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# CM3-U3-13Y3C-S-BD 1/2" 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-U3-13Y3C-S-BD **Model Number:**

FLIR **Manufacturer:**

Chameleon@3 **Camera Series:**

## Physical & Mechanical Properties

40 × 31 (board level) **Dimensions (mm):**

27.9 **Weight (g):**

Board Level **Housing:**

## Sensor

16MB **Image Buffer:**

1/2" **Sensor Format:**

1.30 **Resolution (Megapixels):**

149.00 **Frame Rate (fps):**

1,280 x 1,024 **Pixels (H x V):**

4.8 x 4.8 **Pixel Size, H x V (µm):**

6.14 x 4.92 **Sensing Area, H x V (mm):**

ON Semi PYTHON 1300 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

10 bit **Pixel Depth:**

10µs - 1s **Exposure Time:**

56.19 **Dynamic Range (dB):**

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

## 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

S-Mount (M12 x 0.5) **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

[View](#) **Certificate of Conformance:**

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## 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
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