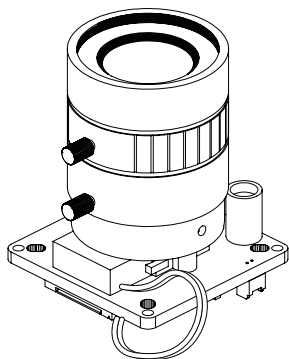


# ArduCam

## Raspberry Pi IR-CUT HQ Camera with CS-Mount Lens

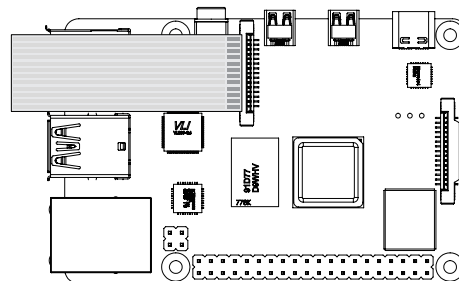
SKU: B0270



This camera module uses the same 12MP IMX477 image sensor as the Raspberry Pi High Quality Camera, but offers a mechanical IR cut-off filter switched automatically based on light condition. This IMX477 camera module not only offers sensitivity to infrared, but also keeps the natural feeling during daylight. It's fully compatible with all Raspberry Pi models with a camera connector.

### 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:** 38 x 38 x 46mm

**Still resolution:** 12.3 Megapixels

**Video modes:** Video modes: 1080p30, 720p60 and 640 x 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  $\mu\text{m}$  x 1.55  $\mu\text{m}$

**IR Sensitivity:** onboard motorized IR cut filter, support both day and night vision

**Interface:** 2-lane MIPI CSI-2

**Default Lens Mount:** CS-Mount

**Hole Pitch:** Compatible with 29mm, 34mm

**Format:** 1/2.3 inch

**Focal Length:** 6mm

**Aperture (F):** Max. F1.4

**Field of View (FOV):** 65° (H)

**Mount:** CS-Mount

**Back Focal Length:** 7.53mm

**MOD:** 0.2m

## 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

libcamera-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 INFORMATION

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

## CONTACT US

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