

CM3-U3-13Y3M-CS 1/2" Chameleon®3 Monochrome Camera

#33-162



USB 3.0 FLIR Chameleon Camera

Teledyne Imaging 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.

General

Type:	Monochrome Camera
Manufacturer:	FLIR
Camera Family:	Chameleon®3
Model Number:	CM3-U3-13Y3M-CS

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
Imaging Sensor:	ON Semi PYTHON 1300
Type of Sensor:	Progressive Scan CMOS
Type of Shutter:	Global
Camera Sensor Format:	1/2"
Resolution (MegaPixels):	1.30
Pixels (H x V):	1,280 x 1,021
Pixel Size, H x V (µm):	4.8 x 4.8
Sensing Area, H x V (mm):	6.14 x 4.9
Frame Rate (fps):	149.00
Pixel Depth:	10 bit
Exposure Time:	10µs - 1s
Dynamic Range (dB):	55.84
Machine Vision Standard:	USB3 Vision v1.0

Electrical

Power Consumption (W):	Not Specified
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Hardware & Interface Connectivity

Video Output:	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) or Software Trigger
Interface Port Orientation:	Side Panel
GPIO Connector Type:	9-pin JST

Threading & Mounting

Mounting Threads:	¼-20 with Tripod Mount Adapter #88-210
Mount:	CS-Mount

Environmental & Durability Factors

Operating Temperature (°C):	0 to +45
Storage Temperature (°C):	-30 to +60



May 30, 2025

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

Stock No.	Description
33-162	CM3-U3-13Y3M-CS 1/2" Chameleon@3 Monochrome Camera

This item is EU RoHS (2015/863/EU) exempt based on **Exemption 7a**: lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead), and **Exemption 7c-l**: electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance
May 30, 2025

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | Compliance@edmundoptics.com



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Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications and quality assurance provisions. Please call 1-800-363-1992 should any questions arise from this shipment.



Jeff Harvey- EVP of Operations



May 30, 2025

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This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

Stock No.	Description
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This item contains substances listed on the REACH SVHC list as of 23 January 2024 in quantities exceeding 0.1% weight by weight, please contact compliance@edmundoptics.com if you require more information.

Please note the following:

- Entry 11 of Annex V of the REACH regulation EC 1907/2006 as amended by regulation 987/2008, exempts "non-hazardous" glass components from registration.
- Items considered to be packing materials and which do not form part of, or are not required for the operation of, the product, are not considered to be within scope of this declaration.
- EO does not routinely analyze products for substances not purposely added or specified within the design specifications, drawings and assembly procedures.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



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