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# IDS GV-51F0CP-C-HQ, GigE, 1/1.8" Color Camera

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IDS Imaging uEye+ GigE Cameras



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Color **Spectrum:**

**General**

Color Camera **Type:**

GV-51F0CP-C-HQ **Model Number:**

**Manufacturer:**

uEye+ CP **Camera Series:**

## Physical & Mechanical Properties

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

**Weight (g):**  
53

**Housing:**  
Full

## Sensor

**Image Buffer:**  
128MB

**Sensor Format:**  
1/1.8"

**Resolution (Megapixels):**  
5.10

**Frame Rate (fps):**  
24.00

**Pixels (H x V):**  
2,472 x 2,064

**Pixel Size, H x V (µm):**  
2.74 x 2.74

**Sensing Area, H x V (mm):**  
6.773 x 5.655

**Imaging Sensor:**  
Sony IMX547

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

**Pixel Depth:**  
12 bit

**Exposure Time:**  
0.02ms - 2000ms

**Dynamic Range (dB):**  
70.00

**Machine Vision Standard:**  
GigE Vision

## Electrical

**Power Consumption (W):**  
1.5 - 4.2

## Hardware & Interface Connectivity

**Interface:**  
GigE (PoE)

**Connector:**  
GigE RJ45, screwable

**Power Supply:**  
Power over Ethernet (PoE) or 12 - 24VDC via GPIO with [#16-016](#)

**GPIOs:**  
2 Flash Output, 2 Trigger Input, 2 GPIO, 1 Voltage Output, 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

## Regulatory Compliance

[Exempt](#)

RoHS 2015:

[View](#)

Certificate of Conformance:

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

Reach 251:

## Product Details

- Standard (SE) and Compact (CP) Housing Options Available
- C-Mount with Large Format CMOS Sensors up to 1.1"
- GenICam GigE Vision Compliant
- [IDS Imaging uEye CP/XCP/SE USB3 Cameras](#) Available

IDS Imaging uEye CP/SE GigE Cameras utilize IDS Imaging's [peak SDK platform](#) that supports GenICam and GigE Vision standards for ease of 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 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/SE GigE Cameras feature a screwable 8-pin Hirose connector for trigger and flash as well as two GPIOs. These cameras are ideal for a variety of applications such as automation, automotive, medical technology, and logistics.

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