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# CM3-U3-13Y3C-CS 1/2" Chameleon®3 Color Camera

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USB 3.0 FLIR Chameleon Camera



Stock #33-163 **1 In Stock**

1 €415<sup>00</sup>

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Color

**Spectrum:**

**General**

Color Camera

**Type:**

CMB-U3-13Y3C-CS	<b>Model Number:</b>
FLIR	<b>Manufacturer:</b>
Chameleon@3	<b>Camera Series:</b>

## Physical & Mechanical Properties

44 x 35 x 22.1 (excludes connectors and lens mount)	<b>Dimensions (mm):</b>
54.9	<b>Weight (g):</b>
Full	<b>Housing:</b>

## Sensor

16MB	<b>Image Buffer:</b>
1/2"	<b>Sensor Format:</b>
1.30	<b>Resolution (Megapixels):</b>
149.00	<b>Frame Rate (fps):</b>
1,280 x 1,021	<b>Pixels (H x V):</b>
4.8 x 4.8	<b>Pixel Size, H x V (µm):</b>
6.14 x 4.9	<b>Sensing Area, H x V (mm):</b>
ON Semi PYTHON 1300	<b>Imaging Sensor:</b>
Progressive Scan CMOS	<b>Type of Sensor:</b>
Global	<b>Shutter Type:</b>
10 bit	<b>Pixel Depth:</b>
10µs - 1s	<b>Exposure Time:</b>
56.19	<b>Dynamic Range (dB):</b>
USB3 Vision v1.0	<b>Machine Vision Standard:</b>

## Electrical

Not Specified	<b>Power Consumption (W):</b>
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## Hardware & Interface Connectivity

USB 3.0	<b>Interface:</b>
USB 3.1 Gen 1, Micro-B with Screw Locks	<b>Connector:</b>
Power over USB or via GPIO	<b>Power Supply:</b>
1 opto-isolated input, 1 opto-isolated output, 2 non-isolated bi-directional ports	<b>GPIOs:</b>
Hardware Trigger (GPIO) or Software Trigger	<b>Synchronization:</b>
Side Panel	<b>Interface Port Orientation:</b>
9-pin JST	<b>GPIO Connector Type:</b>

## Threading & Mounting

CS-Mount	<b>Mount:</b>
1/4-20 with Tripod Mount Adapter <a href="#">#88-210</a>	<b>Mounting Threads:</b>

## Environmental & Durability Factors

	<b>Operating Temperature (°C):</b>
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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