeologists needed a way of safely rendering a wide variety of recently excavated ceramic vessels and comparing their shapes.

> *“We maximized our field time by scanning many objects and processing later. As a result, we documented over 100 ceramic objects, numerous spindle whorls, and eight stone matrices. For the ceramic vessels, we were scanning at a rate of about 20 minutes per object towards the end. This meant that within a day, we could easily document around 20 objects thoroughly enough to be confident in stitching them together later.”*
>
> **Kate Klesner, postdoctoral research associate at the University of Cambridge**

Result

As part of the REVERSEACTION project, aiming to investigate complex ancient technologies in stateless societies, the team digitally captured more than 100 artifacts both in the field and within Colombian museums. The resulting 3D models facilitate research and preservation at multiple levels, beyond museums and universities to bring amazing ancient artifacts to classrooms and personal devices.

Why Artec 3D

In REVERSEACTION project, the high-res scanning capabilities and gentle learning curve of Artec Space Spider made it a great tool for digitizing archaeological artifacts with utmost fidelity, preserving all elaborate geometries.

Artec Space Spider Artec Studio

The British Museum captures the Assyrian relief collection with Artec 3D

Artec 3D

Artec 3D application Case Study



Challenge

The British Museum needed to capture more than 200 square meters of an ancient Assyrian relief they had in possession since the 1850s. Museum team aimed to scan the entire artifact in high-detail 3D.

> *"The carved images range from symbolic scenes of royal achievements to scenes of conquest and hunting that all serve to glorify the Assyrian monarch."*
>
> **Matthew Cock, former Head of Web at the British Museum**

Result

The full 205 square meters of the relief were captured with precision, resulting in ultra-realistic 3D models of the reliefs for archiving cultural artifacts and promoting the use of 3D technologies to the benefit of international museums.

Why Artec 3D

Artec Eva excels in creating accurate, perfectly textured scans of medium-sized cultural objects. In this case, every unique detail was rendered, digitizing carved images ranging from symbolic scenes of royal achievements to scenes of conquest and hunting.
Artec technology helped transform images on the panels into a captivating narrative unfolding in 3D.

Artec Eva Artec Studio

Artec 3D steps up in effort to preserve Ukraine’s cultural heritage

Artec 3D application Case Study



Challenge

As the tanks roll over, the people of Ukraine are fiercely protecting the cultural heritage of their country, among many pressing needs. In the face of this war, the Lviv-based initiative Skeiron has committed themselves to digitizing cultural landmarks for archiving, restoration, and making unique Ukrainian heritage digitally accessible worldwide.

> *“With this scanner, you can speed up the scanning process. How we did it before? We set up lights, set up a turntable, put an object on the turntable, set up a camera, synchronized the camera with the turntable, took hundreds or even almost thousands of photos there and processed it all! Now, I just come with a scanner, and it immediately shines with light, I instantly receive a model in the appropriate sizes. And then I just need to partially process the model on the computer – but it's already several stages less.”*
>
> **Andriy Hryvnyak, Skeiron, Ukrainian heritage preservation initiative**

Result

After launching #SaveUkrainianHeritage to save architectural monuments at risk, Skeiron, with the support of Artec 3D, initiated “Museum in 3D”. Now featured on Google Arts and Culture, the project boasts more than 200 museum artifacts scanned with Artec Leo, which can all be accessed and viewed online.

Why Artec 3D

A global leader in 3D scanning tech, Artec 3D is using its commitment to help, along with its cutting-edge tools, to contribute towards conserving Ukrainian identity through preserving its heritage. High-quality 3D scans with photorealistic texture made with Artec 3D technology continue to create a precedent in terms of protecting cultural artifacts in wartime.

Artec Leo Artec Studio

From temple to tech: Artec Eva gets instrumental in 3D transformation of Japan's sacred Chichibu Shrine

Artec 3D

Artec 3D application Case Study



Challenge

A vibrantly colored masterpiece sculpted by Edo-period artisan Hidari Jingorō, the 'Connecting Dragon' stands at the heart of the shrine but continues to face the challenges of weather-induced fading over time. To address this, the Chichibu Shrine needed a way to capture both elaborate shapes and rich hues for the faithful 3D reproduction of the sculpture.

> *"What used to be done by hand by craftsmen can now be done in a shorter period of time at a lower cost by using digital technology. In addition, by creating 3D models, we will be able to see buildings and cultural heritage from angles that have not been seen before, which will lead to new discoveries."*
>
> **Hereditary Chief Priest of the Chichibu Shrine, Japan**

Result

Artec Eva scans served as a basis for the faithful digital reproduction of the sculpture in every magnificent shade. Eventually, the 'Connecting Dragon' was recreated using a state-of-the-art full-color 3D printer, marking a significant leap in preservation of Japanese cultural heritage.

Why Artec 3D

Artec 3D solutions are the top choice for digitizing complex art patterns due to their capability to quickly capture the intricacies while preserving the vivid colors. High-resolution scanning and non-invasive approach guaranteed by Artec Eva helped render the timeless beauty of the Chichibu Shrine while keeping it accessible to admire and completely safe.

Artec Eva | Artec Studio

Digitizing Bengaluru’s ancient inscriptions with Artec 3D

Artec 3D

Artec 3D application Case Study



Challenge

Stumbling upon the rich history that was scattered around Bangalore, India, an IT professional decided to look deeper into retracing what was known about these ancient stones, what more we could learn, and how we could safely digitize them for today and the future.

> *“The scanner comes in very handy, and is very easy to use, among all our team members. In one stretch, we can scan for meters of length over the stones, without any lag or break. The scanning results of the Space Spider were so clear that even chisel-depth path marks by the sculptor are visible in the scanned data!”*
>
> **Udaya Kumar P.L., Mythic Society research institute, Honorary Project Director**

Result

In addition to a full-scale preservation project, as well as a book, the digital documentation of ancient, historical stones continues, with all surfaces being captured in high resolution, no relics damaged or compromised, and 3D models made accessible to students and researchers.

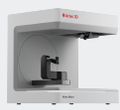
Why Artec 3D

Artec 3D scanners' exceptional ease of use and ability to record extensive areas in one continuous scan make them ideal for revealing the finest details. From chisel-depth marks on ancient inscriptions to massive ancient reliefs, Artec solutions ensure uninterrupted efficiency and high resolution. With safe 3D scanning technology, no relic is damaged or compromised during the digitization process - the integrity of any valuable piece guaranteed.

Artec Space Spider Artec Studio



Artec 3D scanners
Comparison table

						
Leo	**Eva**	**Spider II**	**Micro II**	**Ray II**	**Point**	**Metrology Kit**
Scanner type						
Wireless	Handheld	Handheld	Desktop	Long-range	Handheld	Photogrammetry
Size of scanning object/area						
M → L	M	S → M	XS → S	L → XL	S → L	S → XL
Accuracy, up to						
0.1 mm	0.1 mm	0.05 mm	0.005 mm	1.9 mm @10m	0.02 mm	0.002 mm
Resolution, up to						
0.2 mm	0.2 mm	0.05 mm	0.04 mm	3/6/12 mm @10m	0.02 mm	N/A
Target-free technology						
✓	✓	✓	✓	✓	✗	✗
Color + geometry tracking						
✓	✓	✓	✓	✓	✗	✗
Scanning software						
Onboard software	Artec Studio	Artec Studio	Artec Studio	Onboard software, Remote App, Artec Studio	Artec Studio	Artec Metrology Kit Plugin for Artec Studio
3D mesh export formats						
OBJ, PLY, WRL, STL, AOP, ASC, Disney PTX (PTEX), E57, XYZ RGB						
Working distance						
0.35 – 1.2 m	0.4 – 1 m	0.19 – 0.3 m	—	0.5 – 130 m	0.3 m	N/A
Linear field of view H×W @ closest range						
244 × 142 mm	214 × 148 mm	up to 128 × 104 mm	—	—	—	N/A
Linear field of view H×W @ furthest range						
838 × 488 mm	536 × 371 mm	up to 171 × 152 mm	—	—	700 × 600 mm	N/A
3D reconstruction rate for real-time fusion						
22 fps	16 fps	15 fps	—	—	120 fps	N/A

Artec 3D

Global support & training

Artec 3D

Global network of certified partners

Artec 3D's global network of trusted resellers ensures customers have access to top-quality local expertise and support in every corner of the world. Each certified partner provides tailored training, interactive live demos, and exceptional service to help users make the most of their experience with Artec 3D products.

Guaranteed product excellence

Artec 3D backs the quality of its solutions with comprehensive warranties. Each customer can rely on their scanners meeting the highest industry standards, with any issues immediately handled by authorized service centers.

Dedicated support to assist

Artec 3D's skilled online support team is ready to help with any technical or usage questions. Reach out by email, live chat, or arrange a direct consultation for our experts to provide you with timely, professional assistance.

Problem-solving guides online

Artec 3D offers an extensive digital support center, regularly updated to help users troubleshoot common issues independently. This easy-to-navigate resource covers a wide range of technical topics, serving both new and experienced users of the full Artec 3D scanner and software lineup.

Elevate your workflow with Artec Academy

Leverage our comprehensive training platform to confidently apply Artec 3D scanning technologies in real-world scenarios.

Learn the scanning workflow step by step

Artec Academy provides expert-led online courses that guide users through the end-to-end 3D scanning process, from capturing data with Artec scanners to processing and refining models in Artec Studio. These engaging courses offer a thorough understanding of each step, ensuring users can master the technology and optimize their business outcomes.

Explore specialized courses

Artec educational platform features specialized courses designed to address the unique needs of various industries, such as body scanning for healthcare or detailed object scanning for manufacturing. These focused programs show how to apply Artec 3D technology to specific applications in each field.

Get personalized training from certified partners

Artec Academy connects users with live, individual training sessions from Artec 3D trusted resellers, available online or on-site. These sessions offer hands-on instruction, helping users enhance their scanning skills and make the most of their Artec 3D scanners and software, while staying up-to-date on the latest and greatest features.

Engage in active learning

Artec Academy emphasizes hands-on learning with practical exercises and concludes each course with a quiz to reinforce and assess the knowledge gained, ensuring users fully grasp and retain essential concepts and skills.

Award-winning 3D technology

tct AWARDS
2019, 2018
Highly Commended

WINNER EDISON AWARDS EDISON AWARDS
2020
Award winner

NED
2018, 2016
Innovation award winner

3D Printing Industry
2019 3D Scanning
& metrology company

GOLDEN MOUSETRAP AWARDS
2019
Gold award winner