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IDS-USB2-UEYE LE



USB 2 uEye LE industrial camera: The ideal project camera - compact, versatile and reasonably-priced

The USB 2 uEye LE series is a versatile and reasonably-priced range of cameras for use in industrial and non-industrial projects, which nonetheless ticks all the boxes in terms of sensor technology and versatility. You can choose from next generation CMOS sensors from well-known European manufacturers in resolutions ranging from VGA up to 10 megapixels.

The compact USB camera is available either with a plastic compound housing with a C/CS-mount lens adapter, or as a board-level version with an M12 or M14 lens holder or without a lens holder. Thanks to the adjustable flange back distance, fluctuations of standard lenses can be prevented, which means that zoom lenses can also be used. The board-level version comes with two general purpose I/Os, a built-in trigger and flash, as well as a built-in I2C bus for controlling external devices. This makes the industrial camera ideal for small device construction.

Also available as UVC version: camera models UV-1551LE (board-level with M12 lens holder) and UV-1552LE (only board-level).

ADVANTAGES

- Robust: Tough plastic housing
- Compact: Ideal for applications with space restrictions
- Lightweight: Ideal for applications in robotics and microscopy
- Efficient: Low power consumption
- USB 2.0 camera: Easy integration thanks to one standard cable solution and plug & play functionality
- Trigger and flash, as well as two general purpose I/Os for board-level models: Many additional features for outstanding versatility
- Adjustable flange back distance: Also suitable for zoom lenses, therefore providing a wider choice of lenses
- Color calibration feature: Excellent color rendering, therefore ideal for microscopy
- Next generation CMOS sensors: Outstanding image quality
- 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-USB2-UEYE ML



USB 2 uEye ML industrial camera:
Reasonably-priced compact camera for apparatus and mechanical engineering

The USB 2 uEye ML camera series is a reasonably-priced and compact industrial camera with USB 2.0 interface and next generation CMOS sensor technology. Its small dimensions make the camera ideal for applications with space restrictions. Thanks to its robust metal housing and lockable connectors, the USB uEye ML can also be used in harsh industrial environments. The 8-pin Hirose connector highlights the versatility of the camera by providing two general purpose I/Os as well as optically decoupled trigger inputs and flash outputs.

The USB 2 uEye ML industrial cameras are fitted with successful e2v CMOS sensors and are available in monochrome, color, and NIR versions, delivering outstanding performance in the near infrared range. The cameras offer a host of sensor features, including line scan mode, log mode, and four freely-selectable shutter modes, making them suitable for a wide range of applications while ensuring outstanding image quality.

The camera comes with a C/CS-mount lens adapter.

ADVANTAGES

- Robust: Durable metal housing
- Suitable for industrial use: Lockable connectors
- Compact: Measures just 40 x 40 x 18 mm, ideal for applications with space restrictions
- Efficient: Low power consumption
- USB 2.0 camera: Easy integration thanks to one standard cable solution and plug & play functionality
- Weighs just 37 g: Ideal for applications in robotics and microscopy
- Optically decoupled trigger and flash, as well as two general purpose I/Os: Many additional features for a wide range of industrial applications
- Sensor e2v EV76C560: Reasonably-priced CCD replacement with excellent image quality
- 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-USB2-UEYE SE



USB 2 uEye SE industrial camera: All-round camera, broad sensor portfolio, many different versions, special sensor seal

The USB uEye SE is the very best all-round industrial camera: Small, compact, and robust, the first ever camera model from IDS has proven its worth in industry for over a decade. The USB uEye SE family offers a broad range of CMOS and CCD sensors as well as a vast selection of housings and board-level models with or without front flange.

The USB 2.0 interface makes the camera extremely flexible, cost-efficient, and space-saving, as data is sent and power is supplied by a cable. The digital inputs and outputs for controlling the trigger and flash are optically decoupled and process signals of up to 30V. The cameras can be screw-mounted on all sides and can therefore be installed anywhere. A specially developed sensor seal provides protection in extremely dusty environments. The camera filter is also exchangeable and easy to clean.

ADVANTAGES

- Robust: Proven its worth in industrial applications for over a decade.
- Flexible: Universal installation options (can be screw-mounted on all sides)
- Solid: Compact metal housing
- USB 2.0 interface: Easy integration and plug & play functionality
- Optically decoupled trigger and flash: Many additional features for a wide range of industrial applications
- Broad sensor portfolio: The right USB 2.0 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-USB2-UEYE XS



USB 2 uEye XS industrial camera: Auto focus mini camera with USB connection and 15 fps at 5 MP

The small, smart XS with auto focus and many other auto functions combines the easiness and comfort of a consumer camera with the scope of industrial applications. The XS can easily be integrated thanks to its USB 2.0 interface and Mini B USB 2.0 connector. Equipped with ON Semiconductor's 5 Megapixel CMOS sensor and a pixel size of 1.4 μm the camera delivers excellent images quality and accuracy in color reproduction – even in the harshest ambient light conditions. The camera is the ideal choice for all applications that required a small yet smart camera with a great range of features. Due to its lightweight, compact design, 15 fps at full resolution (2592 x 1944 px) and integrated power supply, the XS is perfect for kiosk and embedded systems as well as medical engineering.

ADVANTAGES

- Images are always sharp with autofocus from 10 cm up to ∞
- Excellent image detail through high resolution sensor (2592 x 1944 pixel)
- Impressive 5 MP video with 15 fps - higher than Full HD!
- Even higher frame rates up to 30 fps with reduced resolution
- Full manual control for all features available through powerful, free SDK with programming examples
- Look at details close-up with digital zoom
- No need to adjust parameters in changing lighting conditions with auto gain, exposure, contrast correction, and white balance
- Integrate into tightest spaces thanks to compact magnesium housing less than 1 inch in size
- Ideally suited for UAV, mobile applications with 12 g weight
- Connect to any regular or embedded system via USB 2.0 interface
- Long-term availability

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