

# IDS U3-31R0CP-C-HQ, USB 3.0, 1.2" Color Camera

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IDS Imaging uEye+ USB3 Cameras



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## Product Downloads

Color **Spectrum:**

## General

Color Camera **Type:**

U3-31R0CP-C-HQ **Model Number:**

**Manufacturer:**  
IDS Imaging Development Systems

**Camera Series:**  
uEye+ CP

## 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:**  
1/4-20 with Tripod Mount Adapter [#35-088](#)

## Environmental & Durability Factors

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

**Storage Temperature (°C):**  
-20 to +60

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## Regulatory Compliance

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

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

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

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## 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 Framrates 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.

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