FLIR CHAMELEON®

P/N: CMLN-13Y3C, USB 2.0

1.3 MP CCD + USB INTERFACE + COMPACT
A high sensitivity Sony EXview HAD CCD® 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

www.flir.com/iis
## Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VERSION</th>
<th>MP</th>
<th>IMAGING SENSOR</th>
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</thead>
<tbody>
<tr>
<td>CMLN-13S2M-CS</td>
<td>Mono</td>
<td>1.3 MP</td>
<td>Sony ICX445 CCD, 1/3&quot;, 3.75 μm</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Global Shutter</td>
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<td>1296x964 at 18 FPS</td>
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### A/D Converter
12-bit

### Image Data Output
8-bit and 16-bit digital data

### Image Data Formats
Y8, Y16 (monochrome), 8-bit and 16-bit Raw Bayer data (color)

### Partial Image Modes
Pixel binning and region of interest (ROI) modes

### Image Processing
Color/Greyscale conversion, gamma, lookup table, white balance

### Gain
Automatic/Manual/One-Push Gain modes

### Gamma
0 dB to 24 dB

### White Balance
0.50 to 4.00

### Digital Interface
5-pin Mini-B USB2.0 digital interface for camera control, video data transmission, and power

### Transfer Rates
480 Mbit/s

### GPIO
7-pin JST GPIO connector, 4 pins for trigger and strobe, 1 pin +3.3 V, 1 VEXT pin for external power

### External Trigger Modes
IIDC Trigger Modes 0, 1, 3, and 14

### Synchronization
Via external trigger or software trigger

### Shutter
Global Shutter

### Image Buffer
32 MB frame buffer

### Memory Channels
3 memory channels for custom camera settings

### Flash Memory
255 KB

### Dimensions
25.5 mm x 44 mm x 41 mm (excluding lens holder and connectors)

### Mass
37 grams (without optics or tripod mounting bracket)

### Power Consumption
2 W, 4.745 to 5.25 V via Mini-B USB 2.0 interface or JST 7-pin GPIO connector

### Camera Specification
IIDC v1.31

### Camera Control
via FlyCapture SDK, CSRs, or third party software

### Camera Updates
In-field firmware updates

### Lens Mount
CS-mount (5 mm C-mount adapter included)

### Temperature
Operating: 0° to 45°C; Storage: -30° to 60°C

### Emissions Compliance
CE, FCC, RoHS

### Operating System
Windows XP SP1

### Warranty
One year