ArduCam®

Auto Focus USB Camera Module
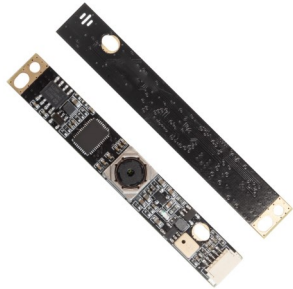
5MP OV5648

(SKU: UB0238)

QUICK START GUIDE

SPECS

Camera	
Sensor	1/4" OV5648
Resolution	5MP 2592H x 1944V
Pixel Size	1.4 µm x 1.4 µm
Dynamic Range	67dB@8x gain
Data Format	MJPG/YUY2
Frame Rate	MJPG 15fps@2592 x 1944/2048 x 1536; 30fps@1920 x 1080/1280 x 960/1280 x 720; YUY2 10fps@1280 x 720; 15fps@800 x 600; 20fps@640 x 480; 30fps@320 x 240.
Lens	
Field of View (FOV)	50°(H)
Lens Mount	M6*P0.35 mm
IR Sensitivity	Integral IR filter, visible light only
Functionality and Compatibility	
Auto Controlled Features	Contrast/ Saturation/ Exposure / White balance / Acutance
Audio	Single Microphone
System Compatibility	Win7/8/10, Linux, and Mac with UVC
Power	
Power Supply	DC 5V
Working Current	MAX 250mA
Physical	
Operating Temp.	-4°F~158°F (-20°C~+70°C)
Dimension	62x9x5mm
Connector No.	SHR-05V-S-B
Cable Length	3.3ft (1M)

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 in detail.

- **Menu>Devices**

This menu will show the available video devices to host PC. The UB0238 named "USB Camera". This camera support capturing audio, so the menu shows the "Microphone (2-USB 2.0 Camera)"
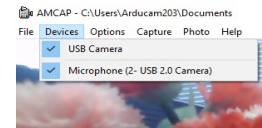
- **Menu>Options**

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

How to use the program (Windows demo only)

- Video Capture Pin

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 UB0238 is a new member of the Arducam's USB camera family. It's a 5MP, UVC compliant, USB 2.0 camera. This USB camera is based on the 1/4" Sony OV5648 image sensor, and you can read more about its specs in the next chapter. Arducam also provides the sample application that demonstrats some of the features of this camera.

- **About UVC**

The UB0238 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

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 Andriod 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" .
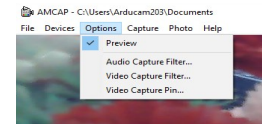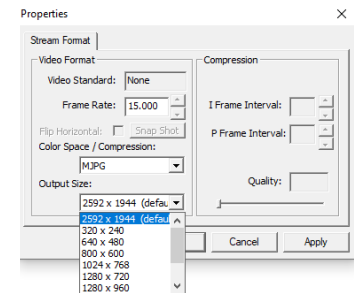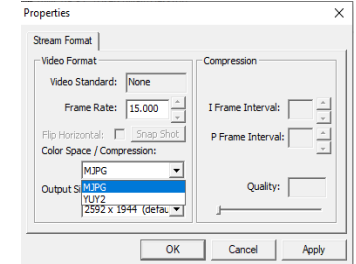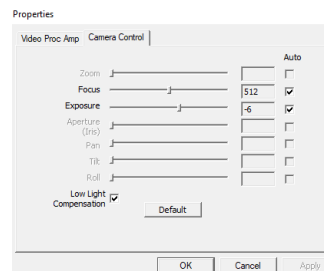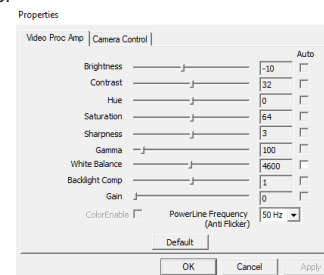
- **How to connect the camera**

Connect the one end of the USB 2.0 cable to the USB 2.0 connector provided on the back of UB0238, and connect the other end to the USB 2.0 host controller on the computer.

How to use the program (Windows demo only)

- Video Capture Filter -> Video Proc Amp/Camera Control

How to use the program (Windows demo only)

- **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.

Note: If you want to get the voice from the microphone, you need to select the option "Capture Audio" before capturing video.