

SHIFT INTO TOP SPEED WITH USB 3 uEye® CP CAMERAS

Fast, powerful, next generation interface



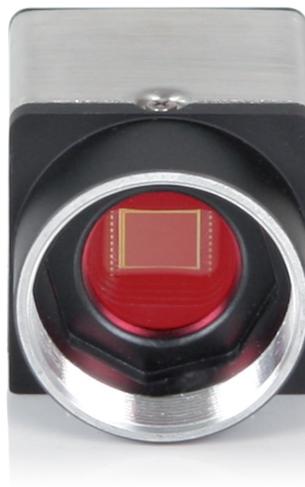
iDS 

USB 3 uEye CP: The next generation of industrial cameras with superspeed USB 3.0 interface

The USB 3 uEye CP camera already thoroughly fulfills all of today's and future requirements of the machine vision market. This and the universal availability of USB 3.0 ensures long term investment security.

We are USB.

IDS has been the leader in industrial USB cameras for a decade. We have now incorporated all of our knowledge into the next generation uEye cameras with USB 3.0. **Experience you can rely on.**



Made
 in
 Germany

Faster and high resolution sensors, more bit per pixel color depth plus higher frame rates and simultaneous identification of a variety of features. All this results in an enormous amount of data which needs to be processed in the camera on one hand and on the other hand needs to be transferred to the PC. The superspeed USB 3.0 interface offers a data transfer rate of up to 400 MByte per second, this is 10 times USB 2.0, 5 times Firewire 800 and still 3.5 times GigE speed. USB 3.0 bridges the gap to the modern, fast and powerful sensors by eliminating the interface bottleneck.

The new USB 3 uEye CP camera series combines all of these outstanding features and is hence suited for all applications, particularly multi-camera systems, e.g. as 3D imaging in process automation, bodywork inspection or medical engineering, robotics or logistics. Users benefit from the excellent image quality as well as the high frame rates and the well-known ease of operation of the uEye software development kit.

Current camera models

Model	Resolution	Megapixel	Frames/s	Sensor Type	Sensor	Shutter Mode
UI-3220CP-M	752 x 480	WVGA	100	1/3" CMOS	Aptina	Global
UI-3220CP-C	752 x 480	WVGA	100	1/3" CMOS	Aptina	Global
UI-3240CP-M	1280 x 1024	1.3	60	1/1.8" CMOS	e2v	Global
UI-3240CP-C	1280 x 1024	1.3	60	1/1.8" CMOS	e2v	Global
UI-3480CP-M	2560 x 1920	5	15	1/2" CMOS	Aptina	Rolling + Global Start
UI-3580CP-C	2560 x 1920	5	15	1/2" CMOS	Aptina	Rolling + Global Start

M = Monochrome sensor / C = Color sensor

Further additions to our sensor portfolio, including high resolution, fast and modern CMOS and CCD sensors from CMOSIS, e2v and Sony are in preparation for 2012.



5 Megapixel color sensor

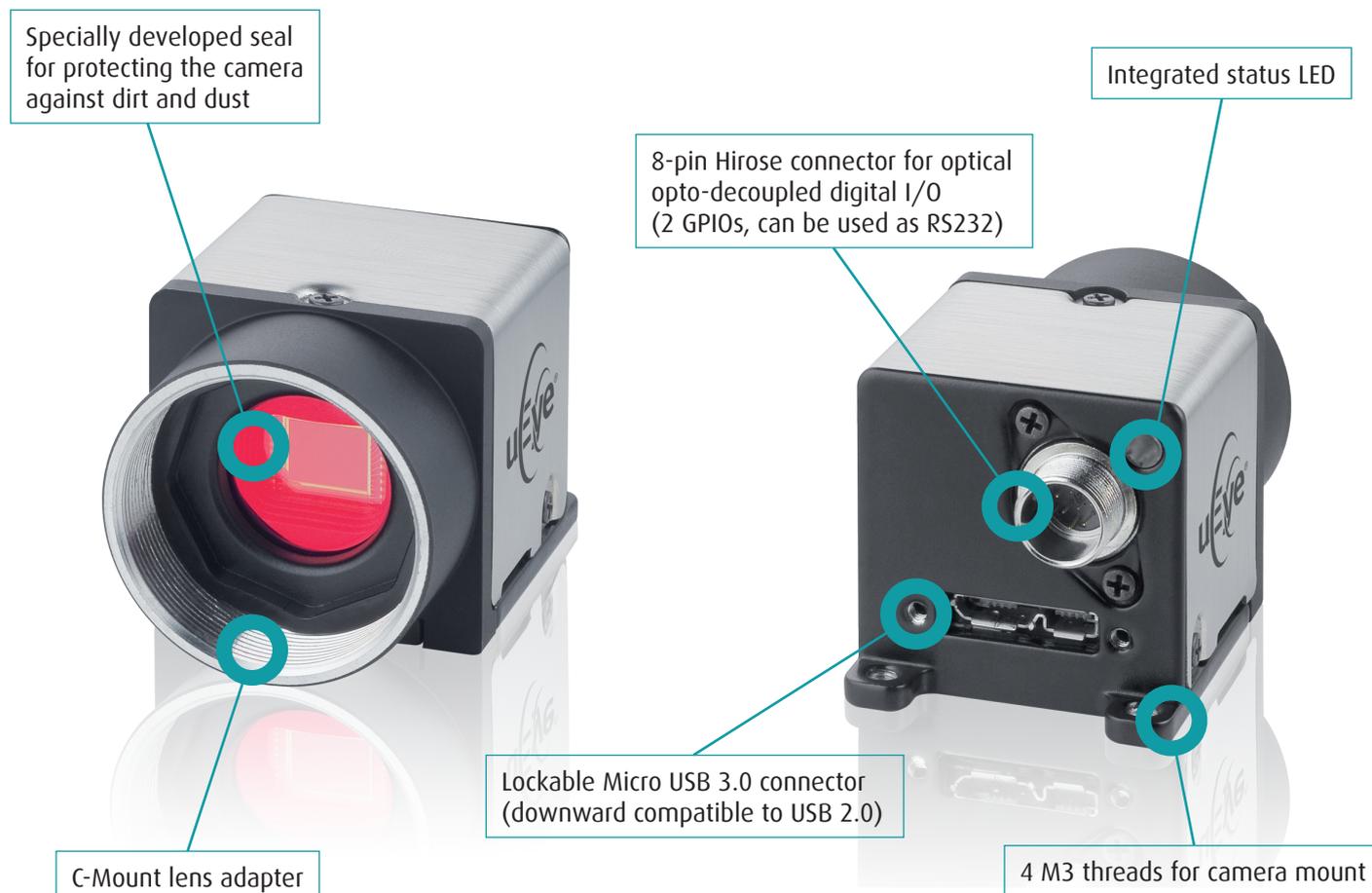
IDS now offers the Aptina CMOS 5 Megapixel color sensor with up to 30 % more sensitivity and the new A-Pix pixel technology in its USB 3 uEye CP camera series. The new Aptina CMOS sensor can easily outshine CCD sensors in regards to sensitivity due to its innovative new technology incorporating a deeper photodiode and light guide.

USB 3 uEye CP Accessories

IDS also offers a range of USB 3.0 accessories, including PCIe cards, hubs as well as standard cables of up to 8 meters and active cables of up to 20 meters. All accessories have been tested and approved by IDS.

Fast, compact and powerful: All benefits of the USB 3 uEye CP camera family

The 29 x 29 x 29 mm camera housing is not only compact, but due to its magnesium casing also very lightweight and robust. The camera also offers trigger, flash and pulse width modulation as well as two GPIOs (General Purpose I/O). The GPIOs can also be converted into a serial port (RS232), e.g. to trigger peripheral devices. Thanks to the lockable micro USB 3.0 and Hirose connectors the camera is also perfect for rough environments. With a low power consumption the camera is specifically suited for mobile and embedded applications.



Further information and a 360° view of the USB 3 uEye CP camera you find at our homepage at www.ids-imaging.com/usb3.

The inner values:

- Global shutter or rolling shutter with global start
- Hardware gamma
- 12 bit lookup table
- Up to 12 bit color depth (depending on sensor)
- Horizontal and vertical binning
- Modern, fast and high performance CMOS sensors
- Hardware color calculation
- Pulse width modulation to trigger external devices
- Streaming function, e.g. for mobile data acquisition

www.ueyesetup.com

We have re-designed our uEye setup website. Now it is even more comfortable and intuitive to download manuals, software and interfaces. **It's so easy!**

Please visit www.ueyesetup.com for more information.

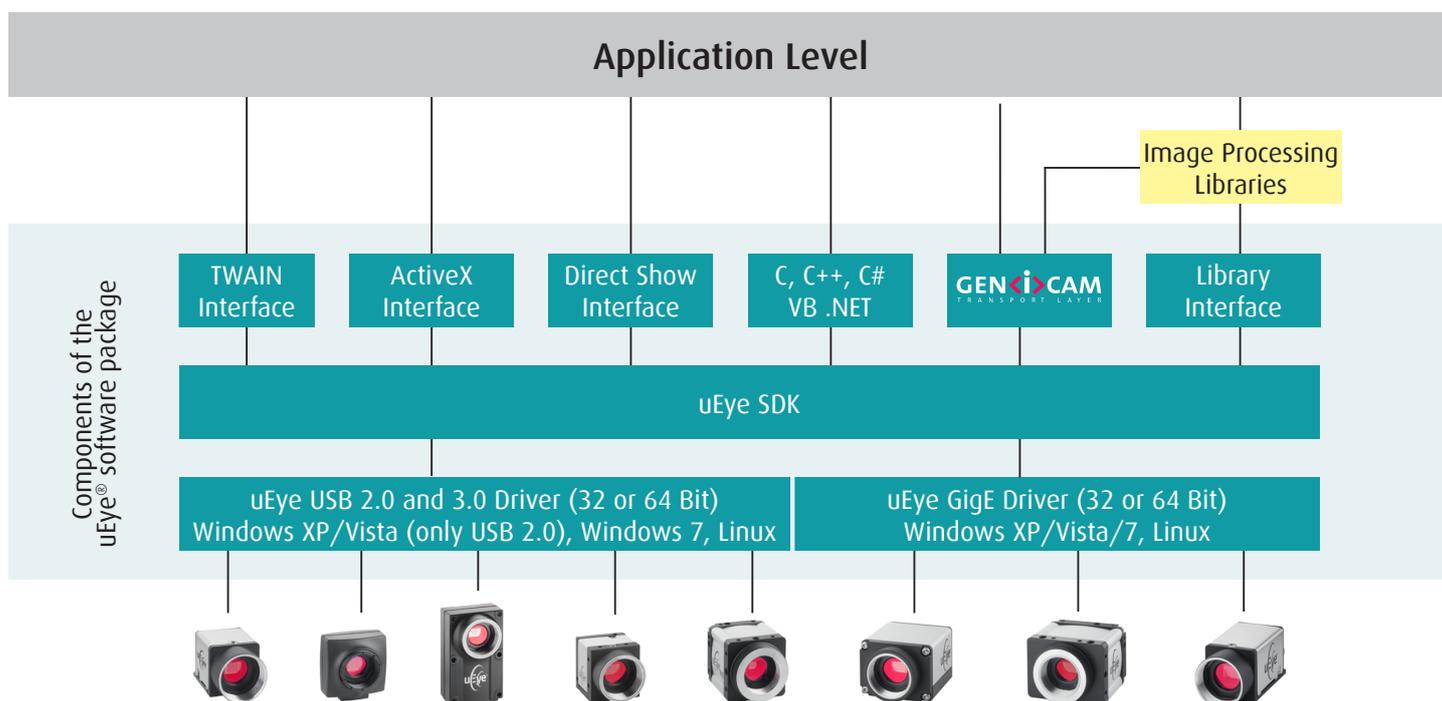


The uEye software package: It's so easy!

The well-known and sophisticated IDS software package offers driver versions for Windows and Linux as well as software interfaces, eg. HALCON. Additionally the IDS Camera Manager is the central administration tool for all IDS uEye cameras.

The uEye Cockpit is the most comfortable tool to install and to set camera parameters. Without changing a single line of programming code, the software enables users to easily install the cameras as well as to determine the most ideal parameters for each image. This tool also allows adapting the exposure time, frame rate and trigger and flash settings.

As an added benefit one driver and one API (application programming interface) are enough to integrate and simultaneously operate USB 2.0, USB 3.0 and GigE cameras. Hence, no single line of programming code needs to be amended when changing camera interfaces. Firmware and driver updates are uploaded when initializing the cameras. Regular updates ensure that also cameras in the field benefit from highest functionality. This high level of interoperability and interchangeability of interfaces and hence customer benefit is only offered by IDS.



New uEye programming interface for Microsoft .NET

The uEye programming interface for Microsoft .NET is now part of the comprehensive software package for uEye cameras, offering its user-friendly and object-oriented programming interface and features that make its use flexible, easy and efficient. Plus, it allows platform independent programming so integrating inexpensive and efficient applications is as easy as adapting applications when your requirements change. The platform independent Microsoft standard offers long term investment security.

