

New Contact Image Sensor from Mitsubishi Electric is at VISION 2016 Expo

Ratingen, Germany, 25th of August, 2016

The new high-speed contact image sensor (CIS) offers a compact, distortion-free alternative to line scan cameras. It will be featured on the Stemmer Imaging GmbH exhibition stand E52 situated in Hall 1 at VISION 2016 in Stuttgart from 8-10 November and supported by Mitsubishi Electric representatives at the show.

Mitsubishi Electric has responded to the needs of the surface inspection market, with the launch of a high-speed version of its contact image sensor (CIS), distributed under the name Mitsubishi Electric Line Scan Bar. Offering high quality, distortion-free image acquisition right up to the edges of the material, the new CIS scans surfaces at speeds up to 1000m per minute and above, in a compact, easy to install format.

For all machine builders, system integrators and end users, the CIS offers an ideal alternative to line scan cameras for inspecting defects on flat surfaces. Compared with a line scan camera, the CIS is simple to install, held in place directly above the surface of interest at a fixed height, with all LED illumination and optics built in. [Mitsubishi Electric](#) estimates that, with just four screws and four cables, the CIS can be installed in just a few minutes, compared with the hours or even days that might be required to install and align a line scan camera system with its complex set-up and numerous ancillaries.

By being close to the material instead of mounted high above, the CIS

also helps to significantly reduce the overall footprint, and therefore the costs and complexity of the machine. Ease of installation and removal means maintenance and support requirements are also significantly reduced. This benefits not only machine builders but also end users who now no longer need to have specialist engineers on standby and can be assured of minimal downtime in the event of a problem.

Typical application areas for the CIS include the print and thin film production industries, where it can be used to detect surface defects on paper, plastics, fabrics, banknotes and even holograms. The CIS is available in a range of widths that match the most common sizes, and for larger material widths multiple CIS sensors can be cascaded side-by-side with seamless image acquisition right across the full width of the material. The CIS can also be used for the surface inspection of wood, glass and other materials. In addition, the CIS can form the heart of an automated optical inspection system for circuit boards.

Markus Köhler, Mitsubishi Electric Business Development Manager, comments: "The new CIS offers high quality image acquisition in the smallest footprint ever. Taking up so little space, and with its ease of installation and integration, the CIS is a solution that all machine builders, system integrators and end users have been waiting for. By addressing the widely appreciated challenges associated with using line scan cameras we have a potentially popular, game changing solution. With guaranteed distortion-free image acquisition right up to the edges of the material, and no need to sacrifice resolution for larger material widths - as you would have to with a line scan sensor. The CIS improves both defect detection and machine throughput; with this new high-speed version, we can match any line scan camera system for headline performance."

This latest development from Mitsubishi Electric will be supported in the

European markets by Stemmer Imaging, which is the preferred distributor for the contact image sensor. Stemmer Imaging GmbH will be showing the product to visitors at VISION 2016 in Stuttgart from 8-11 November.

Note:

See how Mitsubishi Electric is able to respond to today's automation demands:

eu3a.mitsubishielectric.com/fa/en/solutions

Image captions:



Picture 1: Mitsubishi Electric has responded to the needs of the surface inspection market, in particular within the print industry, with the launch of a high-speed version of its Mitsubishi Electric Line Scan Bar, contact image sensor (CIS).

[Source: Hunkeler AG]



Picture 2: Compared with a line scan camera, the CIS is simple to install, held in place directly above the surface of interest at a fixed

height, with all LED illumination and optics built in.

[Source: Mitsubishi Electric Europe B.V.]

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About Stemmer

STEMMER IMAGING is Europe's largest imaging technology provider with its head office in Germany (Puchheim near Munich) and subsidiaries in many European countries. The company mission is to provide users and developers of imaging technology with a competitive advantage by adding value in the supply of quality components, expertise and support.

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 135.000 employees the company recorded consolidated group sales of 38.8 billion US Dollar* in the fiscal year ended March 31, 2016.

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 113 Yen = 1 US Dollar, Stand 31.3.2016 (Source: Tokyo Foreign Exchange Market)*

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