

# IDS GV-51F0FA-C-HQ, GigE, 1/1.8" Color Camera

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IDS Imaging uEye+ FAIP65/67 PoE Cameras (Front)



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## Product Downloads

**Spectrum:**  
Color

## General

**Type:**  
Color Camera

**Model Number:**  
GV-51F0FA-C-HQ

**Manufacturer:**  
IDS Imaging Development Systems

**Camera Series:**  
uEye+ FA

## Physical & Mechanical Properties

**Dimensions (mm):**  
41 x 53 x 42.7 (excludes connectors and lens mount)

**Weight (g):**  
178

**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:**  
0.035ms - 2000ms

**Dynamic Range (dB):**  
70.00

**Machine Vision Standard:**  
GigE Vision

## Electrical

**Power Consumption (W):**  
2 - 4

## Hardware & Interface Connectivity

**Interface:**  
GigE (PoE)

**Connector:**  
GigE M12, screwable

**Power Supply:**  
Power over Ethernet (PoE) or 12 - 24VDC via GPIO with [#19-692](#)

**GPIOs:**  
2 Flash Output, 2 Trigger Input, 2 GPIO, 1 Power Supply, 1 Ground

**Synchronization:**  
Hardware Trigger (GPIO), Software Trigger, or PTP (IEEE 1588)

**Interface Port Orientation:**  
Back Panel

**GPIO Connector Type:**  
8-pin Binder connector (Binder series 712: 09-0427-020-08)

## Threading & Mounting

**Mount:**  
C-Mount

**Mounting Threads:**  
¼-20 with Tripod Mount Adapter [#19-694](#)

## 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:**

**Country of Origin:**  
Germany

**Imported By:**  
Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
Phone: +91- 80-6845 0000

## Product Details

- Designed for Harsh Environments
- Robust IP65/67 Housing for Dust and Washdown Protection
- Compatible with [TECHSPEC® Cw Series Lenses](#)
- IP65/67 Rated Accessories and Illumination Also Available

IDS Imaging uEye+ FA IP65/67 PoE Cameras feature robust IP65/67 rated housings to withstand harsh industrial environments, providing protection against dirt, dust, and water. These cameras provide plug-and-play functionality and require no additional enclosures when paired with [TECHSPEC® Cw Series Lenses](#). Featuring IP65/67 rated accessories, these cameras utilize IDS Imaging's latest Peak SDK platform that supports GenICam and GigE Vision standards, simplifying system integration and software development. IDS Imaging uEye+ FA IP65/67 PoE Cameras are ideal for a wide variety of demanding applications requiring washdown and dust resistance including factory automation, medical technology, and machine vision.