

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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SPECIFICATIONS

General

Type:

Color Camera	
U3-3861LE-C-HQ-AF	Model Number:
IDS Imaging Development Systems	Manufacturer:
uEye+ LE-AF	Camera Series:
Color	Spectrum:
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-Mbunt (M12 x 0.5)	Mount:
No Mounting Threads/Tripod Adapter	Mounting Threads:

Environmental & Durability Factors	
0 to +55	Operating Temperature (°C):
-20 to +80	Storage Temperature (°C):
Regulatory Compliance	
Exempt	RoHS 2015:
View	Certificate of Conformance:
Contains SVHC(s)	REACH 241:

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 Mflex 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.