

THE FACTORY AUTOMATION COMPANY

FANUC

# 3D VISION SENSOR

New possibilities for visual handling and bin picking



## Your benefits:

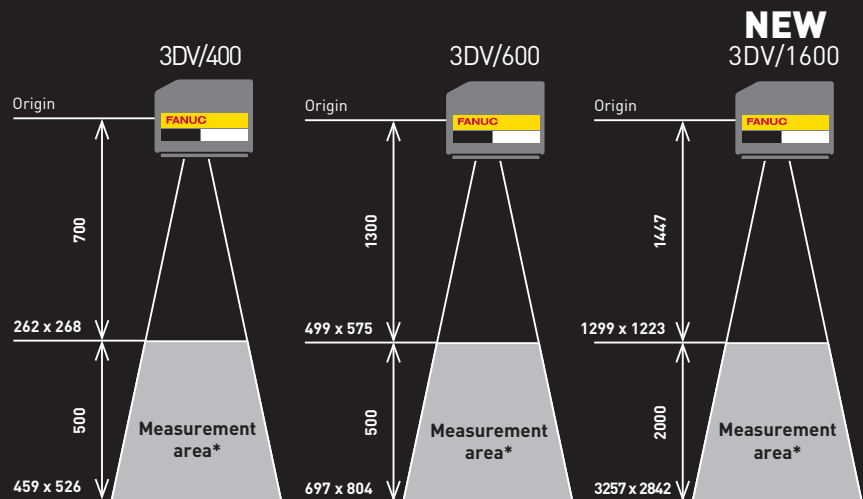
- compact 3D vision sensor that connects straight to the robot
- lightweight, space-saving and versatile
- high 3D data resolution and quality in very short acquisition time
- out-of-the-box assembly
- simple installation and connection
- different models available for various 3D measurement areas

## 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

- robot- or fixed-mountable
- high quality 3D imaging of shiny, multi-coloured or semi-transparent objects
- support snap-in-motion and visual line tracking
- with integrated LED light for 2D vision
- with IP67 level protection
- connection by single cable (3DV/400, 3DV/600)
- high resolution:
  - 1104 x 950 (3DV/400, 3DV/600)
  - 2208 x 1920 (3DV/1600)
- quick acquisition:
  - 100 - 300 ms (3DV/400, 3DV/600)
  - 300 - 700 ms (3DV/1600)



\*All dimensions in mm.

## 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.