

THE FACTORY AUTOMATION COMPANY

FANUC

# 3D VISION SENSOR

New possibilities for  
intelligent robot applications

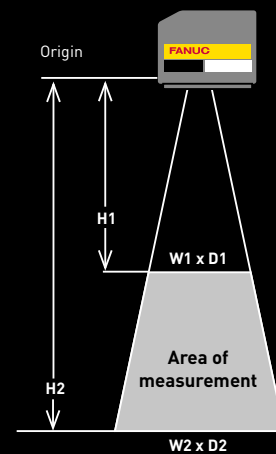


## Your benefits:

- compact 3D vision sensor that connects straight to the robot
- lightweight, space-saving and versatile
- high 3D data resolution and quality in very short acquisition time
- out-of-the-box assembly
- simple installation and connection
- different models available for various 3D measurement areas

## Faster setups and maximum uptime

Offering new possibilities for visual applications, the new FANUC 3D Vision Sensors can recognise a wide range of difficult-to-detect objects including shiny, multi-coloured or semi-transparent items. Mechanical installation is easy, straight out of the box, and setup wizards reduce system setup time. Complete integration into the robot means there are no disturbing interfaces to external devices, wiring or additional costs. Teaching is quite simple and using the graphical interface on *iPendant Touch*, it can be done on the shop floor even without PC. FANUC reliability and a design that keeps parts to a minimum, ensure maximum uptime.



Technical features			3DV/70	3DV/200	3DV/400	3DV/600	3DV/1600	
Model - specific	Maximum 2D- and 3D- resolution	pixel	870 x 950	1060 x 950	1104 x 950	1104 x 950	2208 x 1920	
	Acquisition time (w/o exposure time)	ms	70	70	70	70	280	
	Measurement area	W1 x D1 @ H1	mm	56 x 70 @ 167	124 x 124 @ 302	268 x 262 @ 645	576 x 499 @ 1245	1299 x 1223 @ 1448
		W2 x D2 @ H2	mm	83 x 92 @ 223	219 x 199 @ 492	527 x 460 @ 1145	804 x 697 @ 1745	3258 x 2843 @ 3448
	Connection cables		1	1	1	1	2	
Outer dimensions	mm	154 x 133 x 51	154 x 133 x 51	154 x 133 x 51	154 x 133 x 51	234 x 198.2 x 70		
Weight	kg	1.1	1.1	1.1	1.1	3.2		
Common	High quality 3D imaging of various difficult surfaces		●	●	●	●	●	
	Support snap-in-motion and visual line tracking		●	●	●	●	●	
	Integrated blue LED light for 2D vision		●	●	●	●	●	
	Operating temperature	°C	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	
	Protection class		IP67	IP67	IP67	IP67	IP67	
	Mountable on the robot		●	●	●	●	●	
Connectable number of sensors		27	27	27	27	27		

## Adaptable solutions for every application



### Assembling

Efficient, error-free kitting of components for delivery to an assembly point.

### 3D Bin Picking and Depalletizing

Enables robots to recognise and pick up randomly positioned objects – including loose unsorted parts, irregular castings, irregularly-shaped sacks and packaging – straight from a bin or pallet.

### Sorting, placing and loading

Fast item recognition across a range of applications including machine tending, assembly and packing.

### 3D Visual Line Tracking

Enables robots to recognise and pick up randomly piled parts on a moving conveyor using *iRPickTool*.

### 3D Presence/Absence Check

Depth information provided by 3D imaging makes it possible to recognise some objects not visible in 2D images.