Artec Jet

High-precision, mobile SLAM-based LiDAR system for any environment

NEW!

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The complete mobile mapping system: fast, accurate, safe scene capture

Mapping Speed
1,920,000 pts/s

Survey-Grade Accuracy
Up to 10 mm

Range
0.5–300 meters

Ultra light design
1.57 kg

Wherever the job takes you — Artec Jet is ready

Industries

- Underground Mining
- AEC
- Defense & Security
- Public Safety
- Civil Infrastructure
- Oil & Gas
- Heritage Preservation
- Forestery

Applications

- Digital Twins
- Site Planning
- Inspection
- As-Built Documentation
- Volumetric Measurement
- Change Detection
- Condition Assessment
- Topographic Surveying
- Asset Management

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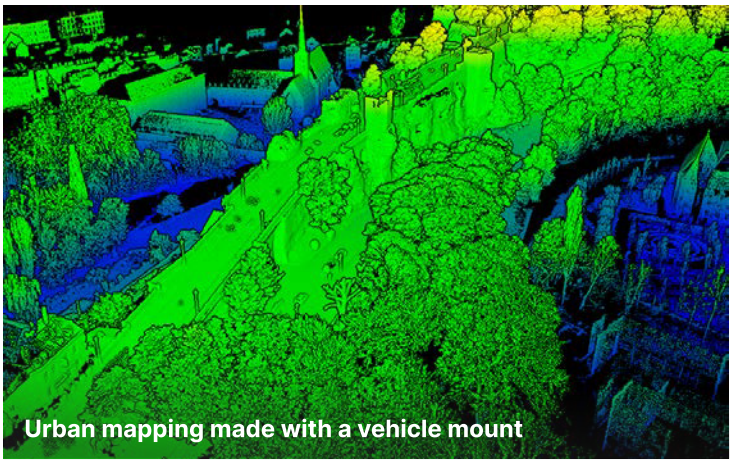
One device, any environment, every detail captured

Artec 3D


Backpack


3D model of the park made with a backpack


Vehicle mount


Urban mapping made with a vehicle mount


Drone


Underground tunnel mapping made with a drone

7 deployment modes: handheld, backpack, drone, vehicle, robot, pole, cage

Any environment: indoor, outdoor, underground, hazardous and hard to reach

Replace an entire fleet of tools with one scanner

Easy to use, minimal training required

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Scan in tough conditions otherwise beyond human reach

Artec 3D

IP-65 certified	**GPS-free positioning**	**Zero light operation**	**-10 °C to 45 °C operating range**	**512 GB onboard storage**

Autonomous drone operation for hard to reach areas

Artec Jet's AI-powered autonomy engine enables drones to reach difficult to access spaces, map GPS-denied environments, and keep your team safe — all without a pilot. Set waypoints and the drone flies autonomously, steering clear of obstacles, while ensuring complete scene capture.

Collision avoidance

Omnidirectional LiDAR detects obstacles as small as 2 mm pieces of wire, in the tightest spaces.

Beyond line of sight

Fly autonomously into areas beyond visual range using advanced path planning and proximity sensors.

Return-to-base failsafe

Artec Jet auto-navigates back to base along a safe, mapped route when on low battery or facing adverse conditions.

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Adapts to meet any project scope and complexity

Artec 3D

Get it right the first time

Boost productivity and efficiency without scaling risk, cost, or operational friction. Artec Jet and its add-ons ensure:

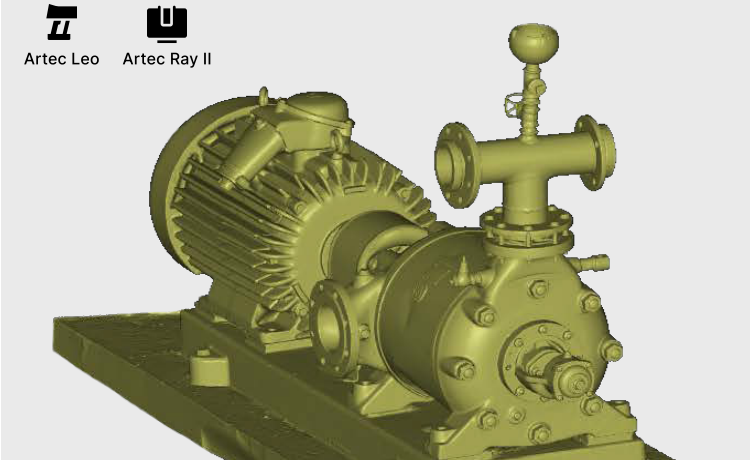
- Real-time point cloud streaming to companion app
- On-site scan preview mode for 100% scene capture
- 360° × 290° FOV — full coverage in a single pass
- Color capture: LiDAR + camera for realistic results
- Optional RTK for GNSS georeferencing above ground
- Local data storage for up to 16 hours of scanning
- Ready to use point clouds and mesh for instant analysis or import to third-party party software

From site to component in one workflow

One ecosystem, one workflow for every scale. Artec Jet captures the site. Ray II adds accuracy. Leo details the component. Artec Twins combines them into a single model.

Artec Jet

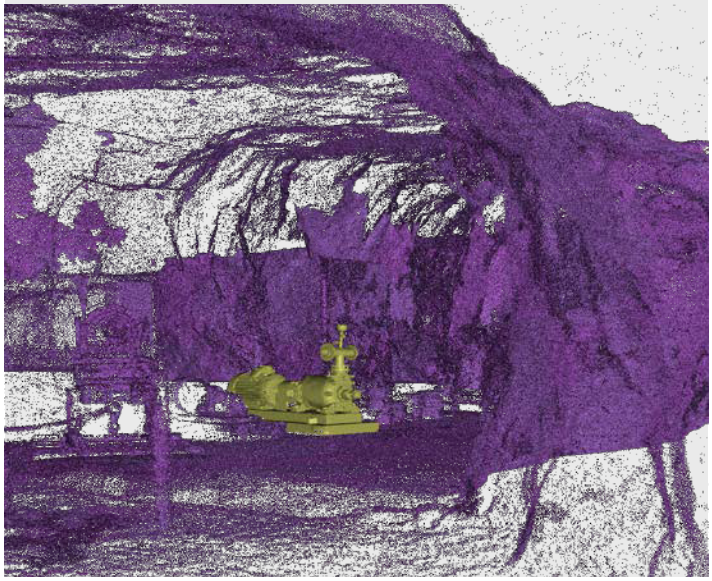
Artec Leo Artec Ray II



Artec Twins

Large-scale data fusion & engineering software

- Process and visualize dense point clouds
- Use gaussian splatting for high-fidelity, real-time renders
- Merge Artec SLAM, TLS & close-range scans
- Section, measure, and analyze deviation
- Export to LAS, E57, RCP, STL & OBJ



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Artec Jet
Specifications

Artec 3D

Mapping	
Mapping method	SLAM-based LiDAR, ±0.03% drift
LiDAR sensing range	0.5–300 m (1.6–984 ft)
Global accuracy	5-10 mm (up to 7/32 in)
Global accuracy (RTK/PPK1)	15-30 mm (up to 19/32 in)
Local accuracy	5-10 mm (up to 7/32 in)
Precision	Up to 2 mm (5/64 in)
Mapping accuracy (general)	+/- 15 mm (19/32 in)
Mapping accuracy (indoor)	+/- 10 mm (3/8 in)
Change detection	+/- 5 mm (7/32 in)
Field of view	360° × 290°
Acquisition (single return)	Up to 640,000 pts/s
Acquisition (triple return)	Up to 1,920,000 pts/s
Max speed (vehicle)	60 km/h (37.3 mph)
Max speed (flight, above)	5 m/s (16.4 ft/s)
Max speed (flight, underground)	2 m/s (6.6 ft/s)
Start/stop while moving	Yes
Laser class	Class 1 (eye safe)
Physical & Environmental	
Ingress protection	IP65
Operating temperature	-10 to 45°C (14–113°F)
Weight	1.57 kg (3.46 lb)
Power	14–54 V, 64W
Onboard storage	512 GB – approximately 16 hours of sensor data
Quick release mount	Yes
Deployment modes	7 (Drone/UAV, handheld, backpack, vehicle, pole, cage, ground robot)
Battery life	2 hours
Charging time	3-4 hours approx.

Output & File formats	
Point cloud formats	.las .laz .ply .E57
Outputs	Full/decimated cloud, trajectory
Point attributes	Intensity, range, time, RGB (opt.)
Autonomy & Safety	
Pilot Assist	Non-GPS, position hold, collision av.
Autonomous mode	Waypoint navigation
AL2 waypoint types	2D, 3D, planar, height
AL2 navigation	Guided exploration, path planning
Collision avoidance FOV	360° × 360°
Collision avoidance range	1.2–40 m (3.9–131 ft)
Min. obstacle detection	≥2 mm wire
Adjustable safety distance	Yes
Return-to-home	Low battery / dust trigger
Drone platforms	
Supported drones	DJI M300, DJI M350, Freefly Astro Max
Interfaces	
Auxiliary port	Proprietary connector
USB	Yes
Wi-Fi	Internal antenna

Ready to see Artec Jet on your site?

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