Industrial-grade Excellence, Next-generation Magic Tool

3DeVOK MT

Professional 3D Scanner

34 blue laser lines + 22 infrared laser lines + Large-area infrared speckle

Efficient

No Markers Needed

Marker-free 3D scanning is supported across three light source modes, ensuring easy operations. Its plug-and-play design further enhances on-site scanning efficiency.

Advanced Hybrid Alignment

With advanced alignment technologies for geometry, texture, and target, it ensures smooth alignment with minimal or no targets, whether scanning surfaces rich in geometry and feature or those with limited features, for effortless and intuitive operation.

Fast and Stable Scanning

Capture data at a rate of up to 4.5 million points/s with a high frame rate of 70 fps. Scanning area per frame covers up to 1100 mm*1000 mm, offering smooth and stable scans of medium to large objects.

Flexible

Multi-Size Scanning

It supports the scanning of objects ranging from 0.05 m to 5 m, making it perfect for all kinds of parts, medium to large items, art pieces, human body scans, and more.

Adaptable to Various Environments

Perform efficiently in indoor, outdoor, low-light, and even direct sunlight conditions, ensuring reliable results in any setting.

Handles Complex Materials

No powder is needed to scan challenging surfaces, including black and reflective objects, black hair, and multi-colored items.

Robust

Exceptional Resolution

Achieve a maximum resolution of 0.05 mm, accurately capturing complex textures and intricate details for objects over 5 cm.

High Precision

Accuracy reaches up to 0.04 mm+0.06 mm/m in marker-based alignment mode. Offers highly accurate and high-quality 3D data thanks to its real-time meshing algorithms.

Vivid Color Restoration

Support 24-bit high-definition color scanning, enhanced by high-resolution camera images and texture mapping, delivering true-to-life texture and color reproduction of objects.

Special Features

3 Types of Light Sources

34 blue laser lines | 22 infrared laser lines | Large-area infrared speckle

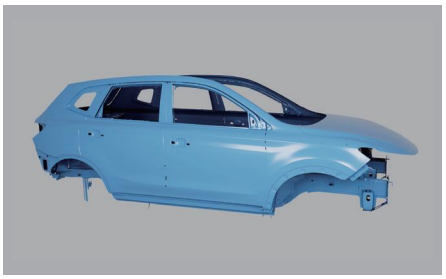
No-marker 3D Scanning

Large-scale Scanning

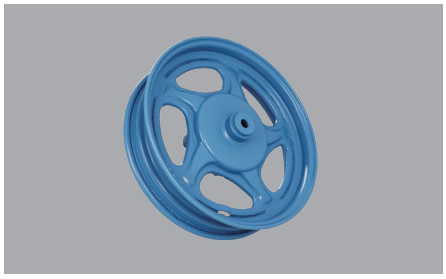
Invisible Light Scanning

Scanning area: 1100 mm*1000 mm | Scanning distance: 1500 mm

Versatile



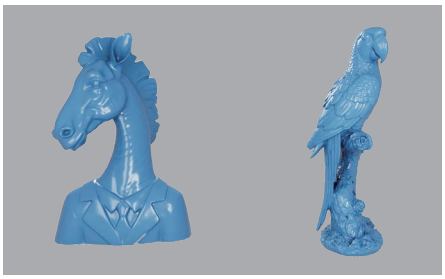
Car Modification



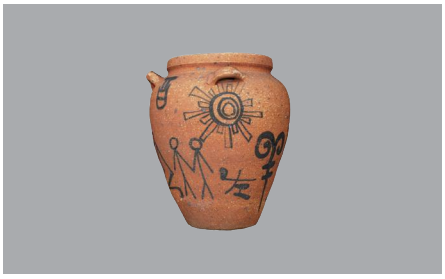
Reverse Engineering

Human Digitization

3D Display



Artistic Design



Cultural Heritage

3DeVOK MT Technical Parameter			
Light Source	34 Blue Laser Lines	22 Infrared Laser Lines	Infrared VCSEL Structured Light
Laser Class	Class II (Eye-safe)	Class I (Eye-safe)	
Scan Mode	Blue Laser Lines	Infrared Laser Lines	Infrared Linear-array Structured Light-Speckle
	Supports markerless scanning	Supports markerless and invisible-light scanning	Supports markerless, invisible scanning, partial fine scanning, and rapid scanning at ultra-long-distance range and ultra-large FoV
Basic Accuracy *	Up to 0.04 mm		
Volumetric Accuracy *	Up to 0.04 mm + 0.06 mm/m		
Point Distance	0.05-5mm	0.1-5mm	
Alignment Mode	Hybrid, marker, texture, and feature alignment		Hybrid, texture, and feature alignment
Ability to Capture Texture	Yes		
Scanning Distance	150-1000mm		150-1500mm
Field of View	140mm × 140mm - 490mm × 490mm		50mm × 75mm - 1100mm × 1000mm
Scanning Rate	Up to 3,300,000 Points/s	Up to 2,450,000 Points/s	Up to 4,500,000 Points/s
Output Formats	*.obj, *.stl, *ply, *.asc, *.mk2,*.txt,*.epj,*.apj,*.spj,*.map, *sk		
Operating Conditions	0–40°C, 10%–90% RH (non-condensing)		
Interface	USB 3.0		
Scanner Dimensions & Weight	Dimensions: 215 mm × 73 mm × 53 mm; Weight: 620 g		
Power Source	DC: 12 V, 5.0 A		
Certifications	CE-EMC, FCC, RoHS, IEC 60825, IEC 62471, IEC 60529-IP50, WEEE, KC		
Recommended Configurations for PC	OS: Win10/Win11, 64-bit; CPU: i7-13650HX and above; RAM: 32GB and above; Graphic Card: NVIDIA discrete graphics card, NVIDIA RTX3060 and above; Graphics Memory: 6GB and above		

* The laboratory theoretical accuracy test results are subject to uncertainty errors.

QS TECH
Measuring & Control Systems
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3DeVOK, a brand under SCANTECH 3D, specializes in 3D digital applications beyond the industrial sector. Covering areas such as reverse engineering, cultural heritage, and medical fields, 3DeVOK empowers users to unlock the full potential of 3D tools, driving innovation and efficiency.

SCANTECH, a global leader in 3D vision digital solutions, focuses on industrial 3D inspection applications. With high-precision, portable, and intelligent products SCANTECH serves industries such as aerospace, automotive manufacturing, and engineering machinery.