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# IDS U3-3861LE-C-HQ-AF, USB 3.0, 1/2.8" Color Camera

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IDS Imaging uEye LE USB 3.1 AF Autofocus Liquid Lens Board Level Cameras (M12 S-Mount)



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## Product Downloads

Color **Spectrum:**

## General

Color Camera **Type:**

**Model Number:**

U3-3861LE-C-HQ-AF

IDS Imaging Development Systems **Manufacturer:**

uEye+ LE-AF **Camera Series:**

## Physical & Mechanical Properties

36 x 36 x 19.9 (excludes connectors and lens mount) **Dimensions (mm):**

15 **Weight (g):**

Board Level **Housing:**

## Sensor

Not Specified **Image Buffer:**

1/2.8" **Sensor Format:**

2.10 **Resolution (Megapixels):**

135.00 **Frame Rate (fps):**

1,936 x 1,096 **Pixels (H x V):**

2.90 x 2.90 **Pixel Size, H x V (µm):**

5.61 x 3.175 **Sensing Area, H x V (mm):**

Sony IMX290 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Rolling **Shutter Type:**

12 bit **Pixel Depth:**

0.011ms - 1649ms **Exposure Time:**

72.00 **Dynamic Range (dB):**

USB3 Vision **Machine Vision Standard:**

## Electrical

1 - 1.5 **Power Consumption (W):**

## Hardware & Interface Connectivity

USB 3.0 **Interface:**

USB Type-C **Connector:**

Power over USB **Power Supply:**

2 Flash Output, 2 Trigger Input, 2 GPIO, 2 TWI, 1 Voltage Output, 1 Ground **GPIOs:**

Hardware Trigger (GPIO); Software Trigger **Synchronization:**

Back Panel (Right Angle) **Interface Port Orientation:**

10-pin Wuerth connector (WR-WTB 1.00 mm) **GPIO Connector Type:**

## Threading & Mounting

S-Mount (M12 x 0.5) **Mount:**

No Mounting Threads/Tripod Adapter **Mounting Threads:**

## Environmental & Durability Factors

0 to +55 **Operating Temperature (°C):**

**Storage Temperature (°C):**

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## Regulatory Compliance

[Exempt](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

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[Contains SVHC\(s\)](#) **REACH 241:**

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## Product Details

- Compact M12 (S-Mount) and C/CS-Mount Board Level Cameras
- Integrated Liquid Lens Control
- Software Based Autofocus Functionality

IDS Imaging uEye LE USB 3.1 AF Autofocus Liquid Lens Board Level Cameras provide integrated liquid lens control allowing users to quickly switch between different focus distances. These board level cameras have a compact size with either an M12 (S-Mount) or C/CS-Mount camera mount. The M12 (S-Mount) cameras are compatible with our [Liquid Lens M12 Imaging Lenses](#), while the C/CS-Mount cameras are compatible with our [Liquid Lens Cx Series Fixed Focal Length Lenses](#). All models are equipped with a 10-pin, lockable I/O Molex connector for GPIO, trigger, and flash. The USB 3.1 Type-C connector enables USB power delivery. The liquid lens is conveniently focused via the camera using software. The autofocus can be triggered very easily by software, can be individually configured to suit the application and ensures perfectly sharp images in an instant.

**Note:** Board level cameras with exposed electronics are intended for system integration and may not be suitable for end users. Liquid lens sold separately. Choose your camera and the appropriate liquid lens listed under the [Accessories](#) section.

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