

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

Three IDS industrial cameras are shown, each with a different sensor color: yellow, red, and blue. The cameras are black and silver, with the IDS logo visible on the side. They are arranged in a row, with the yellow camera on the left, the red camera in the middle, and the blue camera on the right. The background is dark and reflective.

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Monochrome

General	
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Monochrome Camera

U3-31R0CP-M-GL

IDS Imaging Development Systems	Manufacturer:
uEye+ CP	Camera Series:
Physical & Mechanical Properties	
29 x 29 x 29 (excludes connectors and lens mount)	Dimensions (mm):
50	Weight (g):
Full	Housing:
Sensor	
128MB	Image Buffer:
1.2"	Sensor Format:
24.55	Resolution (Megapixels):
16.00	Frame Rate (fps):
5,328 x 4,608	Pixels (H x V):
2.74 x 2.74	Pixel Size, H x V (µm):
14.599 x 12.626	Sensing Area, H x V (mm):
Sony IMX540	Imaging Sensor:
Progressive Scan CMOS	Type of Sensor:
Global	Shutter Type:
12 bit	Pixel Depth:
0.035ms - 2000ms	Exposure Time:
70.00	Dynamic Range (dB):
USB3 Vision	Machine Vision Standard:
Electrical	
1.8 - 4.4	Power Consumption (W):
Hardware & Interface Connectivity	
USB 3.0	Interface:
USB 3.0 micro-B, screwable	Connector:
Power over USB	Power Supply:
2 Flash Output, 2 Trigger Input, 2 GPIO, 1 Output Supply Voltage, 1 Ground	GPIOs:
Hardware Trigger (GPIO); Software Trigger	Synchronization:
Back Panel	Interface Port Orientation:
8-pin Hirose connector (HR25-7TR-8PA(73))	GPIO Connector Type:
Threading & Mounting	
C-Mount	Mount:
¼-20 with Tripod Mount Adapter #35-088	Mounting Threads:
Environmental & Durability Factors	
0 to +55	Operating Temperature (°C):
-20 to +60	Storage Temperature (°C):

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.