



ArduCam UB0232 USB Global Shutter Low Distortion Camera Board User 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 UB0232 is a new member of the Arducam's USB camera family. It's 1MP monochrome global shutter, UVC compliant, low distortion USB 2.0 camera. This USB camera is based on the 1/4" OV9281 image sensor, and you can read more about its specs in the next chapter. Arducam also provides the sample application that demonstrates some of the features of this camera.

About UVC

The UB0232 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

SPECS

Camera	
Sensor	Monochrome global shutter OV9281
Optical Size	1/4 inch
Resolution	1MP 1280H x 800V

Data Format	MJPEG/YUY2
Pixel Size	3μm*3μm
Dynamic Range	68DB
Frame rate	MJPEG 120fps@1280 x 800/720P, 210fps@640 x 400/320 x 240; YUY2 10fps@1280 x 800, 30fps@640 x 360.
Lens	
Field of View (FOV)	100°(D)
Lens Mount	M12*P0.5 mm
IR Sensitivity	Built-in 850nm IR pass filter
Functionality and Compatibility	
Auto Controlled Features	Contrast/ Saturation/ Exposure/ White balance
Audio	Dual microphones
System Compatibility	Win7/8/10, Linux, Mac and OS with UVC driver
Power	
Power Supply	DC 5V
Working Current	MAX 200mA

Physical	
Operating Temp.	-4°F~158°F (-20°C~+70°C)
Dimension	38x38mm
Cable Length	Default 3.3ft (1M)

QUICK START

How to download the program

Download the APP Amcap from the following link <https://www.arducam.com/downloads/app/> AMCap.exe

NOTE: 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 UB0232, 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

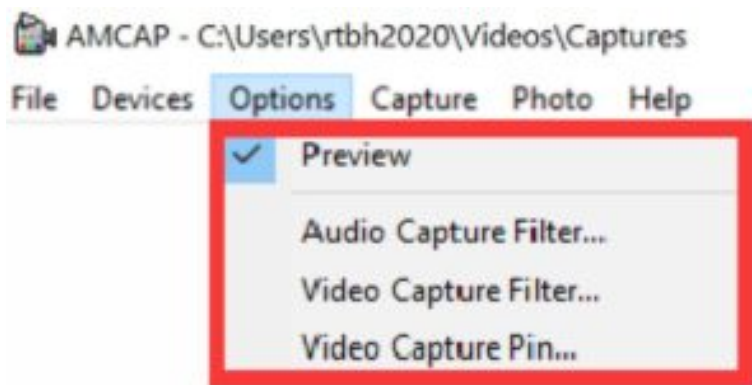
Menu>Devices

This menu will show the available video devices to host PC. The UB0232 named “USB Camera”. This camera support capturing audio, so the menu shows the “Microphone (USB Audio)”



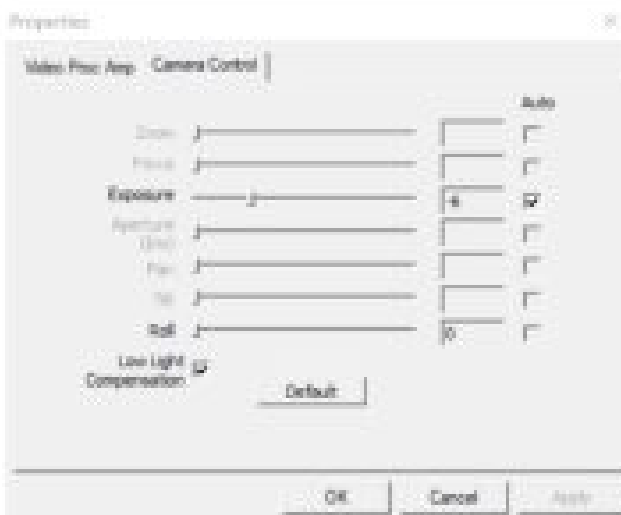
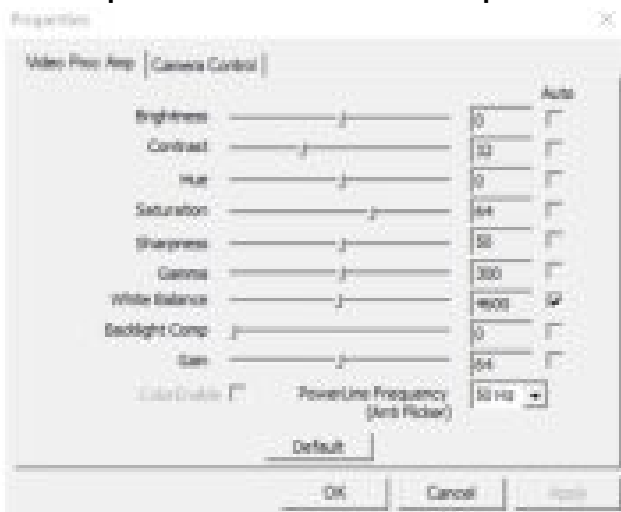
Menu>Options

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



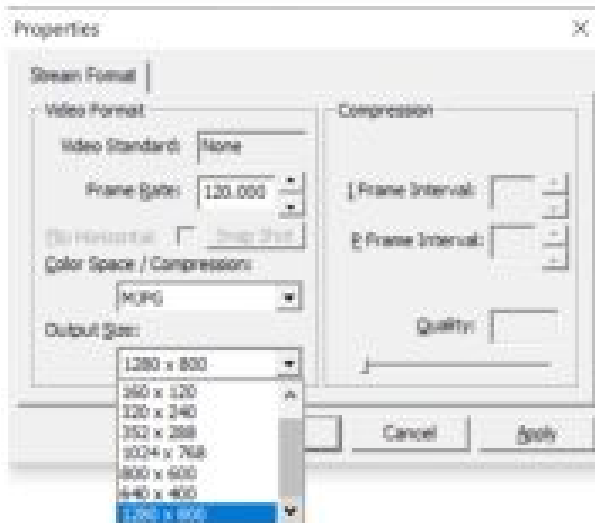
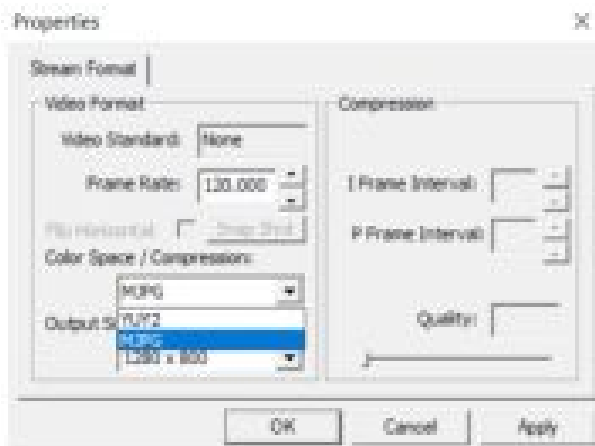
How to use the program (Windows demo only)

Video Capture Filter -> Video Proc Amp/Camera Control



How to use the program (Windows demo only)

Video Capture Pin

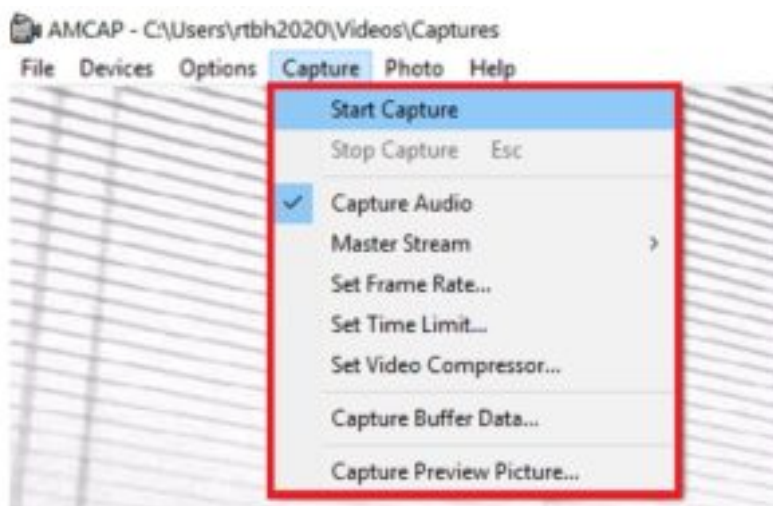


How to use the program (Windows demo only)

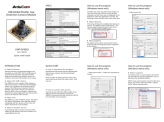
Menu> Capture

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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UB0232, USB Global Shutter Low Distortion Camera Board, Low Distortion Camera Board, Camera Board

References

-  arducam.com/downloads/app/

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