



HDI
ADVANCE

HDI ADVANCE 3D SCANNER

Flexible Design, Maximum Value

The HDI Advance 3D scanners are known for their performance and value. They use structured-light technology for capturing digital 3D scans from physical objects in seconds. These versatile systems are useful for manufacturers, visual effects studios, research labs, and academic institutions that need complex 3D measurements for various applications.

FAST WITH FULL FIELD SCANNING



The HDI Advance 3D scanners capture the full view of an object in about one second. Fast scan speed ensures you finish the scanning portion of your project faster so you can focus on more important tasks.

HIGH RESOLUTION ACCURATE 3D SCANS

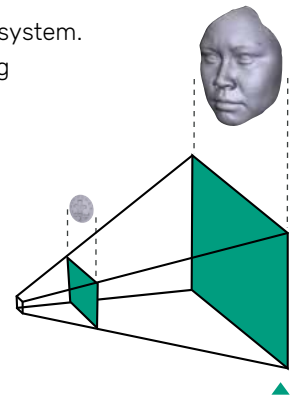
The HDI Advance 3D scanners are designed to deliver industrial grade quality and geometry. Each scanner uses a pair of machine vision cameras for capturing high resolution and accurate 3D scans. The R5x model captures a single scan at up to 25µm (0.025mm) accuracy and generates up to 4.9 million data points or 10.1 million polygons per scan.

NON-CONTACT MEASUREMENT

The HDI Advance 3D scanning systems scan an object directly without any physical contact. Compared to contact measurement devices, this method guarantees there is no measurement interference.

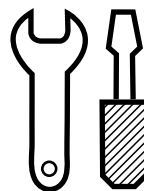
FLEXIBLE SCANNING IN ONE PACKAGE

Get the versatility you need all in one system. The 3D scanner 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 on the mount to adjust the field of view. As your 3D scanning needs change over time, upgrade the hardware components to improve scanning performance.

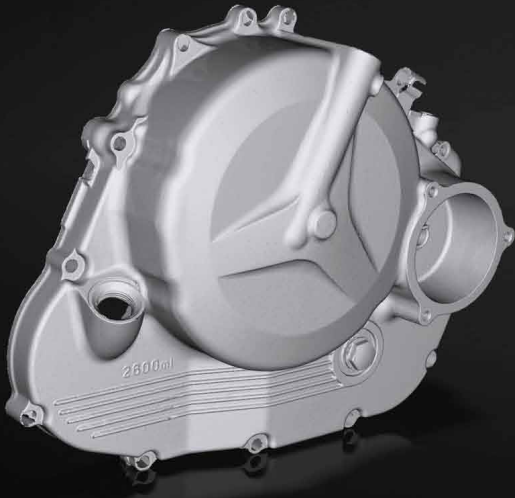


ADJUSTABLE FIELD OF VIEW

BUILT IN POST-PROCESSING CAPABILITIES



HDI Advance 3D scanner comes with FlexScan3D software, a powerful scanning engine. Align and merge 3D scans into a complete digital 3D model quickly without exporting to a separate post-processing software application.



Motorcycle Engine Part



Car Door



Action Figure

	HDI ADVANCE R1x	HDI ADVANCE R3x	HDI ADVANCE R5x
Cameras	2 x 1.3 megapixel monochrome USB 3.0 cameras, 12mm lenses	2 x 2.8 megapixel monochrome USB 3.0 cameras, 12mm lenses	2 x 5.2 megapixel monochrome USB 3.0 cameras, 12mm lenses
Scanning Software	FlexScan3D	FlexScan3D	FlexScan3D
Scan Speed	1.3 seconds per scan	1.2 seconds per scan	1.2 seconds per scan
Field of View (FOV) Adjustable to scan objects of different shapes and sizes	Preset: 165mm, 310mm, 455mm diagonal	Preset: 200mm, 400mm, 600mm diagonal	Preset: 200mm, 400mm, 600mm diagonal
Resolution			
Average Points	1.1 million per scan	2.6 million per scan	4.9 million per scan
Average Polygons	2.2 million per scan	5.2 million per scan	10.1 million per scan
Point to Point Distance	165mm FOV: 0.157mm 310mm FOV: 0.296mm 455mm FOV: 0.434mm	200mm FOV: 0.124mm 400mm FOV: 0.248mm 600mm FOV: 0.372mm	200mm FOV: 0.090mm 400mm FOV: 0.181mm 600mm FOV: 0.271mm
Accuracy	165mm FOV: 60µm (0.0024") 310mm FOV: 105µm (0.0041") 455mm FOV: 115µm (0.0045")	200mm FOV: 40µm (0.0016") 400mm FOV: 65µm (0.0026") 600mm FOV: 85µm (0.0033")	200mm FOV: 25µm (0.0010") 400mm FOV: 35µm (0.0014") 600mm FOV: 50µm (0.0020")
Standoff	165mm FOV: 431mm 310mm FOV: 914mm 455mm FOV: 1219mm	200mm FOV: 431mm 400mm FOV: 914mm 600mm FOV: 1219mm	200mm FOV: 431mm 400mm FOV: 914mm 600mm FOV: 1219mm
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, 4 GB Memory or greater, 512 MB Video Card, Free disk space 250 GB Hard Drive or more		