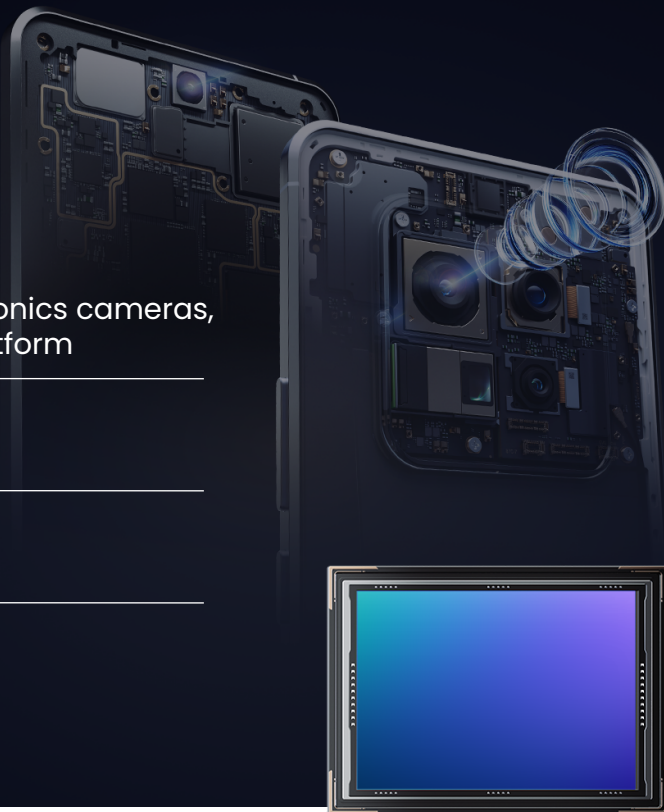


SC525CS 产品单页

SC525CS Product Flyer

- 基于思特威SmartClarity®-3技术平台打造的消费电子应用CMOS图像传感器升级新品
Upgraded CMOS image sensor for consumer electronics cameras, built on SmartSens' SmartClarity®-3 technology platform
- 搭载SFCPixel®专利技术
Embedded SFCPixel® technology
- 具备高感度、低功耗等优势
High sensitivity and low power consumption
- 高温性能、高动态范围、满阱容量(FWC)等关键性能实现全面优化
Fully optimized high temperature performance, high dynamic range, and full well capacity



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.

SmartClarity®-3 Series

规格说明 | Specifications

项目 Item	参数 Parameters
Resolution	5MP
Pixel Array	2600H × 1952V
Pixel Size	1.12μm × 1.12μm
Optical Format	1/5"
Max Frame Rate	2592H × 1944V @30fps 10bit
Output Interface	MIPI D-PHY: 1/2-lane Max. 1.2 Gbps/lane
Output Format	RAW RGB
CRA	32.8°
Sensitivity	4823 e-/Lux*s
Dynamic Range	72.3dB
SNR	37.1dB
Operation Temperature Range	-20°C ~ +85°C
Best IQ Temperature	0°C ~ +60°C
Power Supply	AVDD = 2.8 V DVDD = 1.2 V DOVDD = 1.8/1.2 V
Package	COB/RW
Package Size	COB: 3.820mm × 2.800mm, 27-pad RW: 3.870mm × 2.850mm, 27-pad
ESD Rating	HBM: Class 2 CDM: Class C

产品特性 | Features

- 高温性能优化, 增强低功耗实感
Optimized high-temperature performance and low power performance
- 高动态与高感度, 显著提升画质表现
High dynamic range and high sensitivity, delivering clear improvements in image quality
- 聚焦智能手机前摄、超广角及微距应用, 兼顾PC、平板等消费电子设备的成像需求
Supports front, ultra-wide-angle, and macro cameras for smartphone applications PCs, tablets, and other consumer electronic devices available

应用场景 | Applications

- 智能手机后置主摄 / 后置超广角 / 前摄
Rear main camera / rear ultra-wide-angle / front camera for smartphone applications
- 电脑 / 平板摄像头
PC / tablet cameras
- 可移动设备相机
Mobile device cameras
- 视频电话会议设备
Video conferencing systems
- 智能家用摄像头
Smart home cameras
- 电池供电式摄像头
Battery-powered cameras



WeChat



LinkedIn

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