



ArduCam B0357 Varifocal USB Camera Module User Guide

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ArduCam®

2.8-12mm Varifocal USB
Camera Module



**2MP AR0230
(SKU: B0357)
QUICK START GUIDE**

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INTRODUCTION

- **About Arducam**

Arducam has been a professional designer and manufacturer of SPI, MIPI, DVP, and USB cameras since 2012. We also offer customized turnkey design and manufacturing solution services for customers who want their products to be unique.

- **About this USB Camera**

The B0357 is a new member of Arducam's USB camera family. It's a 2MP, UVC compliant, varifocal USB 2.0 camera. This USB camera is based on the 1/2.7" AR0230 image sensor, and you can read more about its specs in the next chapter. Arducam also provides a sample application that demonstrates some of the features of this camera.

- **About UVC**

The B0357 is a UVC-compliant camera. The native UVC drivers of Windows, Linux, and Mac shall be compatible with this camera so that it does not require extra drivers to be installed.

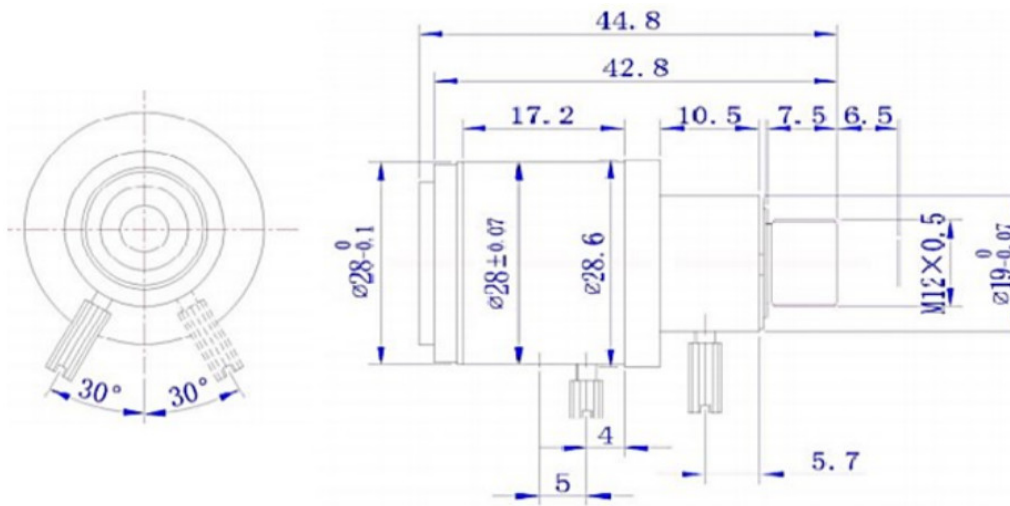
- **About Customer Service**

If you need our help or want to customize other models of USB cameras, feel free to contact us at support@arducam.com

SPECIFICATION

Camera	
Sensor	1/2.7" AR0230
Resolution	2MP 1928H x 1088V
Data Format	MJPEG/YUY2
Dynamic Range	Up to 96 dB
Frame rate	MJPEG 30fps@1920 x 1080/1280 x 720/1280 x 1024/1024 x 768/800 x 1080/1280 x 720; 30fps@640 x 480
Lens	
Field of View (FOV)	75°-35°(H)
Lens Mount	M12
Focal Length	2.8-12mm
IR Sensitivity	Integral IR filter, visible light only
Functionality and Compatibility	
Auto Controlled Features	Contrast/ Saturation/ Exposure / White balance / Acutance
System Compatibility	Win7/8/10, Linux, and Mac with UVC
Power	
Power Supply	DC 5V
Working Current	MAX 300mA
Physical	
Operating Temp.	-4°F~158°F (-20°C~+70°C)
Dimension	38x38x55mm
Connector No.	ZHR-4
Cable Length	3.3ft (1M)

LENS DIAGRAM



QUICK START

- How to download the program Download the APP Amcap from the following link

<https://www.arducam.com/downloads/app/AMCap.exe>NOTE:

1. For Mac OS, please open the native software facetime and select the video camera "USB Camera".
2. If used with the Andriod device, USB Camera app and connect adapter are needed.

- **How to connect the camera**

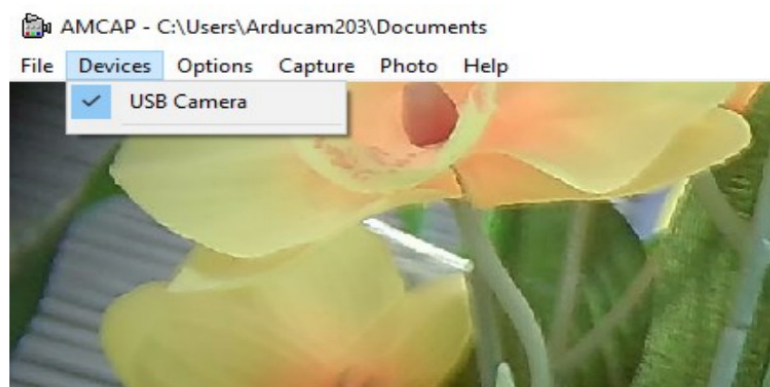
Connect the one end of the USB cable to the connector provided on the back of B0357, and connect the other end to the USB 2.0 host controller on the computer.

How to use the program (Windows demo only)

The Menu bar at the top of the shown image contains a few menu items and the current preview resolution and the frame rate are displayed on the bottom bar when the application is running. The following sections describe each of the menu items in detail.

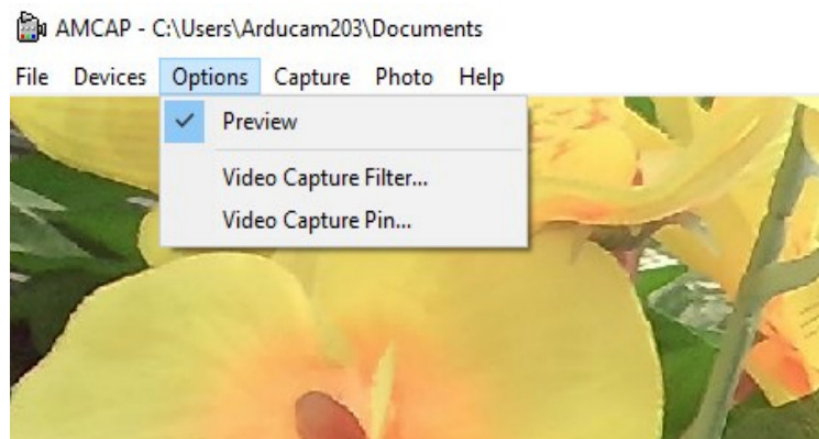
- **Menu>Devices**

This menu will show the available video devices to host PC. The B0357 is named "USB Camera".

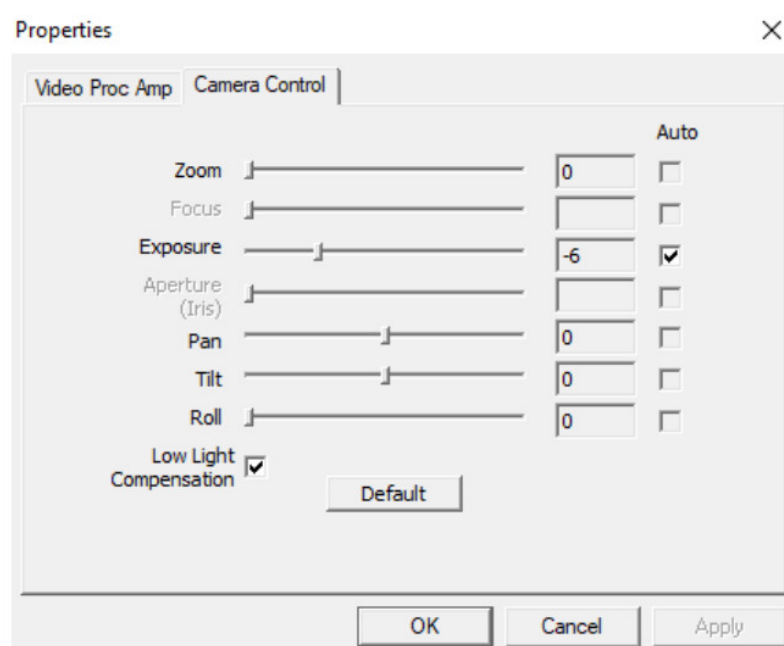
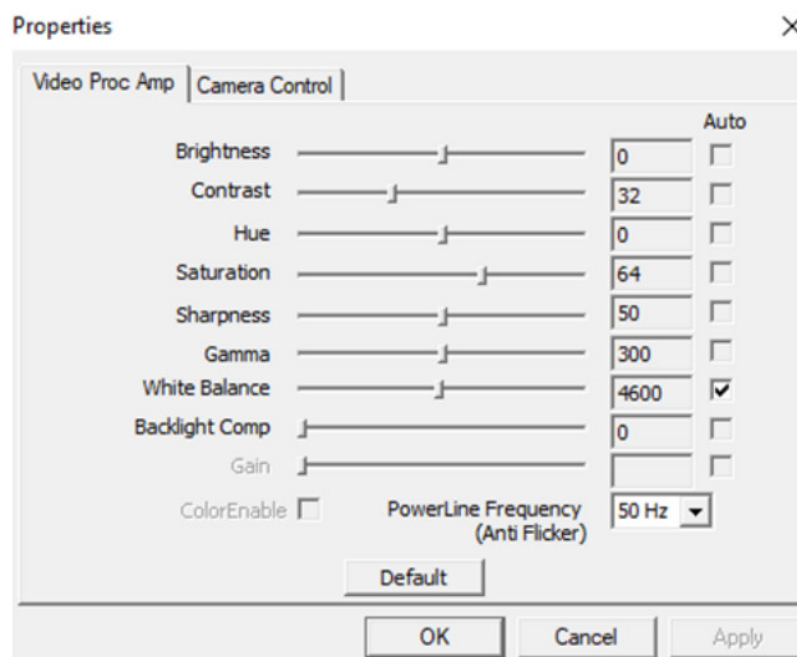


- **Menu>Options**

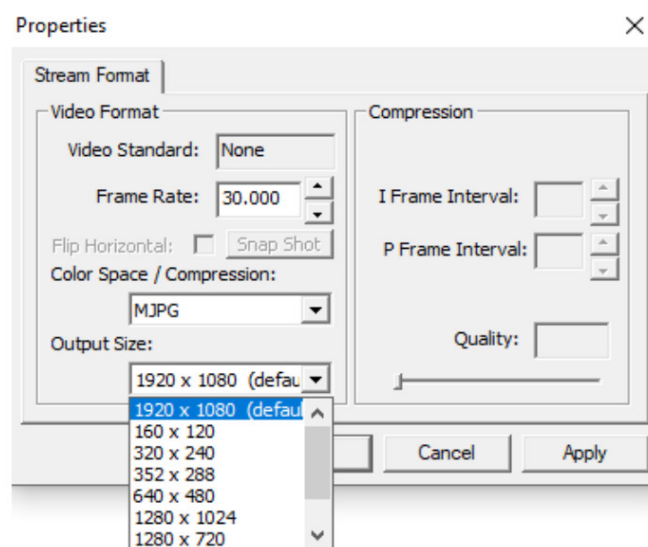
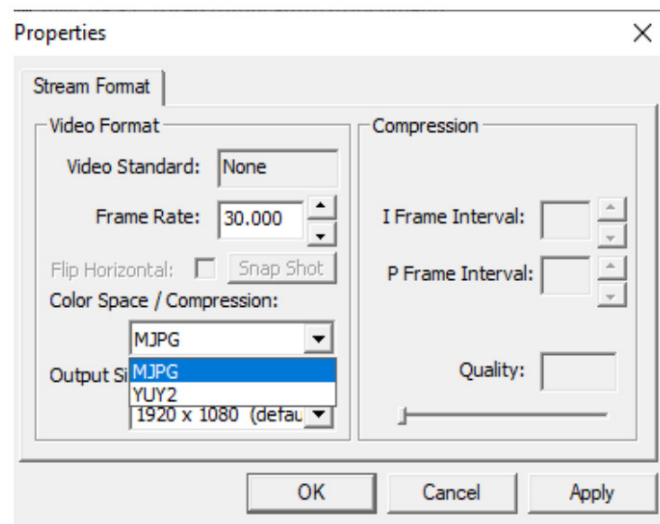
The options menu can be used to select the preview and image parameters supported by this camera.



Video Capture Filter -> Video Proc Amp/Camera Control

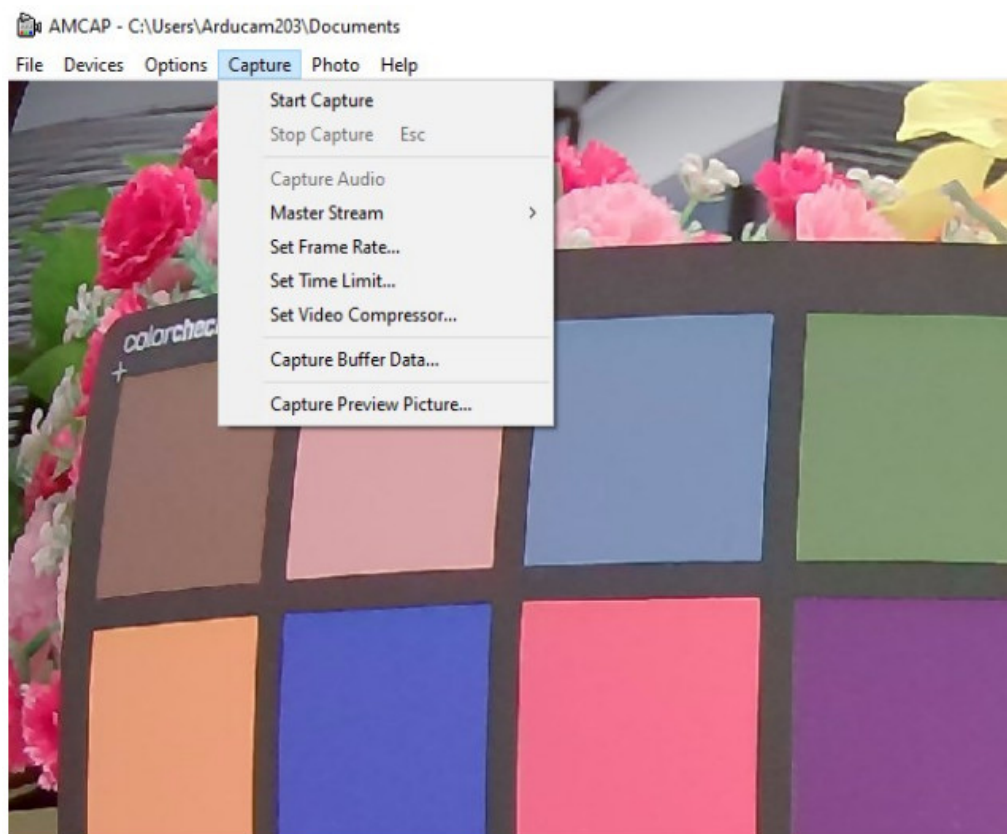


Video Capture Pin

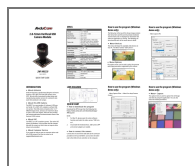


- **Menu> Capture**

The capture menu is used to capture the still image and video by using this application. You can also select the related parameters.



Documents / Resources



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References

- arducam.com/downloads/app/