IT'S SO EASY - **INDUSTRIAL CAMERAS FROM IDS**

iDS:

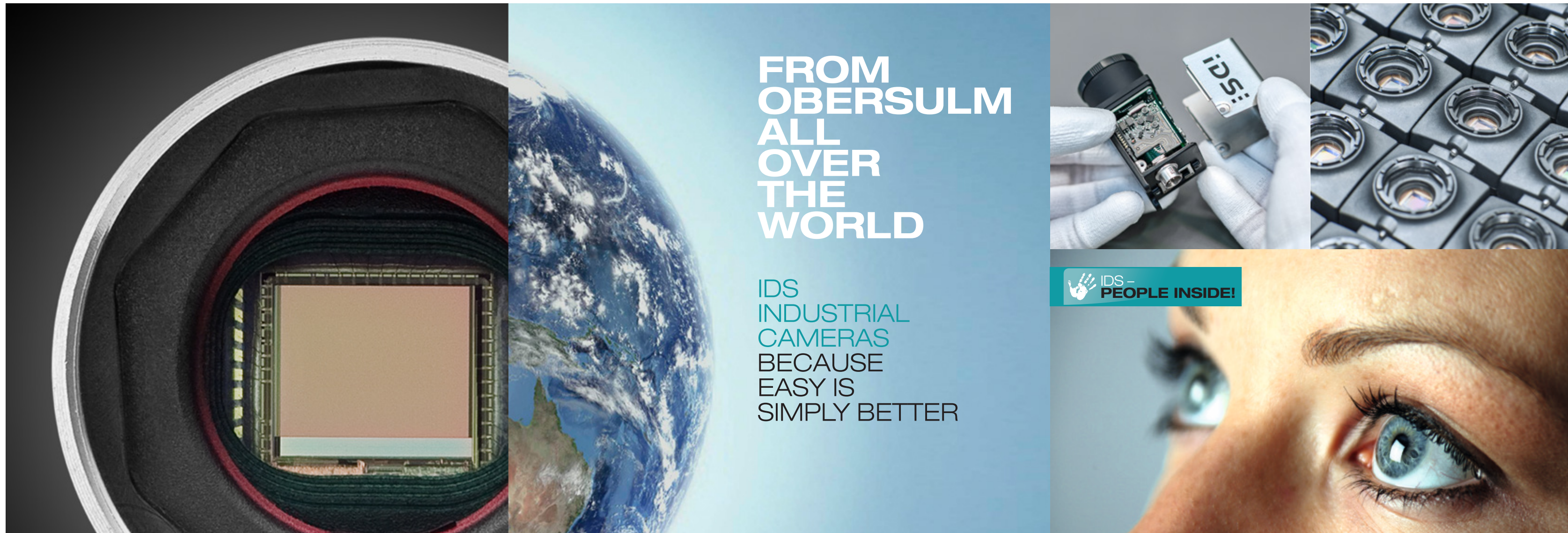# INDUSTRIAL CAMERAS FROM IDS
VERSATILE, EASY AND RELIABLE

IDS Imaging Development Systems GmbH is a leading manufacturer of digital industrial cameras with USB and GigE interfaces.

Boasting nearly 2 decades of experience in the development and sale of USB 2.0 cameras, today we are also among the pioneers in the development of digital USB 3.0 and USB 3.1. Gen1 industrial cameras. Our cameras help to optimize processes, assure quality, advance research, conserve raw materials, and serve people. They provide reliable and efficient support for your application.

We develop all of our cameras exclusively in Germany, produce them using sustainable methods, and sell them all over the world. A certified quality management system ensures that our processes are effective, and guarantee the exceptional quality and long-term availability of our products.

Our developments focus on broad-based, established technologies from the consumer world. We then modify them to make them suitable for industrial use in equipment, machine and plant engineering in a wide variety of target sectors.

A third of our employees work in hardware and software development and in application engineering. Alongside our highly qualified sales and support team, they are on hand to provide our customers with help and advice before and after purchase.

FROM
OBERSULM
ALL
OVER
THE
WORLD

IDS
INDUSTRIAL
CAMERAS
BECAUSE
EASY IS
SIMPLY BETTER

IDS –
PEOPLE INSIDE!

Made
in
Germany

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SÜD

TÜV
SÜD

c UL US LISTED

IT'S SO **EASY!**

It's a philosophy we live by every day and which is reflected in every detail of our cameras. It's so easy! From initial contact to advice and support to simple integration and use of our products. Whether you're dealing with us or our cameras: Everything is easy. Simplicity means efficiency.

The management board of IDS:
Jürgen Hartmann (founder and owner) and Daniel Seiler

WE HAVE BEEN **SHAPING THE FUTURE** SINCE 1997

IDS Imaging Development Systems was founded in 1997 as a two-man business. An owner-operated, independent German family company, these days we have subsidiaries in the USA, Japan and the UK as well as further offices in Europe and Asia. We focus on the company's sustainable expansion, supported by our distribution partners in almost every country in the world.

Over the past few years, our workforce has grown in proportion to the company itself. More than 220 highly motivated employees are currently working with passion and dedication on finding and implementing the optimum solution for your needs. We are devoted to providing the best user experience in the vision market.

IDS – **PEOPLE INSIDE**

Sneak a peek at our daily work life:

VALUES THAT **COUNT**

Our corporate culture is based on the core values of sustainability, responsibility and trust. High environmental and ethical standards along the value chain play a key role. A keen awareness of social responsibility is just as important to us as sustainable development and production.
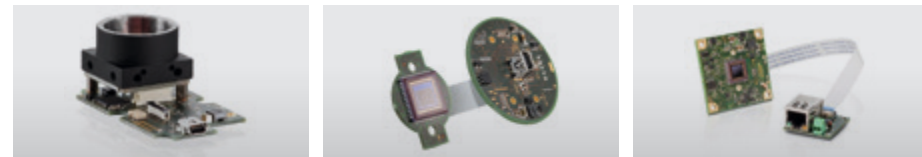
EXCEPTIONAL CAMERAS
FOR EXCEPTIONAL REQUIREMENTS

TAILORED DEVELOPMENTS
FROM IDS

Every application is different and the range of possible applications for IDS cameras is unlimited, even where there are exceptional requirements in terms of environment, interfaces with other electronic components or constricted space. Do you need a camera with a custom housing or different geometry? Does your application require special camera functions or software adaptations?
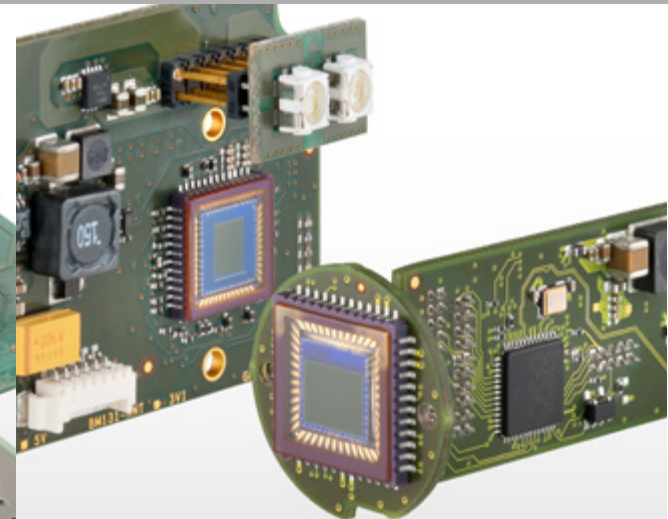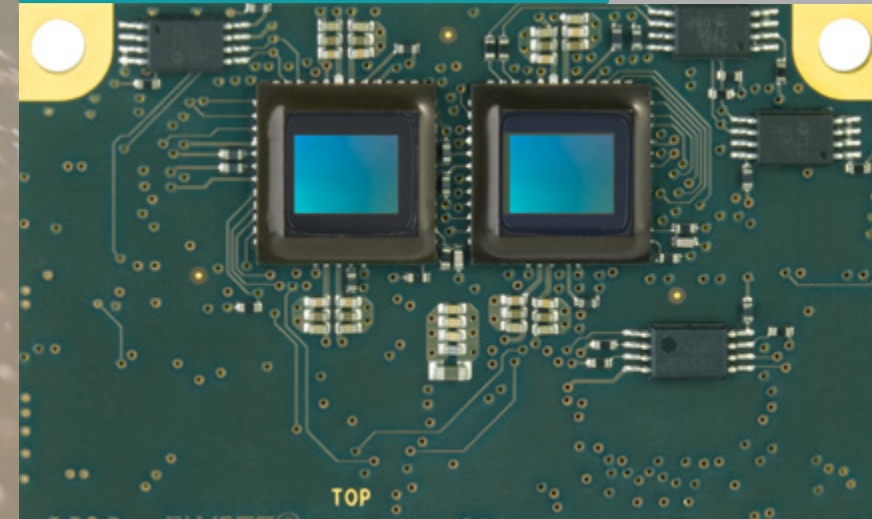
Let us deal with it. Experienced engineering teams can develop and build a customized special model just for you. Including software. We have the vision and experience to reliably handle any kind of customer-specific projects. The modular concept of our high performance products and the flexibility of the IDS software suite make it easy. You benefit from our expertise.

Less is sometimes more: We only develop and produce what you really need. That's a promise. Simplicity is a basic principle, and part of our corporate philosophy. **It's so easy!**

Custom developments

- OEM solutions: customer-specific design / label
- Change to housing or board design (for board level cameras)
- Changes to the electronics
- Individual choice of connector types
- Integration of lighting
- Driver porting
- Software and driver adaptation
- Camera setup, e.g. lens mounting

THE IDS SOFTWARE SUITE
SUPERBLY SOPHISTICATED, BRILLIANTLY EASY

ONE FOR ALL
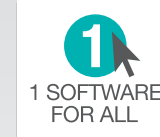### FREE, FLEXIBLE, HIGH PERFORMANCE, UNRIVALED

The same software from day one: Developed since 1997, back compatible and with remote update capability. As all necessary drivers are loaded to the camera when it is initially connected, the functionality of cameras already installed is quickly and easily extended by software updates. Superbly sophisticated.

One software solution for all IDS uEye cameras: The IDS software suite allows mixed operation and switching between all IDS cameras without changing a single line of program code. Brilliantly easy.

For Windows and Linux 32 and 64 bit systems as well as Linux drivers for embedded boards. Also supports Direct3D and OpenGL.

SOFTWARE
BACKED UP BY HARD FACTS

1 SOFTWARE FOR ALL

Making everything easy – IDS Camera Manager
The central and convenient tool for managing your uEye cameras – regardless of whether they use a USB 2.0, 3.0, 3.1 Gen 1 or GigE interface. The optional expert mode provides detailed information about the cameras.

Everything under control – uEye Cockpit
The Cockpit provides access to all major camera settings and features. From A for AOI to Z for Zoom, you can set all the available functions and parameters on your specific model. Whether you start in simple mode or expert mode, the 16-language Cockpit allows extensive measurements taking – with no programming needed – and allows easy comparison between different camera settings.

Open to everything – Example programs
Dozens of example programs in various programming languages, including .NET, C, C++, C# and Visual Basic, make it easy to quickly integrate IDS cameras into your application using the explanatory source code.

All in one solution: The IDS software suite provides quick integration into applications. This saves our customers cost-intensive development time.

Super fit – 3rd party interfaces
The uEye interfaces support the most popular machine vision libraries, including HALCON, LabView, Common Vision Blox, NeuroCheck and many more. That goes without saying.
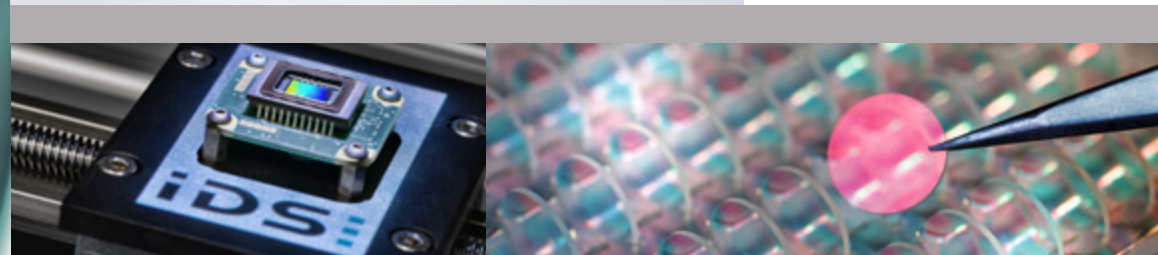
LabVIEW

NEURO CHECK

HALCON

MERLIC

COMMON VISION BLOX

Testergebnis: IO
Testsequenz: 614849

Start Testsequenz

INDUSTRIAL CAMERAS FROM IDS
IT'S SO EASY!

IDS supplies industrial cameras that provide exceptionally easy handling, a long service life, and long-term availability in almost any application. All cameras are 100% quality tested and pre-calibrated. Thanks to the comprehensive IDS software suite and IDS's typical plug&play functionality, even on GigE cameras, the cameras can be integrated in no time.

Besides the IDS Software Suite, IDS cameras support the GenICam-compliant standard transport protocols GigE Vision and USB3 Vision. They unify the interaction of components from different vendors. The UVC standard (USB video class) ensures the use of the camera on all operating systems and platforms without additional driver installation.

uEye XS
5 MEGAPIXEL AUTOFOCUS CAMERA

■ Consumer convenience for industry thanks to numerous automatic functions
■ Perfect for all space-critical applications thanks to tiny dimensions
■ Ideal for quick & uncomplicated entry into Industrial Machine Vision (IMV)

Autofocus, digital zoom and numerous other automatic functions guarantee maximum operating convenience. Thanks to its robust magnesium housing, this tiny, lightweight camera is perfect for IMV and use in embedded systems, medical technology, kiosk systems and biometrics.

uEye XC
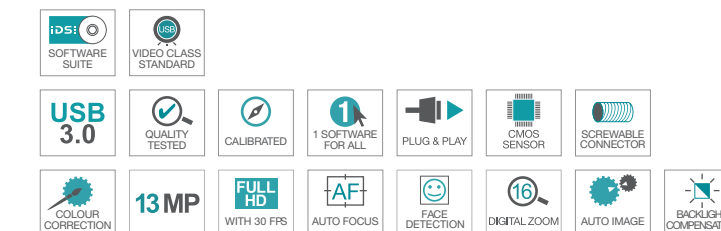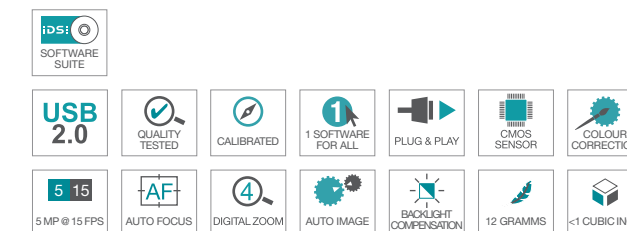## FULL OF AUTO FEATURES

reddot design award
winner 2016

■ Visionary USB 3.0 camera with the state-of-the-art 13 MP CMOS camera module from Sony
■ Lightweight magnesium housing with dimensions of just 32 x 61 x 19mm
■ Perfect for use under changing ambient conditions including access control, kiosk systems or in the logistics sector

Our most stylish camera is ready to solve your most demanding applications that require built-in autofocus optics: face detection, 16x digital zoom, automatic white balance, automatic backlight compensation and many more useful auto features. The robust metal housing, screw-on USB connectors and long-term availability make the USB 3 uEye XC perfectly suitable for industrial use
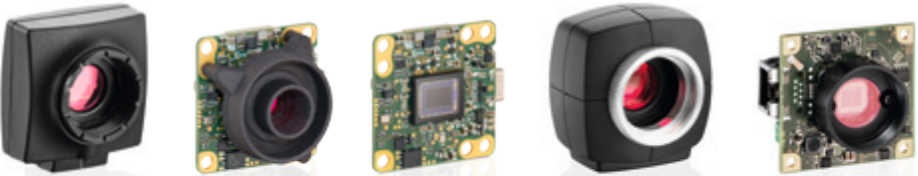
INDUSTRIAL CAMERAS FROM IDS
IT'S SO EASY!

uEye LE

THE ECONOMICAL, SPACE SAVING PROJECT CAMERA

- Focusing on essential functions
- uEye LE USB 3.1 Gen 1 with USB Type-C connector and Power Delivery
- GigE uEye LE perfectly suited for automation and embedded systems

The perfect component for all projects in small device construction, embedded systems, medical technology, robotics and metalworking. Whether it is installed as a housing with C/CS mount or a single board version with or without M12 lens holder, the comprehensive connectivity means that there are no limits on where the uEye LE cameras can be used.

uEye SE

WELL-PROVEN FOR ALL APPLICATIONS

- De-facto standard industrial camera
- Universal installation, can be screwed in from all sides
- Widest range of sensors covers all applications

Proven in industrial use for more than a decade, the uEye SE is the perfect all-rounder for a huge range of applications – from automation to machine construction through to the packaging industry.

uEye CP

ULTRA FAST, POWERFUL, AND FUTURE-PROOF

- The standard format in industry: 29 x 29 mm - ingenious, patented housing design
- Maximum functionality and low CPU utilization
- Maximum frame rates thanks to next generation sensors

Maximum functionality thanks to comprehensive pixel pre-processing (e.g. hardware gamma and LUT) directly in the camera hardware. Ideal for a wide range of applications, including automation, printing industry, logistics and packaging industry, medical technology, microscopy, and robotics.

uEye FA

STRONG IN FACTORY AUTOMATION

- The most rugged and resistant industrial camera
- Dustproof, and splashproof
- Ideal for multi-camera operation

Well prepared for the most rugged industrial environments: camera housing, lens barrels and connectors (an 8-pin M12 connection with X coding or an 8-pin Binder connector) fulfill the requirements of protection class IP65/67. The uEye FA series is equipped with the latest CMOS sensors from Sony, ON Semiconductor and e2v. An extensive range of accessories, including cables suitable for use as drag chains, and various screw-on options enhance versatility and facilitate integration.

INDUSTRIAL CAMERAS FROM IDS
IT'S SO EASY!

EQUIPPED FOR THE FUTURE.
WITH HIGH-PERFORMANCE CMOS SENSORS

Ensenso

STEREO 3D CAMERA – SUPERB IN 3 DIMENSIONS

- Real time 3D data with 30 fps at full resolution
- Easy capture of non-textured surfaces thanks to integrated pattern projector
- Multi-camera operation for object detection from different sides

3D stereo vision redefined. Stationary or moving objects: The Ensenso delivers 3D data in real time, and therefore has 100% inline capability. Ideally suited for multi-camera operation as only one 3D scatter plot is transferred. This enables barcodes or color information to be captured simultaneously. Comprehensive functions for easy hand-eye calibration.
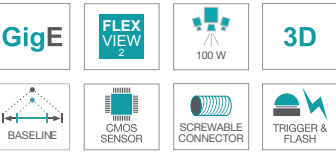
USB 2.0	GigE	QUALITY TESTED	PRE-CALIBRATED	PLUG & PLAY	IP 65/67
CMOS SENSOR	3D	SCREWABLE CONNECTOR	TRIGGER & FLASH	POWER OVER ETHERNET	

Ensenso X Series

ULTRAFLEXIBLE 3D CAMERA

- Projector unit with 100 W LED projector power and integrated GigE switch
- Camera mounting brackets for working distances of up to 5 meters
- Setup wizard for focusing and calibrating your 3D camera

3D vision is now easier, more precise and more flexible: by mounting brackets with flexible widths and variably adjustable camera persepctives as well as FlexView2 technology. You can use the Ensenso SDK to set up and start using the Ensenso X models in the familiar manner.

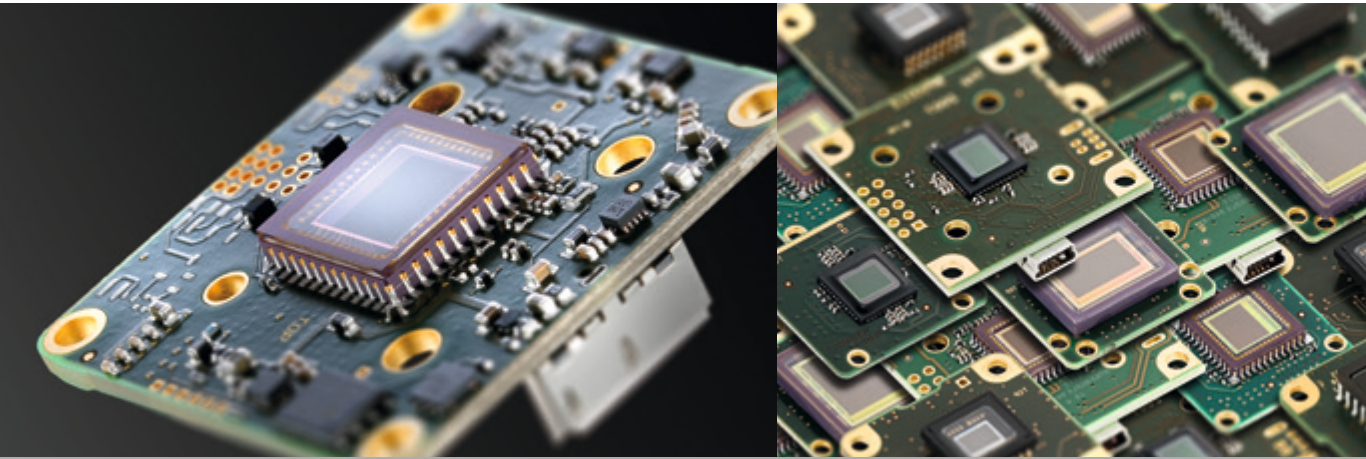| GigE	FLEX VIEW	100 W	3D
BASELINE	CMOS SENSOR	SCREWABLE CONNECTOR	TRIGGER & FLASH	PoE POWER OVER ETHERNET

High-resolution, extremely low noise, lightning fast or exceptionally light sensitive: To meet the hugely diverse requirements of different applications, IDS supplies a broad range of almost 50 sensors.

The future is CMOS: These image sensors provide perfect image quality, lightning speed and exceptional light sensitivity.
We offer more than ten years of know-how in the development and distribution of CMOS technology. It enables numerous special functions such as long exposures, highly dynamic shots or line scanning modes at an excellent cost-performance ratio. Our developers work passionately day by day to get the best out of every single sensor, as we aim to deliver our customers the best result for their specific and complex applications.

From day one, we have been working directly with all well-known sensor manufacturers. This enables us to ensure the outstanding functionality and image quality of our cameras at a high technical level.

SONY   ON Semiconductor   CMOSIS   e2v

SONY

PERFECT IMAGE QUALITY: SENSORS FROM SONY

Sony is the leading manufacturer of CMOS image sensors and provides the best image quality in the market. Sony sensors meet the highest requirements in the fields of visualization, quality assurance and ITS applications. With 25 years of experience in developing innovative products, Sony offers its customers the highest quality at an excellent cost-performance ratio.

ON SEMICONDUCTOR

HIGH-SPEED: SENSORS FROM ON SEMICONDUCTOR

ON Semiconductor is one of the largest CMOS sensor manufacturers worldwide. High-speed sensors from ON Semiconductor with more than 1 000 fps are suitable especially for visualization, quality assurance and inspection applications. They are particularly used by customers in the fields of automotive, communications, consumer electronics, medical, industrial, and space technology.

iDS

en.ids-imaging.com

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