



SMARTSENS

CMOS 图像传感器

CMOS IMAGE SENSOR

SC1620CS 产品单页

SC1620CS Product Flyer

- 搭载思特威SmartClarity®-3和SFCPixel-SL®技术的1600万像素CS系列图像传感器
SmartSens 16MP CS Series CMOS image sensor with SmartClarity®-3 and SFCPixel-SL® technologies
- 具备高感度、高动态范围、低噪声等性能优势
Provides superior performance in high sensitivity, high dynamic range, and low noise



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.

规格说明 | Specifications

项目 Item	参数 Parameters
Resolution	16MP
Pixel Array	4672H x 3512V
Pixel Size	1.0µm x 1.0µm
Optical Format	1/3.09"
Max Frame Rate	2328H x 1748V @60fps 10bit
Output Interface	10/8 bit 1/2/4 Lane MIPI
Output Format	RAW RGB
CRA	34°
Sensitivity	2747mV/Lux·s
Dynamic Range	81.94dB
SNR	42.17dB
Operation Temperature Range	-30°C to +85°C
Best IQ Temperature	0°C to +60°C
Power Supply	Analog = 2.8±0.1 V
	Digital = 1.2±0.06V
	I/O = 1.8±0.1 V
Package	47 pin COB/RW
Package Size	COB: 5.470mm x 4.613mm
	RW: 5.520mm x 4.663mm

产品特性 | Features

- 搭载思特威先进的SFCPixel-SL®技术，实现出色的噪声抑制和高动态范围
SmartSens' advanced SFCPixel-SL® technology achieves excellent low noise performance and high dynamic range
- SmartClarity®-3技术加持，感度大幅提升
SmartClarity®-3 technology provides significant improvement in the sensor's sensitivity
- 高温成像稳定
Stable imaging at high temperatures

应用场景 | Applications

- 智能手机前后置摄像头
Smartphone Front and Rear Cameras
- 智能家用摄像头
Smart Home Cameras



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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