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# IDS GV-51R0CP

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Stock #78-100 **1 In Stock**

- 1 +

€2.830<sup>,00</sup>

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IDS Imaging uEye+ GigE Cameras



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### Product Downloads

- Software
- EO Spec Sheet

**Spectrum:** Color

## General

**Type:** Color Camera

**Model Number:** GV-51R0CP-C-HQ

**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):** 53

**Housing:** Full

## Sensor

**Image Buffer:** 128MB

**Sensor Format:** 1.2"

**Resolution (Megapixels):** 24.55

**Frame Rate (fps):** 5.00

**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:** 0.015ms - 2000ms

**Dynamic Range (dB):** 70.00

**Machine Vision Standard:** GigE Vision

## Electrical

**Power Consumption (W):** 2 - 5.1

## Hardware & Interface Connections

**Interface:** GigE (PoE)

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

**Synchronization:** Hardware Trigger (GPIO); Software Trigger

**GPIO Connector Type:** 8-pin Hirose connector (HR25-7TR-8PA(73))

**Interface Port Orientation:** Back Panel

2 GPIO, 1 Voltage Output, 1 Ground

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## Threading & Mounting

**Mount:** C-Mount

**Mounting Threads:** ¼-20 with Tripod Mount Adapter [#35-088](#)

## Environmental & Durability Factors

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

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

## Regulatory Compliance

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

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

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

## 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.

## Accessories

**Note:** Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	5m Length, Cat 5e GigE Cable, RJ45 Connection		<a href="#">#63-863</a>	€17,00 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/>
<a href="#">MORE+</a>	10m Length, Cat 5e GigE Cable, RJ45 Connection		<a href="#">#63-864</a>	€22,00 <a href="#">Request Quote</a>	<b>2 In Stock</b> <input type="text" value="1"/>

	Title	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	6ft Length, Cat 6 SSTP GigE Cable, RJ45 Connection			€44,00	7 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	12ft Length, Cat 6 SSTP GigE Cable, RJ45 Connection				2 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	25ft Length, Cat 6 SSTP GigE Cable, RJ45 Connection		#59-233	€71,00 Request Quote	5 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	100ft Length, Cat 6 SSTP GigE Cable, RJ45 Connection		#59-234	€207,00 Request Quote	CONTACT US <input type="text" value="1"/>
<a href="#">MORE+</a>	GPIO Cable, 8-Pin Hirose HR25 Connector to Open End, 5m		#86-758	€185,00 Request Quote	5 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	¼-20 Mounting Adapter for IDS Imaging USB 3/GigE/PoE Camera - Rev 2		#35-088	€45,00 Request Quote	CONTACT US <input type="text" value="1"/>
<a href="#">MORE+</a>	¼-20 Mounting Adapter for IDS Imaging USB3 SE or GigE SE (Rev.4) Camera		#16-017	€45,00 Request Quote	5 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Power Over Ethernet (PoE) Single Port injector		#68-469	€66,00 Request Quote	2 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Intel PRO/1000 PT, GigE Board PCI-E		#63-867 <span style="background-color: red; color: white; padding: 2px;">CLEARANCE</span>	€182,00 Request Quote	1 In Stock <input type="text" value="1"/>

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## Imaging Lens Selector



- Factory Automation
- Telecentric
- M12

- Custom Sensor
- Camera Model

Camera Model:

Number of Horizontal Pixels:

1

Number of Vertical Pixels:

2

Pixel Size (µm):

3

Working Distance (mm):

4

Horizontal Field of View (mm):

5



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**Disclaimer:** Values represent theoretical values from lens design software. Actual lens performance varies due to manufacturing tolerances.

# Resources

## Media Type

- Application Note
- Video
- Published Article
- FAQ
- Glossary
- Technical Tool

APPLICATION NOTE

Sensor Performance and Limitations

APPLICATION NOTE

Imaging Electronics 101: Basics of Digital...

APPLICATION NOTE

Imaging Electronics 101: Camera Resolution fo...

APPLICATION NOTE

Imaging Electronics 101: Understandi...

VIDEO

How Do Cameras Work?

PUBLISHED ARTICLE

Advancements in Short Wave Infrared Sensors

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