



Datasheet

64MP USB3.0 Camera Module

B0475

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Version	Compile	Auditing	Authorize	DATE
V1.0	Bin L	Kai Z	Lee J	23.08.2023

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

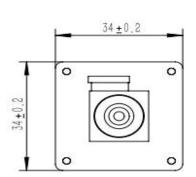
While we have made every effort to ensure the accuracy and completeness of the information presented in this datasheet, Arducam reserves the right to make changes to product specifications, features, and documentation without notice. All information provided in this datasheet is subject to change and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

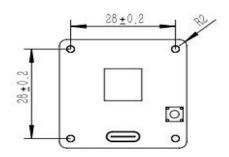
3. Technical Parameters

Image Sensor			
Resolution	64MP		
Chroma	Color		
Shutter Type	Rolling shutter		
Optical Format	1/1.32"		
Output Format	YUY2		
Pixel Size	1.008μm x1.008 μm		
Sensor Active Area	9248(H)×6944(V)		
Frame rate (USB 3.0)	9248×6944@1fps, 4624×3472/3840×2160@5fps, 2312×1736@30fps, 1920×1080@60fps, 1280×720@120fps		
Frame rate (USB 2.0)	1280*720@10fps		
Lens			
Focus Type	Motorized Focus		
FOV	84°(D)×68°(H)×54°(V)		
Lens Mount	Stock Lens		
F.NO	F1.9		
Focal Length	6.65 mm		
Default Focus Range	3m~∞		
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			

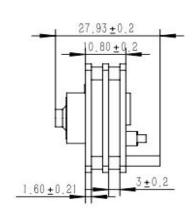
Operating Voltage	DC 5V +/- 5%		
Operating Temp. 32°F-158°F (0°C to 70°C)			
Power Requirements	Max: 2W, Min: 1.36W		
Camera Board Size	34×34 mm		
Functionality and Compatibility			
Supported OS	Windows, Linux		
Recommend Sample Application	PotPlayer for Windows, qv4l2 for Linux		
UVC Controls Brightness, Contrast, Saturation, White Balance (Auto/Ma Gain, Focus (Manual), Exposure (Manual/Auto)			

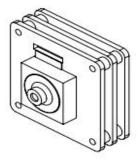
4. Camera Dimension Diagrams





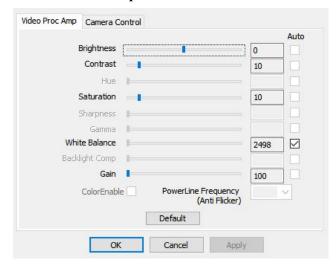
Unit: mm



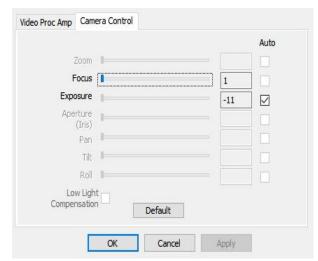


5. Camera Parameters Interface

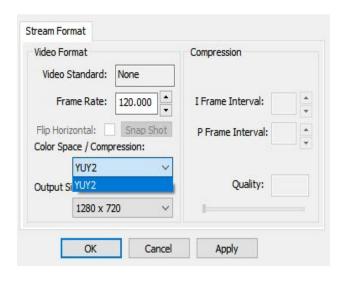
- Video Proc Amp

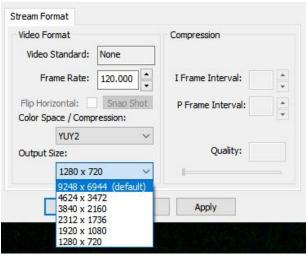


- Camera Control



- Video Capture Pin





6. Operating Condition

6.1 YUY2 with USB 3.0

The following table lists the power consumption of the B0475 YUY2 format with USB 3.0 devices.

Resolution	Max Frame Rate (fps)	Supply Voltage (V)	Typical Current (mA)	Power Consumption (W)
9248x6944	2	5	400	2
4624x3472	10	5	396	1.98
3840x2160	20	5	396	1.98
2312x1736	30	5	374	1.87
1920x1080	60	5	380	1.9
1280x720	120	5	380	1.9
Power at Idle Condition	/	5	86	0.43

6.2 YUY2 with USB 2.0

The following table lists the power consumption of the B0475 YUY2 format with USB 2.0 devices.

Resolution	Max Frame Rate (fps)	Supply Voltage (V)	Typical Current (mA)	Power Consumption (W)
1280x720	10fps	5	272	1.36
Power at Idle Condition	/	5	86	0.43

7. Contact Us

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

• Official website: www.arducam.com

• Contact form: https://www.arducam.com/contact-arducam/

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