



QRS
Quick Response System

Quick Response System

Q3D Vision

<https://www.qrsystem.co.kr>

◆ High speed Q3D Vision developed for the first time in Korea

Structured Light Projection

◆ Q3D Vision Main Function

- 1) 3D Point Cloud + Mesh Data
- 2) High- Speed 3D Scanning
- 3) Improved precision by matching 3D drawings



Q3D_IS_3.2(Standard Model)

HALCON
a product of MVTec

◆ Q3D OS 5.0 Ver. Tilt Adjust Function

◆ Q3D Vision



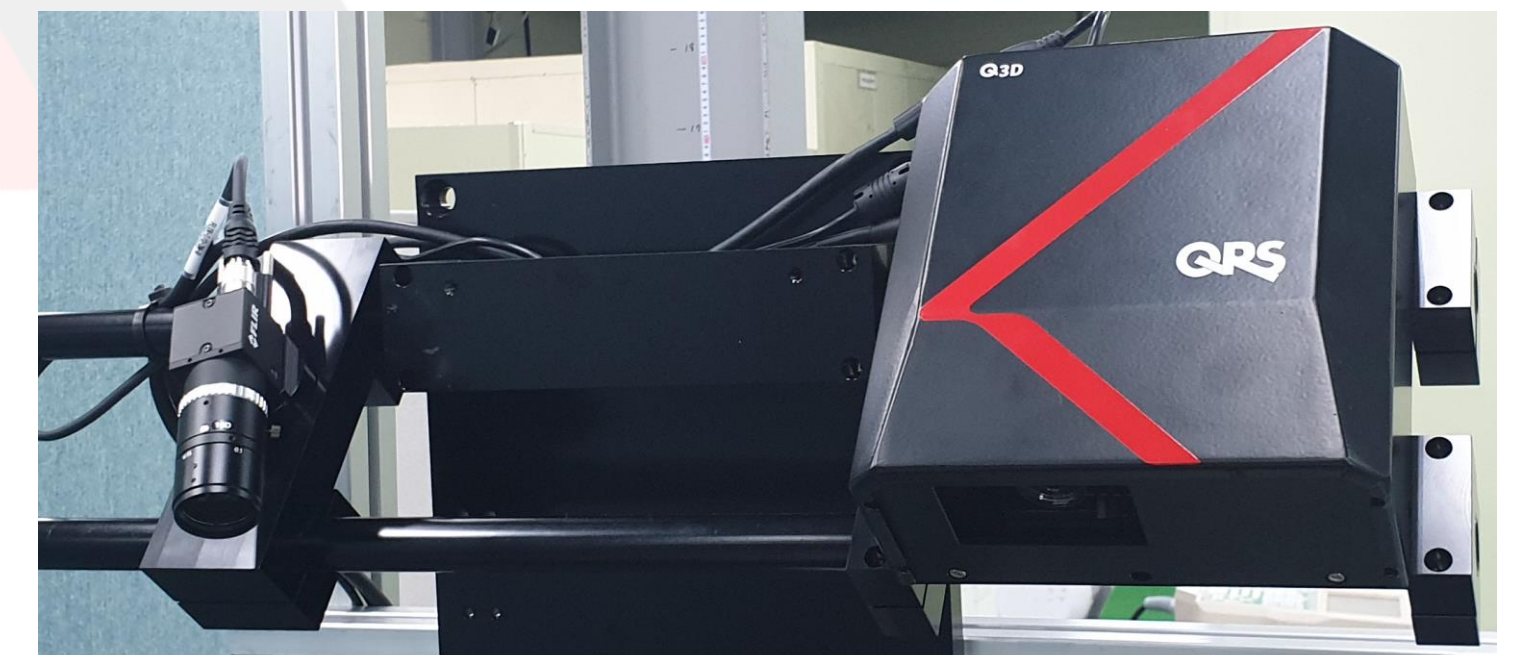
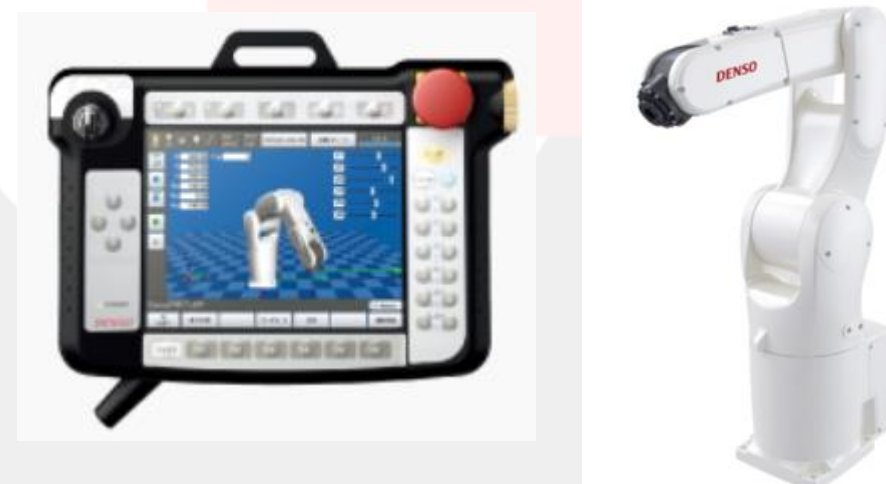
◆ Control PC



USB 3.1

LAN
TCP/IP

◆ Robot Controller

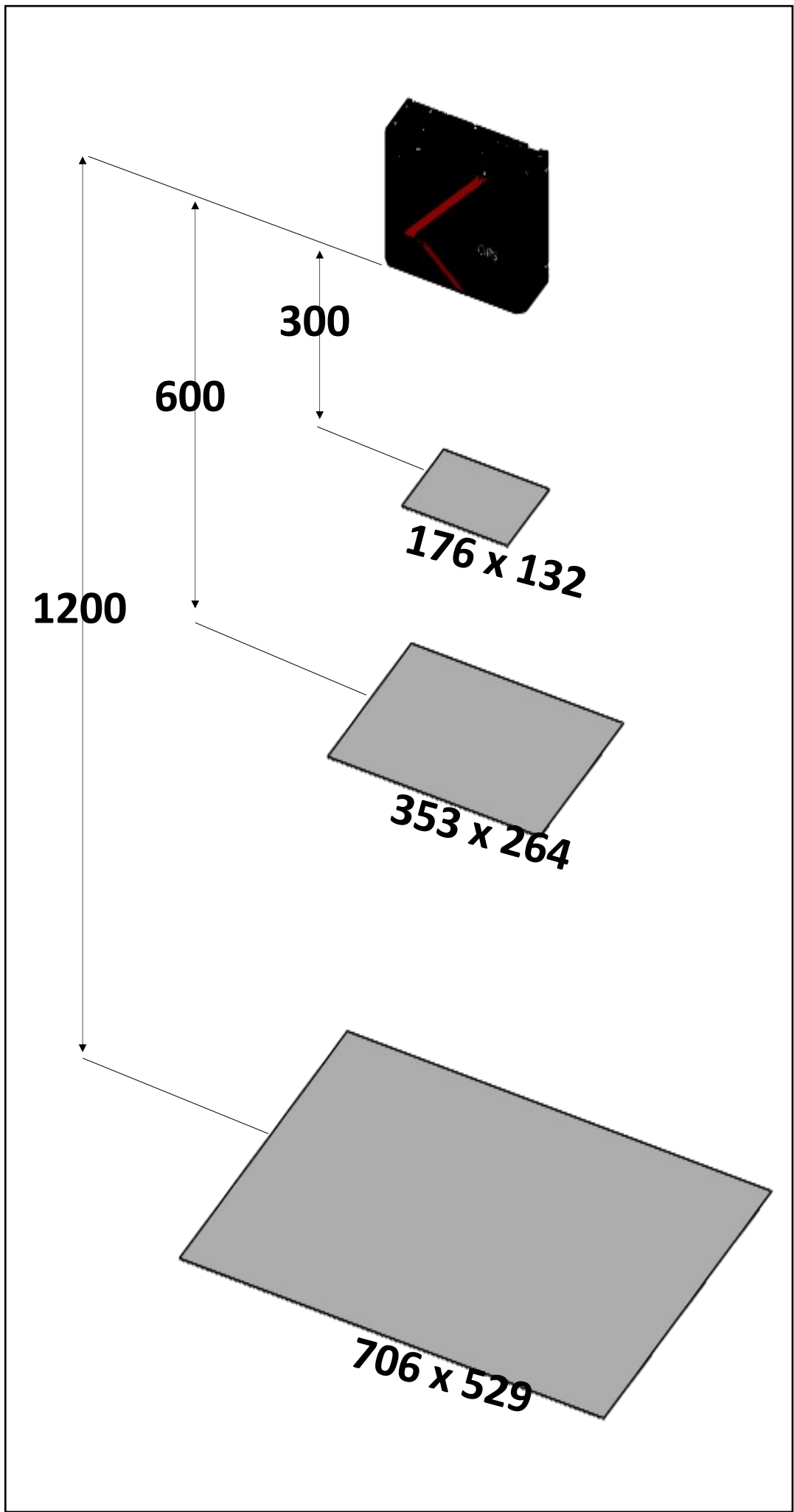


Q3D_OS_5.0

Q3D Vision Model Specification

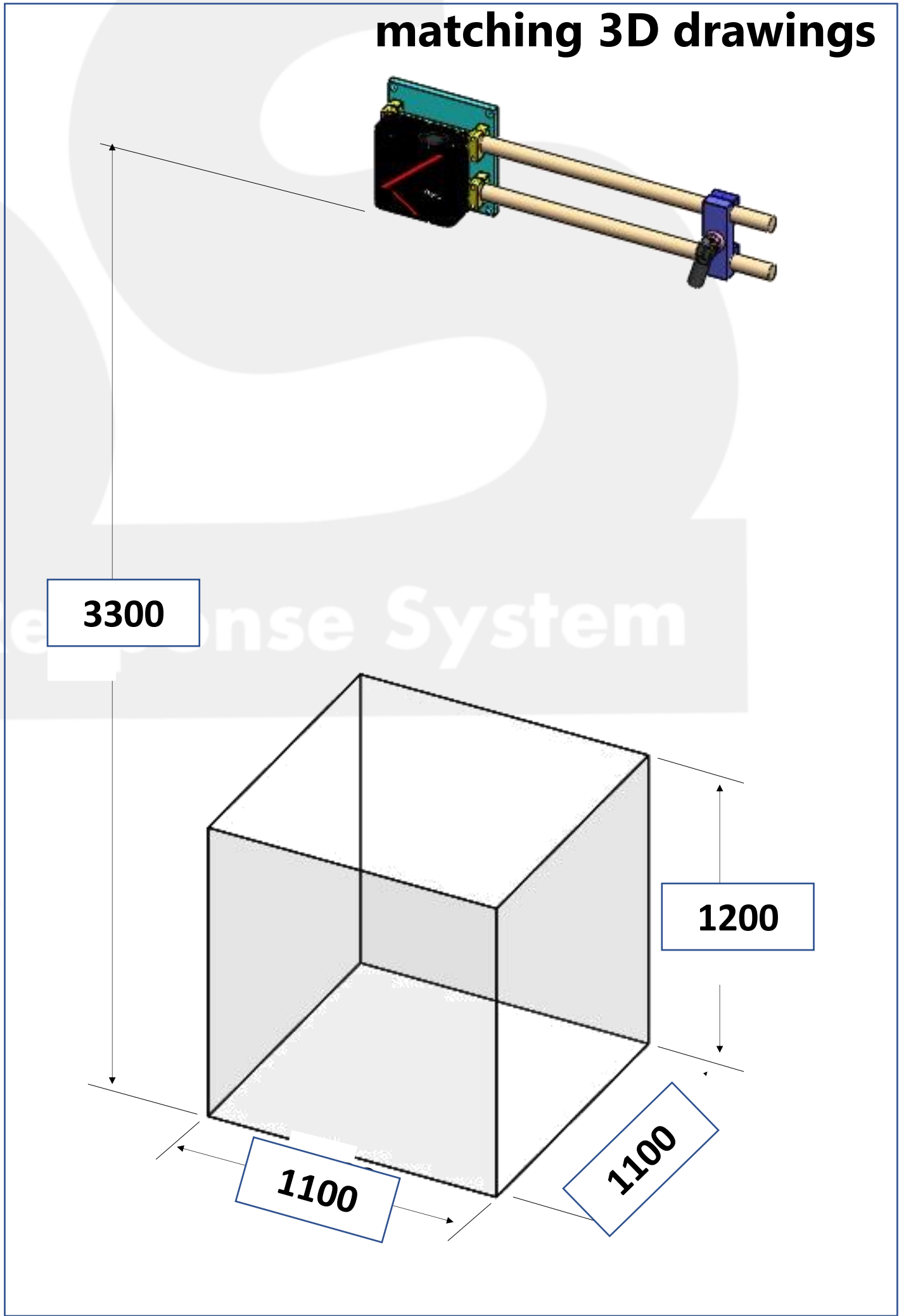


❖ Q3D_IS_3.2(Standard) FOV



Bin Picking Specification		
Module Name	Q3D_IS_3.2(Standard Model)	Q3D_OS_5.0
Pixel	3.2MP (117 FPS)	5.0MP (75 FPS)
Resolution(1Pixel)	2048 x 1536 Pixel(3.45um)	2448 x 2048 Pixel(3.45um)
Scanning Range	176x 132~706 x 529mm	Max: 1000 x 1000x 1000mm
Working Distance(mm)	300/600/1200	Max:3300
Spatial Resolution(mm)	0.5 ~ 1	3~5
Scan Time(s)	< 0.3~	
Scanning Technology	Structured Light Projection	
LED light Lumens	RGB LED light 700 Lumens	
Robot to PC Connection	USB3.0	
Dimensions(mm)	232(W) x 160(D) x 80(H)	162(W) x 160(D) x 80(H)
Power	Project : 12V, 6A / Fan : 12V, 0.5A	
Weight	Within< 3Kg	
Safety & EMC	CE / KC	
Operating Temperature	0℃ to 40℃	

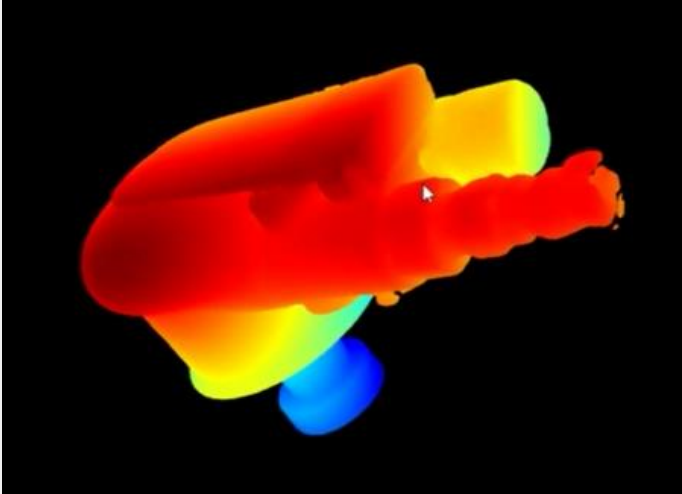
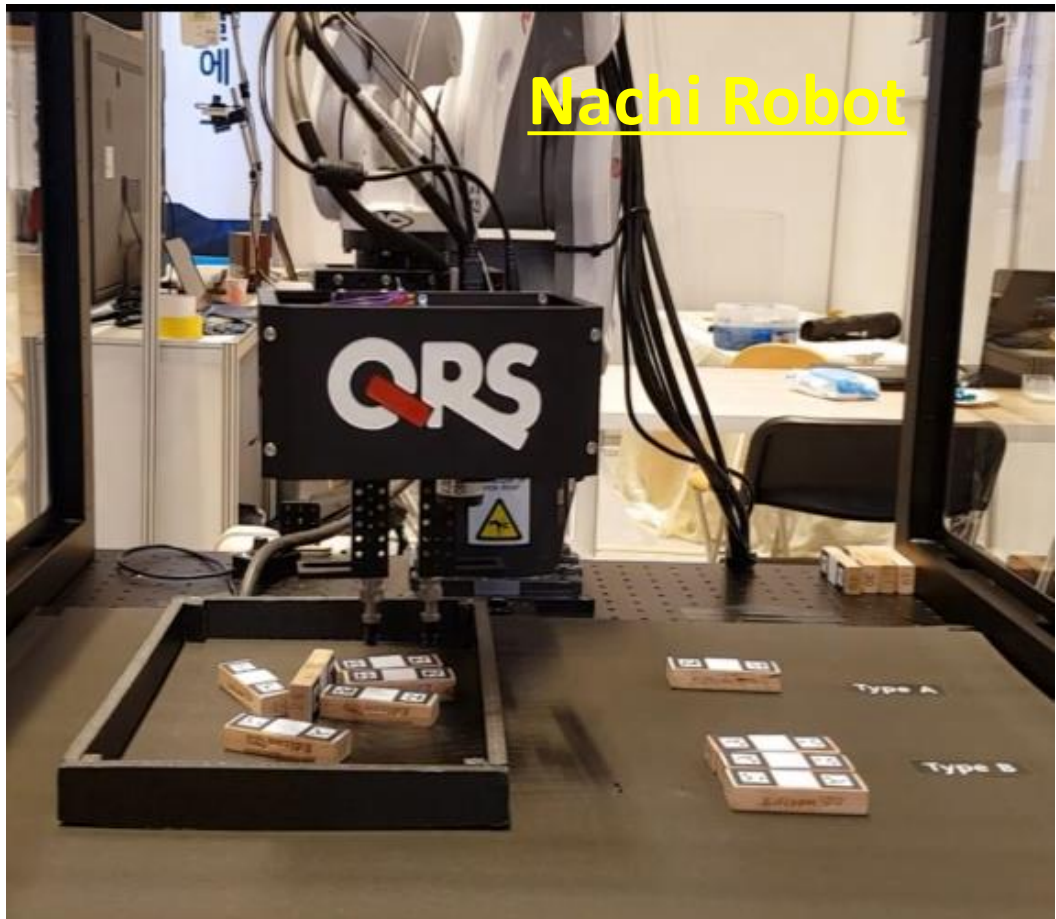
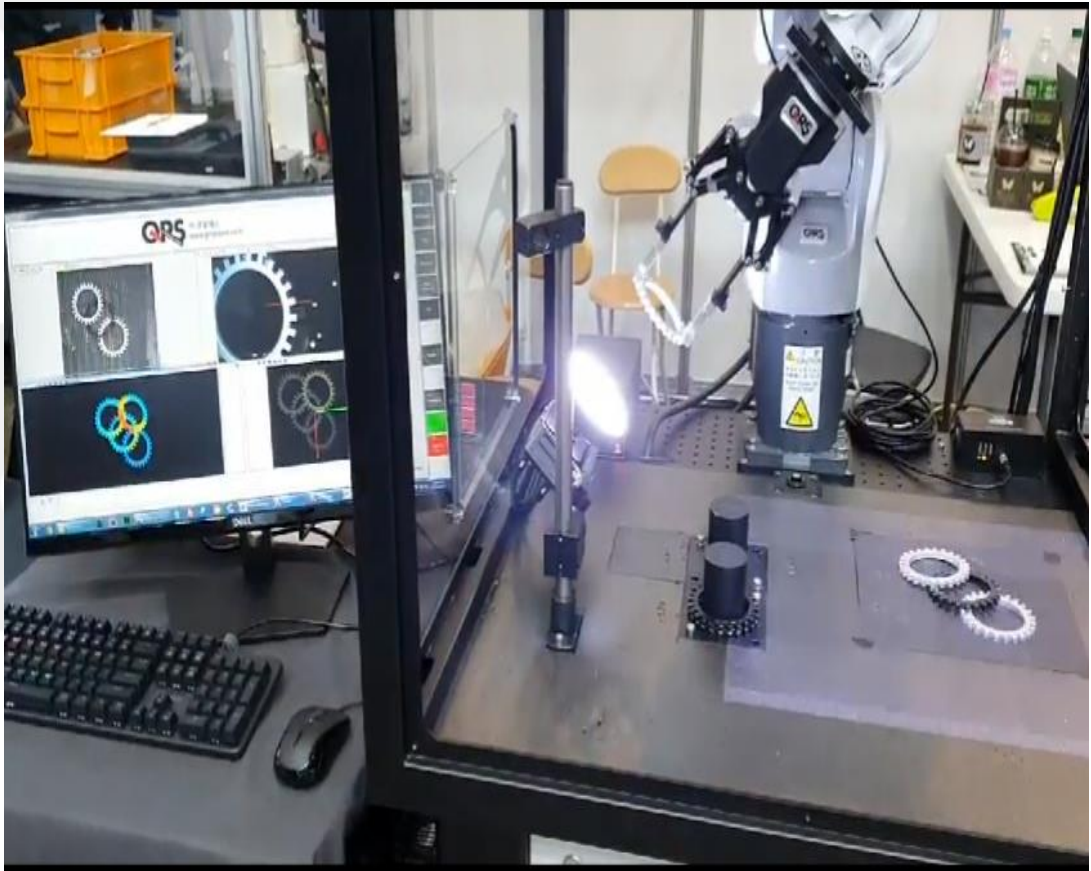
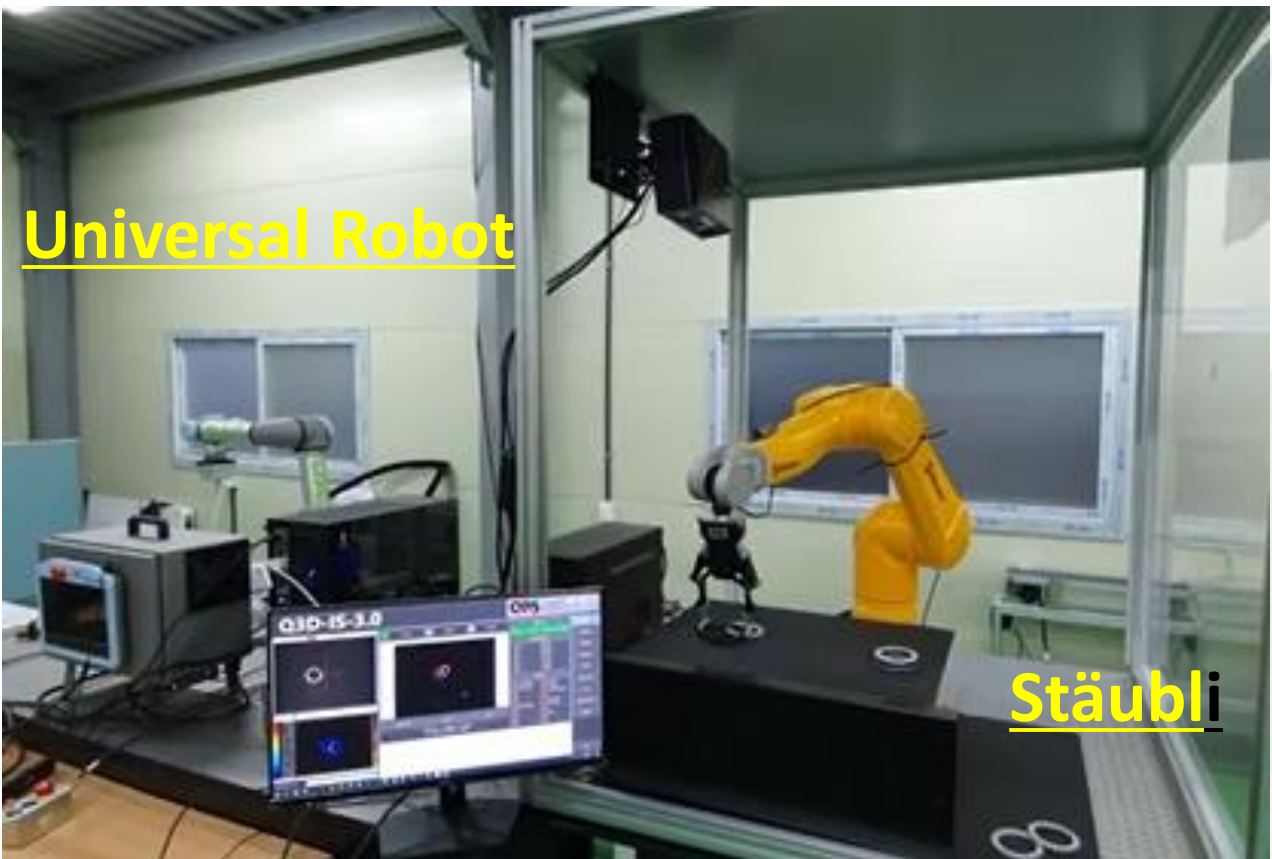
❖ Q3D_OS_5.0 FOV



Q3D Bin Picking System Technology Development / Apply



- ❖ First Deveipment completed
- QR Code Sort and Picking
- ❖ Secondary Random Picking
- ❖ Field test
- lock nut / Motorcycle Engine
- ❖ Field test
Car & Steering componet
- ❖ Dimensions inspection and location correction
function by 3D / 2D Interlocking



Q3D 3D Modeling



Thank you

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For more information

Visit: <https://www.qrsystem.co.kr>