

# C1 MICRO

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

### **DATASHEET**



2021-02-07, Rev. #15

2 OVERVIEW

## Overview

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



3 FEATURES

### **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: 2.2μm x 2.2μm
- 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

4 SPECIFICATIONS

# **Specifications**

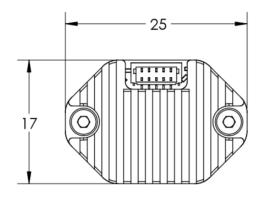
### Specifications

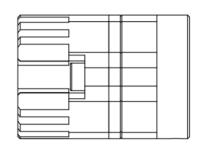
Sensor size  Shutter  Electronic Rolling Shutter  Sensor pixel size  2.2 µm x 2.2 µm  h.264 - 30 fps in all modes MJPG - 30 fps in all modes YUV 4:2:2 (YUYV) 1920x1080 - 5 fps 1280x720 - 10 fps 640x480 - 30 fps 1920x1080, 1280x720, 640x480, 640x360, 320x240, 320x180  Scan  Progressive  Exposure White balance (2800°K - 9300°K) Gaim Gamma Backlight compensation  **Sharpnes** Contras** Saturation Hue Brightness Anti-flicker frequency  **Anti-flicker frequency  **Windows** OSX Linux Android  **Supported OS  **Supported OS  **Supported OS  **Onsemi AR0330	Pixels	2304H x 1536V
2.2μm x 2.2μm   2.2μm x 2.2μm	Sensor size	5.07mm x 3.38mm
h.264 - 30fps in all modes   MJPG - 30fps in all modes   MJPG - 30fps in all modes   MJPG - 30fps in all modes   YUV 4:2:2 (YUVV)   1920x1080 - 5fps   1280x720 - 10fps   640×480 - 30fps   64	Shutter	Electronic Rolling Shutter
• MJPG - 30fps in all modes   • YUV 4:2:2 (YUYV)   • 1920x1080 - 5fps   • 1280×720 - 10fps   • 640×480 - 30fps	Sensor pixel size	2.2μm x 2.2μm
Output frame sizes  320×240, 320×180  Progressive  Exposure White balance (2800°K - 9300°K) Gain Gamma Backlight compensation  Manual control  Sharpnes Contras Saturation Hue Brightness Anti-flicker frequency  2W max 350mA @ 5V - h.264 290mA @ 5V - MJPEG / YUYV  Windows OSX Linux Android	Frame rates	<ul> <li>MJPG - 30fps in all modes</li> <li>YUV 4:2:2 (YUYV)</li> <li>1920x1080 - 5fps</li> <li>1280×720 - 10fps</li> </ul>
Exposure     White balance (2800°K - 9300°K)     Gain     Gamma     Backlight compensation  Manual control  Sharpnes     Contras     Saturation     Hue     Brightness     Anti-flicker frequency  2W max     350mA @ 5V - h.264     290mA @ 5V - MJPEG / YUYV  Windows     OSX     Linux     Android	Output frame sizes	320×240,
• White balance (2800°K - 9300°K) • Gain • Gamma • Backlight compensation  Manual control  • Sharpnes • Contras • Saturation • Hue • Brightness • Anti-flicker frequency  • 2W max • 350mA @ 5V - h.264 • 290mA @ 5V - MJPEG / YUYV  • Windows • OSX • Linux • Android	Scan	Progressive
<ul> <li>Supported OS</li> <li>• 350mA @ 5V - h.264</li> <li>• 290mA @ 5V - MJPEG / YUYV</li> <li>• Windows</li> <li>• OSX</li> <li>• Linux</li> <li>• Android</li> </ul>	Manual control	<ul> <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> </ul>
• OSX • Linux • Android	Rated power	• 350mA @ 5V - h.264
Sensor Onsemi AR0330	Supported OS	• OSX • Linux
	Sensor	Onsemi AR0330

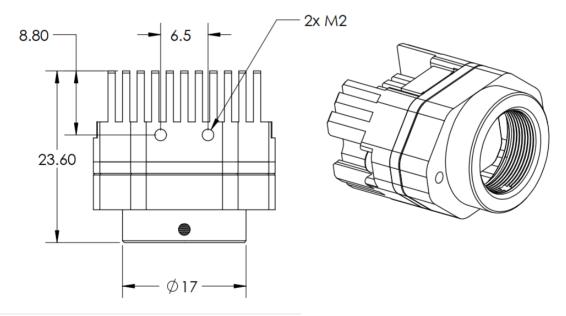
5 SPECIFICATIONS

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

#### Dimensions



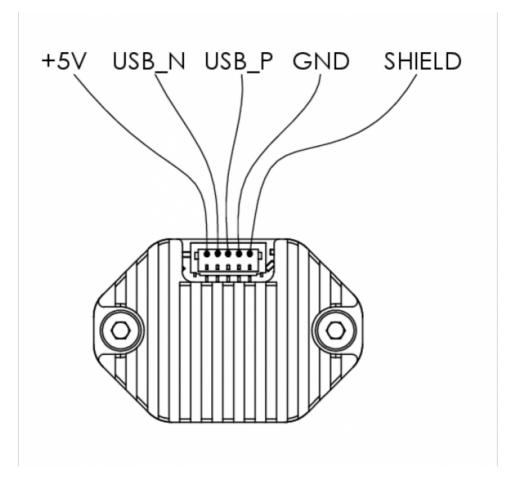




### Wiring

• Receptacle: Wurth Electronics 665305124022

6 SPECIFICATIONS



Camera comes with 1m custom made USB cable CABLE\_USB\_1MM



#### 3D model

Most of the Kurokesu product 3D modes uploaded to Github