Arducam

USB Camera Module

- 8MP Sony IMX219

SKU: B0196

1. Introduction

■ About **Arducam**

Arducam is 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

2. Specifications

■ Camera

Sensor: 8MP 1/4" IMX219

Resolution: 8MP 3264H x 2448V   Data Format: MJPG/YUY2

Field of View (FOV)：H=62.2°, V=48.8°

IR Sensitivity: Integral IR filter, 650nm IR Filter, visible light only

Frame Rate:

Format	Resolution	Frame Rate	Format	Resolution	Frame Rate
MJPG	3264x2448	15fps	YUY2	3264x2448	2fps
	3264x1832	25fps		3264x1832	2fps
	2592x1944	15fps		2592x1944	2fps
	2048x1536	15fps		2048x1536	2fps
	1920x1080	30fps		1920x1080	5fps
	1600x1200	30fps		1600x1200	5fps
	1280x960	30fps		1280x960	5fps
	1280x720	30fps		1280x720	15fps
	800x600	30fps		800x600	30fps
	640x480	30fps		640x480	30fps

■ Functionality and Compatibility

Adjustable Features: Brightness, Contrast, Saturation, Sharpness, Gamma, White balance.

System Compatibility: Windows, Linux, Mac and Android with UVC

■ Power

Power Supply: USB Powered 5V

Working Current: MAX 200mA

■ Physical

Operating Temp.: -4°F~167°F (-20°C~+75°C).

Dimension: 31mmx31mm

Cable Length: 1.64ft (50cm)

3. Quick start

■ How to download the program

Download the APP Amcap from the following link: https://www.uctronics.com/az/AMCap.exe

NOTE: If used with the Andriod device, USB Camera APP and connect adapter are needed.

■ How to connect the camera

Connect one end of the micro USB cable to the USB connector provided on the board of B0196, and connect the other end to the USB host controller on the computer. Then the light of its power indicator on the back will be on.

4. How to use the program (Windows demo only)

The Menu bar on top of the shown image contains a few menu items. 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 B0196 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
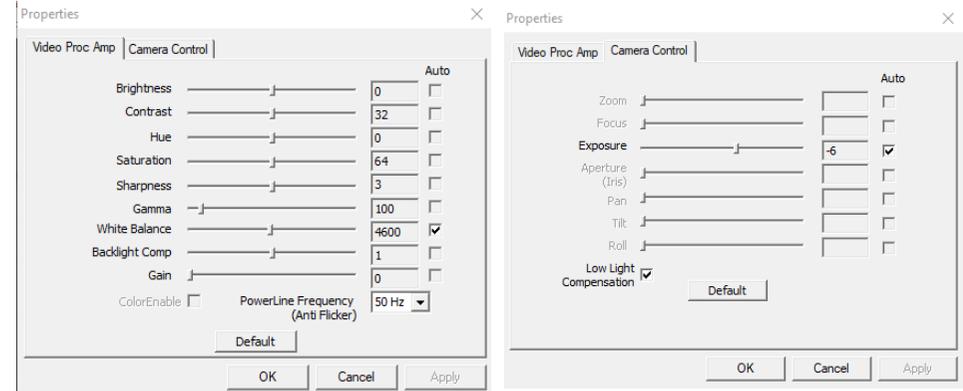
- Video Capture Pin
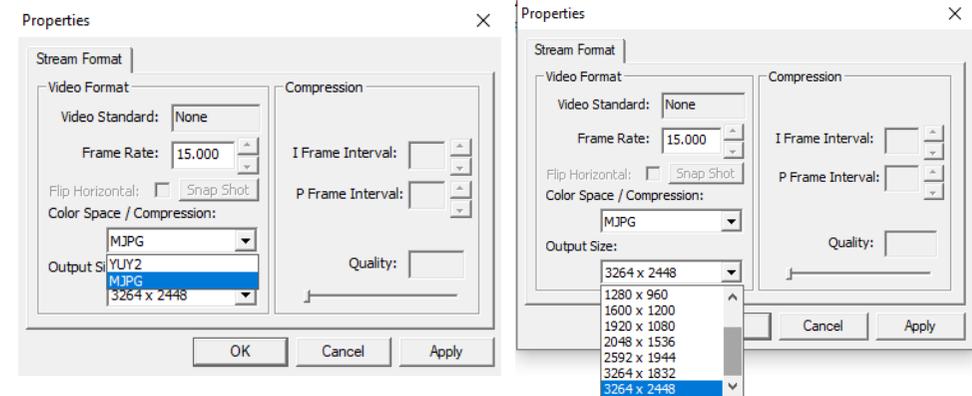
■ **Menu> Capture**

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