

SEN0494 12.3MP Camera Module

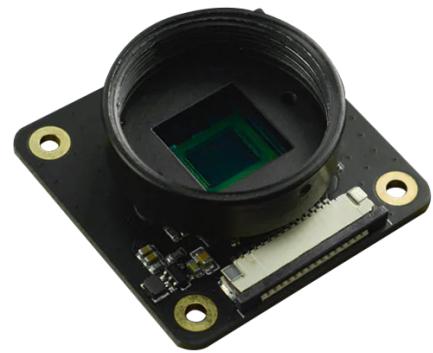
Product Overview

12-02-2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

The SEN0494 12.3MP Camera Module for NVIDIA Jetson Nano and Raspberry Pi CM3 from DFRobot is a high-quality 12.3MP camera module that adopts Sony's IMX477R chip and requires a C or CS-mount lens to work. This camera module is compatible with the NVIDIA Jetson Nano series, and Raspberry Pi CM3 compute module. The DFRobot SEN0494 camera module offers higher resolution (12.3MP) and higher sensitivity (nearly 50% larger area per pixel for improved low-light performance) than IMX219 cameras used in industrial and consumer applications.



Features

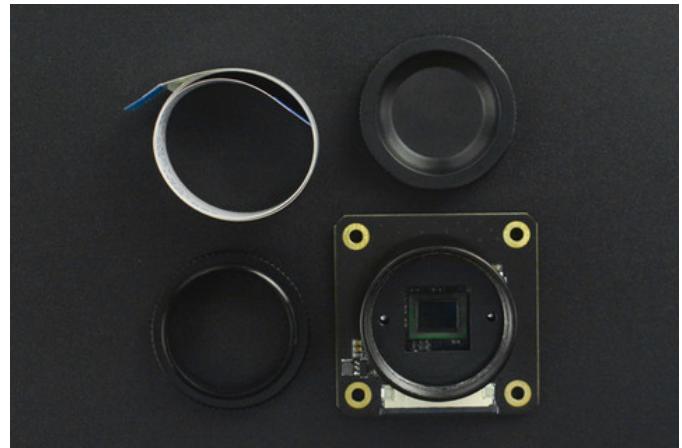
- Sony IMX477R sensor with 12.3MP high resolution
- Larger area per pixel for improved low-light performance
- Back-illuminated sensor architecture for improved sensitivity
- Support for different C- and CS-mount lenses

Specifications

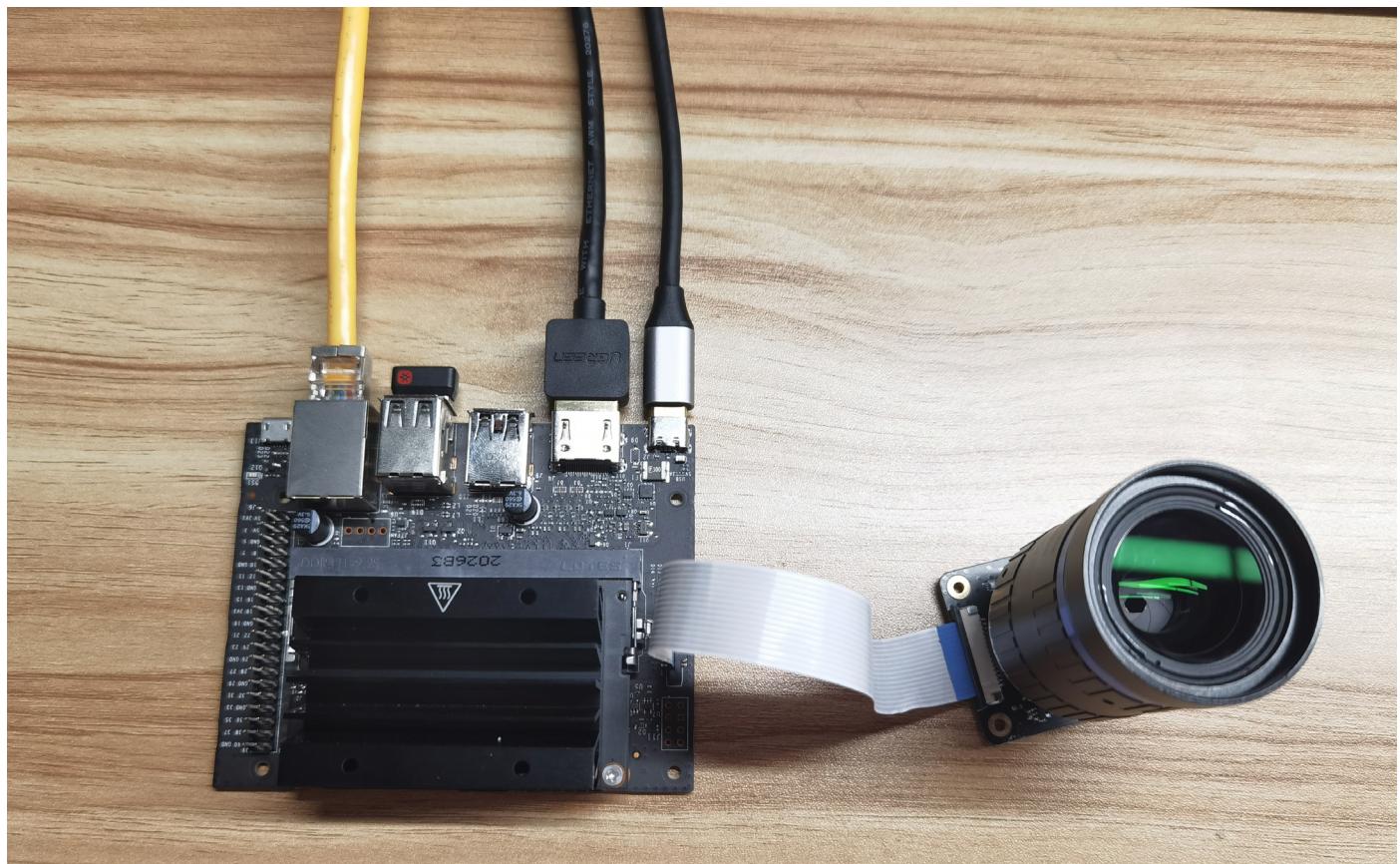
- Sensor model - Sony IMX477R
- 7.9mm CMOS diagonal length
- 12.3 million pixels (4056×3040) resolution
- $1.5\mu\text{m}(\text{H}) \times 1.55\mu\text{m}(\text{V})$ single-pixel size
- RAW12/10/8, COMP8 output format
- Adjustable back focal length
- C-mount/CS-mount (supporting C/CS connecting ring) lens standard
- Integrated infrared filter

Kit Contents

- 1x IMX477 camera module
- 1x C/CS connection ring
- 1x FPC cable
- 1x dust cap



Typical connections with Jetson Nano



12.3MP High-resolution Illustration



Higher resolution, clearer images

Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-sen0494-camera-module/>