CMOS图像传感器
CMOS IMAGE SENSOR

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、设计及服务的高新技术企业,2011年创立,总部设立于中国上海,在北京、深圳、杭州、香港、新竹以及美国圣何塞等多个城市设有研发中心与销售办公室,网络遍及全球。

思特威以创新为驱动,专注于为客户提供面向未来和全球领先的CMOS图像传感器芯片产品。凭借一支精于创新、覆盖全球的研发团队,思特威自主研发出了优秀的夜视全彩技术、独创领先的DSI技术、Stack BSI的全局曝光技术等诸多卓越技术。

自成立以来,思特威一直以客户需求为核心,致力于为客户提供高质量的视频解决方案。公司产品也不断成熟并逐步确立了安防领域行业领先地位,产品遍及安防监控、车载影像、机器视觉及消费类电子产品(运动相机、无人机、扫地机器人、智能家用摄像头)等应用领域。2017年起,思特威已连续多年在CIS产品安防领域全球市场占有率上保持第一,并在机器视觉、人工智能应用等新兴领域不断拓展创新。

SmartSens Technology(Shanghai) Co., Ltd. is a high-performance CMOS image sensing (CIS) chip design company. The company, founded in 2011, is headquartered in Shanghai and has both research centers and sales offices in various cities around the world, including Beijing, Shenzhen, Hangzhou, Hong Kong, Hsinchu and San Jose, California.
SmartSens is dedicated to providing future-oriented and world-leading CMOS image sensing products. With an international and accomplished research team, SmartSens owns a suite of proprietary technologies, including full color night vision, DSI Pixel, global exposure built on voltage domain architecture and Stack BSI processes, among many others.
SmartSens has always kept the needs of the customer first, constantly innovating with the goal of providing the customer with high-quality video capturing solutions, with products in Security & Surveillance, Automotive, Machine Vision, Consumer Electronics (sports cameras, drones, automatic vacuums, smart home), and other application fields. Since 2017, SmartSens has maintained its lead in the CIS Security & Surveillance global market share for two consecutive years, and it has had achievements in machine vision, artificial intelligence, among other applications.

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SC500AI Product Flyer

SmartClarity™ Series

SMARTSENS

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	15°
Sensitivity	3628mV/Lux·s
Dynamic Range	HDR Mode up to 100dB
	Linear Mode 79dB
SNR	39dB
Operation Temperature	-30°C to +85°C
Best IQ Temperature	-20°C to +60°C
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

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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