



SMARTSENS

# CMOS图像传感器

## CMOS IMAGE SENSOR

### SC820CS 产品单页

### SC820CS Product Flyer

- 自研先进BSI工艺平台产品, 赋能手机摄像头系统  
Self-Developed Advanced BSI Process Platform Products  
Enables Mobile Phone Camera Systems
- 12英寸晶圆工艺打造产品优异成像性能  
12-Inch Wafer Process Provides Superior Imaging  
Performance



## 公司简介 | Company Profile

思特威(上海)电子科技股份有限公司 SmartSens Technology (股票简称:思特威, 股票代码:688213) 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. (Stock Code: 688213) 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	8 MP
Pixel Array	3280H x 2464V
Pixel Size	1.12 $\mu$ m x 1.12 $\mu$ m
Optical Format	1/4"
Max Frame Rate	3264H x 2448V @30fps
Output Interface	10/8 bit 1/2/4 lane MIPI
Output Format	RAW RGB
CRA	32.55°
Sensitivity	840mV/Lux-s
Dynamic Range	71dB
SNR	36.8dB
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: 4.280mm x 3.740mm
	RW: 4.230mm x 3.690mm

### 产品特性 | Features

- 优异夜视成像性能**  
 Excellent Night Vision Imaging Performance
- 具有低噪声及出色的色彩呈现力**  
 Low Noise and Excellent Color Rendering
- 采用12英寸晶圆工艺打造**  
 Built on a 12-Inch Wafer Process

### 应用场景 | Applications

- 手机前置摄像头**  
 Mobile Phone Front-Facing Cameras
- 手机后置主/辅摄像头**  
 Mobile Phone Rear Primary/Secondary Cameras



WeChat



LinkedIn

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