

# OptimScan Q12

High-Precision 3D Inspection Scanner



## **OptimScan Q12**

OptimScan Q12 is a high-precision 3D scanner with  $4 \times 12.3$  megapixel cameras. It supports two scan ranges, allowing users to switch between them with a single click. Compared to the previous generation, OptimScan Q12 offers enhanced data acquisition capabilities, faster scanning speed, and broader material adaptability.

It also supports integration with robots, enabling customized and fully automated solutions to meet your unique requirements.



4 × 12.3MP Cameras



**Dual Scan Range** 



**Monocular-Stereo Fusion (MSF)** 

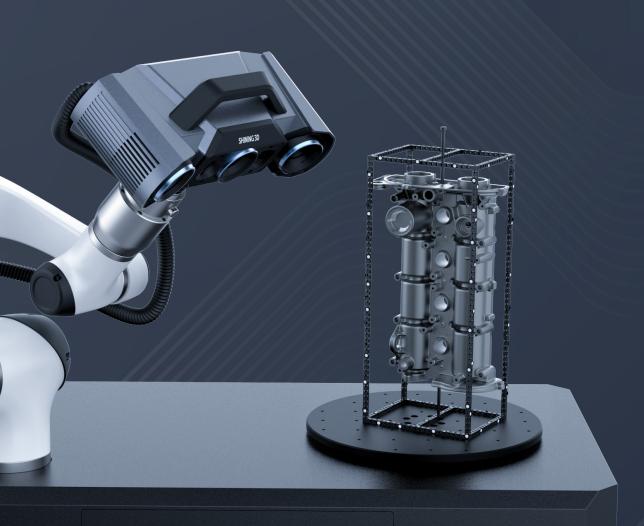


**Multiple Exposure** 



Single Shot < 1 s















### **Reliable High Performance**

OptimScan Q12, equipped with 4 x 12.3 megapixel cameras, accurately captures geometrically detailed features on an object's surface.

Combined with powerful hardware modules and advanced 3D reconstruction algorithms, it delivers an impressive accuracy of up to 0.005 mm, ensuring stable repeatability.











## Dual Scan Range, Easy to Operate

The OptimScan Q12 features two scan ranges that can be switched with a single click, eliminating manual adjustment of aperture and focal length. Scanned data from different ranges can be seamlessly fused in the software, ensuring both efficiency and detail.



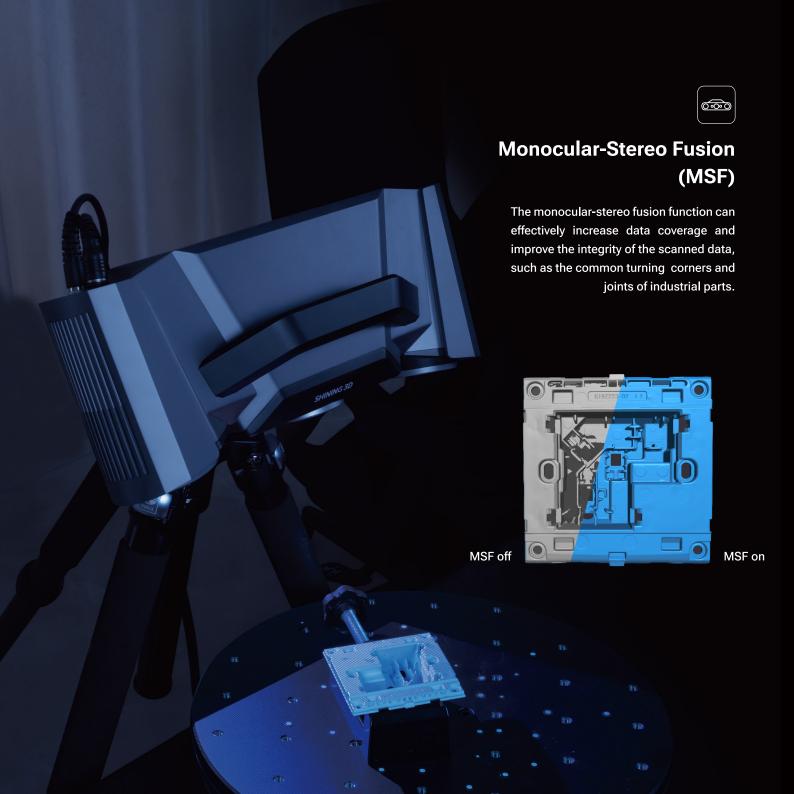
Large Range 430 x 300 mm



Small Range 160 x 110 mm

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### Versatile and Highly Adaptable

OptimScan Q12 is compact and easy to carry, offering flexible manual scanning. For semi-automated operation, it pairs with a fixed tripod and an automatic turntable with up to 20 kg load, providing increased efficiency and consistency in scanning. In fully automated mode, it integrates with a robot for precise, repetitive inspection tasks.

### Manual



### Semi-automated



### Automated





## **Automated Inspection Solution**

OptimScan Q12 can seamlessly integrates with intelligent 3D inspection system, enabling fully automated workflow from scanning to report generation.





## **SPECIFICATIONS**

	OptimS	OptimScan Q12	
Scan range	Large range	Small range	
FOV	430 × 300 mm	160 × 110 mm	
Accuracy	0.015 mm	0.005 mm	
Point distance	0.1 mm	0.04 mm	
Working distance	590 mm	210 mm	
Depth of field	300 mm	60 mm	
Resolution	4 × 12.3MP		
Light source	Blue LED		
Weight	OptimScan Q12: 3.5 kg		
Dimensions	366 × 162 × 132 mm		
Certifications	CE, FCC, ROHS, WEEE, KC, FDA, UKCA, IP50, TELEC, TISAX		
Acceptance test	VDI/VDE 2634 Part2 (certified in ISO 17025 certificated accuracy lab)		

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