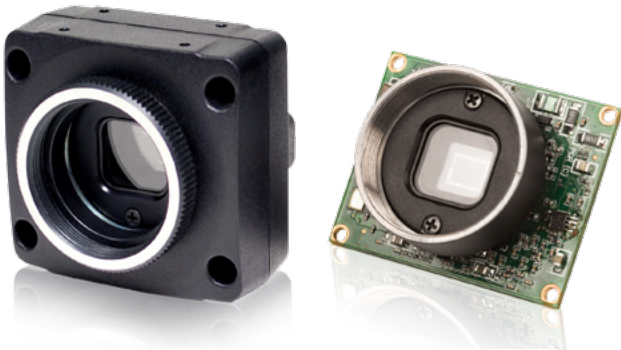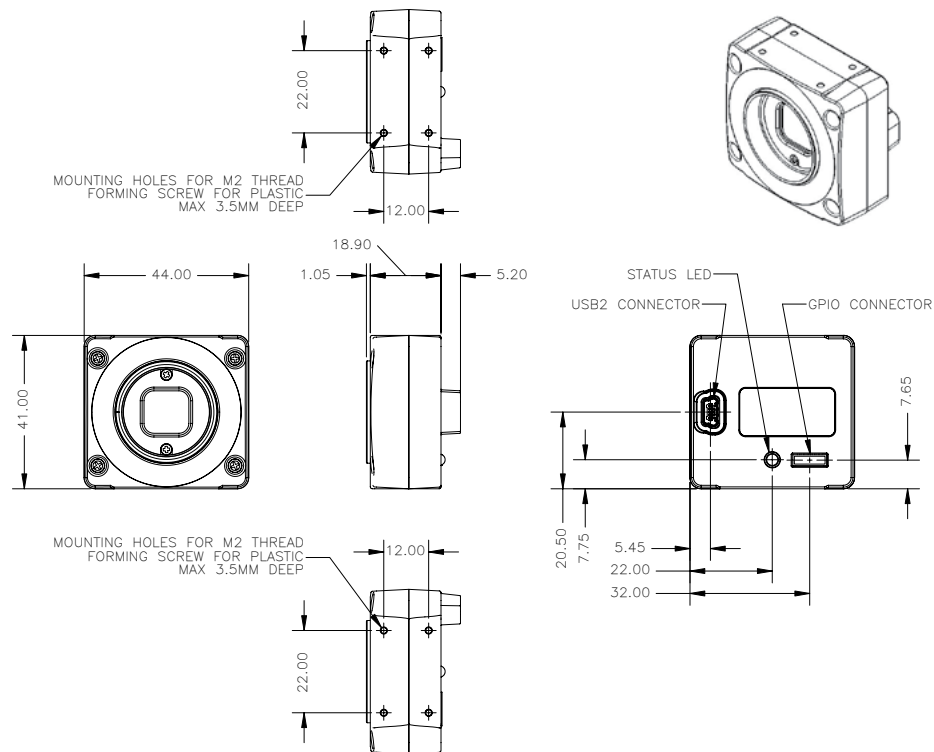# FLIR *CHAMELEON*®

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 hi-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

USB 2.0

44mm — 25.5mm — 41mm

22.00

MOUNTING HOLES FOR M2 THREAD
FORMING SCREW FOR PLASTIC
MAX 3.5MM DEEP

12.00

18.90

44.00   1.05   5.20

41.00

MOUNTING HOLES FOR M2 THREAD
FORMING SCREW FOR PLASTIC
MAX 3.5MM DEEP

12.00

22.00

STATUS LED
USB2 CONNECTOR   GPIO CONNECTOR

7.65

20.50
7.75
5.45
22.00
32.00

Specifications

MODEL	VERSION	MP	IMAGING SENSOR
CMLN-13S2M-CS	Mono	1.3 MP	■ Sony ICX445 CCD, 1/3", 3.75 μm ■ Global Shutter ■ 1296x964 at 18 FPS

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 0 dB to 24 dB
Gamma	0.50 to 4.00
White Balance	Automatic/manual modes, programmable via software
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 Automatic/Manual/One-Push/Extended Shutter modes 0.01 ms to >10 seconds (extended shutter mode)
Image Buffer	32 MB frame buffer
Memory Channels	3 memory channels for custom camera settings
Flash Memory	256 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

◆FLIR® | The World's Sixth Sense®