



SMARTSENS

CMOS图像传感器

CMOS IMAGE SENSOR

SC530AI 产品单页

SC530AI Product Flyer

- 高性能16:9宽画幅3K视频输出

High performance sensor with widescreen 16:9 aspect ratio delivers 3K video

- 搭载思特威升级SmartClarity®-2技术，白天+黑夜成像性能全面升级

With SmartSens' updated SmartClarity®-2 technology, the daytime+nighttime imaging performance has been fully upgraded

- BSI像素工艺图像传感器，呈现出色夜视全彩影像

BSI CMOS Image Sensor performs excellent full-color night vision



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	5MP
Pixel Array	2884H x 1624V
Pixel Size	2.0μm x 2.0μm
Optical Format	1/2.7"
Max Frame Rate	2880H x 1620V@60fps
Output Interface	10-bit 1/2/4 Lane MIPI
Output Format	RAW RGB
CRA	15°
Sensitivity	2614mV/LUX*s
Dynamic Range	HDR mode up to 100dB
	Linear mode 83dB
SNR	40dB
Operation Temperature	-30°C to +85°C
Best IQ Temperature	-20°C to +60°C
Power Supply	Analog = 2.8 V
	Digital = 1.5V
	I/O = 1.8V
Package	41-pin CSP
Package Size	6.55mm x 4.27mm



WeChat



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产品特性 | Features

- BSI像素工艺结合超低噪声读取电路，出色夜视全彩**
 With Pixel Design Technology and Ultra-low Read Noise, the Marvellous Full-color Night Vision is Gained
- 搭载近红外感度NIR+技术，有效实现850/940nm近红外增益**
 With NIR Enhancement Technology, Quantum Efficiency Enhancement in 850nm and 940nm is Achieved
- 搭载PixGain™技术，带来更佳信噪比及动态范围**
 With PixGain™ Technology, the Greater SNR and Dynamic Range is Acquired
- 低功耗**
 Low Power Consumption

应用场景 | Applications

- AI安防摄像头**
 AI Surveillance Cameras
- 家用IoT摄像头**
 Home IoT Cameras
- 暗光视频摄像头**
 Low Light Video Cameras

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