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# C1 MICRO

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COMPACT AND LIGHTWEIGHT USB CAMERA WITH M12  
LENS MOUNT AND H.264 ON-BOARD ENCODER

## DATASHEET



**KUROKESU**

2021-02-07, Rev. #15

## Overview

C1 family camera **C1 MICRO** with Onsemi AR0330 sensor offers h.264/MHPEG/YUYV compressions over USB interface.



## Features

- M12 (S-mount) lens mount
- Multiple mounting options (all side walls and top has M3 tapped holes) for machine vision or robotics
- M2 threads for mounting
- Format: 1/3-inch (5.8mm)
- Sensor: Onsemi AR0330
- MJPEG/h.264/YUY2 compression
- 1920x1080 @ 30fps
- UVC compatible
- Sensor pixel size: 2.2 $\mu$ m x 2.2 $\mu$ m
- Sensor dynamic range: 72.4db
- Sensor sensitivity: 1.9 V/lux-sec (550nm)
- Operation temperature range: -50°C...+65°C
- USB 2.0
- High quality industrial black anodized aluminum case
- Non cropped sensor operation in all resolutions
- Each camera has unique serial number
- RoHS, REACH, CE certified

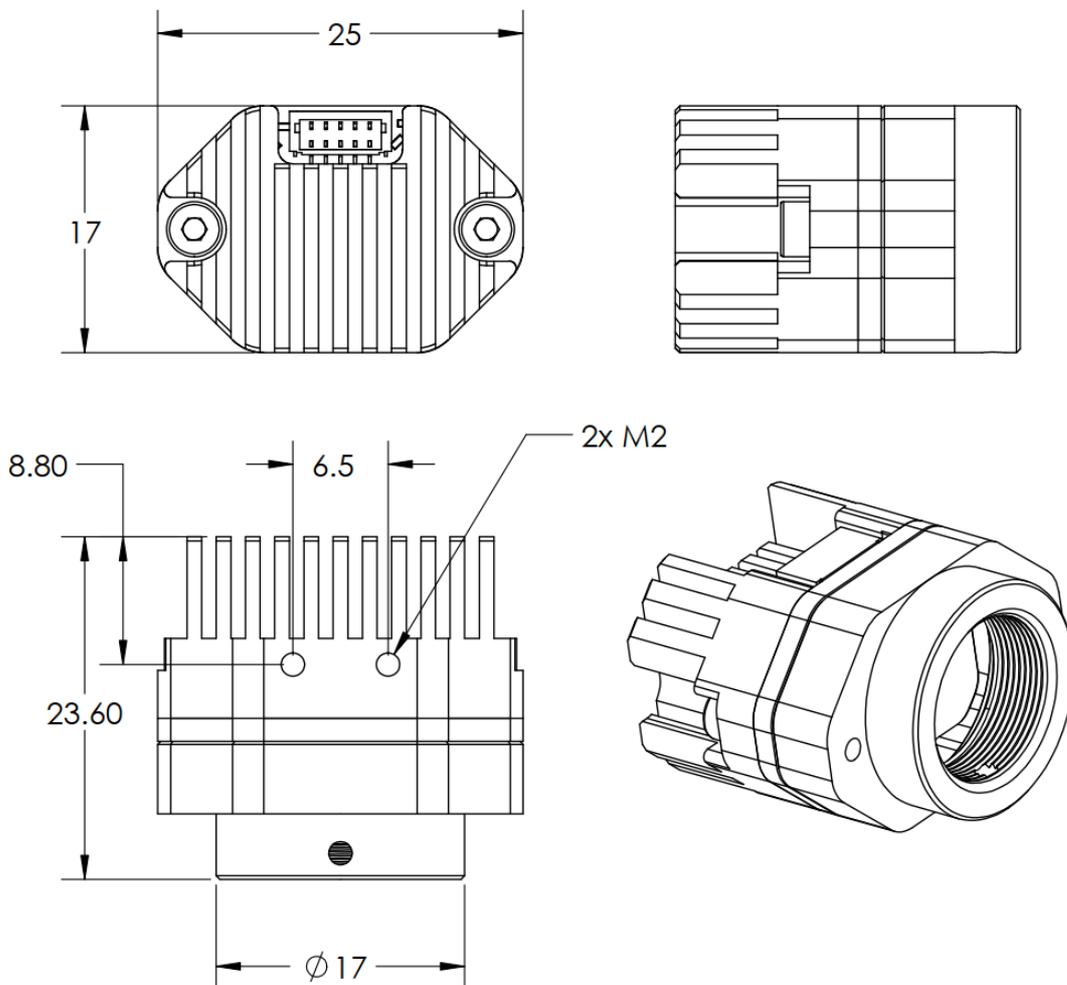
# Specifications

## Specifications

Pixels	2304H x 1536V
Sensor size	5.07mm x 3.38mm
Shutter	Electronic Rolling Shutter
Sensor pixel size	2.2 $\mu$ m x 2.2 $\mu$ m
Frame rates	<ul style="list-style-type: none"> <li>• h.264 - 30fps in all modes</li> <li>• MJPG - 30fps in all modes</li> <li>• YUV 4:2:2 (YUYV) <ul style="list-style-type: none"> <li>◦ 1920x1080 - 5fps</li> <li>◦ 1280x720 - 10fps</li> <li>◦ 640x480 - 30fps</li> </ul> </li> </ul>
Output frame sizes	1920x1080, 1280x720, 640x480, 640x360, 320x240, 320x180
Scan	Progressive
Manual control	<ul style="list-style-type: none"> <li>• Exposure</li> <li>• White balance (2800°K - 9300°K)</li> <li>• Gain</li> <li>• Gamma</li> <li>• Backlight compensation</li>   <li>• Sharpnes</li> <li>• Contras</li> <li>• Saturation</li> <li>• Hue</li> <li>• Brightness</li> <li>• Anti-flicker frequency</li> </ul>
Rated power	<ul style="list-style-type: none"> <li>• 2W max</li> <li>• 350mA @ 5V - h.264</li> <li>• 290mA @ 5V - MJPEG / YUYV</li> </ul>
Supported OS	<ul style="list-style-type: none"> <li>• Windows</li> <li>• OSX</li> <li>• Linux</li> <li>• Android</li> </ul>
Sensor	Onsemi AR0330

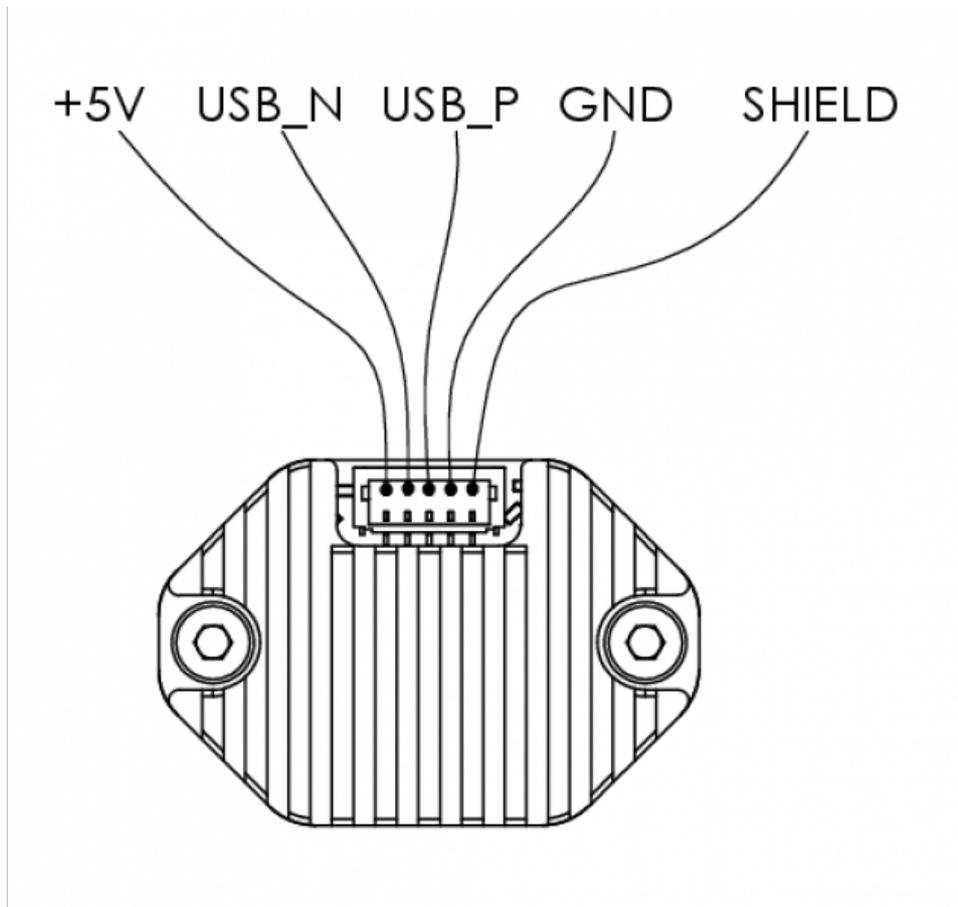
Weight	12g
Dimensions	25×17×28.8mm
Ingress protection	IP40
Lens mount	M12-mount
Operational temperature	-50 ... +65°C

## Dimensions



## Wiring

**i** Receptacle: Wurth Electronics 665305124022



Camera comes with 1m custom made USB cable [CABLE\\_USB\\_1MM](#)



### 3D model

**i** Most of the Kurokesu product 3D modes uploaded to [Github](#)