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# CM3-U3-31S4C-CS 1/1.8" 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-U3-31S4C-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)

**Weight (g):**  
54.9

**Housing:**  
Full

## Sensor

**Image Buffer:**  
16MB

**Sensor Format:**  
1/1.8"

**Resolution (Megapixels):**  
3.20

**Frame Rate (fps):**  
55.00

**Pixels (H x V):**  
2,048 x 1,536

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

**Sensing Area, H x V (mm):**  
7.07 x 5.3

**Imaging Sensor:**  
Sony IMX265

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

**Pixel Depth:**  
12 bit

**Exposure Time:**  
11µs - 32s

**Dynamic Range (dB):**  
71.38

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

## Electrical

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

## Hardware & Interface Connectivity

**Interface:**  
USB 3.0

**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