



SMARTSENS

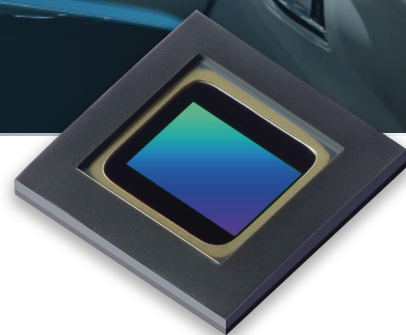
# CMOS图像传感器

## CMOS IMAGE SENSOR

### SC320AT 产品单页

### SC320AT Product Flyer

- 3MP Sensor+ISP二合一的车规级图像传感器新品  
SmartSens' new 3MP automotive-grade CMOS image sensor with built-in ISP
- 集高感度、高动态范围和优异的LED闪烁抑制功能于一体  
High sensitivity, high dynamic range, and excellent LED flicker suppression



## 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	3MP
Pixel Array	1940H x 1556V
Pixel Size	3.0 μm x 3.0 μm
Optical Format	1/2.44"
Max Frame Rate	1920H x 1536V @30fps PixGain HDR+SE HDR+ LFS
	1920H x 720V @60fps PixGain HDR+SE HDR+ LFS
Output Interface	10/8 bit DVP
	20/12/10/8 bit 1/2/4 lane MIPI
Output Format	12/10/8 bit 1/2/4 lane LVDS
	RAW RGB
Output Format	YUV422
	CRA
Sensitivity	862lmV/Lux-s
Dynamic Range	120dB
SNR	42dB
Operation Temperature Range	-40°C to +105°C
	Analog = 2.8±0.1 V
Power Supply	Digital = 1.2±0.06 V
	I/O = 1.8±0.1 V
Package	CSP/iBGA
Package Size	CSP : 8.070mm x 8.040mm
	iBGA : 10.10mm x 9.80mm

## 产品特性 | Features

- 采用思特威SmartClarity®-2技术, 打造更优夜视全彩成像**  
 Adopting SmartSens' SmartClarity®-2 technology for full-color night vision outputs
- Sensor+ISP二合一升级算法带来更佳画质**  
 Built-in ISP with upgraded ISP algorithms provides significant improvement in the image quality
- 高动态范围**  
 High dynamic range
- LED闪烁抑制功能**  
 LED flicker suppression

## 应用场景 | Applications

- 车载环视影像**  
 Surround View Cameras
- 车载侧视影像**  
 Side View Cameras
- 车载盲点检测**  
 Blind Spot Detection
- 车载前视感知**  
 Front View Cameras



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