



SMARTSENS

CMOS图像传感器

CMOS IMAGE SENSOR

SC532HAI 产品单页

SC532HAI Product Flyer

- 基于思特威SmartClarity®-3工艺技术打造,搭载了Lightbox IR®、InSensor HDR™、SmartAOV™等多项先进技术的图像传感器
SmartSens AI Series image sensor with Lightbox IR®, InSensor HDR™ and SmartAOV™
- 具备高感度、高动态范围、高温成像、低功耗等优势性能
Features high sensitivity, high dynamic range, high-temperature imaging, and low power consumption
- 支持全时录像(AOV)功能
Supports Always-on Video (AOV)

公司简介 | Company Profile

思特威(上海)电子科技股份有限公司 SmartSens Technology (股票简称:思特威, 股票代码:688213)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. (Stock Code:688213) 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.

SC532HAI Product Flyer

SmartClarity®-3

规格说明 | Specifications

项目 Item	参数 Parameters
Resolution	50MP
Pixel Array	2968H x 1674V
Pixel Size	2.0 μm x 2.0 μm
Optical Format	1/2.65"
Max Frame Rate	2960H x 1666V @30/60 fps (DVDD 1.2 V)
Output Interface	10-bit 1/2/4Lane MIPI 10-bit 1/2/4 Lane LVDS
Output Format	RAW RGB
CRA	11.1°
Sensitivity	4133 mV/lux·s
Dynamic Range	Normal Mode: 83 dB HDR Mode: >100 dB
SNR	39 dB
Operation Temperature Range	-30°C ~ +85°C
Best IQ Temperature	-20°C ~ +60°C
Power Supply	Analog = 2.8 V $\pm$ 0.1 V Digital = 1.2 V $\pm$ 0.06 V I/O = 1.8 V $\pm$ 0.1 V
Package	35-pin CSP
Package Size	7.044 mm x 4.704 mm



产品特性 | Features

- 支持双重曝光行交叠HDR和单帧曝光InSensor HDR™模式
Supports both 2-exposure Staggered HDR and single-frame exposure InSensor HDR™ modes
- 高感度
High sensitivity
- 高温成像优化
Imaging at high temperatures
- 全时录像 (AOV)
Always-on Video

应用场景 | Applications

- 安防监控系统
Surveillance Systems
- 网络摄像机
Internet Protocol Camera
- 家用IoT摄像头
Home IoT Cameras
- 暗光视频摄像头
Low-Light Video Cameras
- 企业园区安防监控系统
Security Surveillance System for Enterprise Campus



WeChat



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