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# CM3-U3-31S4M-CS 1/1.8" Chameleon®3 Monochrome Camera

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USB 3.0 FLIR Chameleon Camera



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Monochrome **Spectrum:**

**General**

Monochrome Camera **Type:**

CM3-U3-31S4M-CS **Model Number:**

FLIR  
Chameleon®3

**Manufacturer:**  
**Camera Series:**

## Physical & Mechanical Properties

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

**Dimensions (mm):**

54.9

**Weight (g):**

Full

**Housing:**

## Sensor

16MB

**Image Buffer:**

1/1.8"

**Sensor Format:**

3.20

**Resolution (Megapixels):**

55.00

**Frame Rate (fps):**

2,048 x 1,536

**Pixels (H x V):**

3.45 x 3.45

**Pixel Size, H x V (µm):**

7.07 x 5.3

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

Sony IMX265

**Imaging Sensor:**

Progressive Scan CMOS

**Type of Sensor:**

Global

**Shutter Type:**

12 bit

**Pixel Depth:**

11µs - 32s

**Exposure Time:**

69.19

**Dynamic Range (dB):**

USB3 Vision v1.0

**Machine Vision Standard:**

## Electrical

Not Specified

**Power Consumption (W):**

## Hardware & Interface Connectivity

USB 3.0

**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):**

-30 to +60

**Storage Temperature (°C):**

## Regulatory Compliance

[Exempt](#)

**RoHS 2015:**

[View](#)

**Certificate of Conformance:**

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

**Reach 240:**

Canada

**Country of Origin:**

**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

- 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