

C2

INDUSTRIAL USB CAMERAS WITH CS LENS MOUNT AND H.
264 ON-BOARD ENCODER

DATASHEET



KUROKESU

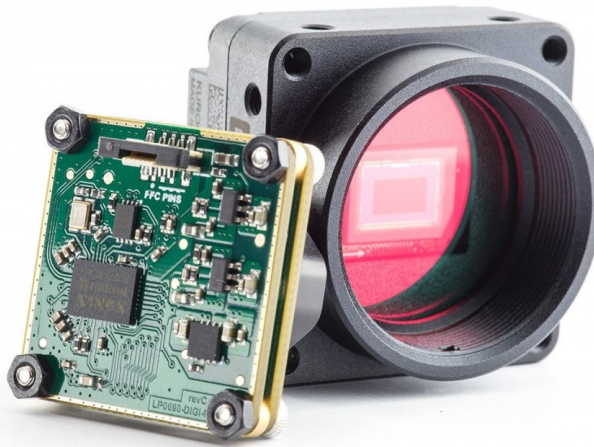
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Overview

C2 family cameras are based on with Sony [Exmo R](#) Starvis IMX290 sensor and offers h.264/MHPEG/YUYV compressions over USB interface.

There are few camera versions:

Camera model	Lens mount	Microphones	Connector
C2_USBC	CS	No	USB-C
C2_USBC_MIC	CS	Yes	USB-C
C2_BOARD_FFC_M12	M12	No	FFC 0.5mm 6p



Features

- 1"-20TPI CS / M12 lens mount
- Multiple mounting options (all side walls and top has M3 tapped holes) for machine vision or robotics
- Board mount option
- Optional 1/4-20 UNC thread for tripod mounting
- Format: 1/2.8-inch (6.46mm)
- Sensor: Sony IMX290 Color / Mono
- MJPEG/h.264/YUY2 compression
- 1920x1080 @ 30fps
- UVC compatible
- Sensor pixel size: 2.9µm x 2.9µm
- Sensor dynamic range: 66db
- SNR max: 40.5db
- Operation temperature range: -50°C...+85°C
- USB 2.0
- Interchangeable filters (650nm installed by default)
- High quality industrial black anodized aluminum case / lens mount
- Non cropped sensor operation in all resolutions
- Each camera has unique serial number
- RoHS, REACH, CE certified

Specifications

Common specifications

Pixels	1920H x 1080V
Sensor size	5.63 x 3.17 mm
Shutter	Electronic Rolling Shutter
Sensor pixel size	2.9µm x 2.9µm
Frame rates	<ul style="list-style-type: none"> • h.264 – 30fps in all modes • MJPG – 30fps in all modes • YUV 4:2:2 (YUYV) <ul style="list-style-type: none"> ◦ 1920x1080 – 5fps ◦ 1280x720 – 10fps ◦ 640x480 – 30fps
Output frame sizes	1920x1080, 1280x720, 640x480, 640x360, 320x240, 320x180
Scan	Progressive
Manual control	<ul style="list-style-type: none"> • Exposure • White balance (2800°K – 9300°K) • Gain • Gamma • Backlight compensation • Sharpnes • Contrast • Saturation • Hue • Brightness • Anti-flicker frequency
Rated power	<ul style="list-style-type: none"> • 2W max • 350mA @ 5V – h.264 • 290mA @ 5V – MJPEG / YUYV
Supported OS	<ul style="list-style-type: none"> • Windows • OSX • Linux • Android
Sensor	Sony IMX290

Boxed camera

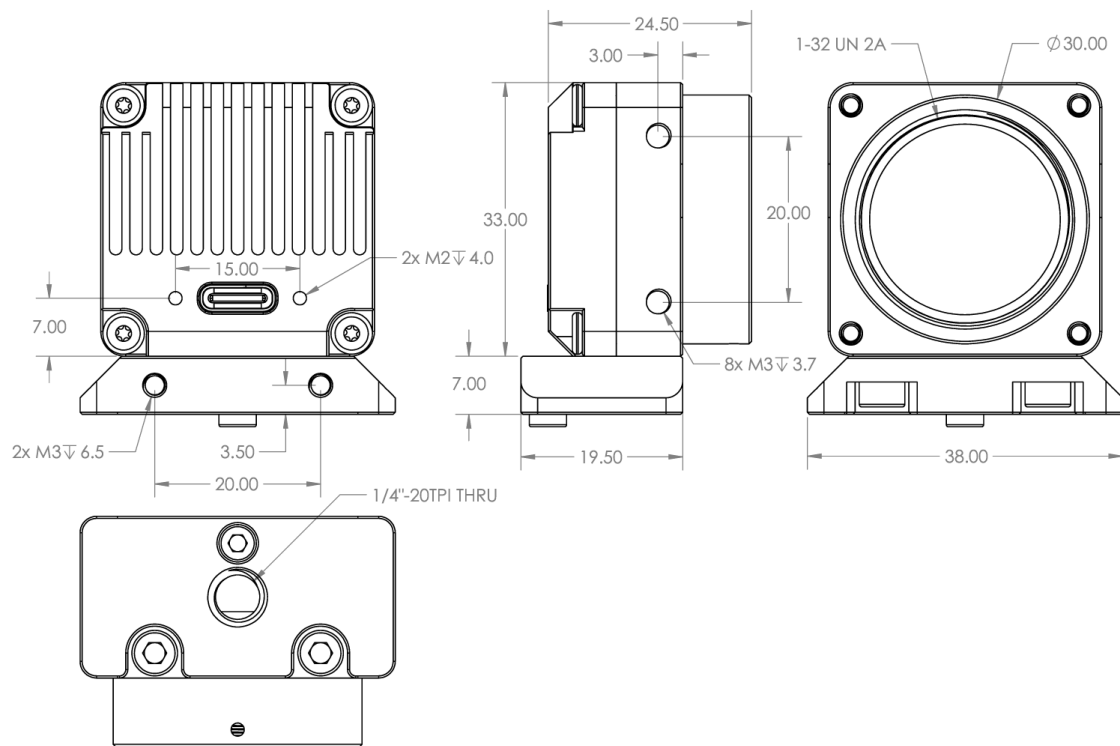
Weight	TBD
Dimensions	33×33×24.5mm
Ingress protection	IP40
Lens mount	CS-mount
Operational temperature	-50 ... 85°C (non condensing)

Board camera

Weight	TBD
Dimensions	TBD
Ingress protection	TBD
Lens mount	M12
Operational temperature	-50 ... 65°C (non condensing)

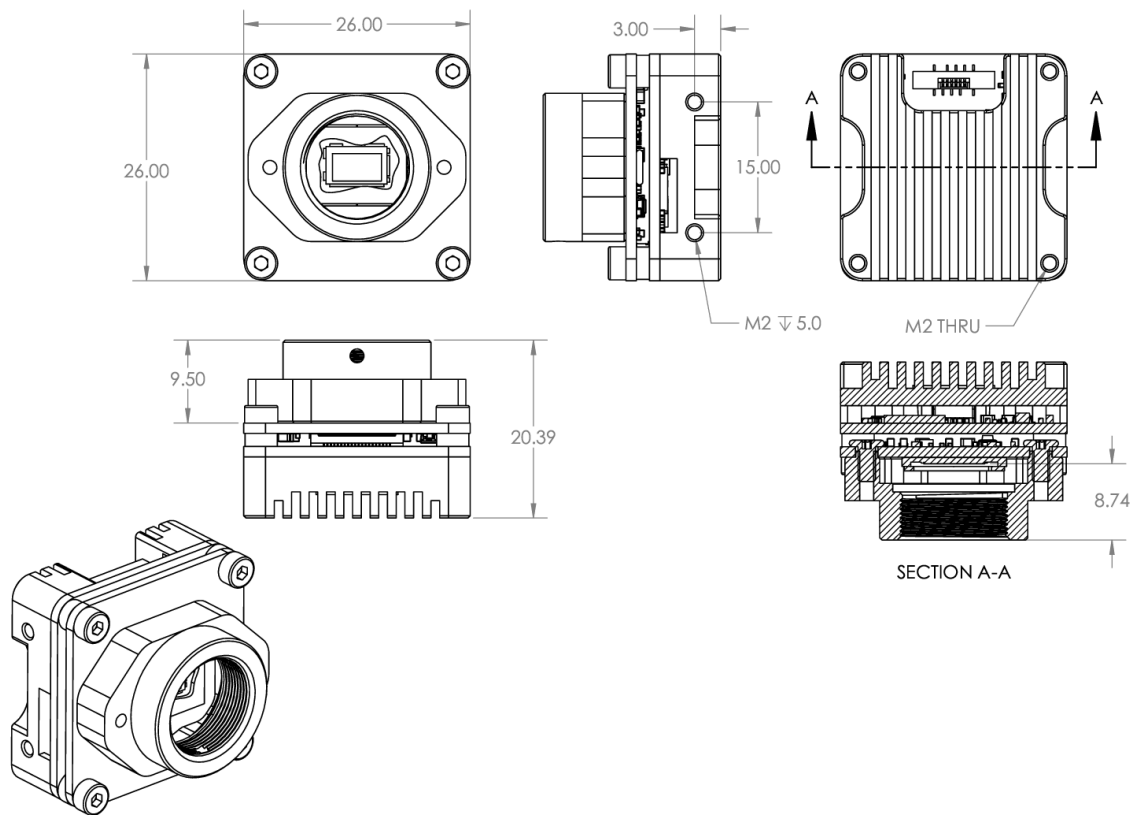
Dimensions

Boxed camera



i Tripod / Arca Swiss mount plate is optional

Board camera



i Back plate heat-sink is optional