Manuals+ — User Manuals Simplified.

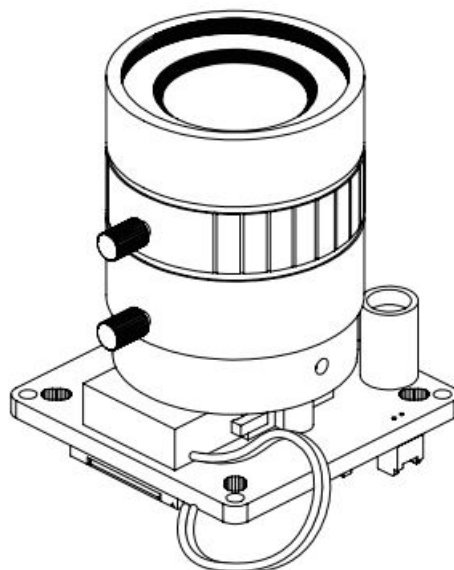# ArduCAM B0270 Raspberry Pi IR-CUT HQ Camera with CS-Mount Lens User Manual

ArduCAM B0270 Raspberry Pi IR-CUT HQ Camera

with CS-Mount Lens User Manual

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.

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
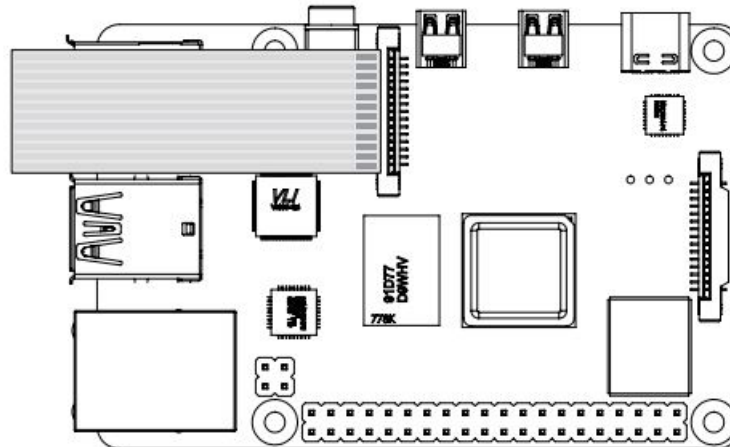
SPECS

Size: 38 x 38 x 46mm
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: 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 raspy 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
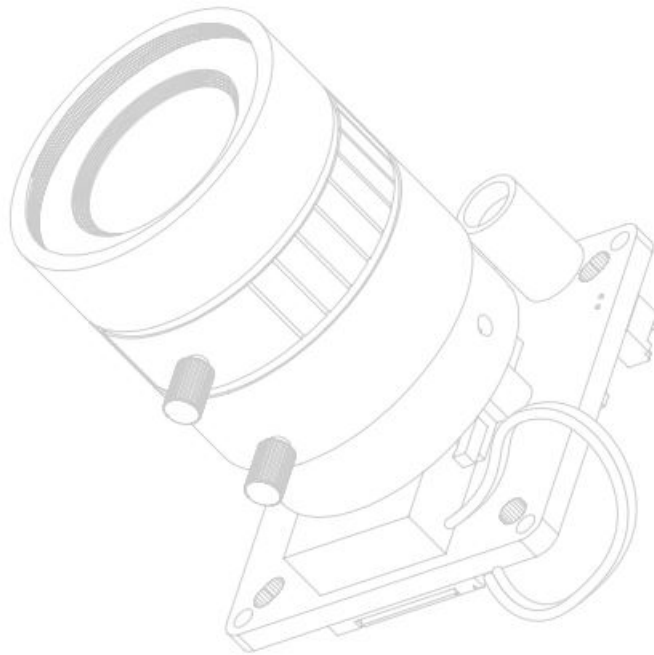
Note: This camera module supports the latest Raspberry Pi OS Bullseye (released on Jan 28th, 2022) and libcamera apps, not for the previous Raspberry Pi OS (Legacy) users.

FURTHER 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 B0270 Raspberry Pi IR-CUT HQ Camera with CS-Mount Lens [pdf] User Manual B0270 Raspberry Pi IR-CUT HQ Camera with CS-Mount Lens, B0270, Raspberry Pi IR-CUT HQ Camera with CS-Mount Lens, Pi IR-CUT HQ Camera with CS-Mount Lens, Camera with CS-Mount Lens, CS-Mount Lens

References

- **Arducam Wiki**
- **Arducam Camera Support Forum**

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