

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℃~+85℃

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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