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CM3-U3-50S5M-CS 2/3" Chameleon®3 Monochrome Camera

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USB 3.0 FLIR Chameleon Camera

Stock **#36-077** **1 In Stock**

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Spectrum:
Monochrome

General

Type:
Monochrome Camera

Model Number:
CM3-U3-50S5M-CS

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:
2/3"

Resolution (Megapixels):
5.00

Frame Rate (fps):
35.00

Pixels (H x V):
2,448 x 2,048

Pixel Size, H x V (µm):
3.45 x 3.45

Sensing Area, H x V (mm):
8.45 x 7.07

Imaging Sensor:
Sony IMX264

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
12 bit

Exposure Time:
13µs - 31.995s

Dynamic Range (dB):
70.97

Machine Vision Standard:
USB3 Vision v1.0

Electrical

Power Consumption (W):
Not Specified

Hardware & Interface Connectivity

Interface:
USB 3.1 Gen 1

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

Certificate of Conformance:

View

Product Details

- USB3 Connectivity
- Lightweight Construction
- Compact Design

Teledyne Authorized Distributor

Teledyne FLIR IIS Chameleon®3: Easy integration with USB3

Ccompact 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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