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IDS U3-31R0CP-M-GL, USB 3.0, 1.2" Monochrome Camera

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IDS Imaging uEye+ USB3 Cameras



Stock #78-112 [CONTACT US](#)

- 1 + C\$3,962⁰⁰

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Monochrome	Spectrum:
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General

Monochrome Camera	Type:
U3-31R0CP-M-GL	Model Number:
	Manufacturer:

uEye+ CP **Camera Series:**

Physical & Mechanical Properties

Dimensions (mm):
29 x 29 x 29 (excludes connectors and lens mount)

Weight (g):
50

Housing:
Full

Sensor

Image Buffer:
128MB

Sensor Format:
1.2"

Resolution (Megapixels):
24.55

Frame Rate (fps):
16.00

Pixels (H x V):
5,328 x 4,608

Pixel Size, H x V (µm):
2.74 x 2.74

Sensing Area, H x V (mm):
14.599 x 12.626

Imaging Sensor:
Sony IMX540

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
12 bit

Exposure Time:
0.035ms - 2000ms

Dynamic Range (dB):
70.00

Machine Vision Standard:
USB3 Vision

Electrical

Power Consumption (W):
1.8 - 4.4

Hardware & Interface Connectivity

Interface:
USB 3.0

Connector:
USB 3.0 micro-B, screwable

Power Supply:
Power over USB

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

Synchronization:
Hardware Trigger (GPIO); Software Trigger

Interface Port Orientation:
Back Panel

GPIO Connector Type:
8-pin Hirose connector (HR25-7TR-8PA(73))

Threading & Mounting

Mount:
C-Mount

Mounting Threads:
¼-20 with Tripod Mount Adapter [#35-088](#)

Environmental & Durability Factors

Operating Temperature (°C):
0 to +55

Storage Temperature (°C):
-20 to +60

Regulatory Compliance

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

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

[Contains SVHC\(s\)](#) **Reach 251:**

Product Details

- Standard (SE), Compact (CP), and Ultra Compact (XCP) Housing Options Available
- C-Mount with Large Format CMOS Sensors up to 1.1"
- Up to 20.44MP Resolution with Framerrates up to 396fps

IDS Imaging uEye CP/XCP/SE USB3 Cameras utilize [IDS Imaging's peak SDK platform](#) that supports GeniCam and USB3 Vision standards for easy software development and integration. The CP cameras are the industry standard size of 29 x 29 x 29mm and work for almost any application. The XCP cameras have an ultra-compact size of 29 x 29 x 17mm and are an excellent option for price-sensitive, single-camera applications. The SE cameras have a larger housing size of 34 x 44 x 47mm to allow for exceptional heat management and are ideal for noise and heat-sensitive applications. IDS Imaging uEye CP/XCP/SE USB3 Cameras are ideal for manufacturing, industrial, and automation applications.

Calibration Services