

## ArduCam USB Camera Module B0196 User Guide

[Home](#) » [ArduCam](#) » ArduCam USB Camera Module B0196 User Guide 

### Contents

- [1 ArduCam USB Camera Module B0196](#)
- [2 INTRODUCTION](#)
- [3 QUICK START](#)
- [4 How to use the program \(Windows demo only\)](#)
- [5 SPECS](#)
- [6 Documents / Resources](#)
- [7 Related Posts](#)



**ArduCam USB Camera Module B0196**



## 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 B0196 is a new member of the Arducam's USB camera family. It's an 8MP, UVC compliant, USB 2.0 camera. This USB camera is based on 1/4" Sony IMX219 image sensor, and you can learn more about its specs in the next chapter. Arducam also provides the sample application that demonstrates some features of this camera.

- **About UVC**

The B0196 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](mailto:support@arducam.com)

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

- **How to connect the camera**

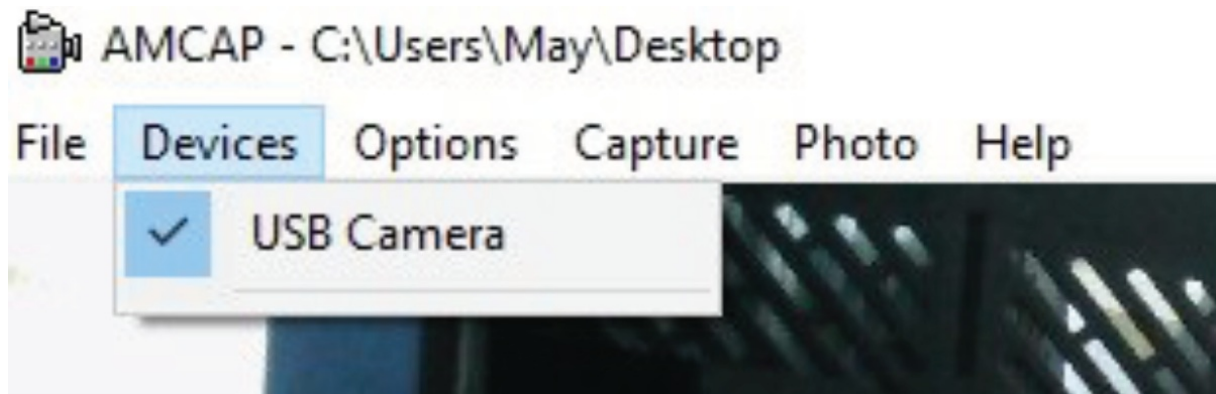
Connect the one end of the USB 2.0 cable to the USB 2.0 connector provided on the back of B0196, and connect the other end to the USB 2.0 host controller on the computer.

## How to use the program (Windows demo only)

The Menu bar at the top of the shown image contains 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

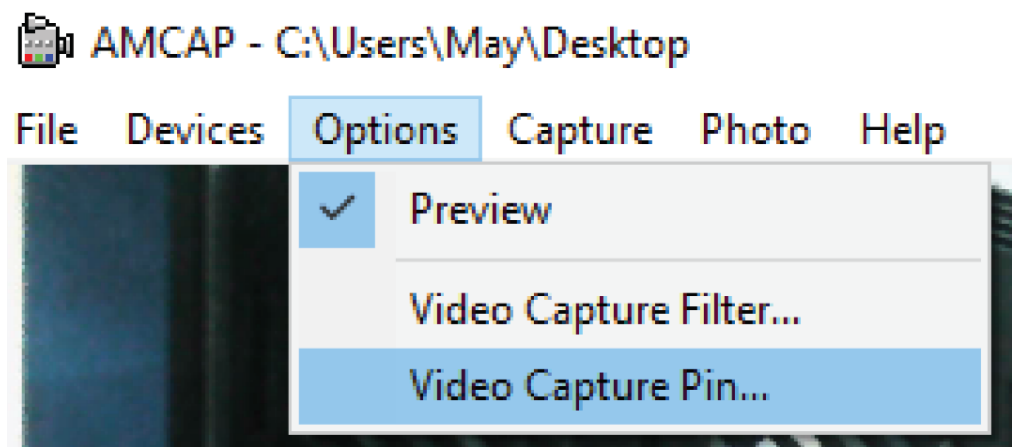
### Menu>Devices

This menu will show the available video devices to host PC. The B0196 named USB Camera.



### Menu>Options

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



### Video Capture Pin

## Properties



Stream Format

Video Format

Video Standard: None

Frame Rate: 15.000

Flip Horizontal: ☐ Snap Shot

Color Space / Compression:

MJPEG

Output Size: YUY2

MJPEG

3264 x 2448

Compression

I Frame Interval:

P Frame Interval:

Quality:

OK Cancel Apply

## Properties



Stream Format

Video Format

Video Standard: None

Frame Rate: 15.000

Flip Horizontal: ☐ Snap Shot

Color Space / Compression:

MJPEG

Output Size:

3264 x 2448

1280 x 960

1600 x 1200

1920 x 1080

2048 x 1536

2592 x 1944

3264 x 1832

3264 x 2448

Compression

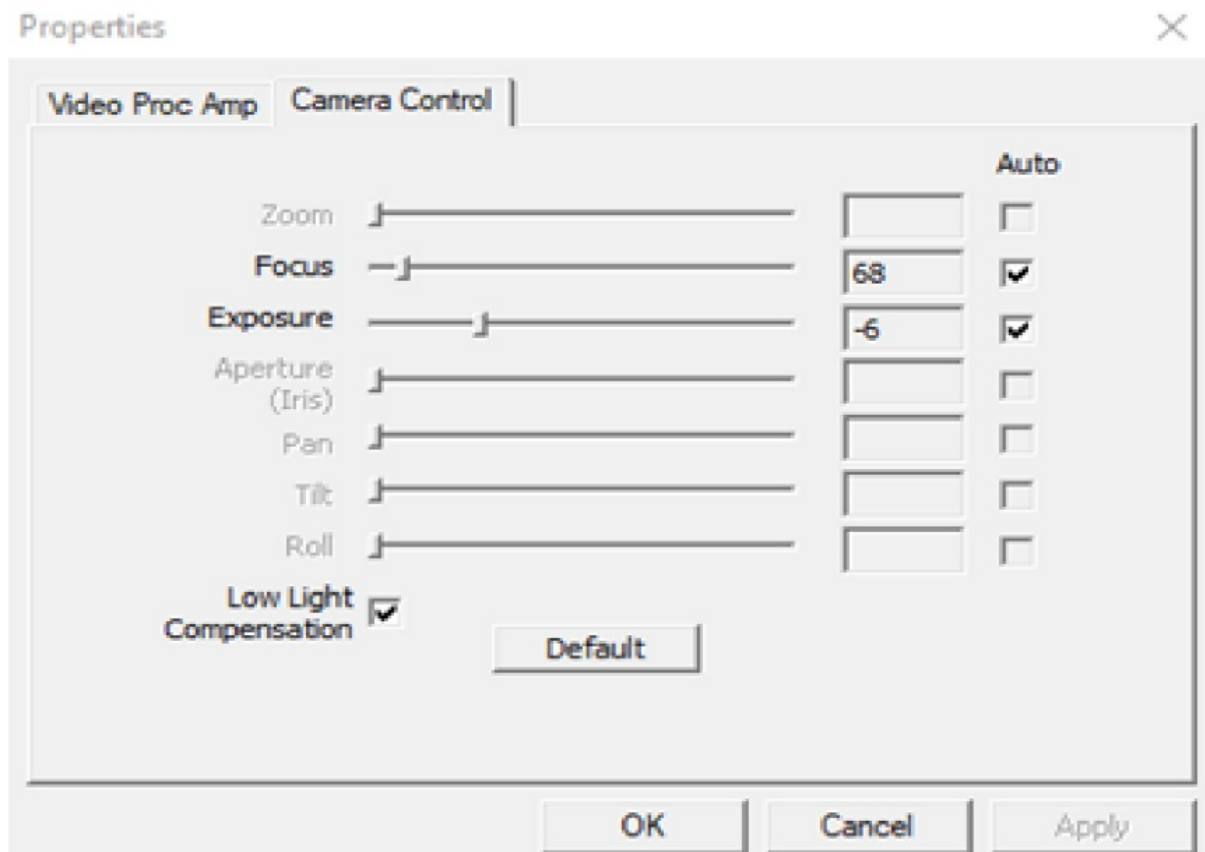
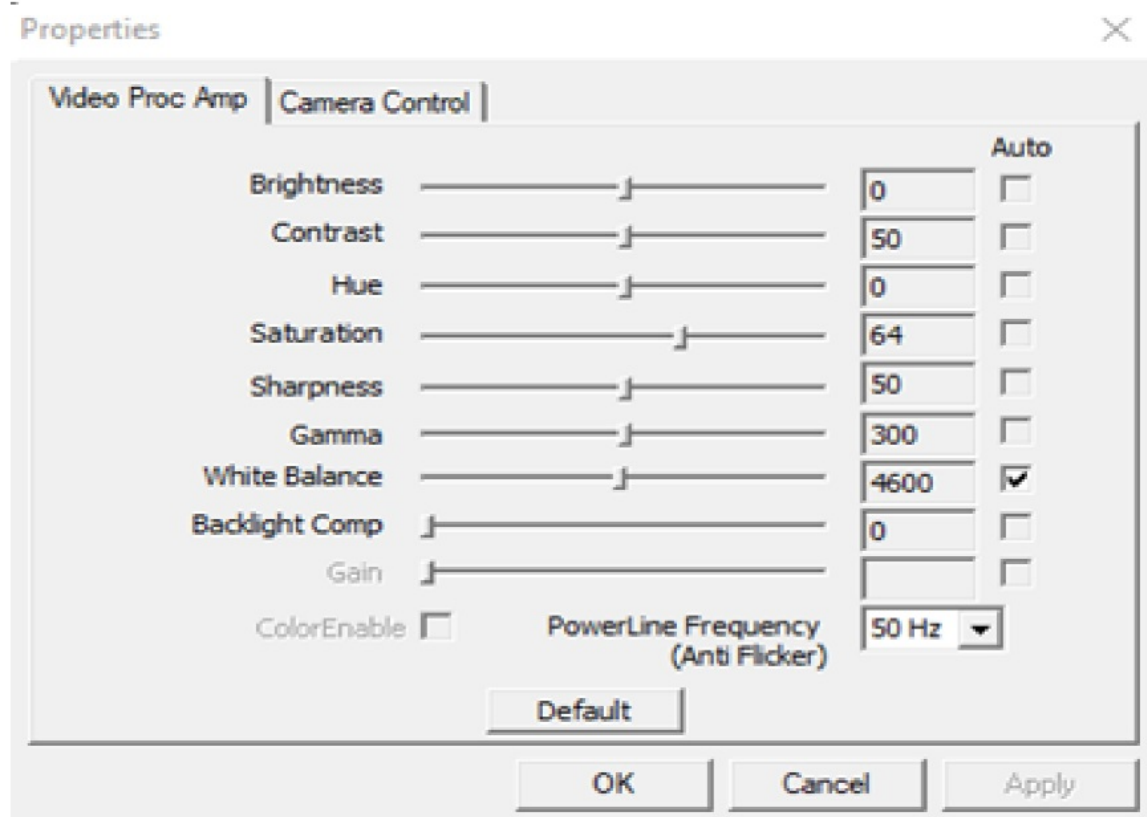
I Frame Interval:

P Frame Interval:

Quality:

Cancel Apply

Video Capture Filter -> Video Proc Amp/Camera Control



### 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.

AMCAP - C:\Users\May\Desktop

File Devices Options **Capture** Photo Help

Start Capture

Stop Capture Esc

Capture Audio

Master Stream >

Set Frame Rate...

Set Time Limit...

Set Video Compressor...

Capture Buffer Data...

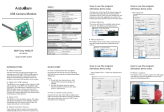
Capture Preview Picture...

## SPECS

Camera	
Sensor	1/4" IMX219
Resolution	8MP 3264H x 2448V
Data Format	MJPEG/YUY2
Frame Rate	MJPEG 15fps@3264 x 2448, 30fps@1080P; YUY2 30fps@800x 600
Lens	
Field of View (FOV)	H=62.2°, V=48.8°
Focusing Range	20cm to infinity

IR Sensitivity	Integral IR filter, visible light only
Functionality and Compatibility	
Adjustable Features	Brightness, Contrast, Saturation, Sharpness, Gamma, White balance.
System Compatibility	Win7/8/10, Linux, Mac and Android with UVC
Power	
Power Supply	DC 5V
Working Current	MAX 200mA
Physical	
Operating Temp.	-4°F~167°F (-20°C~+75°C)
Dimension	38mmx38mm
Cable Length	3.3ft (1m)

## Documents / Resources

	<a href="#">ArduCam USB Camera Module B0196</a> [pdf] User Guide USB, Camera Module, B0196
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