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IMAGE PROCESSING SPECIALISTS

IDS-GIGE-UEYE RE

GigE uEye RE industrial camera: Extremely robust, dust-proof, and splashproof

The most rugged industrial camera with Gigabit Ethernet interface in the portfolio. The housing, lens barrels, and lockable connectors (circular connectors) comply with all the requirements of the IP65 and IP67 protection classes. The GigE uEye RE cameras are dustproof and splashproof and can even be operated in other extremely harsh environments without any problems. The digital inputs and outputs for controlling the trigger and flash are optically decoupled up to 30 V.

The camera also features 60 MB of internal image memory to decouple image acquisition from the transmission of the image. This makes the camera especially suitable for applications in multi-camera mode. Thanks to the unique IDS software, you also experience real USB plug & play, even for Gigabit Ethernet cameras: The cameras are automatically detected in the system and are ready for use immediately.

The GigE uEye RE is available with Power over Ethernet (PoE). The advantage of this is that no separate cable is required, which gives the camera even greater flexibility. The PoE version provides two additional general purpose I/Os (GPIOs). The power supply is provided by the screw-on, dust proof and splash water proof M12 circular connector.

The camera can also be used on IPC and PC systems, thanks to a 12-24V power supply.



ADVANTAGES

- Compact: Ideal for applications with space restrictions
- Efficient: Low power consumption
- GigE interface: Cable lengths of up to 100 meters
- 60 MB of internal image memory: Ideal for multi-camera operation
- Host computer is relieved: Thanks to pixel pre-processing such as gamma and definable LUT
- Optically decoupled trigger and flash, as well as two general purpose I/Os: Many additional features for a wide range of industrial applications
- 2 GPIOs (version with PoE only)
- Filter glass in front of the image sensor: For protection against dust and dirt and for spectral filtering of the incident light
- 100 % quality tested and calibrated: For consistent performance and reliability

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MicroDISC, Inc. | 301 Oxford Valley Road, Suite 1101 Yardley, PA 19067 | Tel 215.321.9100 | Fax 215.321.9190
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IDS-GIGE-UEYE CP



GigE uEye CP industrial camera: The tiny power pack for industrial applications with PoE functionality

Small and powerful: You can rely on the second completely new generation of our GigE uEye CP to reliably assist you with classic machine vision applications. 100% quality tested and calibrated: For consistent performance and reliability. Measuring just 29 x 29 x 29 mm, the new CMOS cameras are much more compact than their predecessors and even more powerful: Full GigE speed, single-cable operation up to 100 meters via Power-over-Ethernet (PoE), screw-on connectors, and much more. Top CMOS sensors from Sony, ON Semiconductor and e2v are integrated in the cameras.

Ideal for multi-camera operation: An integrated image memory decouples image acquisition from image transfer. Internal camera functions such as pixel preprocessing, LUT or gamma minimize the processing power required.

Thanks to the unique IDS Software Suite, you also experience real USB plug & play even for Gigabit Ethernet cameras: The cameras are automatically detected in the system and are ready for use immediately.

ADVANTAGES

- Compact: Measures just 29 x 29 x 29 mm and is therefore ideal for applications with space restrictions
- Ultra-light, robust housing: Ideal for applications on robot grippers
- Full GigE speed
- Single-cable operation up to 100 meters via Power-over-Ethernet (PoE)
- Host computer is relieved: Thanks to pixel pre-processing such as gamma and definable LUT
- 120 MB of internal image memory: Ideal for multi-camera operation
- GPIO, trigger and flash: Many additional features for a wide range of industrial applications
- Next generation CMOS sensors: Reasonably-priced CCD replacement with excellent image quality
- IDS filter concept: For protection against dust and dirt and for spectral filtering of the incident light
- 100% quality tested and calibrated: For consistent performance and reliability
- Long-term availability safeguards your investment

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IDS-GIGE-UEYE SE



GigE uEye SE industrial camera: All-round camera, broad sensor portfolio, many different versions, special sensor seal

The GigE uEye SE is the Gigabit Ethernet version of the industry-proven USB uEye SE camera family, which has been on the market for over a decade. Besides the lockable RJ45 port for GigE, the camera features a 6-pin Hirose connector for power, trigger, and flash connections. These are optically decoupled and process signals of up to 30V. The camera also features 60 MB of internal image memory to decouple image acquisition from the transmission of the image. This makes the camera especially suitable for applications in multi-camera mode. A specially developed sensor seal provides protection in extremely dusty environments. The camera filter is also exchangeable and is easy to clean. Thanks to the unique IDS software, you also experience real plug & play, even for Gigabit Ethernet cameras: The cameras are automatically detected in the system and are ready for use immediately.

ADVANTAGES

- Compact: Ideal for applications with space restrictions
- GigE interface: Cable lengths of up to 100 meters, data rates of up to 118 MByte/s
- 60 MB of internal image memory: Ideal for multi-camera operation
- Host computer is relieved: Thanks to pixel pre-processing such as gamma and definable LUT
- Optically decoupled trigger and flash, as well as two general purpose I/Os: Many additional features for a wide range of industrial applications
- Broad sensor portfolio: The right Gigabit Ethernet industrial camera for any application
- Filter glass in front of the image sensor: For protection against dust and dirt and for spectral filtering of the incident light
- 100% quality tested and calibrated: For consistent performance and reliability

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IDS-GIGE-UEYE LE



GigE uEye LE board-level industrial camera: Compact CMOS single-board camera with excellent image quality and many additional features

The GigE uEye LE is the most compact board-level industrial camera on the market. As a reasonably-priced entry-level model, the GigE uEye LE offers everything you expect from a powerful camera with a Gigabit Ethernet interface. The GigE uEye LE is also available with an S-mount lens holder with M12 thread or CS-mount for selected models. Cable lengths of up to 100 meters give the camera maximum flexibility. The power supply also provides flexibility: Power can be supplied either by the two-pin marshaling panel or by the 10-pin connector. The two integrated status LEDs make it easy to see when the camera is ready for operation. As a Gigabit Ethernet camera, the GigE uEye LE is also suitable for multi-camera operation, thanks to the higher GigE bandwidth. This is also supported by 60 MB of internal image memory to decouple image acquisition from the transmission of the image.

The optional "motherboard" version of the GigE uEye LE with ZIF plug offers even greater flexibility. A wide range of remote boards with RJ45 ports can be connected via Flex ribbon cables.

GigE uEye cameras are available with the following sensors:

- 1.3 megapixel sensor from e2v (mono, color and NIR versions)
- 2 megapixel sensor from e2v (mono and color versions)
- 5 megapixel sensor from ON Semiconductor (mono and color versions)

ADVANTAGES

- Compact: Ideal for applications with space restrictions
- Efficient: Low power consumption
- GigE camera: Long cable lengths of up to 100 meters
- 60 MB of internal image memory: Ideal for multi-camera operation
- Weighs just 14 g: Ideal for applications in robotics and microscopy
- Trigger, flash, and two general purpose I/Os: Many additional features for a wide range of industrial applications
- I2C bus: Ideal for controlling external devices
- Color calibration feature: Excellent color rendering, therefore ideal for microscopy
- Filter glass in front of the image sensor: For protection against dust and dirt and for spectral filtering of the incident light
- 100% quality tested and calibrated: Guarantee for consistent performance and reliability
- UI-5241 / UI-5251 / UI-5481 / UI-5581: M12 lens mount
- UI-5244 / UI-5484 / UI-5584: CS lens mount

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