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IDS U3-3041LE-C-HQ, USB 3.0, 1/2.9" Color Camera

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



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Color **Spectrum:**

General

Color Camera **Type:**

Model Number:

U3-3041LE-C-HQ

IDS Imaging Development Systems **Manufacturer:**

uEye+ LE **Camera Series:**

Physical & Mechanical Properties

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

16 **Weight (g):**

Board Level **Housing:**

Sensor

Not Specified **Image Buffer:**

1/2.9" **Sensor Format:**

1.50 **Resolution (Megapixels):**

230.00 **Frame Rate (fps):**

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

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

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

Sony IMX273 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

12 bit **Pixel Depth:**

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

70.00 **Dynamic Range (dB):**

USB3 Vision **Machine Vision Standard:**

Electrical

1 - 2 **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:**

N/A **Mounting Threads:**

Environmental & Durability Factors

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

Storage Temperature (°C):

Regulatory Compliance

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

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

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

Product Details

- Up to 8.0MP Resolution with Framerates 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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