

# NV12G

## Global SHUTTER CMOS IMAGE SENSOR

### CHIEF APPLICATION

NV12G is a 12-megapixel global shutter CMOS image sensor with a pixel size of 3.42  $\mu\text{m}$ . Its effective pixel array is 4128 (H)  $\times$  3072 (V), with a total pixel count of 12.68 million. It supports 8-bit, 10-bit, and 12-bit data output. The sensor features a configurable serial output interface, supporting either LVDS or MIPI. Utilizing BSI-NIR technology, it delivers excellent sensitivity and near-infrared light sensing capabilities.

### Specification

Item	Parameters
Active Array Size	4128 (H) *3072 (V)
Pixel Size	3.42 $\mu\text{m}$ *3.42 $\mu\text{m}$
Lens Size	1.1 inch
Operating Junction Temperature	-40°C~85°C
Output Format	Raw8/10/12
Full well Charge	>35Ke-@LCG 8Ke-@HCG
Dynamic Range	>66dB
SNR Max	>40dB
PLS	<-96dB
QE	50%@850nm 30%@940nm



Application (Reference)

### Application Scenarios

- Industrial Camera
- Machine Vision
- ITS

### Product Feature

- Excellent Quantum Efficiency
- Low Noise
- Near Infrared Enhanced