

IDS U3-3881LE-C-HQ, USB 3.0, 1/1.8" Color Camera

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



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⊖ 1 ⊕ €375.⁰⁰

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Color **Spectrum:**

General

Color Camera **Type:**

Model Number:

U3-3881LE-C-HQ

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:
1/1.8"

Resolution (Megapixels):
6.40

Frame Rate (fps):
54.00

Pixels (H x V):
3,088 x 2,076

Pixel Size, H x V (µm):
2.40 x 2.40

Sensing Area, H x V (mm):
7.411 x 4.982

Imaging Sensor:
Sony IMX178

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Rolling

Pixel Depth:
12 bit

Exposure Time:
0.014ms - 1090ms

Dynamic Range (dB):
71.00

Machine Vision Standard:
USB3 Vision

Electrical

Power Consumption (W):
1 - 1.5

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

-20 to +80

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 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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