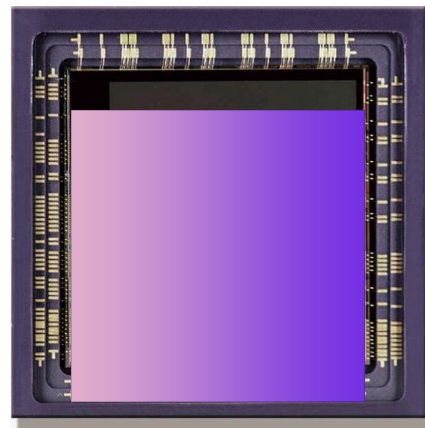


## ISG4006S

### 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
Active Array Size	2048(H)*2048(V)
Pixel Size	5.5 $\mu\text{m}$ x 5.5 $\mu\text{m}$
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 <sup>-</sup> (10bit mode)
SNR	40 dB
Dynamic Range	60 dB
Read Noise	10e <sup>-</sup>
QE	66.7%540nm (RGB) 83.1%540nm (Mono)
Power Consumption	<600mW @16ch
Temperature	-40°C~+85°C

#### 应用场景

#### Application Scenarios

##### 机器视觉

Machine Vision

##### 智能交通

ITS

##### 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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