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## 8MP IMX219

### Introduction

IMX219 is a 1/4" 8MP MIPI CSI-2 image sensor, it was adopted by the Raspberry pi V2 camera module back in 2016. Now the IMX219 camera is natively supported by the Jetson Nano and Xavier NX out of the box.

### Specifications

#### Common Specs

Sensor Model	IMX219
Shutter Type	Rolling Shutter
Active Pixels	3280 (H) × 2464 (V)
Resolution	8MP
Image Sensor Format	Type 1/4"
Pixel Size	1.12µm×1.12µm
CSI-2 Data Output	2-lane mode
Data Format	Raw Bayer 10bit

#### Resolution & Frame Rates

Sensor	L4T/JetPack	NVIDIA Jetson Platform	Resolution	Frame Rate
IMX219	L4T 32.x	NVIDIA Jetson Nano/Xavier NX/Orin Nano/Orin NX	3264x2464	21fps
			3264x1848	28fps
			1920x1080	30fps
			1640x1232	30fps
			1280x720	60fps
	L4T 35.x	NVIDIA Jetson Nano/Xavier NX/Orin Nano/Orin NX	3280x2464	21fps
			3280x1848	28fps
			1920x1080	30fps
			1640x1232	30fps
			1280x720	60fps

#### Release Time

In 2016, the V2 camera (8MP IMX219) was out with upgrades in resolution and image quality.

### At Arducam

Arducam made a lot of variation of this camera to address different use-cases for Jetson fans, we have designed several versions with different features according to different needs: **Motorized Focus**, **PT&PTZ** , **M12/CS**.











#### Motorized Focus

Arducam 8MP IMX219 Motorized Focus Camera Modules are designed for you to control the focus via software, so you can see closer and see where you want to see.

#### PT&PTZ

Arducam PT camera can move in two dimensions with 180 degrees horizontal and 145 degrees vertical movements. So it can be used to monitor places that should be covered by multiple ones commonly in the surveillance system.

### Products

Product Image	SKU	Pin/Connect Type	Features	Lens Type	Field of View
	B0180	15/NA	Wide Angle	M12	110°
	B0194				110°
	B0188		Low Distortion		120°
	B0286		Fisheye Lens		
	B0182	15/bottom	Motorized Focus	Stock Lens	
	B0190				
	B0179		Wide Angle	M12	110°
	B0342		Mini Size		
	B0193		Wide Angle		110°
	B0183		Low Distortion		
	B0187		Wider Angle	Stock Lens	120°
	B0287				
	B0189		8MP Autofocus		
	B0191		Official Size		60°
	B0181		8MP Autofocus		
	B0185	15/NA	Miniature Camera	Stock Lens	
	B01678MP	15/Bottom	Pan-Tilt-Zoom Kit	CS	H(60°)
	B0167B8				

### Related Docs

Quick Start Guide on NVIDIA Jetson **Nano/Xavier NX**

Quick Start Guide on NVIDIA Jetson **Orin Nano/Orin NX**

Quick Start Guide on NVIDIA Jetson **AGX Orin**

Application Note - Fix Red Tint with ISP Tuing

Application Note - Jetson-io on Previous JetPack/L4T version

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- UVC Camera
- Optics & Lenses

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