

# IDS U3-3041LE-M-GL, USB 3.0, 1/2.9" Monochrome Camera

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IDS Imaging uEye LE Camera (M12, Board Level, Front View)



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## Product Downloads

Monochrome

Spectrum:

## General

Monochrome Camera

Type:

U3-3041LE-M-GL

Model Number:

**Manufacturer:**  
IDS Imaging Development Systems

**Camera Series:**  
uEye+ LE

## Physical & Mechanical Properties

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

**Weight (g):**  
16

**Housing:**  
Board Level

## Sensor

**Image Buffer:**  
Not Specified

**Sensor Format:**  
1/2.9"

**Resolution (Megapixels):**  
1.50

**Frame Rate (fps):**  
230.00

**Pixels (H x V):**  
1,448 x 1,086

**Pixel Size, H x V (µm):**  
3.45 x 3.45

**Sensing Area, H x V (mm):**  
4.995 x 3.746

**Imaging Sensor:**  
Sony IMX273

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

**Pixel Depth:**  
12 bit

**Exposure Time:**  
0.04ms - 2000ms

**Dynamic Range (dB):**  
70.00

**Machine Vision Standard:**  
USB3 Vision

## Electrical

**Power Consumption (W):**  
1 - 2

## Hardware & Interface Connectivity

**Interface:**  
USB 3.0

**Connector:**  
USB Type-C

**Power Supply:**  
Power over USB

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

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

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

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

## Threading & Mounting

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

**Mounting Threads:**  
N/A

## Environmental & Durability Factors

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

**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

- Up to 8.0MP Resolution with Framerrates up to 230fps
- Board Level Options with C/CS-Mount or S-Mount Available
- GenICam USB3 Vision Compliant

IDS Imaging uEye LE/XLE USB3.1 Cameras utilize [IDS Imaging's peak SDK platform](#) that supports GenICam and USB3 Vision standards for ease of software development and integration. These cameras are available in board-level or housed options with S-Mount or C/CS-Mount versions. The C/CS-Mount configurations come with a 5mm spacer to easily adapt between C-Mount and CS-Mount lenses. IDS Imaging uEye LE/XLE USB3.1 Cameras are ideal for small device construction, medical technology, robotics, and machine vision applications. With a compact design, the XLE version is suitable for integration into embedded systems whereas the LE version is suitable for small device projects.

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