Providing next level
3D experience

AHBOR
아보르시스템

FALCON 3DX

JEWELRY 3D SCANNER

- Fully automatic
- Designed for professional jewelers
- Highest resolution in its class

FALCON 3DX

Digitize reality into your design

Product Highlights

Fully Automatic
2-axis scan platform makes scanning fully automatic

270°
270 Degrees Full Swing Movement
Minimize blind spots with 270 degrees full swing movement

3DX Engine Scan Software
The most intuitive scanning software offers simple interface, latest algorithm, powerful features and auto updates

Open STL
Outputs polygonised STL format data, fully compatible with your CAD software, or 3D printers

Specialized for Jewelry
3D scanner optimized for jewelry applications for professionals

Falcon3DX enables professional jewelers to expand their design capabilities.

High precision 3D scanning converts real life objects into digital 3D data, which then can be used for various applications.

3D Scan Data for :

- creative design in CAD
- 3D printing
- digital archiving
- design reference
- perfect fit
- analysis

Falcon3DX Models

Standard Resolution

▸ Ideal for: Figures, simple stones, gems, large jewelry

▸ Max scan area: 120mm

▸ Resolution: 0.06 mm

High Resolution (5mp)

▸ Ideal for: Jewelry with high details, sharp edges

▸ Max Scan area: 120mm

▸ Resolution: 0.036 mm

Ultra Resolution (5mp)

▸ Ideal for: Small jewelry pieces with high detail, complex features
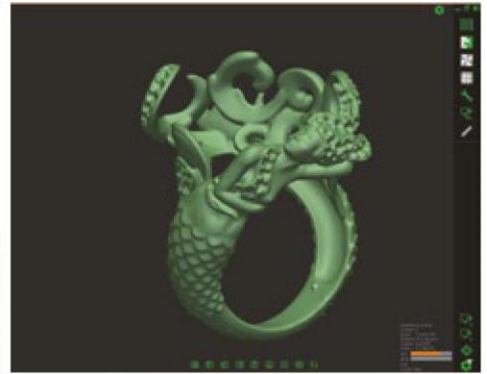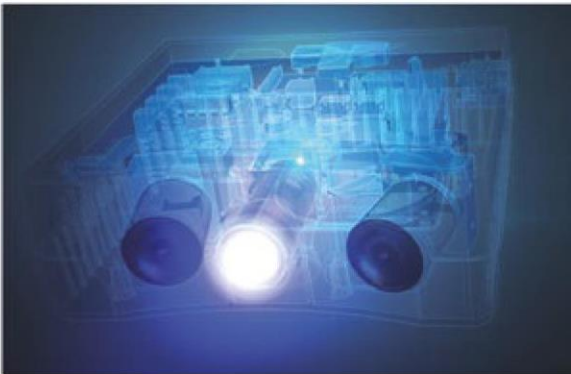
▸ Max Scan area: 60mm
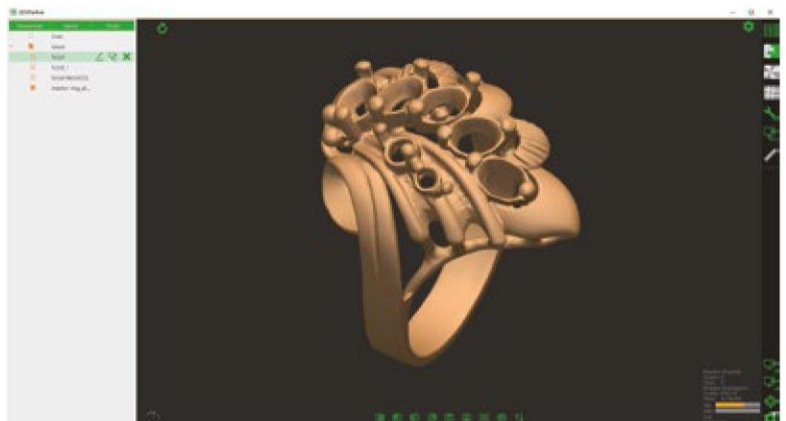
▸ Resolution: 0.018 mm

Object size: 15 x 15 x 7 mm

Scanning Sensor

▸ Optical structure-light method (phase-shifting)

▸ Using high-performance industrial stereo camera, even the smallest detail can be captured with repeating accuracy

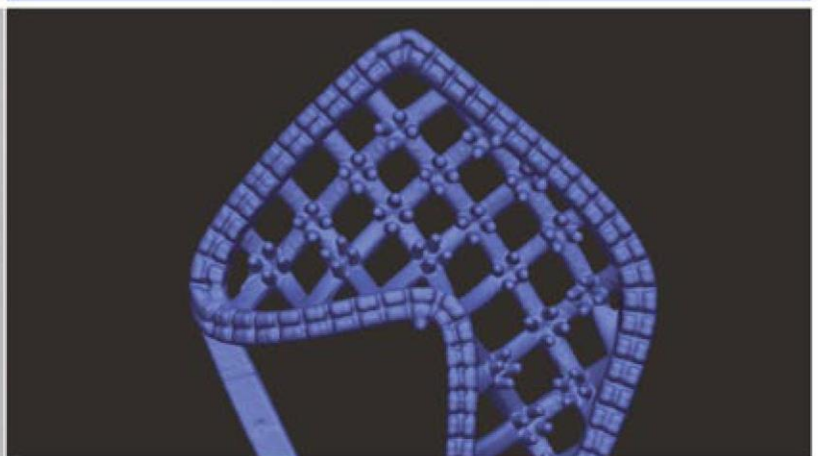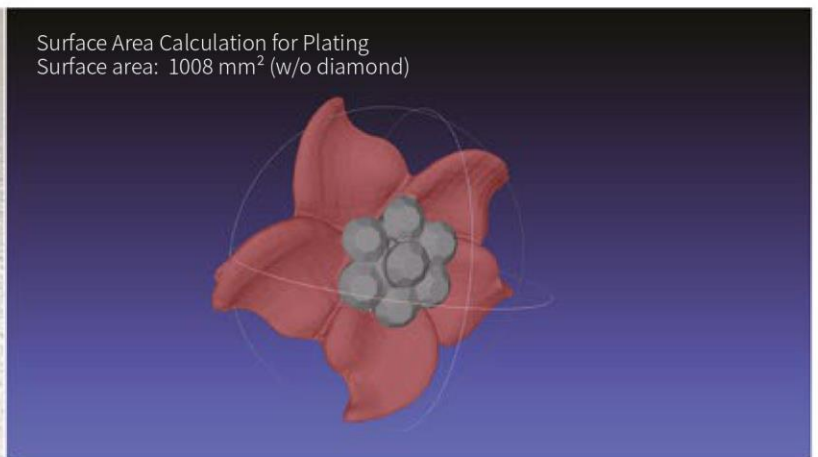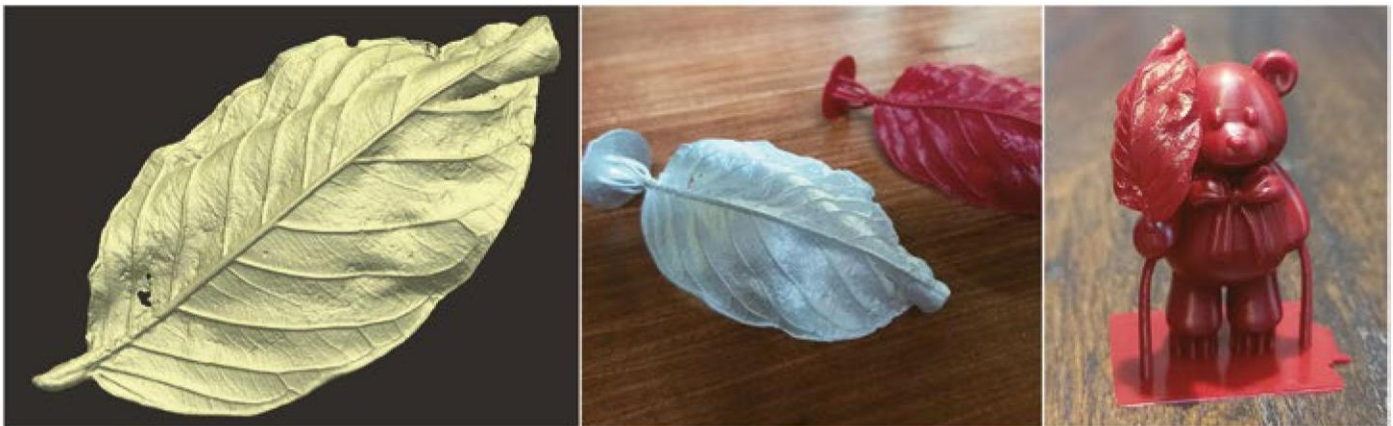▸ Auto adaptive exposure level helps you find the optimal exposure level for the best result

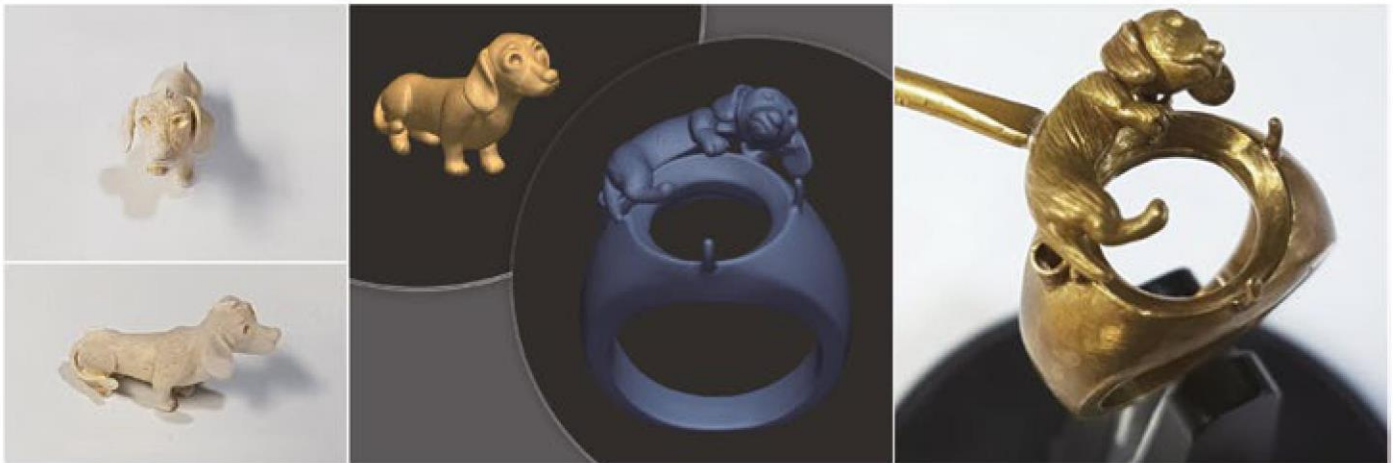## 3DX Scan Software

▸ Proprietary software for Falcon3DX, optimized for jewelry applications

▸ Super easy-to-use software interface enables jewelers to use 3D scanner like a professional

▸ Texture scanning (OBJ format) adds even more information to the digital jewlery data

Design Use Cases

Surface Area Calculation for Plating
Surface area: 1008 mm² (w/o diamond)

Specification

아보르시스템   서울특별시 강서구 마곡중앙4로 18, B동 5층 502호 / 02-2663-7772 / jacob.choi@ahbor.co.kr   /   www.ahbor.co.kr

Product	Non-contact optical 3D scanner (stereo vision)	
Camera	2MP	5MP
Scan Volume (FOV)	Standard: W96 x H70 x D70 mm	High: W96 x H70 x D70 mm Ultra: W48 x H35 x D35 mm
Point Distance	0.06 mm (Standard)	0.036 mm (High) 0.018 mm (Ultra)
Dimension	295 x 475 x 340 mm	
Weight	15 kg	
Data Output	Polygon mesh STL, OBJ	
Input	110-240 V / 50-60 Hz	
Interface	USB 3.0	
O/S	Windows 10 (64-bit)	
Compatibility	Jewelry CAD SW (Z-Brush, Rhinoceros, Matrix, 3Design etc.)	

Scan Sample Data

Standard   **High**   **Ultra**

Object size
37 x 35 x 12 mm

AHBOR

아보르시스템   서울특별시 강서구 마곡중앙4로 18, B동 5층 502호 / 02-2663-7772 / jacob.choi@ahbor.co.kr   /   www.ahbor.co.kr