

CMOS Image Sensor

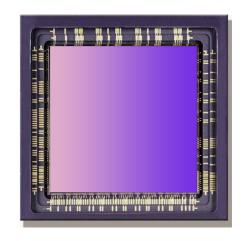
Version: ISG4006S V1.0

ISG4006S

GLOBAL SHUTTER CMOS IMAGE SENSOR

产品介绍

CHIEF APPLICATION



ISG4006S chip is a global pixel CMOS image sensor chip designed to meet the needs of machine vision applications based on the self-developed global pixel unit, through the full digital adjustable mode selection control, the use of high-precision, low-power digital-analog mixed signal design, through advanced CIS process processing. Effective pixel array of the chip is 2048X2048. The maximum frame rate of 180fps is LVDS high-speed data interface. The ISG4006S features high resolution, high frame rate, high definition, on-chip temperature sensor and global shutter exposure, and supports both color and black and white versions to provide customers with options for different application needs.

规格说明 Specification

| 项目 Item | 参数 Item |
|-----------------------|---------------------------------------|
| Activ Array Size | 2048(H)*2048(V) |
| Pixel Size | 5.5 um x 5.5 um |
| Shutter | Global Shutter |
| Optical Format | 1inch |
| Chip Size | 13.5mm*13.5mm |
| Input Clock Frequency | 5-48MHz |
| Frame Rate | 37fps@12bit, 180fps@10bit |
| Package | uPGA-95/CLCC-92 |
| Supply Voltage | 1.2V/2.5V/3.3V |
| Sensitivity | 9.8 V/lux.s |
| Conversion Gain | 65uV/e ⁻ (10bit mode) |
| SNR | 41.4 dB |
| Dynamic Range | 60 dB |
| Read Noise | 10e ⁻ |
| QE | 66.7%540nm (RGB) 83.1%540nm (Mono) |
| Power Consumption | <600mW @16ch |
| Temperature | -40℃-+85C |

应用场景

Application Scenarios

机器视觉Machine Vision

■ **智能交通**

运动监测Motion Monitoring

■ 高速检测 High Speed detection

产品特性

Product Feature

高帧率 High Frame rate **低功耗**Low Power consumption

内置温度传感器
Built-in Temperature sensor

■ 编程控制 Programming Control



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