



SMARTSENS

CMOS图像传感器

CMOS IMAGE SENSOR

SCC85XS 产品单页

SCC85XS Product Flyer

- 基于国产化技术平台SmartClarity®-SL Pro打造的全新高端2亿像素、0.61μm像素尺寸超高清手机CMOS图像传感器
New 200MP, 0.61μm-pixel ultra-high-definition smartphone CIS built on high-end domestic SmartClarity®-SL Pro platform
- 22nm Stack先进工艺制程
22nm Stack process
- 搭载思特威SFCPixel®-SL、PixGain HDR®、AllPix ADAF®以及硬件Hex Crop Remosaic (片上像素重组) 等多项核心技术
Built-in SFCPixel®-SL, PixGain HDR®, AllPix ADAF®, and hardware Hex Crop Remosaic
- 超低噪声、低功耗、高感度、高色彩还原等综合性能优势
Ultra-low noise, low power consumption, high sensitivity, and accurate color rendition



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®-SL Pro Series

规格说明 | Specifications

项目 Item	参数 Parameters
Resolution	200MP
Pixel Array	16384H × 12288V
Pixel Size	0.61 μm × 0.61 μm
Optical Format	1/1.28"
Max Frame Rate	16384H × 12288V @8fps 10bit 4096H × 2304V @120fps 10bit
Output Interface	MIPI C-PHY: 1/2/3-trio; Max. 4.0 Gsps/trio MIPI D-PHY: 1/2/4-lane; Max. 2.5 Gbps/lane
Output Format	RAW RGB
CRA	37.62°
Sensitivity	Bayer 25791 e-/lux·s Quad 6448 e-/lux·s Hex 1612 e-/lux·s
Dynamic Range	81.72dB
SNR	44.77dB
Operation Temperature Range	-20°C ~ +85°C
Best IQ Temperature	0°C ~ +60°C
Power Supply	AVDD = 2.8V, AVDD2=1.8V DVDD = 1.2V DOVDD = 1.8V/1.2V
Package	COB/RW
Package Size	COB: 11268.9mm × 8498.7mm, 114-pin RW: 11428.9mm × 8658.7mm, 114-pin
ESD Rating	HBM: Class 3A CDM: Class C3

产品特性 | Features

- 支持传感器内2倍(有效像素50MP)及4倍(有效像素12.5MP)无损变焦全窗口Full-size输出
In-sensor 2x (effective 50MP) and 4x (effective 12.5MP) lossless zoom with full-window full-size output
- 超低噪声
Ultra-low noise
- 高感度
High sensitivity
- 硬件Remosaic
Hardware Hex Crop Remosaic and Quad Remosaic
- 全焦段高清高帧率视频
Full-Focal-Range High-Frame-Rate HDR Video
- 高速闪拍
PixGain HDR® + VS snapshot mode

应用场景 | Applications

- 手机摄像头
Smartphone Cameras
- 可移动设备相机
Mobile Device Cameras



WeChat



LinkedIn

Website	www.smartsensotech.com
安防监控类应用	security@smartsensotech.com
车载电子类应用	automotive@smartsensotech.com
工业及机器视觉	machinevision@smartsensotech.com
智能手机类应用	mobile_cs@smartsensotech.com
其他	cs@smartsensotech.com

- 上海办公室
上海市闵行区田林路889号科技绿洲四期8号楼
Building 8, Shanghai Business Park IV, No. 889 Tianlin Road,
Minhang District, Shanghai
Tel: 021-6485-3570

- 深圳办公室
深圳市龙岗区坂田街道雅宝路1号 星河WORLD B座2801室
B2801, Building B, Galaxy WORLD, No.1 Yabao Road,
Bantian Street, Longgang District, Shenzhen
Tel: 0755-2373-9713

- 合肥办公室
合肥市经济技术开发区宿松路3963号智能科技园E栋1501室
Rm 1501, Bldg E, Intelligent Technology Park, No. 3963 Susong Road,
Economic and Technological Development District, Hefei

- 香港办公室
香港观塘鸿图道21号讯科中心10楼F室
RM F, 10/F, INFOTECH CENTRE, 21 HUNG TO RD

- 美国(圣克拉拉)
4633 Old Ironsides Dr. Ste330 Santa Clara, CA 95054
Tel: +1 408 981 6626