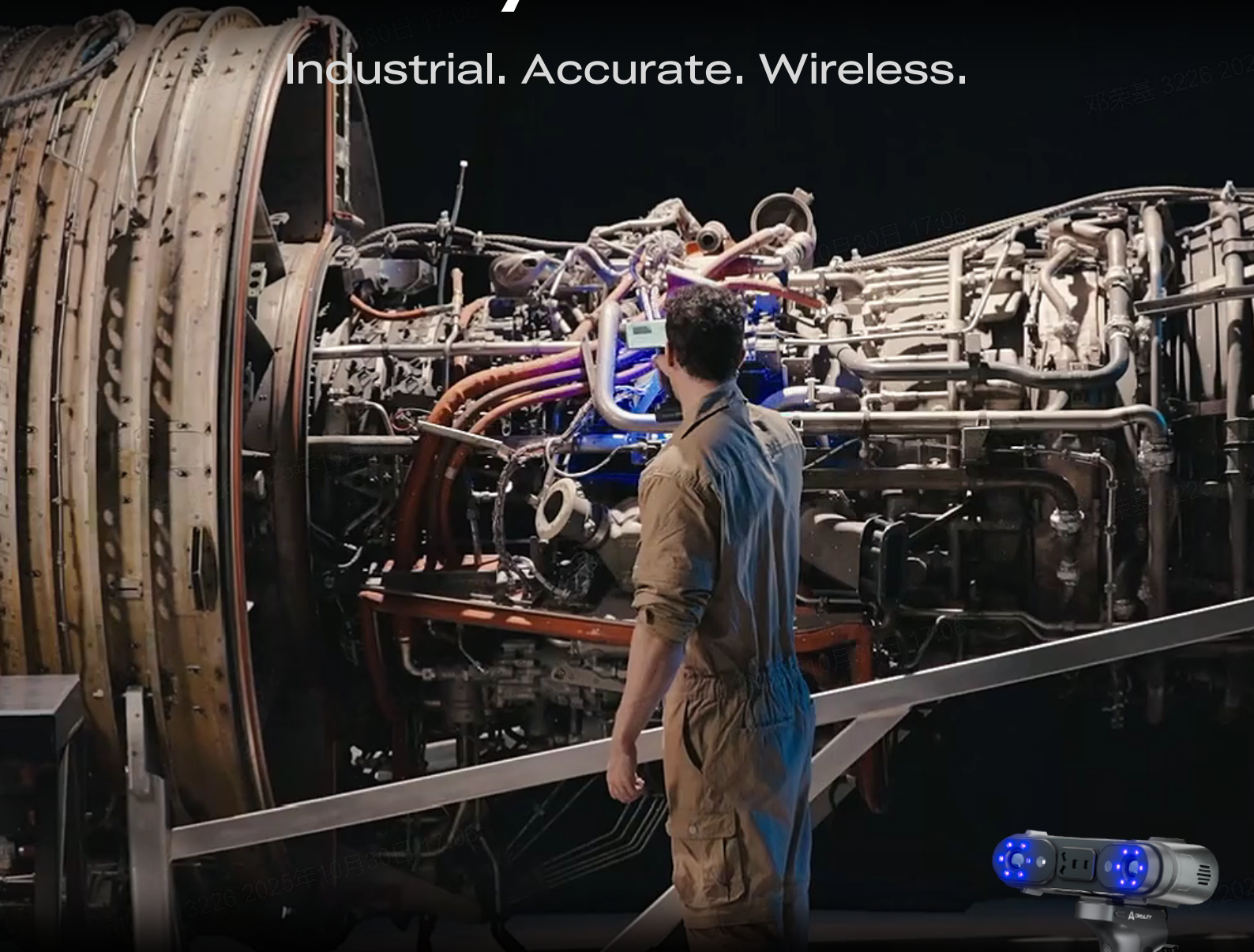


Creality Sermoon X1

Industrial. Accurate. Wireless.



4 in 1 34/7/1-Line Blue Laser Modes + NIR

34 Cross Laser Lines



Fast

7 Parallel Laser Lines



Details

1 blue laser line



Holes

NIR Structured Light



Wireless
Scanning



Spray-free for Black
or Metal Surfaces



Built-in Photogrammetry

Volumetric Accuracy: $0.02\text{mm} + 0.03\text{mm/m}$



90FPS

High-Speed Scanning

1,734,000 points/s

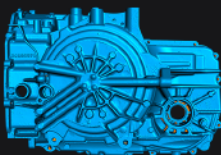


Full Color
Scanning
for All Modes



Volumetric
Accuracy:

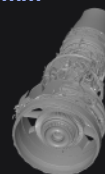
$0.02\text{mm} +$
 0.04mm/m

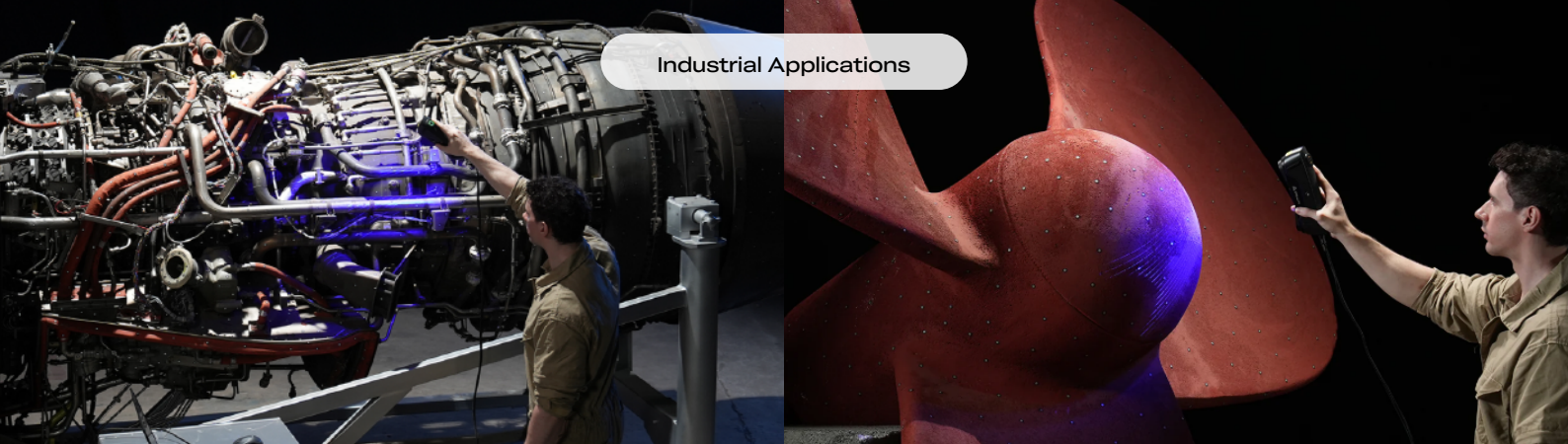


CNC-Machined
Unibody Lens Mount

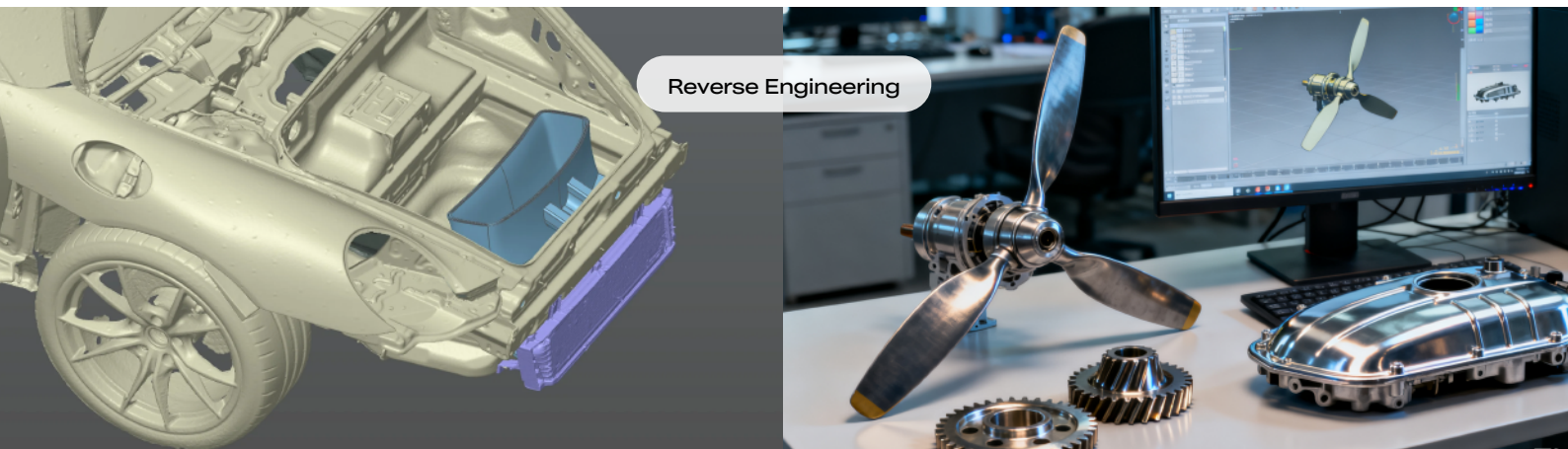


Objects Between
 $5\text{ mm}^3 - 4000\text{ mm}^3$





Industrial Applications



Reverse Engineering

Scanning Mode	Deep Hole Scanning[1]		Detailed Scanning	High Speed Scanning	No markers Scanning
	Blue Single Laser Line		7 Blue Parallel Laser Lines	34 Blue Cross Laser Lines	NIR(infrared binocular structured light)
Accuracy	Up to 0.02mm[2]				Up to 0.05mm
Volumetric Accuracy	0.02mm+0.04mm/m, 0.02mm+0.03mm/m(with Scale Bar)				0.05mm+0.1mm/m
Scanning Rate	84,000 measurements/s	756,000 measurements/s	1,734,000 measurements/s	5,000,000 measurements/s	
Scanning Speed	Up to 90fps			Up to 85fps	Up to 30fps
3D Resolution	0.05-2mm				0.1-2mm
Photogrammetry	Include photogrammetry mode(with 2 Magnetic carbon fiber scale bar)				
Min. Scan Volume	5mm x 5mm x 5mm				150mm x 150mm x 150mm
Single Capture Range	217mm x 167mm at 200mm, 325mm x 323mm at 300mm 434mm x 394mm at 400mm, 542mm x 463mm at 500mm 650mm x 531mm at 600mm				650mm x 531mm at 600mm 1300mm x 935mm at 1200mm
Working Distance	200-600mm	150-400mm	200-600mm	170-1200mm	
Color Mapping	Supported				
Alignment Mode	Marker / Global Marker				Marker / Global Marker / Geometry / Texture
3D Imaging Camera Resolution	1600 x 1600				
Outdoor Scanning	Below 100,000 lux	Below 50,000 lux	Below 100,000 lux	Below 30,000 lux	
Laser Safety	Class II (eye safe)				Class I (eye safe)
Wireless Scanning	Supported				
Input Power	12V, 3A[3]				
Device Weight	530g				
Device Dimensions	216mmx74mmx51mm				
Operating System	Windows/macOS				
Certifications	CE, RoHS, REACH, WEEE, FDA, FCC, UL, IC, RCM, PSE, SRRC, GB 4943.1				
Computer Configuration Requirements	Windows: Recommended: i7-Gen10 CPU, Nvidia graphics card (8GB VRAM), 32GB RAM, Windows 10/11 (64-bit) Minimum: i7-Gen7 CPU, Nvidia graphics card (6GB VRAM), 16GB RAM, Windows 10/11 (64-bit) macOS: Recommend M1/M2/M3/M4 series CPU, with 16GB RAM				

[1] Scans deep narrow holes with up to a 6:1 depth-to-diameter ratio. Tested under laboratory conditions using a 28.68 mm bore pipe, achieving a measured depth of 172.7 mm.

[2] Accuracy is evaluated in laboratory conditions (measurement object is 100mm sphere pair) and actual results may be affected by operating environments such as temperature, vibration, and other factors.

[3] The scanner is designed to operate in conjunction with the Scan Bridge, with an input voltage and current rating of 12v/2A.