



SMARTSENS

CMOS图像传感器

CMOS IMAGE SENSOR

SC450AI 产品单页

SC450AI Product Flyer

- 全4MP 1/1.8英寸高端安防及AI智视应用图像传感器
Full 4MP 1/1.8" advanced security surveillance & AIoT image sensor
- 拥有超高感度, 无需红外信号亦可实现夜视全彩的高清影像
With ultra-high sensitivity, full-color high-definition night-vision images can be captured without infrared sensors
- 拥有堪比单反相机的色彩饱和度及绚丽成像效果
Achieving color saturation and brilliant imaging effects comparable to SLR cameras



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, 凭借性能优势在同质化竞争中脱颖而出, 得到了更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、智能车载电子等多场景应用领域的全性能需求。

公司持续拓展产品的应用领域, 以创新的图像传感器技术助推各产业智能化转型和发展, 助力集成电路产业国产化替代。

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	2704H x 1536V
Pixel Size	2.9μm x 2.9μm
Optical Format	1/1.8"
Max Frame Rate	2688H x 1520V@60fps
Output Interface	12-bit DVP
	10/8-bit 1/2/4 Lane MIPI 12/10/8-bit 1/2/4 Lane LVDS
Output Format	RAW RGB
CRA	9°
Sensitivity	7072mV/LUX*S
	87dB linear mode >100dB HDR mode
Dynamic Range	
Max SNR	42dB
Operation Temperature	-30°C to +85°C
	Analog = 2.8 V
Power Supply	Digital = 1.2V
	I/O = 1.8V
Package	70-pin CSP
Package Size	8.63mm x 5.46mm

产品特性 | Features

- 超高感和超高动态范围
Ultra High Sensitivity and Dynamic Range
- 超低噪声和超高信噪比
High Max SNR and Low Noise
- 出色的色彩饱和度
Excellent Color Saturation
- 高温性能出色, 80°C下也拥有高品质的成像效果
Excellent High Temperature Performance
Capable of High-Quality Even at 80°C

应用场景 | Applications

- 安防监控应用
Security Monitoring
- 穿戴式智能摄像头
Wearable Smart Cameras
- 物联网摄像头
IoT Cameras
- 可移动设备摄像头
Mobile Device Cameras



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