

# AlphaScan

Al Metrology-Grade Handheld 3D Scanner

Perfected Excellence · Reinvented Upgrade



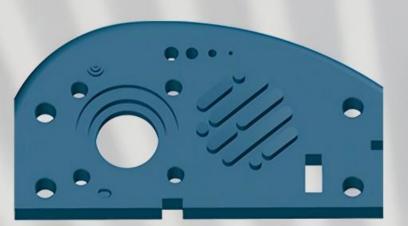
## AlphaScan Handheld 3D Scanner

Now comprehensively upgraded: precision-engineered exterior, robust structure, and enhanced performance.

While retaining its signature lightweight design, high-speed operation, and metrology-grade accuracy, the new generation elevates fine-detail

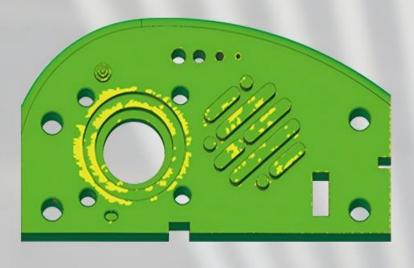
scanning capabilities and global control precision. Its modular architecture significantly expands versatility, delivering tailored solutions for flexible cross-scenario applications. 0.02 mm 5,400,000 measurements per second 0.015 mm + 0.035 mm/mRepeatability 34 Blue Laser Beams 0.02mm 0.015 mm + 0.025 mm/mHigh Measurement Consistency (Selection of photogrammetric scale bars) **High-Speed Data Acquisition** 

### 3D INSPECTION PROCESS



After scanning is complete, the point cloud data or 3D model is imported into specialized inspection software, preparing for subsequent processing.

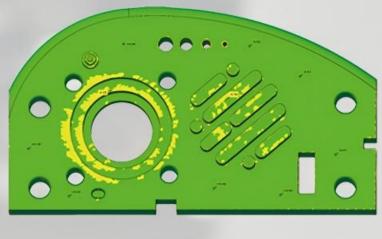
Data integration optimization



The imported scan data is aligned with the reference standard part coordinates. After alignment, a color deviation map is generated to assist in error analysis.

2

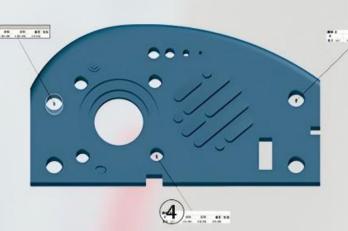
Intelligent comparison and analysis



Based on the completed alignment, detailed dimension measurement and tolerance analysis are performed to determine whether the product meets design specifications.

3

Multidimensional quality verification



Generate inspection reports with one Click. Through visualized analysis data, it helps quickly identify issues and improve quality control efficiency.

Smart reporting system



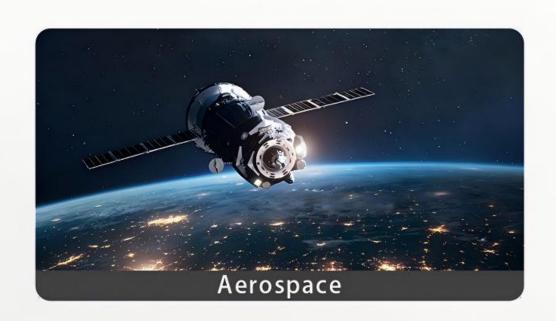
### **APPLICATION FIELDS**













# THCHNICAL SPECIFICATIONS

Model Number			AlphaScan	
Scanning Mode	High-Speed Scanning		26 crossed blue laser lines	
	Precision Scanning		7 blue laser lines	
Junkers J	Deep Hole Scanning		1 single blue laser line	
Highest Precision			0.020 millimeters	
Maximum Scanning Speed		5,400,000 measurements per second		
Maximum Scanning Field		650mm×550mm		
Laser Class			Class II (Eye Safe)	
Maximum Resolution		0.01 millimeters		
Volume Accuracy		0.015mm+0.035mm/m 0.015mm+0.025mm/m (Selection of photogrammetric scale bars)		
Reference Distance		300mm (200mm fine mode)		
Depth of Field		550 millimeters		
Output For	nat	ASC, I	GS, TXT, UMK, STL, PLY, OBJ, etc.	
Operating Temperature		-10° C to 40° C		
nterface Type			USB 3.0	
Minimum co	omputer GP	J: NVIDIA GTX/	r later (64-bit required) RTX series (e.g., RTX 4060 or higher) re CPU: Intel Core i7-13700H or better RAM: 32 GB or higher	





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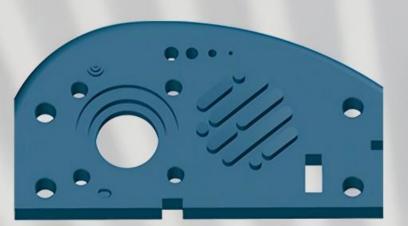
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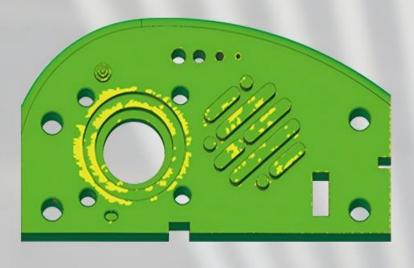


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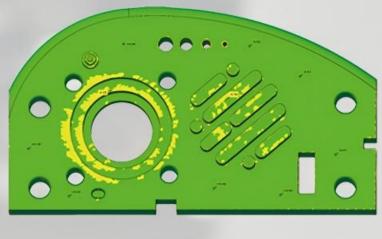
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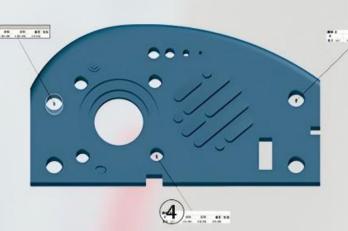
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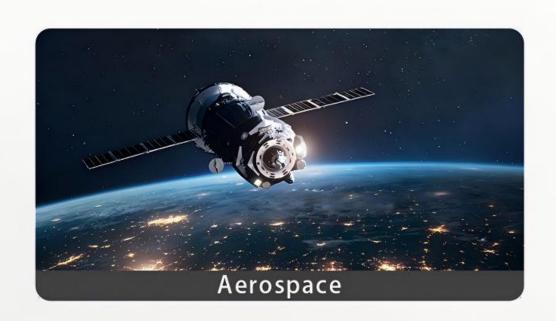
### **APPLICATION FIELDS**













# THCHNICAL SPECIFICATIONS

Model Number			AlphaScan Elite		
Scanning – Mode	High-Speed Scanning		50 crossed blue laser lines		
	Precision Scanning		7 blue laser lines		
unkers Ju	Deep Hole Scanning		1 single blue laser line		
Highest Precision			0.020 millimeters		
Maximum Scanning Speed			7,100,000 measurements per second		
Maximum Scanning Field		The .	650mm×550mm		
Laser Class			Class II (Eye Safe)		
Maximum Resolution			0.01 millimeters		
VOILIME ACCURACY			0.015mm+0.035mm/m 0.015mm+0.025mm/m (Selection of photogrammetric scale bars)		
Reference Distance		3	300mm (200mm fine mode)		
Depth of Field		7/2-6	550 millimeters		
Output Format ASC		ASC	C, IGS, TXT, UMK, STL, PLY, OBJ, etc.		
Operating Temperature			-10° C to 40° C		
Interface Ty	nterface Type		USB 3.0		
Minimum co	mputer GPU:	NVIDIA GT	or later (64-bit required) X/RTX series (e.g., RTX 4060 or higher) nore CPU: Intel Core i7-13700H or better RAM: 32 GB or highe		





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