

3D Robot Guidance with One Camera: SMART MONO3D



NEW Smart Sensor for Stand-Alone operation

- Enhanced Camera Accuracy
- New User Experience
- Reduced Setup efforts

Requirements

- Manufacturing flexibility requiring the ability to switch between different product variations
- Robot guidance and precise 3D object localization to grasp loosely fixed items
- Minimum installation material

Solution

„Plug & Automate“ SMART MONO3D Robot Guidance technology for:

- Precise robot guidance with minimum effort
- Shortening of assembly times
- Simple mechanical and electrical configuration
- Reduction of equipment outfitting costs
- Simple and time-saving installation

Applications

- To unload parts from palettes or containers
- To position parts for assembly
- To feed parts to a machining center in correct position
- To exactly position the laser marking unit
- To guide the robot for glue seam application

Advantages

- Increased tolerance for part positioning
- Considerable savings in equipment outfitting
- Short installation time
- Low space requirements and ease of integration in confined spaces
- Low operating costs
- Return on Investment achievable in the shortest time



Basic Features

- Intuitive user interface for product configuration
- Fixed or robot mounted
- Multi-Sensor Setup for enlargement of measurement volume
- Integration in practically all production and controlling processes
- Wide range of covered volumes, from a few mm³ to several m³
- Accuracy down to a few tenths of a millimeter

NEW Features

- Intelligent Sensor - Complete functionality on-board
- Stand-Alone operation - No external Processing required
- New User-Experience – Sensor setup and control by handheld devices
- Cloud / Edge integration for centralized control and maintenance of all installations in a factory
- Wireless interfaces and OPC UA protocol support
- Ready for Industry 4.0

Software

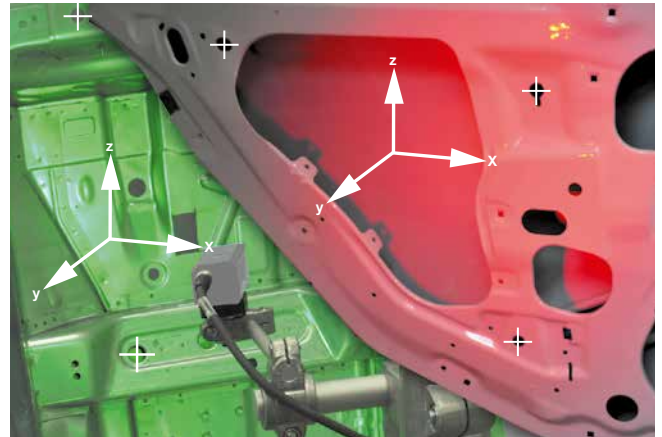
Ease-of-use:

Only a few steps to the finished application.
Intuitive parameterization at the factory floor in modern design.

- Point and click, touch, configure and test
- User-interface in modern design
- Ease-of-operation
- Clear workflow visualization
- Guided navigation
- Simple, intuitive set-up for all communication channels
- Automated sensor and robot calibration
- Intelligent image processing tools
- Integrated plausibility checks

Ready for Robot Communication

Fully integrated ready-to-communicate modules for all major robot brands.



Plug & Automate: New User Experience – Sensor setup and control by handheld devices

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