

TECHNICAL SPECIFICATIONS

Model		X-Track	
Scanning Mode	High-Speed Scanning	50 blue laser lines	
	Precision Scanning	7 blue laser lines	
	Deep Hole Scanning	1 single blue laser line	
Laser line bundle		58 beams	
Accuracy		0.025mm	
Measurement Rate		up to 7,100,000 measurements/s	
Scanning Area		up to 550mm×650mm	
Laser Class		Class II (Eye Safe)	
Data Security		Facial Recognition	
Resolution		Minimum 0.01mm	
Volumetric Accuracy	10.0m³	0.048mm (3.2M)	
	(Scanner Only) 25.0m³	0.083mm (4.5M)	
Volumetric Accuracy Integrated with a photogrammetry system		0.04mm+0.02mm/m	
Recommended Scan Size Range		10~8000mm	
Working Distance		300mm	
Depth of Field		400mm	
Output Formats		stl, .ply, .igs, .asc,etc. can be customized	
Operating Temperature		-10℃ to 40℃	
Via Ethernet		Via Wireless Wi-Fi 6.0	



LinkedIn



WhatsApp

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X-Track

Laser Tracking 3D Scanner

WIRELESS OPERATION · PORTABLE & HIGH EFFICIENCY



X-Track

Laser tracking 3D digitization product

X-Track is a new-generation metrology-grade optical laser tracking system independently developed by Insvision. It eliminates the need for marker placement and delivers higher accuracy, larger measurement volumes, and faster scanning performance. With true scan-and-go operation, X-Track unlocks greater possibilities for industrial 3D digitization.



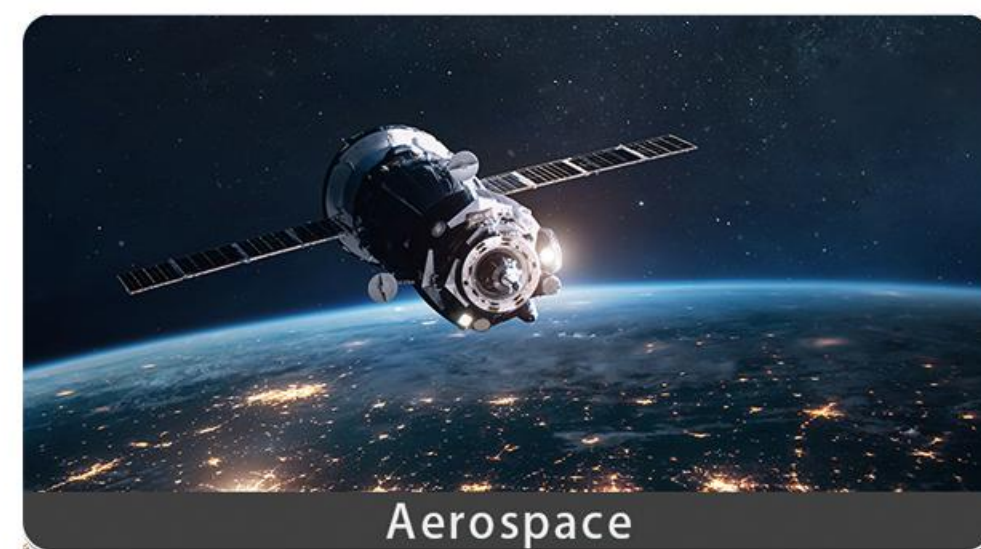
APPLICATIONS



Automotive Industry



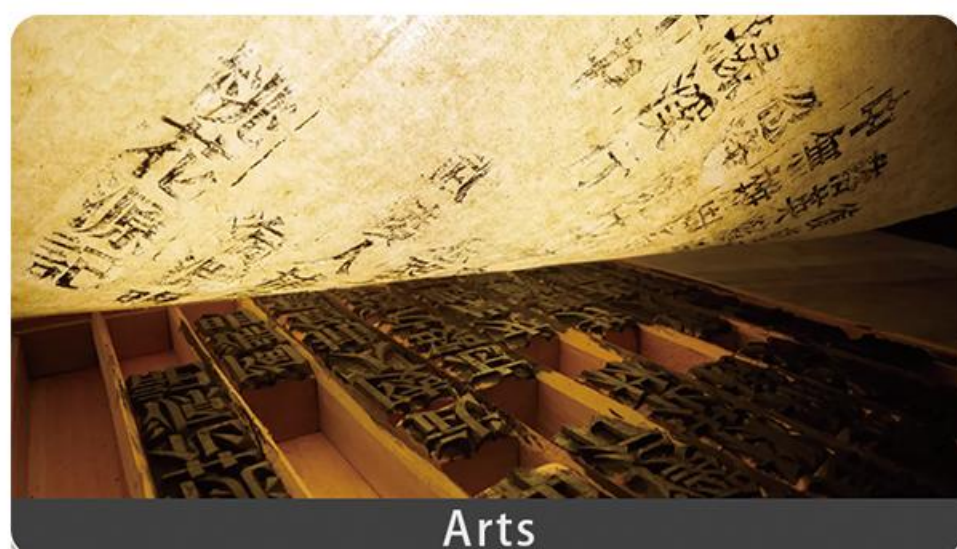
Energy & Heavy Industry



Aerospace



Engineering Machinery



Arts



Precision Manufacturing

PRODUCT FEATURES

Marker-Free Intelligent Tracking

Marker-free scanning based on intelligent optical tracking metrology technology, improving efficiency and reducing labor costs.

Multiple Scanning Modes

50-beam crossed blue laser for ultra-fast scanning up to 7,100,000 measurements/s; 7 parallel blue laser beams for fine-detail scanning; single blue laser beam for deep holes and complex geometries.

High Material Adaptability

Reliable 3D data capture on bright, dark, and transparent surfaces, with strong resistance to ambient light.

Dynamic Referencing

With dynamic referencing, X-Track maintains accurate tracking during object movement, enabling real-time acquisition of complete 3D data.

Flexible Measurement Volume Expansion

The measurement volume can be flexibly expanded by adjusting the position of the tracking unit, while consistently maintaining stable high accuracy.

Hybrid Positioning

Supports both optical tracking and marker-based tracking modes, allowing flexible switching according to on-site conditions. Integrated secure facial recognition authentication ensures controlled device access, protecting both data security and equipment safety.