



# NV08SA10

ROLLING SHUTTER  
CMOS IMAGE SENSOR

## CHIEF APPLICATION

The NV08SA10 chip is an image sensor product designed for low-power scenarios in the security and surveillance market. Fabricated with advanced BSI technology, it supports 60fps full HD imaging at 8-megapixel resolution. Beyond conventional image sensor features like linear exposure, DOL2, and multi-chip synchronization, this chip integrates an on-board digital ISP and lightweight AI engine. This enables emerging capabilities such as Fast AE and ultra-low-power wake-up functionality. Primary applications include but are not limited to: smart doorbells/locks, Face ID panels, consumer-grade IP cameras, dashcams, and video conferencing systems.

## Specification

Item	Parameters
Active Array Size	3840 (H) *2160 (V)
Pixel Size	1.45um*1.45um
Lens Size	1/2.8 Inch
Operating Junction Temperature	-40~85°C
Output Format	RAW10/RAW12
Frame rate	4K 60fps
Dynamic Range	77.4dB
SNR 1s	0.87 lux
QE	75%@520nm 35%@850nm



Application (Reference)

## Application Scenarios

- Security Monitoring
- Low-power Camera
- Vehicle-mounted Camera
- Video Conference

## Product Feature

- AOV
- Near-end intelligent Ai
- Low Power consumption
- High Dynamic range