ArduCam 12MP IMX477 Mini HQ Camera Module for Raspberry Pi Owner’s Manual

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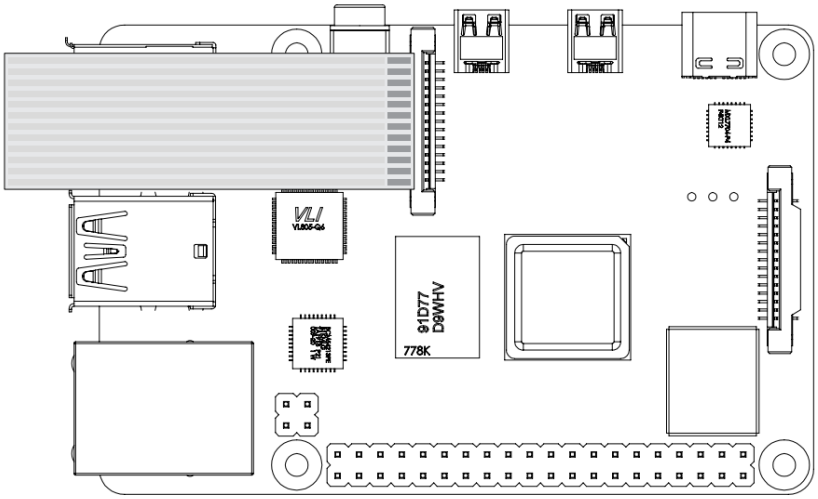
This Arducam 12MP IMX477 camera module for Raspberry Pi has the same camera board size and mounting holes as the Raspberry Pi Camera Module V2. It
can not only compatible with all models of Raspberry Pi 1, 2, 3 and 4, but also with Raspberry Pi Zero and Zero 2W, which can be easily used with a simple configuration

Contents

CONNECT THE CAMERA

1. Insert the connector and make sure it is facing the Raspberry Pi MIPI port. Don't bend the flex cable and make sure it is firmly inserted.
2. Push the plastic connector down while holding the flex cable until the connector is back in place



SPECS

- **Size:** 25x24x23mm
- **Still resolution:** 12.3 Megapixels
- **Video modes:** Video modes: 1080p30, 720p60 and 640 × 480p60/90
- **Linux integration:** V4L2 driver available
- **Sensor:** Sony IMX477
- **Sensor resolution:** 4056 x 3040 pixels
- **Sensor image area:** 6.287mm x 4.712 mm (7.9mm diagonal)
- **Pixel size**: 1.55 µm x 1.55 µm
- **IR Sensitivity:** Visible light
- **Interface:** 2-lane MIPI CSI-2
- **Hole Pitch:** Compatible with 12mm, 20mm
- **Focal length:** 3.9mm
- **FOV:** 75° (H)
- **Mount:** M12 Mount

SOFTWARE SETTING

Please make sure you are running the latest version of Raspberry Pi OS. (January 28th 2022 or later releases, Debian version: 11 (bullseye)).

For Raspbian Bullseye users, please do the following:

1. Edit the configuration file: sudo nano /boot/config.txt
2. Find the line: camera_auto_detect=1, update it to: camera_auto_detect=0 dtoverlay=imx477
3. Save and reboot.

For Bullseye users running on Pi 0-3, please also:

1. Open a terminal
2. Run sudo raspi-config
3. Navigate to Advanced Options
4. Enable Glamor graphic acceleration
5. Reboot your Pi.

OPERATING THE CAMERA

ibcamera-still is an advanced command line tool for capturing still images with the IMX477 Camera Module. libcamera-still -t 5000 -o test.jpg This command will give you a live preview of the camera module, and after 5 seconds, the camera will capture a single still image. The image will be stored in
your home folder and named test.jpg.

- t 5000: Live preview for 5 seconds.
- o test.jpg: take a picture after the preview is over and save it as test.jpg

If you only want to see the live preview, use the following command: libcamera-still -t 0

Note:
This camera module supports the latest Raspberry Pi OS Bullseye (released
on Jan 28th, 2022) and libcamera apps, not for the previous Raspberry Pi OS (Legacy) users.

FURTHER INFOMATION

For further information, check the following link: **https://www.arducam.com**/docs/cameras-for-raspberry-pi/raspberry-pi-libcamera-guide/

CONTACT US

Email: **support@arducam.com**
Forum: **https://www.arducam.com/forums**/
Skype: arducam

Documents / Resources

	ArduCam 12MP IMX477 Mini HQ Camera Module for Raspberry Pi [pdf] Owner's Manual B0262, 12MP IMX477 Mini HQ Camera Module for Raspberry Pi, 12MP Camera Module for Raspberry Pi, IMX477 Mini HQ Camera Module for Raspberry Pi, Mini HQ Camera Module for Raspberry Pi, Mini Camera Module for Raspberry Pi, HQ Camera Module for Raspberry Pi, Camera Module for Raspberry Pi, Camera Module, Raspberry Pi Camera Module, Module

References

- Arducam Wiki
- Arducam Camera Support Forum