

SPS IPC Drives 2013 (Hall 7, Stand 380)

3D-based robot technology: Adaptive handling for Mitsubishi Electric robots

Nuremberg/Ratingen, 26 November 2013

Visitors to the Mitsubishi Electric stand (Hall 7, Stand 380) at this year's SPS IPC Drives will be able to experience live the latest developments in the field of 3D-based robotics. Mitsubishi Electric, along with partner isys vision GmbH, will be presenting the RoboView 3D stereo vision system that allows adaptive handling by MELFA robots. For the trade fair, the system has been integrated in one of the new RV-4FM articulated robots from Mitsubishi Electric.

RoboView 3D from isys vision allows Mitsubishi Electric robots to alter their predefined paths, to see the room and act adaptively. The key component of RoboView 3D is a compact stereo vision camera with an easily configurable image-processing system. With this, certain motion sequences such as gripping or stacking processes can be designed to be self-adapting within the robot controller and adapted to the environment which has been captured beforehand. Before an image is captured, the robot controller transmits the camera position to the vision system whereupon the object positions and dimensions as well as alignment will be calculated directly as robot system coordinates.

For example, situations where there are parts indeterminately lying on top of each other will push conventional 2D solutions to their limits as a rule. Spatial information is required in order to be able to clearly determine positions and identify objects. RoboView 3D enables robots to

identify parts accurately even in these types of situation and to transfer them from one workstation to the next, store them or sort them. The solution that will be presented at SPS IPC Drives will showcase the stereo vision system in one of the new MELFA RV-4FM robots from the F series.

Photo captions



Picture 1: The RoboView 3D stereo vision system from isys vision integrated in one of the new RV-4FM articulated robots from Mitsubishi Electric



Picture 2: RoboView 3D from isys vision allows Mitsubishi Electric robots to alter their predefined paths to see the room and act adaptively.

About isys vision GmbH & Co. KG

Freiburg-based company isys vision has been actively helping to shape the machine vision market as a system integrator for industrial image-processing applications for more than twenty years.

isys vision has established itself as a reliable partner for implementing complex, high-precision processes connected with control, positioning and inspection for mechanical engineering companies.

With RoboView 3D, the company has developed yet another new technology for use in industry which is both innovative and practical.

isys vision systems and solutions are in use all over the world. Based on a combination of image processing know-how, software development expertise and a high level of machine and control competence, isys vision offers a unique portfolio of services that is continually being expanded.

Further information:

www.isys-vision.de

About Mitsubishi Electric:

With over 90 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, as well as in products for the energy sector, water and waste water, transportation and building equipment.

With around 121.000 employees the company recorded consolidated group sales of 29,5 billion Euro* in the fiscal year ended March 31, 2013. Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

Mitsubishi Electric Europe B.V., Factory Automation European Business

Group (FA-EBG) has its European headquarters in Ratingen near Dusseldorf, Germany. It is a part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan. The role of FA-EBG is to manage sales, service and support across its network of local branches and distributors throughout the EMEA region.

**Exchange rate 120,69 Yen = 1 Euro, Stand 31.3.2013 (Source: Deutsche Bundesbank)*

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