



HDI ADVANCE 3D SCANNER

Speed, Accuracy and Flexibility at an Affordable Price

The 3D scanner uses white light technology for capturing digital 3D scans from physical objects in seconds. The system is useful for manufacturers, visual effects studios, research labs, and academic institutions that need complex 3D measurements for various applications.

Fast Scan Speed with Full Field Scanning



The HDI Advance 3D Scanner scans in 0.88 seconds and captures the full view of an object. Fast scan speed is useful for face and body scanning applications as people have difficulties staying still.

High Resolution and Accurate 3D Scans

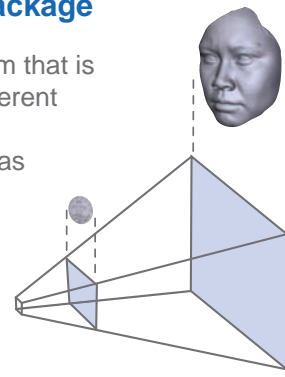
The 3D scanner uses a pair of machine vision cameras for capturing high resolution and accurate 3D scans. The 3D scanner captures a single scan at up to 50µm (0.002") accuracy and generates up to 2.6 million points (5.2 million polygons) per scan.

Non-contact measurement

The HDI Advance 3D scanning system scans an object directly without any physical contact to ensure there is no measurement interference.

Flexible Scanning in One Package

The 3D scanner is a flexible system that is capable of scanning objects of different shapes and sizes by changing its field of view. The scanner's cameras can be placed in different preset slots to adjust the field of view. As your 3D scanning needs change over time, upgrade the hardware components to improve scanning performance and configure the system to match your precise needs.



ADJUSTABLE FIELD OF VIEW

Built in Post-Processing Capabilities



The HDI Advance 3D Scanner provides post-processing capabilities for fast and simple operation. Align and merge 3D scans into a complete digital 3D model quickly without exporting to a separate post-processing software application.



HDI Advance R3

Cameras	A pair of 2.8 megapixel monochrome FireWire cameras with 5 megapixel 16mm lenses
Scanning Software	FlexScan3D
Scan Speed	0.88 seconds per scan
Field of View	Adjustable field of view to scan objects of different shapes and sizes Preset: 200mm, 400mm, 600mm diagonal
Resolution	
Average Points	2.6 million per scan
Average Polygons	5.2 million per scan
Point to Point Distance	200mm diagonal field of view: 0.075mm 400mm diagonal field of view: 0.165mm 600mm diagonal field of view: 0.250mm
Accuracy	200mm diagonal field of view: 50µm (0.0020") 400mm diagonal field of view: 80µm (0.0032") 600mm diagonal field of view: 110µm (0.0043")
Standoff	200mm diagonal field of view: 380mm 400mm diagonal field of view: 660mm 600mm diagonal field of view: 970mm
Geometry Formats	PLY, OBJ, STL, ASC, FBX, 3D3
Color Texture	upgradeable to color
Computer Requirements	Windows 7 (64-bit) Operating System, Quad-core Intel 2 GHz CPU or better, 4GB Memory or greater, 512MB Video Card, Free disk space 250 GB Hard Drive or more