

INDUSTRIAL PRODUCT DATASHEET

IMX219-160IR 8MP Camera with 160° FOV - Compatible with NVIDIA Jetson Nano/ Xavier NX

8MP Sony IMX219 camera with 3280 × 2464 resolution, wide FOV, and IR LED night vision.



Overview



The camera features an 8-megapixel Sony IMX219 image sensor capable of high-resolution imaging at 3280 × 2464. It offers a high field-of-view for wide-area coverage and includes two IR LED modules for improved night vision.

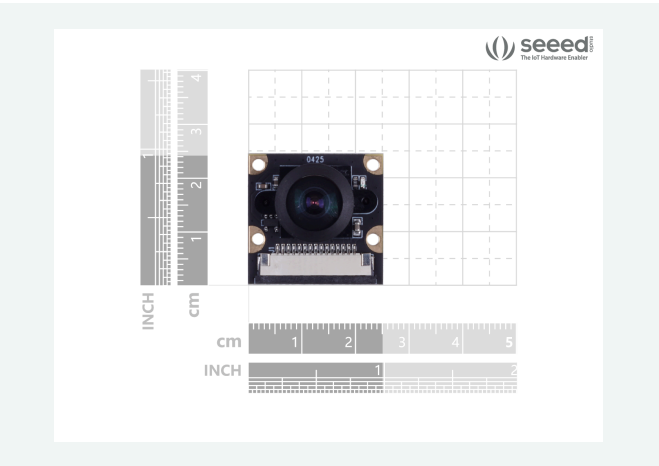
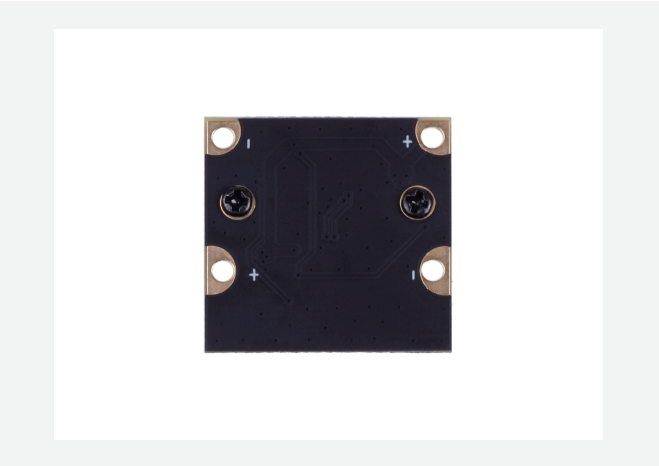
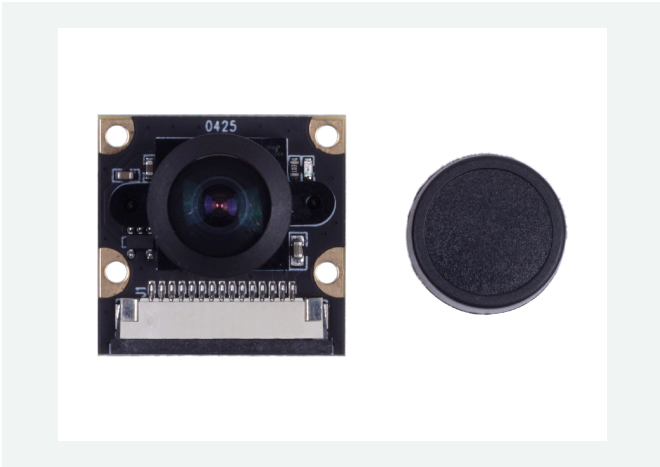
Key Features

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



Product Gallery



Specification

Specification	Description
Megapixels	8 Megapixels
Photosensitive chip	Sony IMX219

Specification	Description
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
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

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)



Part 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

Compliance & Logistics



HSCODE	8525801390
USHSCODE	8525895050
UPC	
EUHSCODE	8517600000
COO	CHINA