Report from the Stuttgart Machine Vision Show:

CMOS Imager Innovation International



Munet Ancion and Patrick Buve of Euresys intro Europe's firs Camera Link hardware.

n a slight variation on the old slogan, the U.S. Automated lmaging Association apparently took the line "If you can't beat "en, get them to join" when it made a strong pitch to get European vision suppliers to join the AIA during an afterhours reception at Vision 2000 in Stuttgart, Germany.

The star of AIA's presentation was David Dechow, present of the Association, who gave a speech in German that drew loud appliasse when he completed it. He told Advanced maging that he has taken private lessons during the past, since he merged his company with German-based variety of the AIA's consideration of the AIA

As the show closed in Stuttgart, initial figures put the attendance at 5,200, an 8% increase over 1999, with an increase in foreign visitors from 15% to 18%. Exhibitors numbered 154 and were drawn from 17 different countries, making the event truly international in flavor.

CMOS INNOVATION

One of those non-German exhibitors was CSEM Qurich, which won the hotly contested competition for the best innovation with its very high dynamic range LinLog photo-sensing principle. This enables CSEM to claim high dynamic range, high-speed image sensing Mobetic CMOS imaging-based home surveillency via the Mac. with the world's best low-light level performance. The CMOS camera combines the advantages of linear response for low-light levels and logarithmic compression at higher illumination. The changeover point is controlled by software with a simple slider control in the user interface.

And here's some news: Peter Seitz, until very recently head of the Image Sensors Group at CSEM. Zurich, now heads the entire operation there, and indicated that the CSEM Mountain View range of cameras is likely to soon be the subject of a spin-off fino a separate company, following the example of other recent developments from the organization. More details can be found about the cameras at www.mountainview.ch, and about CSEM at www.csem.ch.

In fact, extensions of CMOS technology were among the notable demonstrations at the show, across international boundaries.

Integrated Vision Products of Sweden has teamed up with the Integral Vision/Stemmer Common Vision Box to provide a much-needed, simple user interface for the range of the established IVP systems, which are based on CAOS sensors with on-board multiple processors. The IVP MultiSense device can yield 22 and 3-D images in full color, if, required all from a single, high-speed sensor, IVPs Mats Codstorp pointed out that the range images are shown as variations in grey level, and these can be treated as if they were 2-D monochrom images for tasks such as template.





Michael Parakhin and "Module" Russia

matching, thus yielding 3-D pattern matching capabilities from standard 2-D software algorithms!

Other CMOS enthusiasts present at Suttgart were Belgian camera supplier CCAm Technologies and enson-degies and enson-degies and eston-degies and extra eston-degies and eston-degies

An alternative source of CMOS cameras is the **Institute for Microelectronics Stuttgart**, a really close-to-home exhibitor! See its Web site at: www.ims-chips.de.

And still on the subject of CMOS sensors, the latest "miniature" intelligent camera from Vision Components was on display in fully-developed form (a prototype was seen at the AIA Boston show in Aprill and attacted considerable attention. It is small enough to mount directly onto a bowl-feeder, so that it can fife instance) check for the orientation of emerging components, rejecting ones that are not as required; because if vibrates with the bowl, shapi mages are readily obtained.

Low-power consumption by its CN/OS sensor is a feature of a new surveillance system from start-up/Mobotix, www.mobotix.com, which can draw the one watt it needs from ISDN phone lines; ISDN being very widely in use earlier in private homes in Germany. Although Mobotix is itself a start-up, it was founded by Dr. Ralf Hinkel who had earlier founded and eventually sold a company that makes surveying

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Mith the new generation of image-enabled mobile phones one can imagine the system (which seets only DM1000 or DM1500 with dual cameras) automatically phoning the

owner of a holiday home and inviting him to watch it being hurgled or hurnt down on the phone The new "Camera Link" standard for high-speed links from digital output cameras to framegrabbers was much in evidence, following its official launch earlier at San Jose, Some of the CMOS-camera suppliers, we noted, were a little unhanny that the standard unlike IEEE 1394 does not carry its own power. It seems that the standard was set by suppliers of CCD. cameras and of framegraphers, who realized that the latter could generally not supply enough power for CCD cameras. ignoring the fact that CMOS cameras with much lower nower

requirements could well have been supplied adequately Nevertheless, the standard was certainly welcomed, and we can expect its rapid adoption in Europe, Belgian framegrabber manufacturer Furesys featured the link prominently: they're apparently the first European framegrabber supplier to adopt it



EDOM EASTERN ELIPOPE

Interestingly three entries from Fastern Furone showed considerable conhistication and commercial notantial A traffic monitoring system frame-monitoring system Centre in Morcour devol oped in conjunction with Samsung of Korea annears to be able to classify vehiclas into motorcycles parcongor care and want buses small trucks and nick-ups and large trucks

It operates across multiple lanes and provides flow, velocity. headway (average distance between vehicles) and occupancy (percent of time some vehicle is in field of view). See

Two entries from Hungary also appeared well-developed and claimed existing commercial success. A passport "reader" from Dyawell 1td., www.chawell.com. not only reads the machine-readable page of passports, but captures images in infrared and ultraviolet light to allow a range of security checks to be made automatically. Adaptive Recognition Hungary provides a software package for identification and recognition of vehicle license plates, claimed to be country and type independent, which of course is important in Europe with its multitude of national license-plate standards. The product is known excruciatingly as "Carmon"! No "www." but their fay is +36 1 222 9242

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