

CMOS Image Sensor

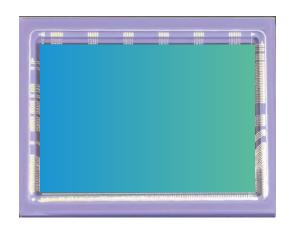
Version: ISG2505 V1.0

ISG2505

GLOBAL SHUTTER CMOS IMAGE SENSOR



CHIEF APPLICATION



The ISG2505 is a CMOS image sensor with a 25M pixel Global Shutter with a pixel size of 2.7um and an effective pixel array of 5120 columns *5120 rows. The ISG2505 enhanced near infrared feature has excellent near infrared sensitivity and can reduce the drive energy of infrared LED. External trigger, multi-chip synchronization function, provide on-chip temperature sensor, and flexible, rich configuration functions.

规格说明 Specification

项目 Item	参数 Item
Activ Array Size	5120(H)*5120(V)
Pixel Size	2.7um x 2.7um
Lens Size	1.2 Inch
TEMP Range Operation	–40~85°C
Output Format	RAW8/10/12
PLS	<-96dB
Full Well Capacity	>9.5Ke ⁻
Dynamic Range	>66dB
SNR Max	>40dB
Dark Current	<200e⁻/s@60℃
QE	>90%@550nm >50%@850nm >30%@940nm

应用场景 Application Scenarios

机器视觉Machine Vision

■ 工业检测 Camera

智能交通Motion Monitoring

医疗成像High Speed detection

产品特性

Product Feature

近红外增强High-speed Image
Processing

内置温度传感器Built-in Temperature sensor

■ 多芯片同步工作 Multiple Chips work synchronously

丰富的功能设置Rich Function settings



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