



SMARTSENS

# CMOS图像传感器

## CMOS IMAGE SENSOR

### SC2210 产品单页

#### SC2210 Product Flyer

- 全新高性能星光级升级技术, 大幅降低暗电流、噪声及白点  
Uses newly-upgraded high-performance starlight imaging technology, which greatly reduces dark current, noise, and white pixel
- 具有出色超低光性能的大光学尺寸1080P传感器  
1080P sensor in large optical format, with excellent ultra-low-light 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
<b>Resolution</b>	2MP
<b>Pixel Array</b>	1920H x 1080V
<b>Pixel Size</b>	4.0µm x 4.0µm
<b>Optical Format</b>	1/1.8"
<b>Max Frame Rate</b>	1920H x 1080V @60fps 12bit
	1920H x 1080V @90fps 10bit
<b>Output Interface</b>	12 bit DVP
	12/10/8-bit 4 Lane MIPI
	12/10/8-bit 4 Lane LVDS
<b>Output Format</b>	RAW RGB
<b>CRA</b>	9°
<b>Sensitivity</b>	10800 mV/Lux·s
<b>Dynamic Range</b>	HDR Mode up to 100dB
	Linear Mode 84dB
<b>SNR</b>	43 dB
<b>Operation Temperature Range</b>	-30°C to +85°C
<b>Best IQ Temperature</b>	-20°C to +60°C
<b>Power Supply</b>	Analog = 2.8V±0.1V
	Digital = 1.2V±0.06V
	I/O = 1.8V±0.1V
<b>Package</b>	70 pin CSP
<b>Package Size</b>	8.89 mm x 5.79 mm

## 产品特性 | Features

- 采用全新高性能星光级升级技术**  
 Uses newly-upgraded high-performance starlight imaging technology
- 暗电流降低50%，噪声降低10%，白点降低20%**  
 50% drop in dark current; 10% decrease in noise; 20% reduction in white pixel
- 支持1/1.8"大光学尺寸 1080P视频输出**  
 Supports 1080P output in a 1/1.8" optical format
- 支持动态行交叠的三重曝光宽动态**  
 Supports 3-exposure staggered HDR mode
- 优异的850/940nm 近红外增益表现**  
 Improved NIR performance at 850/940nm

## 应用场景 | Applications

- 工业监控**  
 Industrial Cameras
- 智慧城市系统**  
 Smart City Systems
- 狩猎相机**  
 Hunting Cameras
- 专业运动相机**  
 Professional Sports Cameras



WeChat



LinkedIn

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