CMOS 图像传感器
CMOS IMAGE SENSOR

SC860AT　产品单页
SC860AT Product Flyer

■ 搭载Lofic HDR®2.0、SFCPixel®技术的8.3MP车规级图像传感器
SmartSens 8.3MP CMOS image sensor with Lofic HDR®2.0 and SFCPixel® technologies for automotive cameras

■ 支持AB-Exposure™双帧曝光控制功能，具备高帧率、高感度、高动态范围等性能优势
Supports AB-Exposure™ dual-frame exposure control and features high resolution, high sensitivity, and high dynamic range

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.

SC860AT Product Flyer

CARSens®-XR Gen 2 Plus

SMARTSENS

规格说明 | Specifications

项目	Item	参数	Parameters
Resolution	8.3MP
Pixel Array	3872H x 2192V
Pixel Size	2.1μm x 2.1μm
Optical Format	1/1.73"
Max Frame Rate	3840H x 2160V @40fps PixGain HDR + OFC／LCG＋VS raw combine＋PWL
Output Interface	24/20/16/14/12/10-bit@1/2/4 Lane MIPI
Output Format	RAW RGB
CRA	18°
Sensitivity	7264mV／Lux·s
Dynamic Range	140dB@四帧融合
	110dB@三帧融合
SNR	39.6dB
Operation Temperature Range	环境温度：−40℃ to ＋105℃
	结温：−40℃ to ＋125℃
Power Supply	Analog = 2.8±0.1V
	Digital = 1.0V（0.95V~1.1V）
	I／O = 1.8±0.1V
Package Size	iBGA, 7.80 x 11.40 mm, 96-pin
	COB, 6.05 x 9.77 mm, 134-pin
	RW, 6.00 x 9.72 mm, 134-pin

产品特性 | Features

- **支持AB-Exposure™双帧曝光控制功能，可独立配置双帧各自不同的曝光参数**
  It supports AB-Exposure™ dual-frame exposure control function, which can independently set different exposure parameters for frame A and frame B

- **思特威先进Lofic HDR®2.0和 SFCPixel®技术，实现高感度和高动态范围**
  SmartSens' advanced Lofic HDR®2.0 and SFCPixel® technologies achieve high sensitivity and high dynamic range

- **LED闪烁抑制 (LFS)**
  LED Flicker Suppression (LFS)

- **iBGA 封装**
  iBGA package

应用场景 | Applications

- **车载前视摄像头**
  Front View Cameras

- **车载侧视摄像头**
  Side View Cameras

- **车载后视摄像头**
  Rear View Cameras

- **车载舱内摄像头**
  Occupancy Monitoring System Cameras