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## IDS U3-3800CP-C-HQ, USB 3.0, 1" Color Camera

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IDS Imaging uEye+ USB3 Camera, CP Model (Front)



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### Product Downloads

Color

Spectrum:

### General

Color Camera

Type:

U3-3800CP-C-HQ **Model Number:**

IDS Imaging Development Systems **Manufacturer:**

uEye+ CP **Camera Series:**

## Physical & Mechanical Properties

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

49 **Weight (g):**

Full **Housing:**

## Sensor

128MB **Image Buffer:**

1" **Sensor Format:**

20.44 **Resolution (Megapixels):**

19.50 **Frame Rate (fps):**

5,536 x 3,692 **Pixels (H x V):**

2.40 x 2.40 **Pixel Size, H x V (µm):**

13.286 x 8.861 **Sensing Area, H x V (mm):**

Sony IMX183 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Rolling **Shutter Type:**

12 bit **Pixel Depth:**

0.053ms - 814ms **Exposure Time:**

71.00 **Dynamic Range (dB):**

USB3 Vision **Machine Vision Standard:**

## Electrical

1.8 - 3.5 **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) **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):

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## Regulatory Compliance

[Exempt](#)

RoHS 2015:

[View](#)

Certificate of Conformance:

[Contains SVHC\(s\)](#)

REACH 241:

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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.