Artec 3D launches Artec Studio 20: an all-new 3D data capture and processing software, now with workflow automation

Luxembourg, Sep. 03, 2025 – Global 3D scanning leader Artec 3D has announced the launch of its latest 3D data capture and processing software, Artec Studio 20 (AS20).

Already an all-in-one software for 3D scanning, photogrammetry, reverse engineering, and quality inspection, Artec Studio has now received further upgrades. Brand new Workflows allow for the creation of much faster, fully-automated, customized data processing pipelines – perfect for digitization, design iteration, and bulk product analysis.

Users also benefit from upgrades across the Artec range. Capture with Artec Spider II is more efficient thanks to Live Scan Decimation, which delivers high-detail, lightweight models, ideal for rapid prototyping and 3D modeling. Artec Micro II, meanwhile, has been enhanced with support for HD Mode and 3-axis scanning, allowing it to reach an even higher resolution, and deliver more complete scans of small objects for reverse engineering and inspection.

Elsewhere, refined masking in AI Photogrammetry delivers ultra-realistic, artifact-free 3D models, which require minimal editing for CGI, VFX, forensics, and more. Altogether, Artec Studio's enhanced features make digital twin capture faster & easier than ever before.

"Our last release turned Artec Studio into a complete package, with practically anything a user could need to capture a 3D model," said Art Yukhin, CEO of Artec 3D. "Artec Studio 20 raises the bar in every way possible. Workflows allow users to customize and automate repeat tasks for bulk processing. Our hardware and software is also faster, better integrated, and easier to use – in a way that delivers meaningful ROI benefits for customers across industries."

Tailored workflows for fast, repeatable results

Workflows in Artec Studio can be customized to users' specific application needs. Simply queue algorithms and hit "run" to go from captured data to 3D model in one click. Workflow automation makes data processing up to 70% faster, while freeing up users to complete other tasks.

Inside Artec Studio, parameters can still be adapted to different datasets. But settings no longer need to be configured each time. Ideal for repeat tasks, all-new workflows eliminate human error, improve process repeatability, and deliver high-quality results users can rely on.

For even greater automation, those with an annual subscription can use scripting to set up workflows that import, process, and export data to third-party software. This integration allows for batch processing, saves users from sitting at their PCs, and unlocks further opportunities for accelerating the processing of similar datasets via fully autonomous file transfer.

Upgraded Artec 3D scanning performance

Each year, Artec Studio introduces features that essentially gives users a new scanner, and its 20th anniversary edition is no different. Artec Studio 20 is packed with upgrades – for instance, Artec Spider II now offers real-time fusion. Previously an Artec Leo exclusive, this algorithm delivers better feedback via highly detailed live previews for reliable data capture.

To help users turn high resolution data captured by Spider II into lightweight 3D models, Live Scan Decimation has been introduced for easier processing, yet still highly accurate results. The newly integrated Autopilot further streamlines these steps – especially for new users. Improved reconstruction also delivers more complete datasets for realistic, watertight models with applications in heritage preservation, education & medical, where detail capture is key.

Artec Micro II, a desktop solution for digitizing small objects in a single click, benefits from its own series of enhancements. With HD Mode, users can now boost fine detail capture, picking up 4x more data points with each scan. In addition to better overall resolution, Micro II delivers greater

scan coverage thanks to its 3-axis integration. Moving on a third axis allows Micro II to capture even the most complex, obscured areas and recreate objects in their entirety.

The performance of Artec 3D's first industrial laser scanner, Artec Point, has been upgraded with better visualization for 2x faster data capture and a more intuitive scanning experience. Other devices like the wireless Artec Leo and long-range Artec Ray II also benefit from wider improvements, including a fusion setting redesign and workflow automation. With the newly updated app, Ray II users can access "street view," all-new panoramas & more.

Next-level photogrammetry, powered by AI

Now on the market for over a year, AI Photogrammetry continues to go from strength-to-strength. Refined masking in Artec Studio 20 allows for realistic, artifact-free 3D models, while masking for texturing prevents objects blurring with their background. Multi-camera support expedites photogrammetry data capture – as well as opening the software to different hardware combinations – whether it be drones, smartphones, handycams, or DSLR cameras. By activating sharp image prioritization, users can also ensure that only the best possible frames are chosen from uploaded photos or video for maximum realism.

Moreover, GPU Memory Optimization customizes settings to each user's individual hardware needs, to make sure that AI Photogrammetry reconstructs models with peak efficiency.

Improved integration & an intuitive UI

Better integration with third-party software makes Artec Studio 20 more effective across applications. ZEISS Inspect advanced analysis tools are now easier to access thanks to a new interface that makes export straightforward, and allows for scripting automation. Enhanced USD file support enhances the software's functionality for CGI & VFX users – RCP file support has also been added, bringing compatibility with popular BIM platforms like Autodesk Revit.

With distance and intensity export filters, users can now optimize data for downstream processing too. Finally, Artec Studio 20 features several UI improvements, including enhanced tools and scanning panels designed for more intuitive navigation and control.