



ArduCam 12MP HQ USB Camera Bundle User Guide

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ArduCam[®]

12MP HQ USB Camera Bundle



(SKU: B0280)
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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 Adapter**

B0280 is a new member of the Arducam's USB camera family. It's a 12MP, based on the 1/2.3 Sony IMX477 image sensor, UVC compliant, USB 2.0 camera with 6mm CS-mount lens, and the metal enclosure. Arducam also provides the sample application that demonstrates some of the features of this camera bundle.

- **About UVC**

The B0280 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 IMX477 and USB cameras, feel free to contact us at: arducam.com/contact-arducam

SPECS

Camera	
Sensor	1/2.3" IM477
Resolution	4032(H) x 3040(V) 12.3MP
Data Format	MJPEG
Frame rate	10fps@4032×3040; 20fps@3840×2160; 30fps@2592×1944/2560×1440; 60fps@1080P
IR Sensitivity	Visible light only
Lens	
Field of View (FOV)	65°(H)
Lens Mount	CS
Focal Length	6mm
Back Focal Length	7.53mm
MOD	0.2M
Functionalty and Compatibility	
Auto Controlled Features	Saturation, Contrast, Acutance, White balance, Exposure
Audio	Dual microphones
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~158°F (-20°C~70°C)
Case Dimension	50mmx50mmx85mm
Cable Length	6.5ft (2M)

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 Windows OS, you can also open the native software “Camera” and switch to “Arducam IMX477 HQ Camera” ;
2. For Mac OS, please open the native software facetime and select the video camera “Arducam IMX477 HQ Camera” .

• How to connect the camera

Plug the USB type B end of the USB cable into the port provided on the back of B0280, 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 in detail.

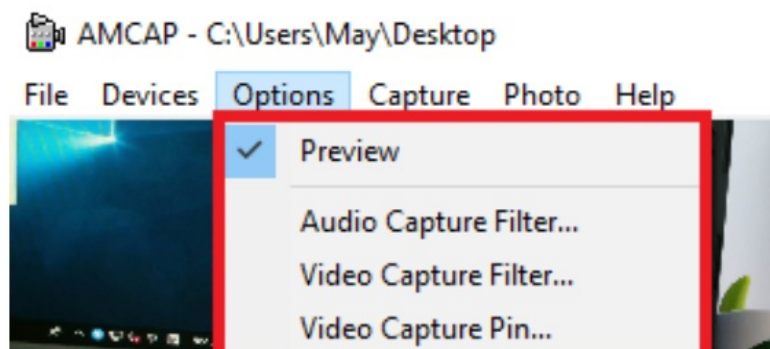
• Menu>Devices

This menu will show the available video devices to host PC. The camera adapter board with IMX477 named “Arducam IMX477 HQ Camera”. This camera support capturing audio, so the menu shows the “Microphone (Arducam IMX477 HQ Camera)”. (Arducam IMX477 HQ Camera)”.



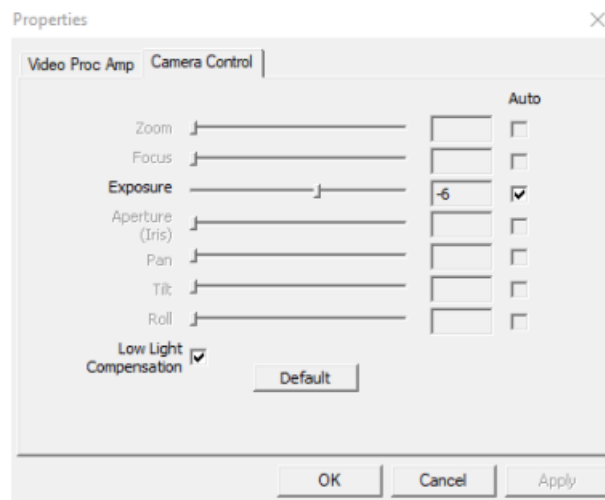
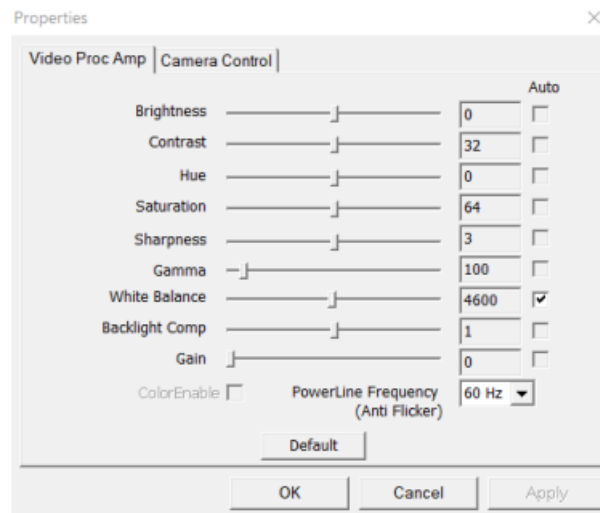
• Menu>Options

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



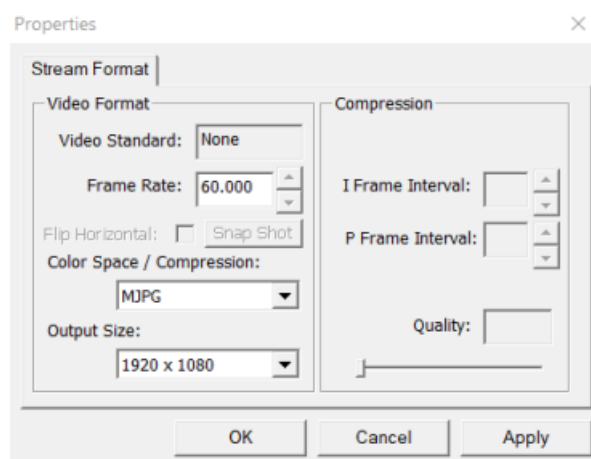
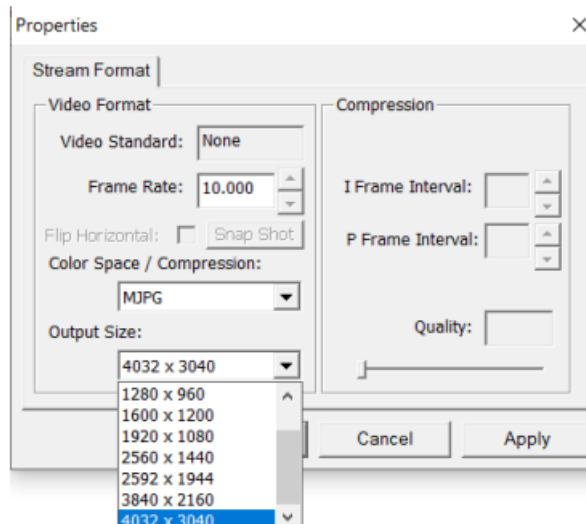
How to use the program (Windows demo only)

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



How to use the program (Windows demo only)

– Video Capture Pin

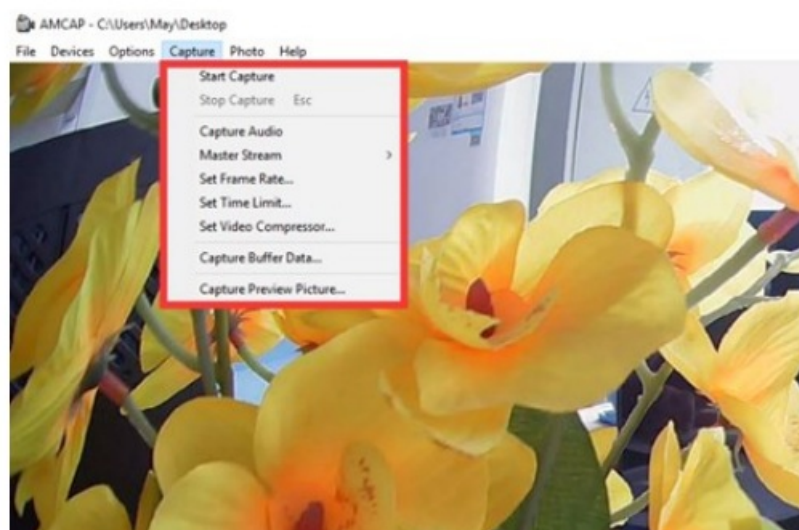


How to use the program (Windows demo only)

- **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.



Documents / Resources



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