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FreeScan UE

SIMPLE HIGH PRECISION INSPECTION

SHINING 3D®

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VERSATILE AND USER FRIENDLY

PORTABLE AND LIGHTWEIGHTED

The device weights only 670g, facilitating handheld scanning and avoiding fatigue due to long working time.

SEAMLESS DOCKING TO INSPECTION SOFTWARE

The scan data can be imported into inspection softwares like Geomagic Control X, Verisurf Inspect and Einsense Q with one click, increasing the inspection efficiency.

EASY OPERATION

User-friendly operating system with simple software setup and guidance through the whole workflow process, allowing users to master the operation at ease.

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SMART AND STREAMLINED INSPECTION DEVICE

METROLOGY-CLASS HIGH PRECISION

Accuracy up to 0.02mm, Volumetric accuracy 0.02mm+0.04mm/m.

STABILITY OF REPETITIVE MEASUREMENT

When measuring the same workpiece repeatedly, FreeScan UE delivers consistent results, proving stability and reliability.

HIGH EFFICIENCY

The scan area can reach 510*520mm, providing larger field of view for a smoother and more efficient scanning experience.

WIDE RANGE OF MATERIAL ADAPTATIONS

Supporting the scan of black and reflective surfaces to accommodate a wider range of scanning applications.

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SIMPLE HIGH PRECISION INSPECTION





As the blue laser handheld 3D scanner of the FreeScan series, FreeScan UE inherits the iconic features of "high precision“ and "stable repeatability“. At the same time ergonomic and lightweight equipment design make it easier to hold and operate, providing metrology-grade, high-precision inspection solutions for the automotive, transportation, aerospace industry, moulding inspection, energy generation, machinery manufacturing etc.



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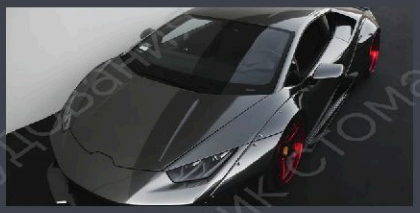
DATA PRESENTATION







APPLICATIONS



AUTOMOTIVE INDUSTRY



TRANSPORTATION



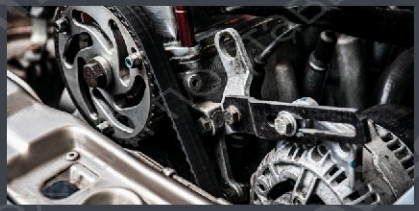
MOULD INSPECTION



ENERGY MANUFACTURING



AEROSPACE INDUSTRY



MACHINE MANUFAC-TURING

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Product Model	FreeScan UE7	FreeScan UE11
Scan Mode	Multiple Lines Scan, Single Line Scan	
Scan Accuracy	Up to 0.02mm	
Volumetric Accuracy	0.02 mm+0.04 mm/m	
Volumetric Accuracy with DigiMetric*	0.02 mm + 0.025 mm/m	
Scan Speed	650,000 points/s	1,020,000 points/s
Working Distance	500mm	
Scan Depth (Depth of Field)	300mm-700mm	
Max. Scan Range	510mm x 520mm	
Point Distance	0.05mm-3mm	
Light Source	14 lines+1 line blue laser	22 lines +1 line blue laser
Laser Class	Class 2M (eye safe)	
Connection Standard	USB 3.0	
Dimensions	298mm x 90mm x 74.5mm	
Weight	670g	
Powering	DC: 12V, 5.0A	
Operating Temperature Range	0 °C-40 °C	
Operating Humidity Range	10%-90%	
Certifications	CE, FCC, ROHS, WEEE	
Inspection Module	Compatible with multiple inspection software solutions such as EINSENSE Q, Geomagic Control X/Control X Essentials, Polyworks, Catia etc.	
Output Formats	OBJ ; STL ; ASC ; PLY ; P3 ; 3MF	
Data Compatibility Software	3D System (Geomagic Solutions), InnovMetric Software (PolyWorks), Dassault Systemes (CATIA V5 & SolidWorks), PTC (Pro/ENGINEER), Siemens (NX & Solid Edge), Autodesk (Inventor, Alias, 3ds Max, Maya, Softimage) etc.	
Recommended Computer Configuration	OS: Win10, 64 bit; Graphics Card: NVIDIA GTX/RTX series cards, higher or equal to GTX 1080; GPU Memory: ≥4G; Processor: I7-8700; Memory: ≥32GB	

Volumetric accuracy is the relationship between the accuracy of the 3D data and the size of the object, with a reduction in accuracy of 0.04 mm per 100 cm a reduction in accuracy of 0.025 mm per 100 cm with DigiMetric.The standard above is determined by measuring the sphere centre distance by splicing the marker points.

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