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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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## Product Downloads

Color **Spectrum:**

## General

Color Camera **Type:**

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

FLIR **Manufacturer:**

Chameleon@3 **Camera Series:**

## Physical & Mechanical Properties

**Dimensions (mm):**  
44 x 35 x 22.1 (excludes connectors and lens mount)

54.9 **Weight (g):**

Full **Housing:**

## Sensor

16MB **Image Buffer:**

2/3" **Sensor Format:**

5.00 **Resolution (Megapixels):**

35.00 **Frame Rate (fps):**

2,448 x 2,048 **Pixels (H x V):**

3.45 x 3.45 **Pixel Size, H x V (µm):**

8.45 x 7.07 **Sensing Area, H x V (mm):**

Sony IMX264 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

12 bit **Pixel Depth:**

13µs - 31.995s **Exposure Time:**

70.60 **Dynamic Range (dB):**

USB3 Vision v1.0 **Machine Vision Standard:**

## Electrical

Not Specified **Power Consumption (W):**

## Hardware & Interface Connectivity

USB 3.1 Gen 1 **Interface:**

USB 3.1 Gen 1, Micro-B with Screw Locks **Connector:**

Power over USB or via GPIO **Power Supply:**

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

Hardware Trigger (GPIO) **Synchronization:**

Side Panel **Interface Port Orientation:**

9-pin JST **GPIO Connector Type:**

## Threading & Mounting

CS-Mount **Mount:**

1/4-20 with Tripod Mount Adapter [#88-210](#) **Mounting Threads:**

## Environmental & Durability Factors

0 to +45 **Operating Temperature (°C):**

**Storage Temperature (°C):**

## 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