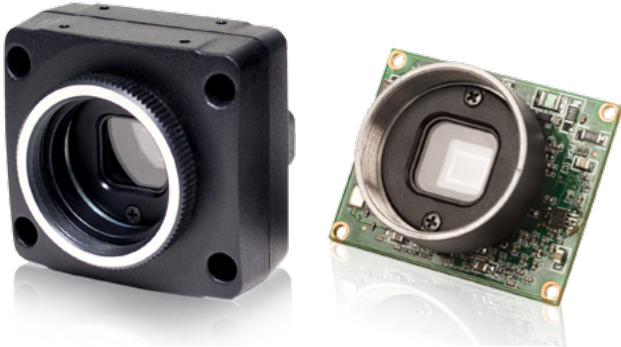


## FLIR CHAMELEON<sup>®</sup>

P/N: CMLN-13Y3C, USB 2.0

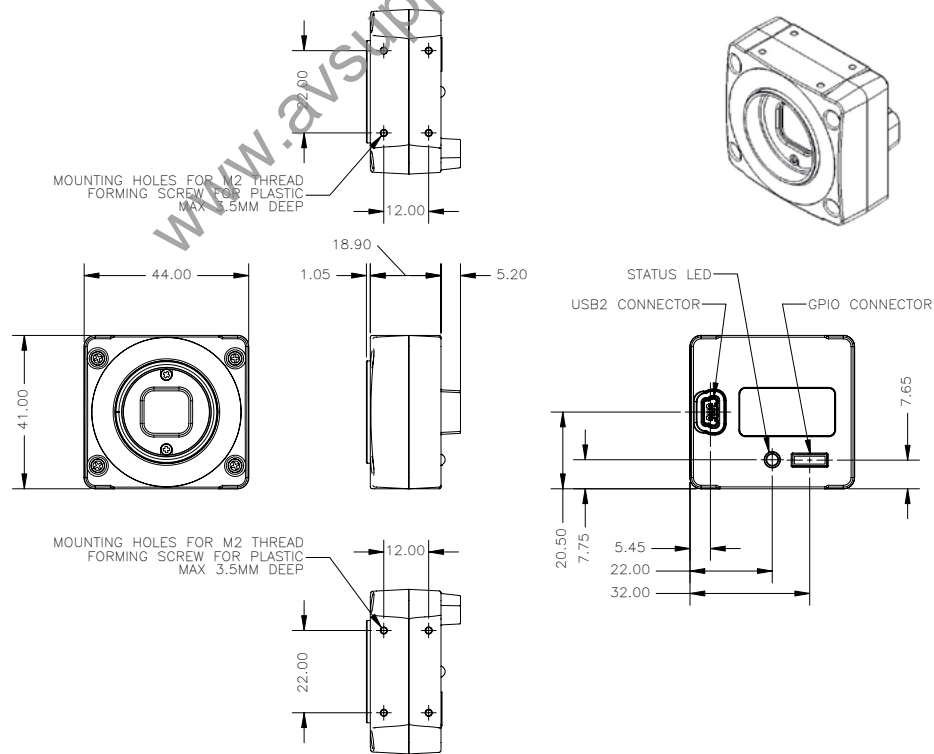


### 1.3 MP CCD + USB INTERFACE + COMPACT

A high sensitivity Sony EXview HAD CCD<sup>®</sup> sensor, combined with a high-speed USB 2.0 digital interface, makes the Chameleon an ideal choice for demanding imaging applications such as object and gesture tracking, test and measurement, life and bioscience, augmented reality, multitouch display, security and biometrics, and robot guidance.

### KEY FEATURES

- High quality 1.3 MP Sony EXview HAD CCD
- Compact and lightweight
- GPIO for trigger and strobe



MODEL	VERSION	MP	IMAGING SENSOR
CMLN-13S2M-CS	Mono	1.3 MP	<ul style="list-style-type: none"> <li>Sony ICX445 CCD, 1/3", 3.75 µm</li> <li>Global Shutter</li> <li>1296x964 at 18 FPS</li> </ul>
<b>A/D Converter</b>	12-bit		
<b>Image Data Output</b>	8-bit and 16-bit digital data		
<b>Image Data Formats</b>	Y8, Y16 (monochrome), 8-bit and 16-bit Raw Bayer data (color)		
<b>Partial Image Modes</b>	Pixel binning and region of interest (ROI) modes		
<b>Image Processing</b>	Color/Greyscale conversion, gamma, lookup table, white balance		
<b>Gain</b>	Automatic/Manual/One-Push Gain modes		
	0 dB to 24 dB		
<b>Gamma</b>	0.50 to 4.00		
<b>White Balance</b>	Automatic/manual modes, programmable via software		
<b>Digital Interface</b>	5-pin Mini-B USB 2.0 digital interface for camera control, video data transmission, and power		
<b>Transfer Rates</b>	480 Mbit/s		
<b>GPIO</b>	7-pin JST GPIO connector, 4 pins for trigger and strobe, 1 pin +3.3 V, 1 VEXT pin for external power		
<b>External Trigger Modes</b>	IIDC Trigger Modes 0, 1, 3, and 14		
<b>Synchronization</b>	Via external trigger or software trigger		
	Global Shutter		
<b>Shutter</b>	Automatic/Manual/One-Push/Extended Shutter modes		
	0.01 ms to >10 seconds (extended shutter mode)		
<b>Image Buffer</b>	32 MB frame buffer		
<b>Memory Channels</b>	3 memory channels for custom camera settings		
<b>Flash Memory</b>	256 KB		
<b>Dimensions</b>	25.5 mm x 44 mm x 41 mm (excluding lens holder and connectors)		
<b>Mass</b>	37 grams (without optics or tripod mounting bracket)		
<b>Power Consumption</b>	2 W, 4.745 to 5.25 V via Mini-B USB 2.0 interface or JST 7-pin GPIO connector		
<b>Camera Specification</b>	IIDC v1.31		
<b>Camera Control</b>	via FlyCapture SDK, CSRs, or third party software		
<b>Camera Updates</b>	In-field firmware updates		
<b>Lens Mount</b>	CS-mount (5 mm C-mount adapter included)		
<b>Temperature</b>	Operating: 0° to 45°C; Storage: -30° to 60°C		
<b>Emissions Compliance</b>	CE, FCC, RoHS		
<b>Operating System</b>	Windows XP SP1		
<b>Warranty</b>	One year		

### FLIR Integrated Imaging Solutions

#### CANADA

12051 Riverside Way  
Richmond, BC, Canada  
V6W 1K7  
T: +1 866.765.0827 (toll free)  
T: +1 604.242.9937  
F: +1 604.242.9938  
E: mv-sales@flir.com  
www.flir.com/iis

#### USA

T: +1 866.765.0827 (toll free)  
E: mv-na-sales@ptgrey.com

#### EUROPE

T: +49 7141 488817-0  
F: +49 7141 488817-99  
E: mv-eusales@flir.com

#### CHINA

T: +86 10 8215 9938  
F: +86 10 8215 9936  
E: mv-chinasales@flir.com

#### ASIA

E: mv-asiasales@ptgrey.com

### DISTRIBUTORS

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