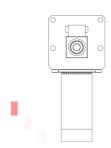
Skip to content

Manuals+

User Manuals Simplified.



ArduCam B0386 16MP IMX519(NOIR) Camera Module User Guide

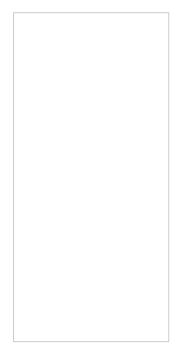
Home » ArduCam » ArduCam B0386 16MP IMX519(NOIR) Camera Module User Guide

Contents

- 1 ArduCam B0386 16MP IMX519(NOIR) Camera Module
- **2 INTRODUCTION**
- 3 SPECS
- **4 BEFORE YOU START**
- **5 DRIVER INSTALLATION**
- **6 OPERATING THE CAMERA**
- **7 Documents / Resources**
- 7.1 References
- **8 Related Posts**

ArduCam-logo		

ArduCam B0386 16MP IMX519(NOIR) Camera Module



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 Camera

It takes zero compromises in specs. With a resolution at 16 megapixels (compared to 8MP and 12MP), a stock lens, a V2-like form factor, and boatloads of improvements, the camera provides a better choice for a whole world of industrial/consumer/etc. applications, it's compatible with any existing Pi models, work with the latest software from the foundation, and leverages the same tuning algorithms used in the official camera modules. The package contains a camera board with a Sony IMX519 sensor and a stock lens, an FPC cable.

About Customer Service

We have many solutions for kinds of requests. If you need our help or want to customize other models of IMX519 cameras, feel free to contact us at support@arducam.com

SPECS

Camera

Sony IMX519 stacked,

back-illuminated sensor 16

Sensor megapixels 1.22 μm × 1.22

 μm pixel size7.103 mm

diagonal

Optical Size 1/2.534 inch

Resolution 16MP 4656 x 3496
Output RAW10/8, COMP8
Pixel Size 1.22µm*1.22µm

Video Modes 1080p@30fps,720p@60fps.

Lens

Field of View (FOV) 80°(H)

Lens f/1.75; EFL: 4.28

IR cut Filter without IR Filter, IR

sensitive

Application

Application All Raspberry Pi Board

Linux integration

Linux integration V4L2 driver available

Ribbon Cable Length

Ribbon Cable Length 150mm

BEFORE YOU START

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

- 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
- For Raspberry Pi Compute Module 3/4

The latest software only supports one camera at this time, CM4 uses CAM1 by default.

DRIVER INSTALLATION

- 1. Connect the camera directly to your Raspberry Pi.
- 2. Download the shell scripts

wget -O install_pivariety_pkgs.sh https://github.com/ArduCAM/Arducam-Pivariety-V4L 2river/releases/download/install script/install pivariety pkgs.sh

3. Update your Pi sudo apt update

4. Install libcamra-dev

install pivariety pkgs.sh -p libcamera dev

5. Install libcamera-apps

install_pivariety_pkgs.sh -p libcamera_apps

6. Install the kernel driver

install_pivariety_pkgs.sh -p imx519_kernel_driver

7. Reboot

OPERATING THE CAMERA

Test

libcamera-still -t 3000 -o test.jpg

Command Line

libcamera-vid -t 10000 -width 1920 -height 1080 -o test.h264

1. See the camera in live preview:

libcamera-still -t 0

For more troubleshooting, please refer to: https://www.arducam.com/docs/cameras-for-raspberrypi/raspberry-pi-libcamera-guide/16mp-autofocus-camera-common-issues-fixes/

2. Record Video

For example, record an H.264 10s video with the frame size 1920W × 1080H.

Documents / Resources

ArduCam B0386 16MP IMX519(NOIR) Camera Module [pdf] User Guide
B0386, 16MP IMX519 NOIR Camera Module, 16MP IMX519 NOIR, Camera Module, B0386,
Module

References

		_						
•		В	edi	ıre	CTI	n	d	
	_		-				9	••••

Arducam Camera Support Forum

Manuals+.