SHINING 3D
METROLOGY

RobotScan Series

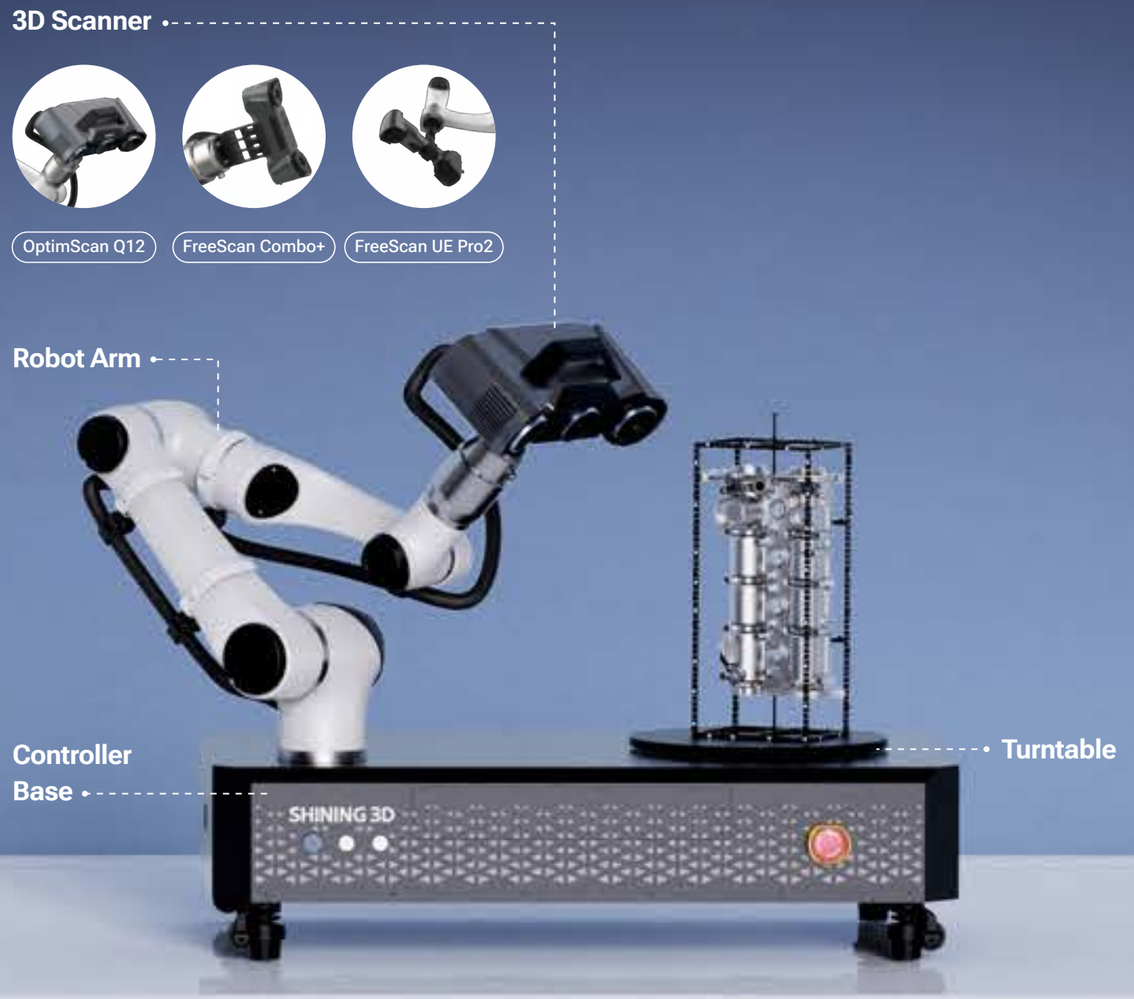
Robotic Intelligent 3D Inspection System

Integrated Design for Flexibility and Scalability

RobotScan series is engineered for high-volume 3D inspection in modern manufacturing environments. Replacing manual operations with robotic automation, it enables fully automated and standardized 3D scanning to rapidly acquire precise geometric data of workpieces, perform real-time in-line inspection, and automatically generate detailed inspection reports.

Developed by SHINING 3D, the system supports customized configurations tailored to specific inspection requirements. It can be seamlessly integrated with MES systems for real-time feedback of inspection results and secure data management, establishing a traceable inspection workflow that enhances the efficiency and quality of intelligent manufacturing processes.

- **High Compatibility**
- **High-Accuracy Full-Field Measurement**
- **Easy Operation**
- **Enhanced Inspection Efficiency**



Workflow

Path Teaching > **Automated 3D Measurement** > **Automated 3D Inspection** > **Automated Report Generation**

Standard Solutions

RobotScan series supports both high precision fringe projection and handheld laser scanners. High precision fringe projection scanners deliver extreme high accuracy, superior resolution, and excellent stability, ideal for electronics, electrical components, and civil aviation manufacturing. Handheld laser scanners offer fast scanning speeds, strong adaptability, and ease of operation, making them well-suited for automotive production and general mechanical industries.

All paired scanners are calibrated within SHINING 3D's Accuracy Laboratory, accredited by CNAS in accordance with ISO 17025, to ensure consistent and reliable measurement accuracy.

▲ RobotScan Q12

▲ RobotScan Combo+

▲ RobotScan UE Pro2

Control & Inspection Software

RobotScan Control

RobotScan Control is a professional automation software purpose-built for industrial applications. It enables direct control of collaborative robot arms, servo turntables, and 3D scanners to execute the complete workflow—from path programming to 3D scanning and inspection. Featuring a process-oriented interface, the software offers intuitive operation and a low learning curve, greatly improving automation efficiency and stability.

SHINING3D Inspect

SHINING3D Inspect is an industrial inspection software certified by PTB for measurement accuracy. It processes high-accuracy 3D scan data to perform detailed 3D comparison, measurement, and inspection report generation. The software delivers reliable, traceable inspection results that meet the stringent demands of modern manufacturing and quality control.

Customized Solutions

SHINING 3D offers a fully customizable configuration to meet the diverse 3D measurement needs of multiple industries. Components such as the robot arm, 3D scanner, turntable, fixtures, and control and inspection software can all be tailored to specific application requirements.

With its modular and flexible design, RobotScan Control software supports seamless integration with both industrial and collaborative robots from mainstream brands, including KUKA, Huayan Robotics, Elite Robots, and so on. It adapts effortlessly to a wide range of industrial environments: automotive, civil aviation, machinery, and general manufacturing, delivering optimized performance, reliability, and measurement efficiency.

Talk to Expert

SPECIFICATIONS

	RobotScan Series		
Measurable object size	≤ 500 mm		
Turntable load capacity	≤ 20 kg		
Robot type	Cobot, Huayan Robotics		
Robot working radius	800 mm		
Dimensions	1030 × 670 × 270 mm		
Weight	70 kg		
Power supply	100 – 240V (Single-phase, 10A)		
Safe working space	2400 × 2400 × 1600 mm		
Installation type	Desktop / Floor-mounted		
Supported sensors	OptimScan Q12, FreeScan Combo+, FreeScan UE Pro2		
Working temperature	0-40 °C		
	RobotScan Q12	**RobotScan UE Pro2**	**RobotScan Combo+**
System power	Rated power 220 W, Peak power 370 W	Rated power 135 W, Peak power 260 W	Rated power 125 W, Peak power 260 W
Connection	2.5G Ethernet port, USB 3.0		

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