

Together, we
push technology
forward.

IDS

New high performance sensors in 2012. including a NIR

IDS has lots in store for the Vision Market in the future. They are expanding their USB 3 uEye CP sensor portfolio in the next few months with modern and powerful CMOS and CCD sensors from e2v, CMOSIS and Sony.

IDS will also introduce a new infrared sensor from e2v. The EV76C661 offers excellent light sensitivity and performance in the Near Infra-red Range (more than 50 % at 850 nm) and a maximum quantum efficiency (QE) of over 80 %. This is almost double the efficiency of conventional NIR sensors. It's ideal for all applications that require great sensitivity within the higher NIR range.

The new sensor will be available for all camera families in the second half of the year.

IDS

USB 3 uEye CP serial production has started!

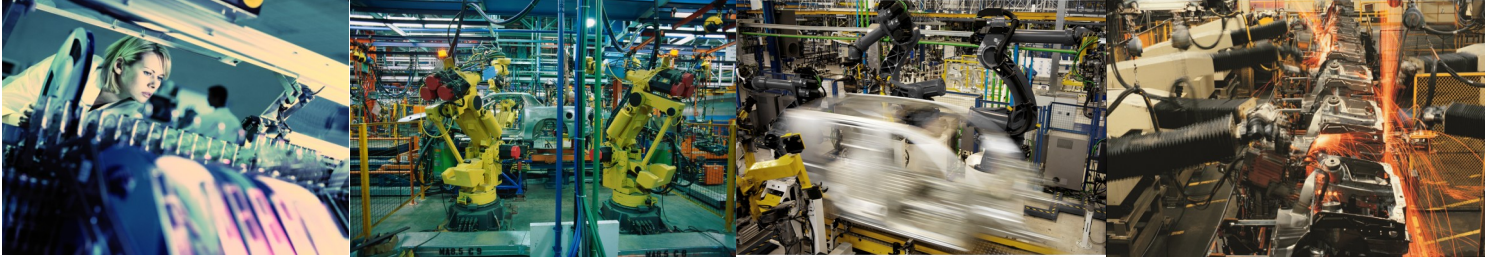
Each available with newly developed USB 3 uEye CP cameras equipped with a highly sensitive 1.3 Mpixel e2v sensor delivering 25 fps, this multi-camera system from **IDS Imaging Development Systems** features a total data rate of 250 MB/s, transferred via a single USB 3.0 cable to the host PC, keeping CPU load to 20%. In addition to common industrial applications, it can also be used in multi-camera and 3D systems, previously associated with more expensive solutions integrating either Camera Link or Firewire. Housed in a compact 29x29x29mm lightweight and robust magnesium casing, the cameras offer trigger, flash, and PWM as well as two GPIOs, which can be converted into such serial ports as RS-232 to trigger peripheral devices. Due to lockable micro USB 3.0 and Hirose connectors the camera is fit for use in rough environments: With a mere 1W power consumption it can easily be



integrated into Brightness corrections are realized by a 12-bit lookup table and hardware gamma. Furthermore, a 12-bit color depth offers a by factor 16 increased level of detail compared to the usual 8 bit. Hardware based data preprocessing and color calculation saves additional PC resources. The family will initially be offered with 1.3 Mpixel e2v sensor, as well as a WVGA and a 5 Mpixel sensor from Aptina. The new SuperSpeed USB 3.0 interface offers 400 MB/s data rate. Supporting all common operating systems, the software package allows mixed operation of USB 2.0, USB 3.0 and GigE cameras.

New software version 4.0 - downloadable from 15 March

Click [here](#) for a nice performance of IDS Imaging



Release of the new version HALCON 11 for June 1, 2012

As a unique feature, HALCON 11 presents the "Sample-based Identification". With this innovative technology, trained objects can be recognized only by characteristic features like color or texture, thereby eliminating the need to use bar codes or data codes for object identification purposes.

Furthermore, HALCON introduces new technologies and enhancements for 3D vision like "3D Surface Comparison", registration and triangulation of point clouds, and improved photometric stereo tools for superior 3D surface inspection capabilities.

HALCON 11 extends its data code reading functionality by supporting Aztec and Micro QR codes. Moreover, classification tasks are greatly simplified by using the "Automatic Feature Selection for Classification". Furthermore, the usability of HALCON's integrated development environment (HDevelop) is improved thanks to new features like the Profiler Tool and a new OCR assistant.

The speed of HALCON 11 is significantly improved by 16 additional operators supported by GPU computing and various faster algorithms. On top, many new market- and user-orientated code examples as well as detailed documentation are included. HALCON 11 now supports the Mac OS X operating system making HALCON's technologies available to Apple users for the first time.



Overview Machine Vision Exhibitions and Seminars 2012

Since more than a decade we have been involved in all phases of the realization Of Vision solution. This enabled us to build up a large knowledge base.

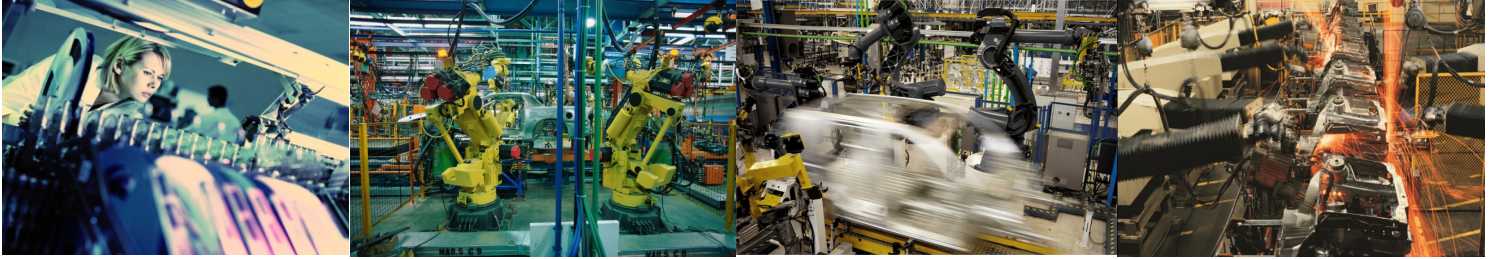
Our motto is "nothing beats know how".

Therefore we would be pleased to share our knowledge with you.
Please don't hesitate to register for our courses. Some reactions from previous sessions:

- Serious knowledge transfer
- Practical approach, very instructive
- Has provided me with an insight into the risks involved in a Vision Project
- Interesting approach, well communicated!"



<< [Info](#) >>



On June the 5th and 6th 2012 Data Vision will participate together with their certified partners on the Vision and Robotics fair at Veldhoven. If you visit our booth 28 you will discover top vision components and the opportunity to get connected to the most professional vision network in the Benelux.



Extra features for Grablink Full, DualBase, Base

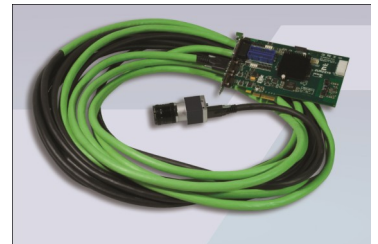
Euresys is proud to launch additional features for the Grablink Full, DualBase and Base cards.

New tap configurations providing support for the latest RGB cameras:

- BASE_3T8 for Grablink Base, Grablink DualBase and Grablink Full.
- MEDIUM_3T10 and MEDIUM_3T12 for Grablink Full.

New tap geometries:

- 1X3_1Y, 1X3, 3X_1Y and 3X for BASE_3T8, MEDIUM_3T10 and MEDIUM_3T12 tap configurations.
- 10X_1Y and 10X tap geometries for the DECA_10T8 tap configuration (Grablink Full only).



New, an I/O Cable for Grablink DualBase is now available. This accessory exposes on a bracket one of the two sets of IO lines available from one of the two internal I/O connectors of Grablink DualBase. Two I/O cables can be used simultaneously.



ART of Vision

Imaging is our AVT's daily business. It is also that of visionary artists around the world that use the possibilities of digital image processing to create art. Discover some of them with Eyes on Vision! This month: Jacob Sutton's L.E.D. Surfer.



Fashion photographer and filmmaker Jacob Sutton swaps the studio for the slopes of Tignes in the Rhone-Alpes region of south-eastern France. The electrifying film sees snowboarder Willem Hughes light up the snow-covered French hills at night in a bespoke L.E.D.-enveloped suit courtesy of designer and electronics whizz John Spatcher, creating an unreal, negative-like effect. > [watch video](#)

New registration or cancellation of this newsletter

Maybe one of your colleagues is also interested in this newsletter. They can [register here](#).

If you would like us to remove your name from our mailing list, [click here](#).

Visiting address:

Westlandseweg 190
3131 HX Vlaardingen
The Netherlands

Postal address:

P.O. Box 108
3130 AC Vlaardingen
The Netherlands

Contact details:

T +31 (0)10 460 80 65
F +31 (0)10 460 80 00
E sales@datavision.nu