



SMARTSENS

CMOS图像传感器

CMOS IMAGE SENSOR

SC4210H 产品单页

SC4210H Product Flyer

- 低暗电流超星光级BSI像素图像传感器
Super starlight BSI pixel with low dark current performance
- 1/1.8"大光学尺寸400万像素分辨率
Large 1/1.8" optical format 4MP resolution



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.

规格说明 | Specifications

项目 Item	参数 Parameters
Resolution	4 MP
Pixel Array	2576H x 1452V
Pixel Size	3.0μm x 3.0μm
Optical Format	1/1.8"
Max Frame Rate	2560H x 1440V @60fps
Output Interface	12/10/8 bit DVP
	12/10/8 bit 4 lane MIPI
	12/10/8 bit 4 lane LVDS
Output Format	RAW RGB
CRA	9°
Sensitivity	4,800mV/Lux·s
Dynamic Range	HDR Mode up to 100dB
	Linear Mode 82dB
SNR	43dB
Operation Temperature Range	-30°C to +85°C
Best IQ Temperature	-20°C to +60°C
Power Supply	Analog = 2.8V
	Digital = 1.2V
	I/O = 1.8V
Package	70 pin CSP
	115 pin CLGA
Package Size	8.87mm x 5.62mm

产品特性 | Features

- 改善像素设计减少暗电流并优化噪声
Improved Pixel Design for Reduced Dark Current and Optimized Noise Performance
- 支持大光学尺寸2K视频输出
Support Large Optical Format 2K Output
- 支持动态行交叠的双重曝光宽动态
2-Exposure Line Based HDR Mode
- 850/940 nm 近红外增强
850/940 nm Near IR Improvement
- 低功耗
Low Power Consumption

应用场景 | Applications

- 专业安防监控
Professional Surveillance Cameras
- 鱼眼安防摄像头
Fish Eyes Security Cameras
- 视频会议系统
Video Conferencing Systems
- 狩猎相机
Hunting Cameras



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