SEEED-114992264

IMX219-160IR 8MP Camera with 160° 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

How is it possible to see in the dark?

This camera is able to view in the dark with black and white-colored video footage. The two IR LEDs on either side of the camera emit infrared light which is invisible to the naked eye and the camera is sensitive to this light. Then the camera is able to

pick up this light and thereby we can see black and white color video footage from the camera.

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)	2.35
Focus	fixed
Focal Length	3.15mm
Lens Construction	6G+IR
Diagonal field of view (FOV)	160 degrees
Distortion	<14.3%
EFL	3.15mm

Specification	Description
BFL (Optical)	3.15mm
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 ×17.7±0.5mm
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 IMX219-160IR 8MP IR Night Vision Camera with 160° FOV - Compatible with NVIDIA Jetson Nano/ Xavier NX
- 2 x IR LED Modules
- 4 x Screws
- 4 x Nuts