

Artec Jet

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

 Artec 3D

impac
SYSTEMS
ENGINEERING



NEW!

Artec Jet Specifications



Mapping specifications

SLAM mapping	Simultaneous localization and mapping (SLAM) based LiDAR mapping +/- 0.03% drift
LiDAR range	0.50 m to 300 m (1.6 to 984 ft)
LiDAR channels	32
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	+/- 15 mm (19/32 in) in general environments +/- 10 mm (3/8 in) in typical indoor and underground environments +/- 5 mm (7/32 in) isolated change detection capability
Angular field of view	360° x 290°
LiDAR data acquisition speed	Single Return Mode: up to 640,000 points/sec Multi Return Mode (3 return): up to 1,920,000 points/sec The triple return mode allows the detection beam to traverse several layers, revealing hidden details such as behind vegetation or below a forest canopy.
Maximum data capture traveling speed	Vehicle: 60 km/h (37.3 mph); flight: 5 m/s (16.4 fps) above ground, 2 m/s (6.6 fps) underground or confined spaces
Start / stop scanning while walking or hovering	Yes
Outputs	Full resolution point cloud, decimated point cloud, trajectory file
Point cloud file format	.las, .laz, .ply, E57
Point cloud attributes	Intensity, range, time, return number (strongest, first, & last), ring number, RGB/true color (optional)
Storage	512 Gigabytes – approximately 16 hours of sensor data
Operating temperature	-10 to 45°C (14 to 113°F)

Physical specifications

IP Rating	IP65
Weight	1.57 kg (3.46 lb)
Input voltage	14 - 54V, 64W powered from a battery or auxiliary power input
Deployment	Drone/UAV, handheld, backpack, vehicle, tether, ground robot
Supported drones	DJI M300, DJI M350, Freefly Astro Max
Quick release mount	Yes
Auxiliary port	Proprietary connector
USB port	Yes
WiFi Antenna	Internal
Battery life	2 hours
Charging time	3-4 hours approx.

Autonomy specifications

Flight modes	Pilot Assist: Non-GPS flight, position hold, assisted flight, collision avoidance, regulated flight speed. Autonomous Waypoint Mode: Autonomous navigation to waypoints
AI2 waypoint types	2D, 3D, planar, height
AI2 navigation modes	Guided exploration, local and global path planning
Omnidirectional collision avoidance	360° x 360° size of an obstacle > 2 mm (3/32 in) wire range 1.2 to 40 m (3.9 to 131 ft) In-flight adjustable safety distance



Learn more
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