



NV02R

NIR ROLLING SHUTTER CMOS IMAGE SENSOR

CHIEF APPLICATION

NV02R is a 1.5-inch 2.5M pixel CMOS image sensor chip, the effective pixel array is 1936H*1280V, the chip supports 1080P high-definition video applications. NV02R adds infrared enhancement. It has excellent low-light night vision, multi-chip synchronous work function, on-chip temperature sensor, and flexible and rich configuration functions.

Specification

Item	Parameters
Active Array Size	1936 (H) *1280 (V)
Pixel Size	9.9um x 9.9um
Lens Size	1.5 Inch
Operating Junction Temperature	-40~85°C
Output Format	RAW12, RAW14
Sensitivity	105V/Lux/s@HCG 7V/Lux/s@HCG
Full Well Capacity	7.2K(HCG) /98k(LCG) e ⁻
Dynamic Range	78dB(HCG)/80dB(LCG)
SNR Max	39dB(HCG)/49dB(LCG)
Frame Rate	120/60FPS
Low Lux	10 ⁻⁴
QE	60%@850nm 30%@940nm



Application (Reference)

Application Scenarios

- Ultra-Low Light (<1/1000 Lux)
- Imaging Camera

Product Feature

- HDR
- Near Infrared imaging
- Low Power consumption
- Multiple Chips work synchronously