



SMARTSENS

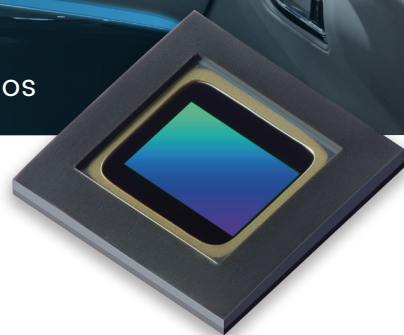
# CMOS图像传感器

## CMOS IMAGE SENSOR

### SCI20AT 产品单页

#### SCI20AT Product Flyer

- 车规级图像传感器, 适用于车辆后视影像/360度环视/盲点检测等应用  
Vehicle-level CIS product for rear view image/360° surround view/blind spot detection
- 符合AEC-Q100 Grade 2 标准, 搭载片上ISP二合一功能  
Qualified for AEC-Q100 Grade 2, equipped with on-chip ISP 2 in 1 function
- 搭载行交叠宽动态HDR和PixGain HDR®, 提供120dB超高动态范围, 适用于主流车载应用场景  
Equipped with HDR and PixGain HDR®, provides 120dB ultra-high dynamic range for most driving scenarios



## 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.

## SmartClarity™ -2 Series

## 规格说明 | Specifications

项目   Item	参数   Parameters
Resolution	1.3MP
Pixel Array	1288H x 968V
Pixel Size	3.0μm x 3.0μm
Optical Format	1/3.7"
Max Frame Rate	30fps@三重曝光行交叠宽动态
Output Interface	8-bit DVP 20/16/14/12/10/8-bit @1/2/4Lane MIPI 16/12/10/8-bit@1/2/4Lane LVDS
Output Format	YUV 422
CRA	15°
Sensitivity	8083mV/LUX*S
Dynamic Range	100dB@60fps by 2-frame combination 120dB@30fps by 3-frame combination
Max SNR	43dB
Operation Temperature	-40°C to +105°C
Power Supply	Analog = 2.8 V Digital = 1.2V I/O = 1.8V
Package	41-pin CSP 72-pin iBGA COB/RW
Package Size	CSP: 5.74mm x 4.82mm iBGA: 7.30mm x 6.65mm COB: 5.70mm x 4.78mm RW: 5.75mm x 4.83mm

## 产品特性 | Features

- 内置2合1集成ISP算法  
2 in 1 Integrated ISP Algorithm Inside
- 支持高达120dB行交叠三段曝光宽动态  
120dB 3-Exposure Line Based Staggered HDR
- 高灵敏度、高信噪比  
High Sensitivity, Excellent SNR
- 低功耗(<250mW)  
Low Power Consumption (<250mW)

## 应用场景 | Applications

- 车辆后视影像  
Rear View Cameras
- 车辆360度环视  
360° Surround View Cameras
- 车辆盲点检测  
Blind Spot Detection



WeChat



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