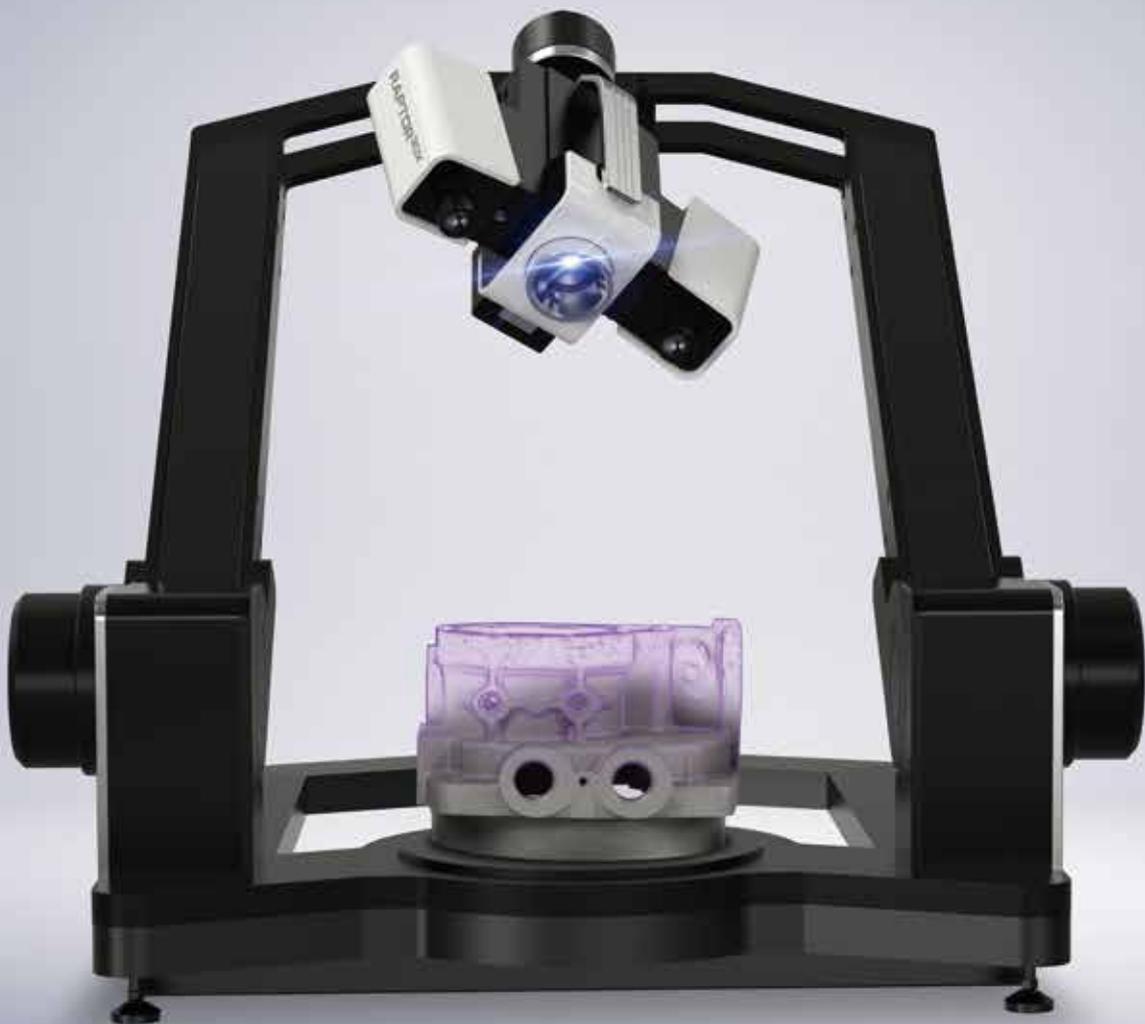


# **3DX** **RAPTOR**

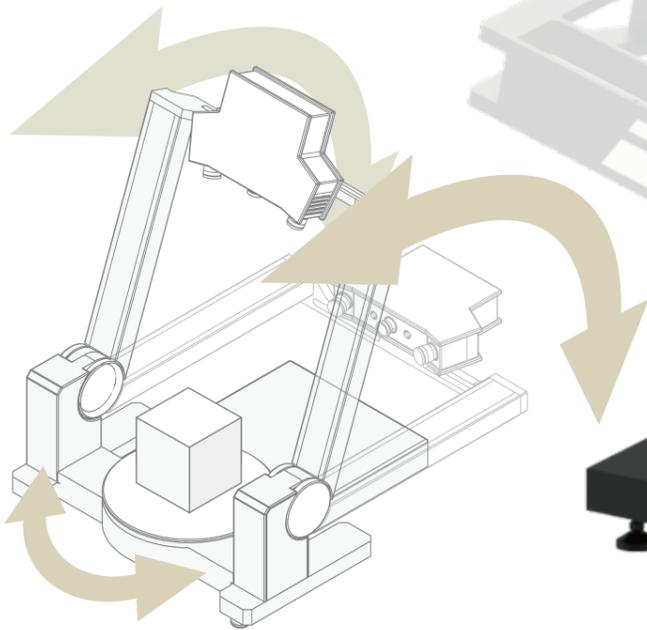
*Metrology 3D Scanner with robotic platform*



# Raptor3DX

Providing you the whole new level of convenience in 3D metrology

Raptor3DX is the next generation hybrid 3D scanner that does not require fixation of objects.



Conventional automatic systems require users to use jigs or clamps to hold down the objects, due to their swinging movement.

Raptor3DX sensor moves up and down in relation to the scan object, making the object stable.



## Hybrid = Automatic X Manual Mode

When higher freedom of scanning is required, the Raptor3DX sensor can be detached from the automation platform. Maximum area of 600mm per single shot can be captured, enabling large scanning tasks such as BIW and turbine engine.

### Automation Mode - robotic platform

- ▶ Digitize your object with only a single click
- ▶ Fully automatic platform with the sensor moving vertically for 360° scan
- ▶ Just place-and-go method. No fixation of object required
- ▶ Auto-sync scan will position the object where it needs additional scans

### Manual Mode

- ▶ Covers large scale objects with scanning flexibility
- ▶ One single shot can scan up to 600mm in diagonal length
- ▶ Compatible with most conventional stands & tripods

Raptor3DX reduces engineer's working time dramatically with easy-to-use automated robotic platform.

## Raptor3DX Sensor

- ▶ Optical 3D scanning machine for high-precision 3D data
- ▶ Three interchangeable FOV (scannable area) by the user
- ▶ Automatic Exposure measures the contrast of the surface for best scan result
- ▶ Texture scanning for intuitive expression of object surface



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 huge amount of data
- ▶ Easy user interface lowers learning curve significantly.
- ▶ Automatic alignment of scan datas
- ▶ Recovery mode helps you to save your data from unexpected situation
- ▶ Outputs triangulated STL data for full compatibility



## Robotic Arm + Raptor3DX

Expand the capabilities of your digitization with the integrated system between the robot and Raptor3DX sensor\*



\* Currently in development.  
Please contact VYLO for availability.

# Raptor3DX Highlights



## Hybrid Type with robotic platform

- ▶ Robotic platform completely eliminates manual positioning of the sensor while scanning
- ▶ 3D Scanner sensor can be detached anytime for large scale scanning
- ▶ High flexibility system that is future proof – for small to huge sized objects



## Stable Scan Stage (SSS) Technology

- ▶ The proprietary technology enables platform stage to avoid swinging movement during scanning
- ▶ No more clamping or fixation of scan parts before scanning
- ▶ Reduces engineer's preparation time by a fraction



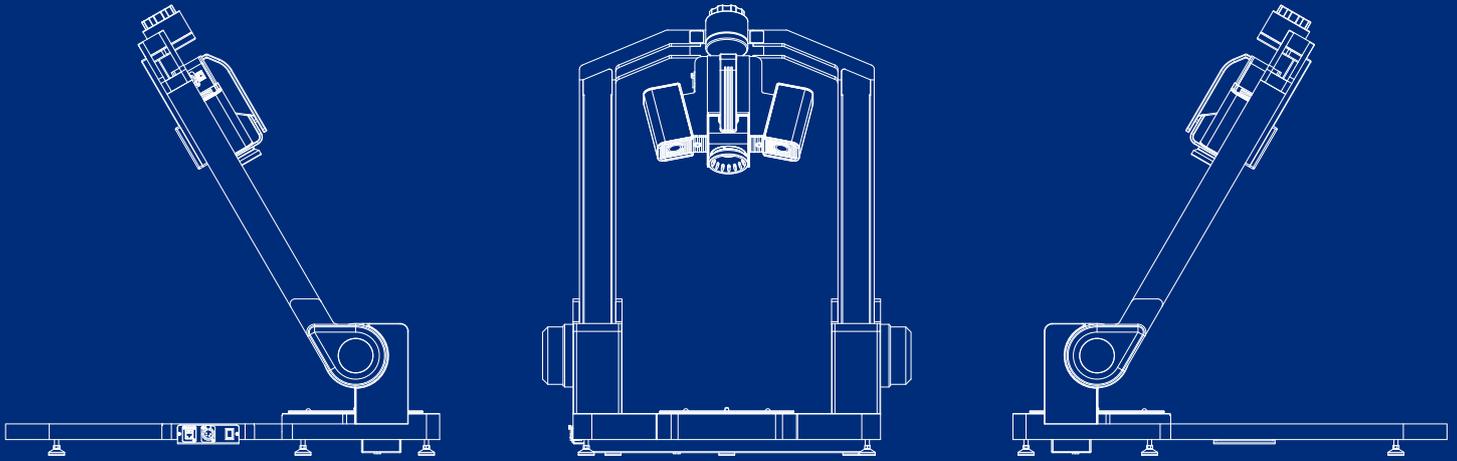
## Multi Scanning Area (FOV)

- ▶ One unit covers up to three scanning area (field-of-view)
  - ▶ Interchangeable by the user simply by switching the lens set
- From small to large sized objects can be digitized without extra investment



## Enhanced Data Interface

- ▶ Gigabit Ethernet Interface
- ▶ The optimal communication interface ideal for factories and offices
- ▶ Fast and stable data transfer for heavy data
- ▶ No need for driver installations; universal connector for all devices



## Specification

---

<b>Product</b>	Non-contact optical 3D scanner (stereo vision)
<b>Resolution</b>	2.0 mega-pixel / 5.0 mega-pixel
<b>Scan Area (FOV)</b>	150, 330, 500 mm (2MP) / 100, 300, 600 mm (5MP)
<b>Point Distance</b>	0.07, 0.16, 0.25 mm (2MP) / 0.03, 0.09, 0.18 mm (5MP)
<b>Working Distance</b>	450 mm
<b>Platform</b>	SSS Technology applied 3-axis platform (360° rotation / -5° to 90° arm / ±45° sensor tilt)
<b>Interface</b>	Gigabit Ethernet
<b>Data Output</b>	Polygon mesh STL, OBJ
<b>Dimension</b>	320 x 220 x 140 mm (sensor) / 700 x 916 x 252mm (platform)
<b>Weight</b>	3.3 kg (sensor) / 30 kg (platform)
<b>Input</b>	DC 24V, 5A, 120W
<b>O/S</b>	Windows 7, 10 (64-bit)

---