



# **Datasheet**

IMX390 2MP USB3.0 Camera Module

**B0476** 

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Version	Compile	Auditing	Authorize	DATE
V1.0	Bin L	Kai Z	Lee J	31.08.2023

#### 1. Overview

The Arducam USB 3.0 includes a diverse range of camera modules, each tailored to specific use cases and requirements. This datasheet will detail the specifications and features of each individual product for user reference, allowing you to make informed decisions about which camera module best suits your project.

#### 2. Disclaimer

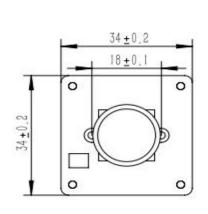
While we have made every effort to ensure the accuracy and completeness of the information presented in this datasheet, Arducam reserves the right to make changes to product specifications, features, and documentation without notice. All information provided in this datasheet is subject to change and should be considered for reference purposes only.

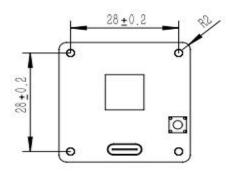
### 3. Technical Parameters

Image Sensor					
Sensor	IMX390				
Resolution	2MP				
Chroma	Color				
Shutter Type	Rolling Shutter				
Optical Format	1/2.7"				
Output Format	YUY2				
Pixel Size	3.0 μm x3.0 μm				
Sensor Active Area	1920(H)×1080(V)				
Frame rate (USB 3.0)	1920×1080@30fps				
Lens					
Focus Type	Manual Focus				
FOV	140°(D)×130°(H)×118°(V)				
Lens Mount	M12 Lens				
F.NO	F2.5				
Focal Length	2.72 mm				
Default Focus Range	50cm~∞				
USB Interface					
Interface	USB 3.2 Gen 1 device, backward compatible with USB 2.0 hosts				
Connector	Type-C reversible interface connector				
UVC Compliant	No additional drivers required				
Electrical and Mechanical					
Operating Voltage DC 5V +/- 5%					

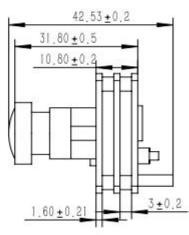
Operating Temp.	32°F-158°F (0°C to 70°C)				
Power Requirements	Max: 1.4W				
Camera Board Size	e 34×34 mm				
Functionality and Compatibility					
Supported OS	Windows, Linux				
Recommend Sample Application  PotPlayer for Windows, qv4l2 for Linux					

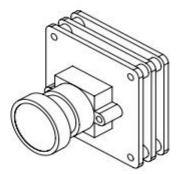
## 4. Camera Dimension Diagrams





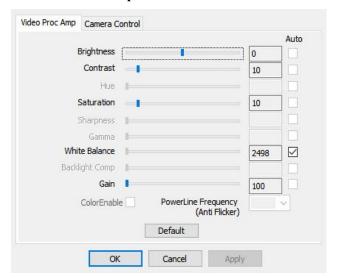
Unit: mm



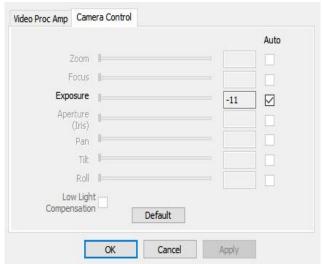


### 5. Camera Parameters Interface

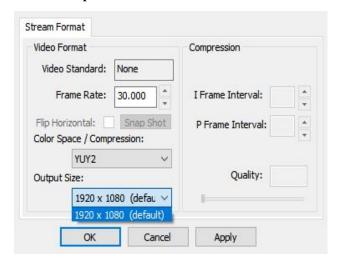
#### - Video Proc Amp

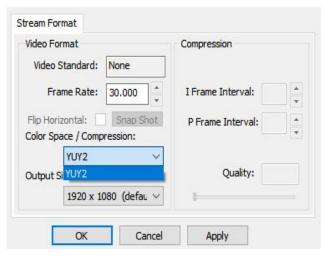


#### - Camera Control



#### - Video Capture Pin





## 6. Operating Condition

#### **6.1 YUY2 with USB 3.0**

The following table lists the power consumption of the B0476 YUY2 format with USB 3.0 devices.

Resolution	Max Frame Rate (fps)	Supply Voltage (V)	Typical Current (mA)	Power Consumption (W)
1920x1080	30	5	280	1.4
Power at Idle Condition	/	5	240	1.2

### 7. Contact Us

For any product-related questions, please feel free to contact us:

• Official website: www.arducam.com

• Contact form: <a href="https://www.arducam.com/contact-arducam/">https://www.arducam.com/contact-arducam/</a>

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