AHBOR

RT 3D Scanner

Automated 3D Scanner with robotic platform

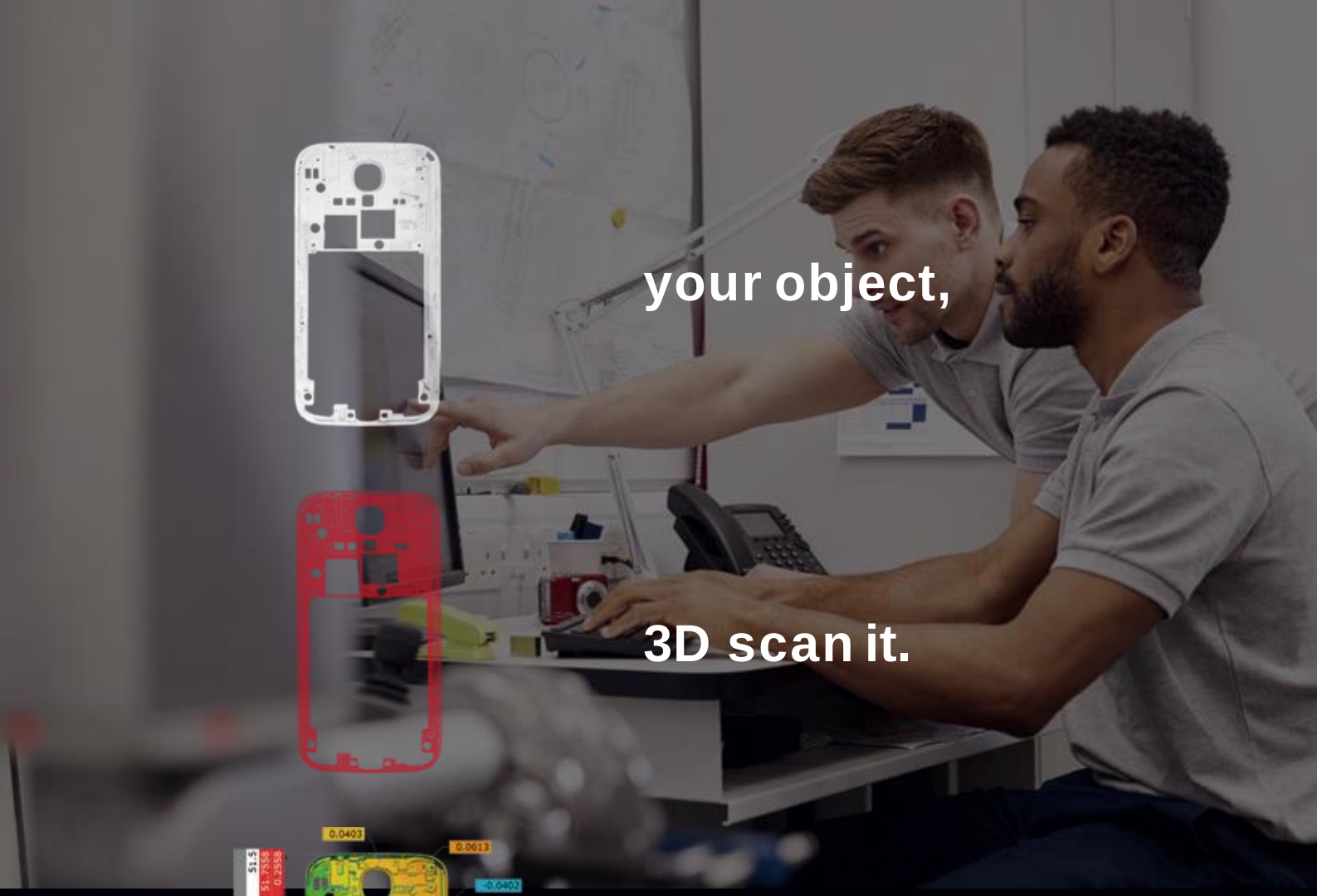
RT 3D Scanner
HIGHLIGHTS

No Need for Fixtures
Patented SSS Technology elimated any usage of fixtures or clamps on your object

No Need for Scan Markers
Save working time by 3D scanning on the robotic platform

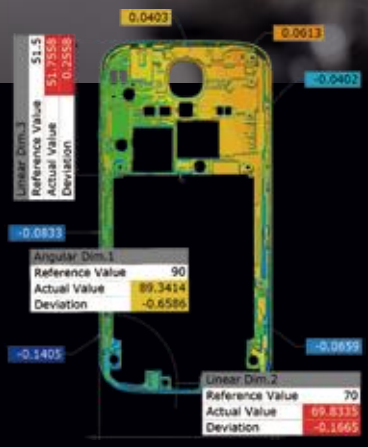
Interchangeable FOV
One unit covers from small to large objects

Enhanced Data Interface
Gigabit connection optimized for stability and performance



your object,

3D scan it.



Increase productivity.

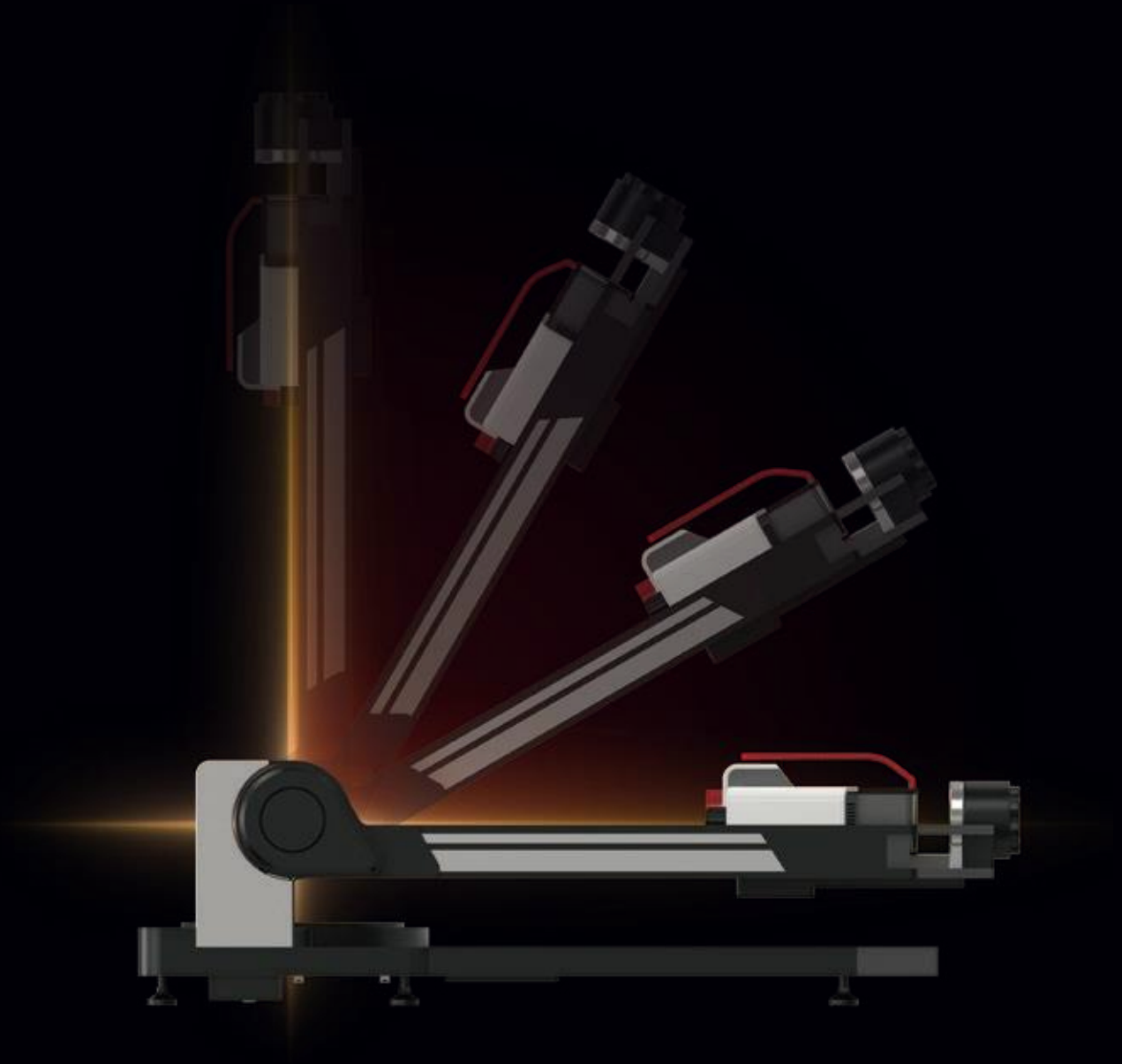
now even more with the new

RT 1200 model

- 12.0 MP Sensor resolution
- Premium optics
- Multi-channel data transfer
- Fully compatible with the robotic platform

AUTOMATED 3D SCANNER WITH ROBOTIC PLATFORM

High accuracy full-field 3D scanning system in its simplest form



Conventional systems require use of jigs or clamps to hold down objects, due to the nature of its mechanism. This pre-process is not only time consuming but may affect scan output result, if not done professionally.

Raptor3DX's robotic platform was carefuly engineered with our patented mechanism and completely eliminates needs for object fixation & scan markers, increasing work efficiency.

Raptor3DX is fully automated 3D digitizing solution for metrology and reverse engineering. Its proprietary robotic platform enables place-and-scan convenience, suitable for all levels of users.

Flexible Usability

When higher freedom of scanning is required Raptor3DX sensor can be detatched from the automation platform. Being able to capture large scan area per single shot can enable large-scale projects such moulds and BIW

Automatic Mode w/ the robotic platform

- Digitize your object at a click of a button Place-and-scanmethod
- No fixation object required
- No need for scan markers
- Proprietary platform enables 360º full field scanning

Manual Mode

- Interchangeable FOV (measure volume) by the user
- One unit covers from small to large objects
- One single scan covers objects sized 600mm in diameter
- Compatible with conventional studio stands & tripods

RT 3D scanner sensor

- Structured-light optical 3D scanner for high-precision 3D data
- Robust housing for rough environments
- Speckle-free LED light source for low noise level
- High bandwidth data interface

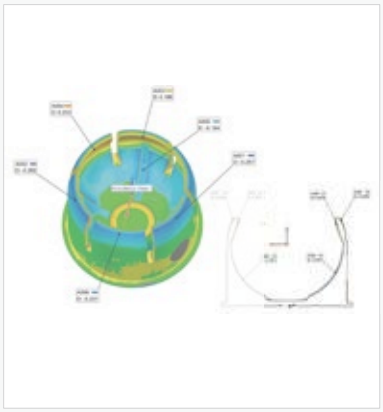
Compatible with third party inspection and reverse engineering software

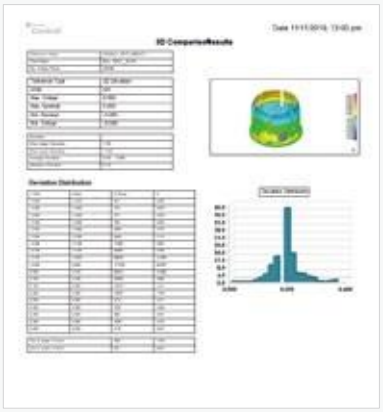
3DX Scan Software

- Controls Raptor3DX and is designed to work with Raptor3DX seamlessly
- Based on 64-bit architecture to handle heavy duty usage
- Easy UI for all levels of users
- Automatic alignment of scan datas
- Recovery mode helps you to recover your data from unexpected situation

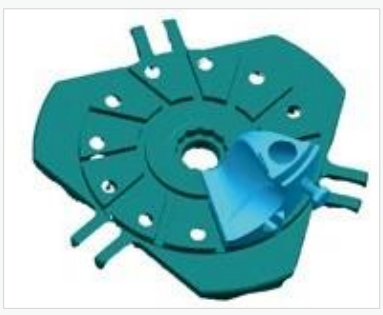
Enhancing Productivity by

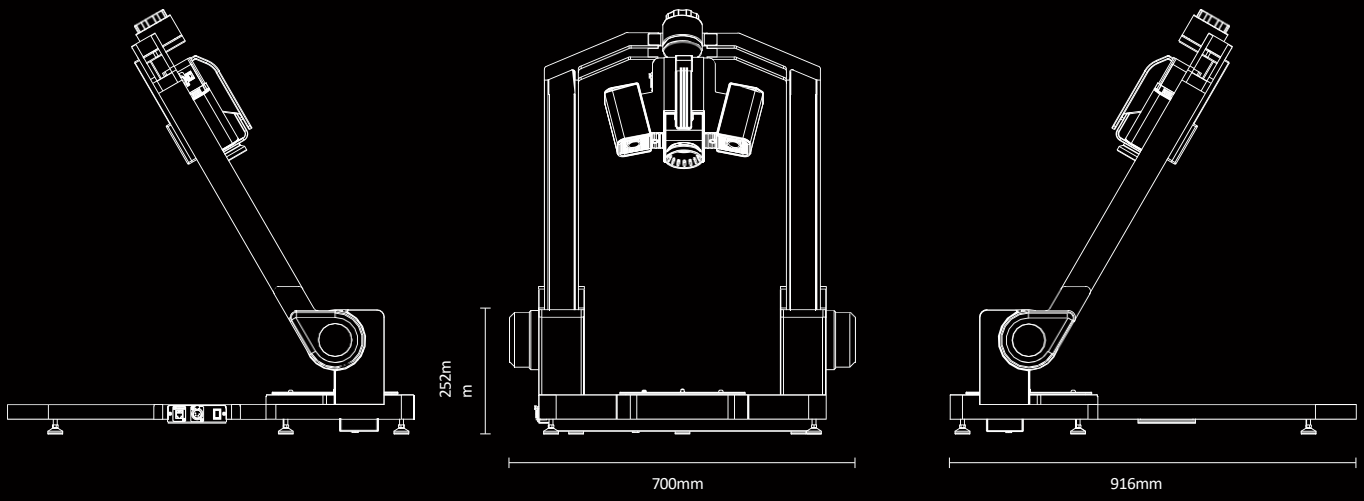
· Quality Control





· Reverse Engineering





Specification

	RT200			RT500				RT1200			
Data Amount (points / 1 shot)	2 million (2 MP)			5 million (5 MP)				12 million (12 MP)			
FOV (field of view)	FOV 150	FOV 330	FOV 500	FOV 140	FOV 300	FOV 390	FOV 600	FOV 190	FOV 290	FOV 450	FOV 550
Scan Volume / 1 shot (W x H x D)	120 x 90 x 90 mm³	270 x 200 x 200 mm³	400 x 300 x 300 mm³	110 x 85 x 85 mm³	230 x 180 x 180 mm³	310 x 240 x 240 mm³	500 x 350 x 350 mm³	150 x 114 x 114 mm³	238 x 178 x 178 mm³	360 x 270 x 270 mm³	440 x 330 x 330 mm³
Volume Accuracy*	±0.010 mm	±0.025 mm	±0.045 mm	±0.010 mm	±0.025 mm	±0.033 mm	±0.055 mm	±0.015 mm	±0.025 mm	±0.035 mm	±0.050 mm
Point Distance	0.070 mm	0.160 mm	0.250 mm	0.040 mm	0.090 mm	0.120 mm	0.180 mm	0.035 mm	0.058 mm	0.090 mm	0.110 mm

Working Distance	450 mm
Platform	SSS Technology applied 2 + 1 axis platform (360° rotation / 90° arm / ±45° sensor tilt)
Dimension	320 x 220 x 140 mm (sensor) / 700 x 916 x 252 mm (platform)
Weight	3.3kg (sensor) / 30kg (platform)
Data Output	Polygon mesh STL, OBJ
Input	DC 24V, 5A, 120W
Interface	Gigabit Ethernet (Multi-channel for Pro model)
O/S	Windows 10, 11 (64bit)

AHBOR

#502, B-dong, Magok Jungang 4-ro 18, Seoul, South Korea / +82-2-2663-7772 / info@ahbor.co.kr / www.ahbor.kr / www.ahbor.co.kr