

C1 PRO

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

DATASHEET



2021-05-27, Rev. #32

2 OVERVIEW

Overview

C1 family camera **C1 PRO** with Sony Exmo R Starvis IMX290 sensor offers h.264/MHPEG/YUYV compressions over USB interface.





3 FEATURES

Features

- 1"-20TPI mount for CS lens
- Multiple mounting options (all side walls and top has M3 tapped holes) for machine vision or robotics
- 1/4-20 UNC thread for tripod mounting
- Format: 1/2.8-inch (6.46mm)
- Sensor: Sony IMX290
- 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 (shortpass 650nm installed by default)
- High quality industrial black anodized aluminum case
- Non cropped sensor operation in all resolutions
- Each camera has unique serial number
- RoHS, REACH, CE certified

Specifications

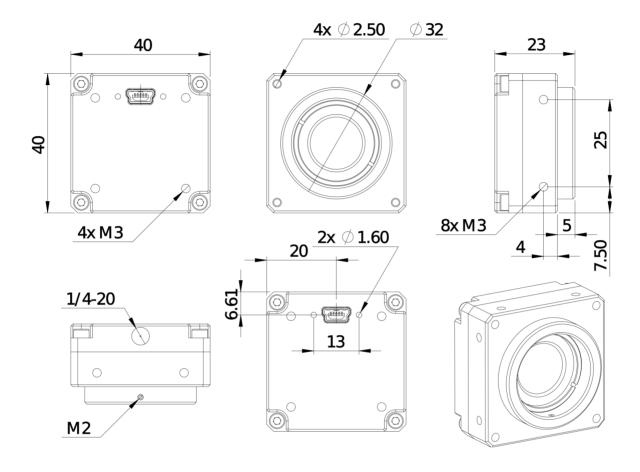
Pixels	1920H x 1080V
Sensor size	5.63 x 3.17 mm
Shutter	Electronic Rolling Shutter
Sensor pixel size	2.9μm x 2.9μm
Frame rates	 h.264 - 30fps in all modes MJPG - 30fps in all modes YUV 4:2:2 (YUYV) 1920x1080 - 5fps 1280x720 - 10fps 640x480 - 30fps
Output frame sizes	1920×1080, 1280×720, 640×480, 640×360, 320×240, 320×180
Scan	Progressive
Manual control	 Exposure White balance (2800°K - 9300°K) Gain Gamma Backlight compensation Sharpnes Contrast Saturation Hue Brightness Anti-flicker frequency
Rated power	 2W max 350mA @ 5V - h.264 290mA @ 5V - MJPEG / YUYV
Interchangeable filter	17×17×0.5mm. Low pass 650nm filter installed by default, high pass 850nm filter available on request, other filters also can be supplied on special order
Supported OS	WindowsOSXLinuxAndroid

5 SPECIFICATIONS

Sensor	Sony IMX290
Weight	53g
Dimensions	40×40×23mm
Ingress protection	IP40
Lens mount	CS-mount
Operational temperature	-50 85°C (non condensing)

6 DIMENSIONS

Dimensions



3D model

Most of the Kurokesu product 3D modes uploaded to Github