



SMARTSENS

# CMOS图像传感器

## CMOS IMAGE SENSOR

### SC501CS 产品单页

#### SC501CS Product Flyer

- 尖端BSI像素工艺赋能智能手机前/辅摄应用  
Featuring Cutting-Edge BSI Process for Smartphone Front/Auxiliary Camera Applications
- 内置一次性可编程存储器OTP, 大幅优化客户模组成本结构  
Integrating One-Time Programmable Memory OTP to Significantly Optimize the Cost Structure of Customer Modules



## 公司简介 | Company Profile

思特威(上海)电子科技股份有限公司(SmartSens Technology)是一家从事CMOS图像传感器芯片产品研发、设计和销售的高新技术企业,总部设立于中国上海,在多个城市及国家设有研发中心。

自成立以来,思特威始终专注于高端成像技术的创新与研发,凭借自身性能优势得到了众多客户的认可和青睐。作为致力于提供多场景应用、全性能覆盖的CMOS图像传感器产品企业,公司产品已覆盖了安防监控、机器视觉、智能车载电子、智能手机等多场景应用领域的全性能需求。

思特威将秉持“以前沿智能成像技术,让人们更好地看到和认知世界”的愿景,以客户需求为核心动力,持续推动前沿成像技术升级,拓展产品应用领域,与合作伙伴一起助推未来智能影像技术的深化发展。

SmartSens Technology (Shanghai) Co., Ltd. is a high-performance CMOS image sensor (CIS) chip design company. It is headquartered in Shanghai and has research centers in many cities around the world.

SmartSens has been dedicated to pushing forward the frontier of imaging technology and growing in popularity among customers since it was established. SmartSens' CMOS image sensors provide advanced imaging solutions for a broad range of areas such as surveillance, machine vision, automotive and cellphone cameras.

SmartSens is committed to continuous innovation of products and fueling growth in numerous industries by delivering a more comprehensive portfolio of image sensors.

## 规格说明 | Specifications

项目   Item	参数   Parameters
Resolution	5 MP
Pixel Array	2600H x 1952V
Pixel Size	1.12 $\mu$ m x 1.12 $\mu$ m
Optical Format	1/5"
Max Frame Rate	2592H x 1944V @30fps
Output Interface	10/8 bit 2 lane MIPI
Output Format	RAW RGB
CRA	31.87°
Sensitivity	769mV/Lux·s
Dynamic Range	71dB
SNR	37dB
Operation Temperature Range	-30°C to +85°C
Best IQ Temperature	0°C to +60°C
Power Supply	Analog = 2.8V $\pm$ 0.1V
	Digital = 1.2V $\pm$ 0.06V
	I/O = 1.8V $\pm$ 0.1V
Package	COB/RW
Package Size	COB: 3.411mm x 3.086mm
	RW: 3.461mm x 3.136mm

## 产品特性 | Features

- 内置一次性可编程存储器OTP  
Built-in One-Time Programmable Memory OTP
- 具有低噪声及出色的色彩呈现力  
Low Noise and Excellent Color Performance
- 低功耗  
Low Power Consumption

## 应用场景 | Applications

- 手机前/辅摄像头  
Smartphone Front/Auxiliary Cameras
- 平板电脑、儿童手表、家居IPC  
Tablet Cameras, Kids Smart Watch Cameras, Home IP Cameras



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