

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.