



SMARTSENS

# CMOS图像传感器

## CMOS IMAGE SENSOR

### SC400AI 产品单页

#### SC400AI Product Flyer

- 搭载思特威升级SmartClarity®技术，白天+黑夜成像性能全面升级  
Using SmartSens' SmartClarity® technology to deliver enhanced performance in both daytime and nighttime conditions
- 搭载PixGain™技术，信噪比及动态范围更佳  
Using PixGain™ technology to deliver improved SNR and 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)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	4MP
Pixel Array	2568H x 1448V
Pixel Size	2.0μm x 2.0μm
Optical Format	1/3"
Max Frame Rate	2560H x 1440V @60fps
Output Interface	8/10 bit 1/2/4 lane MIPI
Output Format	RAW RGB
CRA	15°
Sensitivity	3750mV/Lux-s
Dynamic Range	HDR Mode up to 100dB
	Linear Mode 78dB
SNR	40dB
Operation Temperature	-30°C to +85°C
Best IQ Temperature	-20°C to +60°C
Power Supply	Analog = 2.8V±0.1V
	Digital = 1.2V±0.1V
	I/O = 1.8V±0.1V
Package	35 pin CSP
Package Size	5.76mm x 3.64mm

## 产品特性 | Features

- BSI像素工艺结合超低噪声外围读取电路,出色夜视全彩**  
 Combining BSI Process and Low Noise Reading Circuit Design to Deliver Full-Color Night Vision
- 搭载PixGain™技术,带来更佳信噪比及动态范围**  
 Using PixGain™ Technology to Deliver Improved SNR and Dynamic Range
- 搭载影院级色彩视效技术,带来色彩更加艳丽视频影像**  
 Upgraded Color Process to Deliver Better Color Performance
- 支持动态行交叠的双重曝光宽动态**  
 2-Exposure Line Based Staggered HDR

## 应用场景 | Applications

- AI安防摄像头**  
 AI Security 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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