CMOS图像传感器
CMOS IMAGE SENSOR

SMARTSENS

SC500AI 产品单页
SC500AI Product Flyer

■ 高性能16:9宽画幅3K视频输出
High performance 16:9 aspect ratio 3K video output

■ 暗光、色彩全性能提升
More improved performance,
specifically low-light imaging and color expression

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	2888H x 1628V
Pixel Size	2.0μm x 2.0μm
Optical Format	1/2.7"
Max Frame Rate	2880H x 1620V @60fps
Output Interface	10/8 bit 1/2/4 lane MIPI
Output Format	RAW RGB
CRA	15º
Sensitivity	3628mV/Lux·s
Dynamic Range	HDR Mode up to 100dB
	Linear Mode 79dB
SNR	39dB
Operation Temperature	-30ºC to +85ºC
Best IQ Temperature	-20ºC to +60ºC
Power Supply	Analog = 2.8V
	Digital = 1.2/1.5V
	I/O = 1.8V
Package	41 pin CSP
Package Size	6.45mm x 4.26mm

3K

产品特性 | Features

- 宽画幅16:9比例，可实现1620P，3K 视频输出
  Display Friendly 16:9 for 1620P, 3K Video Output

- 60帧动态行交叠的双重曝光宽动态
  Sensor 60fps for 2-Exposure Line Based Staggered HDR Mode

- 850/940nm 近红外增益
  850/940 nm Near IR Improvement

- 低功耗
  Low Power Consumption

应用场景 | Applications

- AI安防摄像头
  AI Security Cameras

- 工业安防摄像头
  Industrial Security Cameras

- 视频会议摄像头
  Video Conference Cameras

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