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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:
	Manufacturer:

FLIR

Camera Series:

Chameleon[®]3

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):

69.19

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 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