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
Faster setups and maximum uptime

Offering new possibilities for visual applications, the new FANUC 3D Vision Sensor 3DV/400 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 even be programmed on the shop floor without PC. FANUC reliability and a design that keeps parts to a minimum, ensure maximum uptime.

Technical features

- robot- or fixed-mountable
- field of view: approx. 300 x 400 x 300 mm
- high 3D resolution: 950 x 1104
- better 3D images of shiny, multi-coloured or semi-transparent objects
- quick acquisition: 100 - 300 ms
- supports snap-in-motion
- same single cable as 2D camera
- IP67 protected
- with or without auxiliary integrated LED light

Adaptable solutions for every application

Bin picking
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.

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

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

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

Finding workpieces
Identifies workpieces not seen in 2D images due to low contrast or a noisy background.