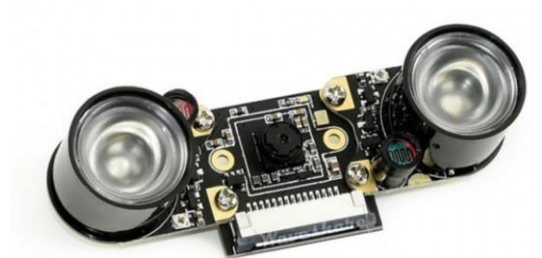# SEEED-114992261

IMX219-77IR 8MP IR Night Vision Camera with 77° FOV - Compatible with NVIDIA Jetson Nano/ Xavier NX

PRODUCT DETAILS

Features

- High-quality camera with an 8 megapixel Sony IMX219 image sensor
- Capable of viewing images at a high resolution of 3280 × 2464
- High FOV (field-of-view) to capture more area
- Two IR LED modules offering better night vision
- FCC and CE Certified

Description

This is an 8-megapixel camera with a FOV (field-of-view) of 77 degrees, which is suitable to use with the NVIDIA Jetson Nano and NVIDIA Jetson Xavier NX Development Kits. It also has two IR LEDs to enable night vision capabilities.

By using this camera, combined with a Jetson Nano/ Xavier NX Development Kits, you can simply realize machine vision projects. Also, you can experience better quality video capture from this camera and build more demanding projects!

Specifications
Camera Module with driver board

Specification	Description
Megapixels	8 Megapixels
Photosensitive chip	Sony IMX219
Assembly Technique	SMT (ROSH)
Resolution	3280 × 2464
Pixel Size	1.12µm x1.12µm
CMOS size	1/4 inch
Aperture (F)	2.0
Focus	fixed
Focal Length	2.96mm
Lens Construction	4P
Diagonal field of view (FOV)	77 degrees
Distortion	<1%

Specification	Description
EFL	2.93mm
BFL (Optical)	1.16mm
Maximum Image Transfer Rate	30 fps for QSXGA
Output formats	8/10bit RGB RAW output
S/N Ratio	39db
Dynamic Range	69db
Sensitivity	600mV/Lux-sec
Relative Illumination (Sensor)	70%
IR Filter	650±10nm
Object Distance	30CM-∞
Interface	15p-1.0 mipi
Power supply	3.3V (pin15)
Operating Temperature	-20°C to 70°C
Temperature (Stable Image)	0°C to 50°C
Lens size	6.5mm × 6.5mm
Module Size	25mm × 24mm ×5.3±0.2mm

Specification	Description
Certifications	FCC and CE

IR LED Modules

Specification	Description
LED Wavelength	845nm-855nm
LED Module FOV	100°
Working current	200ma (max 450ma)
Power	3.3V
Power consumption	660mw (max 1.48W)
Module Size	27.94mm ×19.82mm ×15.05mm
Operating Temperature	-20°C to 70°C
Storage Temperature	0°C to 60°C
Assembly technique	SMT (ROSH)

Parts List

- 1 x IMX219-77IR 8MP IR Night Vision Camera with 77° FOV - Compatible with NVIDIA Jetson
- 1 x 150mm FPC Cable
- 2 x IR LED Modules
- 4 x Screws
- 4 x Nuts