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Plug and stream

uEye Live industrial monitoring cameras

The new uEye Live cameras with integrated Ambarella SoC and GigE connection offer video streaming, video encoding and event recording without a PC and without application programming for industrial process monitoring tasks.

- **Outstanding low-light performance thanks to the latest Sony Starvis 2 sensor technology**
- **Perfect images with integrated ISP**
- **Monitoring/process observation as a “single-device solution”**
- **Output and recording of multiple coded image streams**
- **Event-based recording in camera memory**



3D for indoor AND outdoor use

uEye 3D Time-of-Flight camera

IDS' first ToF camera with IP67 protection class uses the latest 1.2 MP (1280 x 960 pixels) sensor from onsemi with integrated depth processing and high ambient light suppression. It therefore provides robust 3D data even when used outdoors in full sunlight. The uEye 3D product family is continuously being expanded.

- **Suitable for both indoor (e.g. depalletizing, baggage handling) AND outdoor use (e.g. forklift truck use for package handling)**
- **High frame rates, ideal for dynamic scenes**
- **High level of safety thanks to laser class 1 (harmless)**
- **Future enhancements: wide field-of-view models, multi-camera system capability, color information add-on**



OCR with AI out of the box

IDS NXT malibu + DENKnet Deep OCR

DENKnet Deep OCR reliably recognizes and processes text on challenging surfaces, including special characters and fonts that are difficult to read. In combination with our intelligent IDS NXT malibu industrial camera, you can read labels, delivery bills or product numbers “on the edge”, thus completely PC-free.

- **AI-based text recognition directly on the camera**
- **Processes all product markings, even those that are difficult to read**
- **Robust even when exposed to different light situations, dirt or defective drawing material**
- **Intelligent camera with integrated Ambarella chip with high-performance AI accelerator and on-camera features for perfect image quality, video compression and streaming**

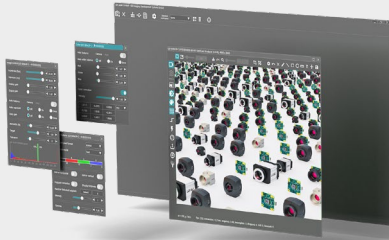
Fast data output with low latency

Event-Based USB3 camera

Like human perception, the IMX636 event-based sensor (co-developed by Sony and Prophesee) enables the uEye XCP to react dynamically to relevant changes in a scene – for each individual pixel. At the same time, it ignores an infinite amount of motionless data. Its use therefore drastically reduces data volume, power consumption and image processing workload compared to conventional frame-based systems.

- **Compact size (29x29x17 mm) and robust, cost-optimized design**
- **Dynamic range >120 dB for high robustness even in extreme light conditions**
- **Fast data transfer with data rates of over 10.000 fps**
- **Typical applications: object tracking, motion analysis, vibration monitoring, high-speed counting, speed measurement**





Ingeniously easy

IDS peak Software Development Kit

The free IDS peak SDK includes everything you need to operate and program our uEye cameras. “It’s so easy!” convenience features ensure an intuitive programming experience, quick and easy setup, and versatile application options.

IDS peak offers extensive extras, e.g. special features such as the “Line Scan Mode”, which allows you to transform your area scan into a line scan camera via software settings, and “Reconnect”, which automatically restarts the camera after a possible disconnection (e.g. due to a power failure) while maintaining all the preset settings.

- **Easy:** many tools and numerous sample programs
- **Comprehensive:** programming interfaces in C, C++, C# with .NET and Python with an identical code base
- **Independent:** libraries for Windows, Linux and Linux Embedded
- **Standard-compliant:** Based on GenICam and GigE / USB3 Vision

Precise 3D pointclouds at close range

The Ensensio B series

The fully integrated optics with a short focal length enable the two 5 MP stereo cameras to be used from an object distance of just 21 cm. Even at this short distance, the Ensensio B covers a large field of view of 30 x 26 cm and generates depth values with a submillimeter accuracy. 0.1 millimeters. The B-series optics enable working distances of up to about 2 meters.

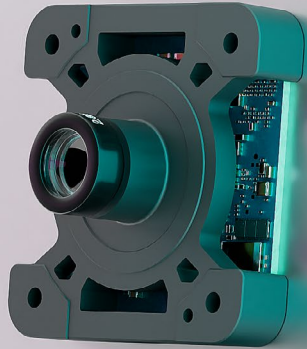
- **Available with color or monochrome sensors**
- **High-brightness LED pattern projector with 200 W power**
- **All components fully integrated in compact housing**
- **Applications:** robot guidance on small FoV, pick & place of complex parts



Design-to-cost camera series

uEye LE with GigE interface

Newly developed, cost-optimized GigE single-board camera for integration in device construction and embedded systems. The compact design makes the cameras ideal for space-critical applications. The GigE uEye LE models will be available as either a housing or board-level version, with a C- or S-mount lens holder and a wide range of sensors (e.g. Sony Starvis 2).



GigE[™]
VISION

Curtain up for the new sensors

uEye cameras with Sony Starvis 2 sensors

We are setting the stage for Sony Starvis 2 in color and monochrome by pioneering the integration of the latest sensor technology in our industrial cameras. The uEye XCP and uEye XLS series feature USB3 and the uEye LE series GigE interfaces. The affordable Rolling Shutter sensors offer fast fps, remarkably high image quality and impress with their high NIR (near-infrared) sensitivity, even when used in low-light situations. The 12.5 MP sensor is particularly recommended for microscopy applications because its square shape makes the best possible use of the image circle of a lens.



Huge 45 MP at 17 fps

uEye Warp10 with 10 GigE interface



For users with high demands on resolution, image quality and frame rate. The robust, GenICam-compliant uEye Warp10 cameras with CMOS sensors up to 45 MP resolution show their strengths in inspection tasks when fast processes need to be captured accurately.

- **Fast, reliable and easy to integrate**
- **High bandwidth over long cable lengths**
- **Can be used on existing GigE Vision network structure**

IDS at a glance

about **1.9 million cameras** “made in Germany” are in use worldwide

more than **11.000 customers** in over **75 countries** rely on IDS

IDS has about **5.000 products** in its portfolio

IDS has more than **25 years of experience** in image processing

family-owned with more than **350 employees** from 21 countries

vision**channel** 

Live sessions and
access to exclusive videos



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