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Industry

Order boom for photovoltaics

Inspection systems from VITRONIC are used in the mean time by three photovoltaic companies: A large manufacturer of solar cells has already ordered 48 camera systems from VITRONIC for the next production line.

For a further customer, currently several VINSPEC^{solar} systems have been produced. VITRONIC succeeded in entering the booming branch with the automatic module production of a leading photovoltaics company. There VITRONIC began operating the first robot vision and surface inspection systems. This was implemented together with a robot plant builder which in the mean time cooperates closely with VITRONIC.

In the automatic solar cell and module production, VINSPEC^{solar} makes it possible to inspect the solar cells for individual characteristics after each relevant production step. The standard system inspects and classifies among other things contours and measurements, surfaces, printing, color, the position of strings and modules as well as the completeness of cells in the string.

Here you can find further information on optical quality inspection of solar cells and solar cell modules.

Process control with 3D weld seam inspection

Modern machine vision systems from VITRONIC make it possible today to inspect weld seams fully automatically. More than 80 VIRO^{wsi} systems installed around the world make qualitative statements on the quality of the seam. Now the three dimensional weld seam inspection can also be used for process control: Automatic protocol files document all fault work, fault frequencies and fault positions. Through defined time periods, conclusions can be made about the previous welding process and therefore the production can be optimized. VIRO^{wsi} decisively contributes to reducing faults and so to less rejection, less post work and a higher seam quality. In addition statistic evaluations allow you to determine individual warning limits. The user can take corrective steps in the process before faulty seams result. Assessment follows automatically and does not underlie subjective criteria. Furthermore the determined data can serve as a basis for automatic post work. VIRO^{wsi} classifies faulty points and shows in detail the position and the type of the fault. **You can find more here.**

Logistics

First VITRONIC hand held camera

Introduced for the first time at the Post Expo in Amsterdam, the interest was immediately enormous: the new hand held camera exactly meets the requirements of the customers. Because with it you can identify product, packaging and customer oriented data on packages and goods.

The camera, which weighs just 800 g, is a supplement to the well-known VIPAC system and in addition to barcodes also reads writing (OCR). It is used everywhere where identification with machines is not possible: for example with wave shaped goods or packages which cannot be processed by machine.



Logistics

Estonian Post uses VIPAC^{ds} system

The Estonian Post is using a scanning system from VITRONIC at a post distribution center in Tallinn: VIPAC^{ds} (dimensioning and scanning) is installed above a conveyor. At speeds of 1.65 m/s, 1D (code 39 and code 128) and 2D codes (DataMatrix) are scanned and the volume of the package is determined. The volume measurement system (Volumec HS2) is calibrated. According to the operator information, VIPAC is the first calibrated system in Estonia.



VITRONIC in-house

Robot construction sets for schools in Wiesbaden

Last fall, two schools in Wiesbaden received robot construction sets. Representatives of the Humboldt and the Gutenberg schools visited VITRONIC and are now happy about the new technology. In 2003, the two schools received several robot construction sets. Since then, the "toy" has been regularly used at project weeks and in working groups. Partially as of the fifth grade, students begin programming the robots. With the new, additional construction sets, the schools can better serve the demand. At the completion of the project days, the young students also showed their parents what they had taught the robots.

New appearance on the internet

VITRONIC presents itself with a revised online offering. The re-launch contains both the expanded contents as well as the presentation with a new appearance.

At www.vitronic.de you will intuitively be lead through the areas of industrial machine vision. Current products in the area of industry, logistics, traffic technology, 3D body scanning and safety are shown in a practical manner. You receive detailed contents and expanded functions like for example an extensive download area or a branch related search function. In addition the online offering offers information on topics which span the field. Thus aspects like the company profile as well as the news area have been developed. We wish you a lot of fun while surfing.

Dr. Stein new CEO

Dr. Ing. Norbert Stein has been selected as the CEO of the VDMA Fachverband Robotik + Automation for three years. Thus for the first time a representative of industrial machine vision is the CEO of the professional organization. Norbert Stein follows Joachim Rohwedder, who left this voluntary position after three years.

Donation to KinderKrebs Hilfe

At the end of last year, VITRONIC supported the Deutsche KinderKrebshilfe (German children's cancer aid) with a donation of € 10,000. The organization is committed to fighting cancerous diseases among children. Among the projects which they support are the construction and renovation of children's cancer centers, the development of new therapies as well as the building of parent's houses and apartments near the hospitals.

Traffic Technology

PoliScan^{speed} as stationary unit

The digital speed measurement system PoliScan^{speed} is now also available as a stationary device. The system measures several vehicles traveling parallel, clearly orders offences and digitally

documents these. Up to two measurement and documentation units in one pillar control the speed of both traffic directions. For this no inside road construction work is necessary.



Stationary speed enforcement with PoliScan^{speed}

Exhibition Preview

VITRONIC will be exhibiting at the following shows this spring:

- **European Police Congress**
13.-14.02.2007, Berlin
- **KOMCOM Nord**
27.-28.02.2007, Hanover
- **Duisburger Extrusionstage**
13.-14.03.2007, Duisburg
- **Intertraffic China**
15.-17.03.2007, Beijing, China
- **ICE International Converting Exhibition**
27.-29.03.2007, Munich

Information on booth locations can be obtained from our website www.vitronic.com