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# CM3-U3-50S5C-CS 2/3" Chameleon®3 Color Camera

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USB 3.0 FLIR Chameleon Camera



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Color **Spectrum:**

**General**

Color Camera **Type:**

CM3-U3-50S5C-CS **Model Number:**

**Manufacturer:**

FLIR

Camera Series:

Chameleon<sup>®</sup>3

## Physical & Mechanical Properties

**Dimensions (mm):**

44 x 35 x 22.1 (excludes connectors and lens mount)

**Weight (g):**

54.9

**Housing:**

Full

## Sensor

**Image Buffer:**

16MB

**Sensor Format:**

2/3"

**Resolution (Megapixels):**

5.00

**Frame Rate (fps):**

35.00

**Pixels (H x V):**

2,448 x 2,048

**Pixel Size, H x V (µm):**

3.45 x 3.45

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

8.45 x 7.07

**Imaging Sensor:**

Sony IMX264

**Type of Sensor:**

Progressive Scan CMOS

**Shutter Type:**

Global

**Pixel Depth:**

12 bit

**Exposure Time:**

13µs - 31.995s

**Dynamic Range (dB):**

70.60

**Machine Vision Standard:**

USB3 Vision v1.0

## Electrical

**Power Consumption (W):**

Not Specified

## Hardware & Interface Connectivity

**Interface:**

USB 3.1 Gen 1

**Connector:**

USB 3.1 Gen 1, Micro-B with Screw Locks

**Power Supply:**

Power over USB or via GPIO

**GPIOs:**

1 opto-isolated input, 1 opto-isolated output, 2 non-isolated bi-directional ports

**Synchronization:**

Hardware Trigger (GPIO)

**Interface Port Orientation:**

Side Panel

**GPIO Connector Type:**

9-pin JST

## Threading & Mounting

**Mount:**

CS-Mount

**Mounting Threads:**

¼-20 with Tripod Mount Adapter [#88-210](#)

## Environmental & Durability Factors

**Operating Temperature (°C):**

0 to +45

**Storage Temperature (°C):**

-30 to +60

## Regulatory Compliance

[Exempt](#)

**RoHS 2015:**

[View](#)

**Certificate of Conformance:**

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

**Reach 240:**

## Product Details

- USB3 Connectivity
- Lightweight Construction
- Compact Design



Teledyne  
Authorized  
Distributor

### Teledyne FLIR IIS Chameleon@3: Easy integration with USB3

Compact USB3 cameras

The **Chameleon@3** camera line combines popular CCD and CMOS image sensors with the ease of use of USB 3.0, with a compact form factor and camera sensor resolutions ranging from 1.3 MP to 5.0 MP.

These cameras feature a compact 44 x 35 x 19.5mm lightweight metal case designed for reliability. They offer multiple mounting points and a locking USB 3.0 connection. The camera includes an on-camera frame buffer for image retransmission and an optoisolated GPIO with a locking connection.

#### Features

- Compact form factor
- On-camera image processing: color interpolation, gamma, & LUT
- Data interface: USB3
- 16 MByte frame buffer
- LED Status indicator
- Spinnaker SDK and FlyCapture interfaces

#### Applications

- Life science instrumentation
- Factory automation
- Biometrics kiosk solutions
- Ophthalmoscopy
- 3D scanning
- Automated optical inspection