

# C1 MICRO

Compact and lightweight USB camera with M12 lens mount and h.264 on-board encoder

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# 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: 2.2µm 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



# Specifications

## Specifications

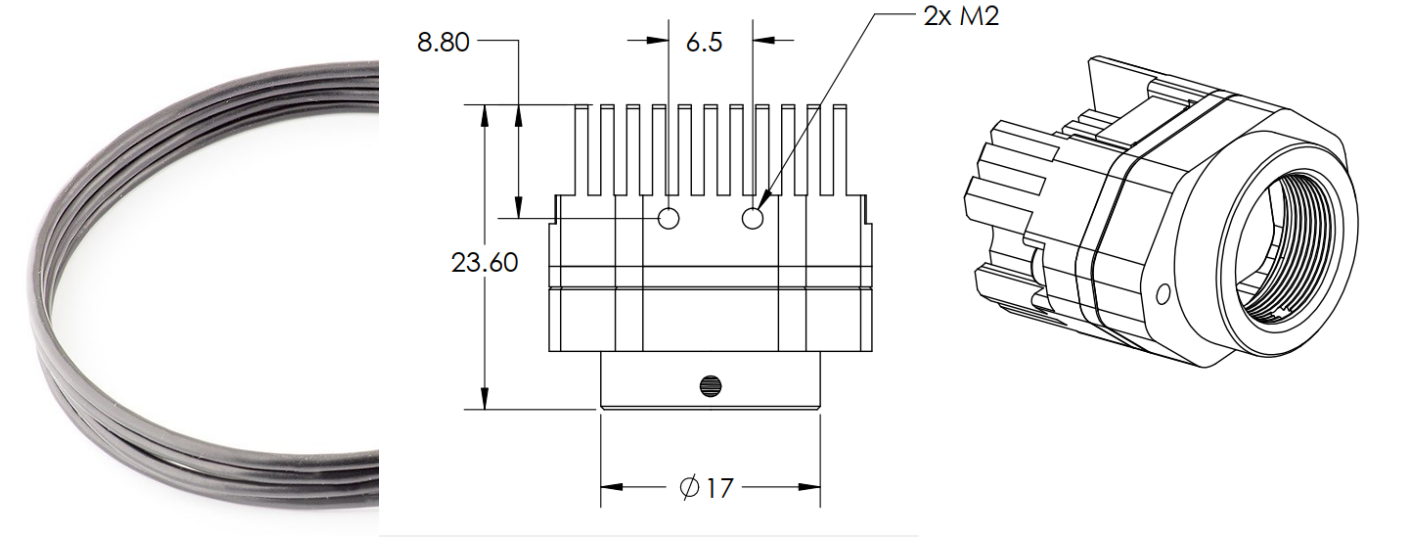
Pixels	2304H x 1536V
Sensor size	5.07mm x 3.38mm
Shutter	Electronic Rolling Shutter
Sensor pixel size	2.2µm x 2.2µm
Frame rates	<ul style="list-style-type: none"><li>• h.264 – 30fps in all modes</li><li>• MJPG – 30fps in all modes</li><li>• YUV 4:2:2 (YUYV)<ul style="list-style-type: none"><li>◦ 1920x1080 – 5fps</li><li>◦ 1280x720 – 10fps</li><li>◦ 640x480 – 30fps</li></ul></li></ul>
Output frame sizes	1920×1080, 1280×720, 640×480, 640×360, 320×240, 320×180
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>• Contrasts</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

# DimensionsWiring

Receptacle: Wurth Electronics [665305124022](#)

Camera comes with 1m cable  
+5V USB M



## 3D model

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