



SMARTSENS

# CMOS图像传感器

## CMOS IMAGE SENSOR

### SC1600CS 产品单页

#### SC1600CS Product Flyer

- 思特威首颗1.0微米像素单元图像传感器  
SmartSens first 1.0 $\mu$ m pixel CMOS image sensor
- 搭载QCell技术并可支持QC Bin输出，大幅提升感光度及信噪比  
Equipped with QCell technology and can support QC Bin mode output, greatly improving sensitivity and SNR
- 具有出色的成像性能，赋能手机前置摄像头应用  
With good imaging performance, enabling mobile phone front camera applications



## 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	16 MP
Pixel Array	4656H x 3096V
	4672H x 3504V
Pixel Size	1.0 $\mu$ m x 1.0 $\mu$ m
Optical Format	1/3.06"
Max Frame Rate	2328H x 1748V @60fps
Output Interface	8/10 bit 1/2/4 lane MIPI
Output Format	RAW RGB
CRA	33.98°
Sensitivity	2357mV/Lux·s
	589mV/Lux·s
Dynamic Range	73dB
	64dB
SNR	38.5dB
	34dB
Operation Temperature Range	-30°C to +85°C
Best IQ Temperature	0°C to +60°C
	Analog = 2.8V $\pm$ 0.1V
Power Supply	Digital = 1.2V $\pm$ 0.06V
	I/O = 1.8V $\pm$ 0.1V
Package	44 pin CSP
Package Size	COB: 5.246mm x 4.457mm
	RW: 5.296mm x 4.507mm

## 产品特性 | Features

- 16MP 1.0微米图像传感器**  
 16MP 1.0 $\mu$ m CMOS Image Sensor
- 搭载QCell技术并可支持QC Bin输出, 大幅提升感光度及信噪比**  
 Equipped with QCell Technology and Can Support QC Bin Mode output, Greatly Improving Sensitivity and SNR
- 具有低噪声及出色的色彩呈现力**  
 With Low Noise and Great Color Expression

## 应用场景 | Applications

- 手机前置摄像头**  
 Smart Phone Front Cameras
- 家用IPC**  
 Home IPC
- 视频电话会议设备**  
 Video Conference Cameras



WeChat



LinkedIn

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