

# HDI ADVANCE

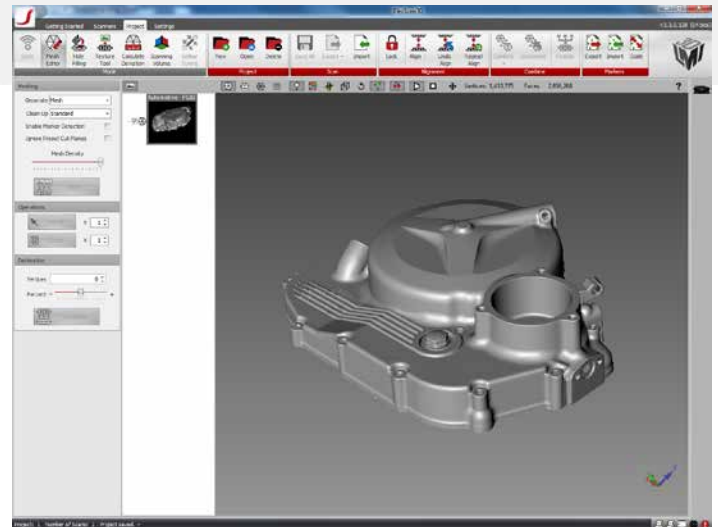
## ADVANCED 3D SCANNERS

### Speed, Accuracy & Flexibility at an Affordable Price

The HDI Advance 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.



HDI ADVANCE



All HDI 3D Scanners come with FlexScan3D software.

#### FAST SCAN SPEED WITH FULL FIELD SCANNING

The HDI Advance 3D Scanner captures the full view of an object in approximately one second. 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 45µm (0.0018") accuracy and generates up to 2.6 million points (5.2 million polygons) per scan.

#### BUILT IN POST-PROCESSING CAPABILITIES

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

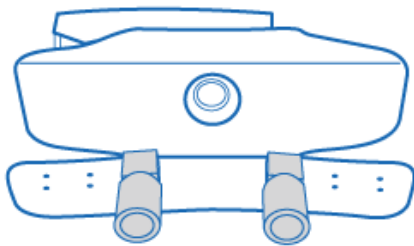
#### NON-CONTACT MEASUREMENT

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

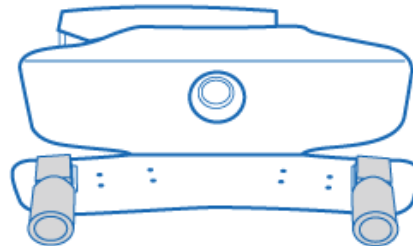
#### FLEXIBLE SCANNING IN ONE PACKAGE

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.

	HDI Advance R1x	HDI Advance R3x
Cameras	A pair of 1.3 megapixel monochrome USB 3.0 cameras with 12mm lenses	A pair of 2.8 megapixel monochrome USB 3.0 cameras with 12mm lenses
Scanning Software	FlexScan3D	FlexScan3D
Scan Speed	1.3 seconds per scan	0.88 seconds per scan
Field of View (FOV)	Adjustable field of view to scan objects of different shapes and sizes Preset: 165mm, 310mm, 455mm diagonal	Adjustable field of view to scan objects of different shapes and sizes Preset: 200mm, 400mm, 600mm diagonal
Resolution	1.1 million per scan	2.6 million per scan
<i>Average Points</i>	2.2 million per scan	5.2 million per scan
<i>Average Polygons</i>	165mm diagonal FOV: 0.1mm 310mm diagonal FOV: 0.2mm 455mm diagonal FOV: 0.3mm	200mm diagonal FOV: 0.075mm 400mm diagonal FOV: 0.165mm 600mm diagonal FOV: 0.250mm
<i>Point to Point Distance</i>		
Accuracy	165mm diagonal FOV: 65µm (0.0026") 310mm diagonal FOV: 115µm (0.0045") 455mm diagonal FOV: 125µm (0.0049")	200mm diagonal FOV: 45µm (0.0018") 400mm diagonal FOV: 75µm (0.0030") 600mm diagonal FOV: 105µm (0.0041")
Standoff	165mm diagonal FOV: 370mm 310mm diagonal FOV: 690mm 455mm diagonal FOV: 1040mm	200mm diagonal FOV: 370mm 400mm diagonal FOV: 690mm 600mm diagonal FOV: 1040mm
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, 512MB Video Card, Free disk space 250GB Hard Drive or more	



**SMALLER FIELD OF VIEW**  
Scanning smaller objects using inner camera shots.



**WIDER FIELD OF VIEW**  
Scanning larger objects using outer camera shots.

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