



SMARTSENS

CMOS 图像传感器

CMOS IMAGE SENSOR

SC121AT 产品单页

SC121AT Product Flyer

- 1.3MP车规级CMOS图像传感器, 适用于360度环视、后视、盲点检测等应用
1.3MP automotive-grade CMOS image sensor for 360° surround view systems, rear view cameras, and blind spot detection
- 支持最高120dB的三重曝光行交叠HDR模式, 逆光、强光场景下提供清晰成像
Supports up to 120dB at 3-exposure Staggered HDR mode, which enables clear image output in backlight or strong light scenes
- 符合AEC-Q100 Grade 2标准, 搭载片上ISP功能
Compliant with AEC-Q100 Grade 2, and has built-in ISP



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	1.3MP
Pixel Array	1304H x 984V
Pixel Size	3.0µm x 3.0µm
Optical Format	1/3.75"
Max Frame Rate	1280H x 960V@30fps, 3-exposure Staggered HDR
Output Interface	8-bit DVP 20/16/14/12/10/8-bit, 1/2/4-lane MIPI 16/12/10/8-bit, 1/2/4-lane LVDS
Output Format	RAW YUV422
CRA	15°
Sensitivity	9211 mV/lux·s
Dynamic Range	120dB @3-exposure Staggered HDR 100dB @2-exposure Staggered HDR
SNR	42dB
Operation Temperature Range	-40°C to +105°C
Power Supply	Analog = 2.8±0.1V Digital = 1.2±0.06V I/O = 1.8±0.1V
Package Size	47-pin CSP, 5.740mm x 4.820mm

产品特性 | Features

- 高灵敏度、高信噪比
High sensitivity and SNR
- 支持高达120dB的三重曝光行交叠HDR
Up to 120dB at 3-exposure Staggered HDR
- 内置片上ISP
Built-in ISP

应用场景 | Applications

- 车辆后视摄像头
Rear View Cameras
- 车辆360度环视系统
360° Surround View Systems
- 车辆盲点检测
Blind Spot Detection



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