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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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+

S\$805⁰⁰

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Monochrome	Spectrum:
General	
Monochrome Camera	Type:
CM3-U3-31S4M-CS	Model Number:
Manufacturer:	

FLIR	
Chameleon®3	Camera Series:
Physical & Mechanical Properties	
44 x 35 x 22.1 (excludes connectors and lens mount)	Dimensions (mm):
54.9	Weight (g):
Full	Housing:
Sensor	
16MB	Image Buffer:
1/1.8"	Sensor Format:
3.20	Resolution (Megapixels):
55.00	Frame Rate (fps):
2,048 x 1,536	Pixels (H x V):
3.45 x 3.45	Pixel Size, H x V (µm):
7.07 x 5.3	Sensing Area, H x V (mm):
Sony IMX265	Imaging Sensor:
Progressive Scan CMOS	Type of Sensor:
Global	Shutter Type:
12 bit	Pixel Depth:
11µs - 32s	Exposure Time:
69.19	Dynamic Range (dB):
USB3 Vision v1.0	Machine Vision Standard:
Electrical	
Not Specified	Power Consumption (W):
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	
CS-Mount	Mount:
¼-20 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	
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