HDI 120

The standard HDI 120 includes a table-top tripod system.

Compact Design, Powerful System

The HDI 120 3D Scanner is the smallest advanced 3D scanning system using blue LED projection technology. With a solid aluminium body that is dust proof and water resistant (IP67 rated), this scanner is pre-calibrated to produce repeatable 3D scanning results while operating in harsh environments. The HDI 120 3D Scanner delivers advanced 3D scanning at a fraction of the price of comparable systems in the market.

High Performance 3D Scanning System

0.3
seconds per scan
with full field scanning

Resolution:
up to 985,000 points
(1.97 million polygons)

Easy to Transport

This compact system makes it easy for travel. The scanner can be used in small spaces that would be difficult to achieve with larger 3D scanning systems.

Ready for 3D Scanning with Simple Setup

The scanner captures millions of measurements with minimal setup time. Simply plug in the system, install the software on your computer and it is ready for scanning.

Automate the Scanning Process

By connecting multiple HDI 120 3D Scanners to a single PC, you can automate the 3D scanning process. The system generates complete digital 3D models without any motion control to reduce scanning time.

Seamless 3D Scanning Experience

Powered by FlexScan3D software, users can process the data directly at the capturing stage with built-in data editing, alignment, and merging capabilities without exporting to a separate post-processing software application. The final output can be exported into different file formats depending on the user's needs.

Versatile Across Different Applications

Configured for demanding industry applications, the scanner is used in reverse engineering, 3D inspection, 3D measurement, and 3D visualization.

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HDI 120	
Cameras	A pair of 1.3 megapixel cameras
Scanning Software	FlexScan3D
Scan Speed	0.3 seconds per scan
Field of View (diagonal) *Near End - Far End*	172 - 260 mm
Field of View (X - Y) *Near End - Far End*	124 x 120 mm - 192 x 175 mm
Clearance Distance	300mm
Depth of Field	180mm
Resolution	
Average Points	985,000 per scan
Average Polygons	1.97 million per scan
Point to Point Distance *At center of measurement volume*	0.162 mm
Accuracy *Near End - Far End*	60 microns - 118 microns (µm)
Calibration	Pre-calibrated
Geometry Formats	PLY, OBJ, STL, ASC, FBX, 3D3
Scanner Interface	Gigabit Ethernet
Housing	Gasketed aluminium enclosure, IP67
Computer Requirements	Windows 7 (64-bit) Operating System, Quad-core Intel 2 GHz CPU or better, Gigabit Ethernet Interface, 4 GB Memory or greater, 512 MB Video Card, Free disk space 250 GB Hard Drive or more