



# CMOS 图像传感器

## CMOS IMAGE SENSOR

### SC489SL 产品单页

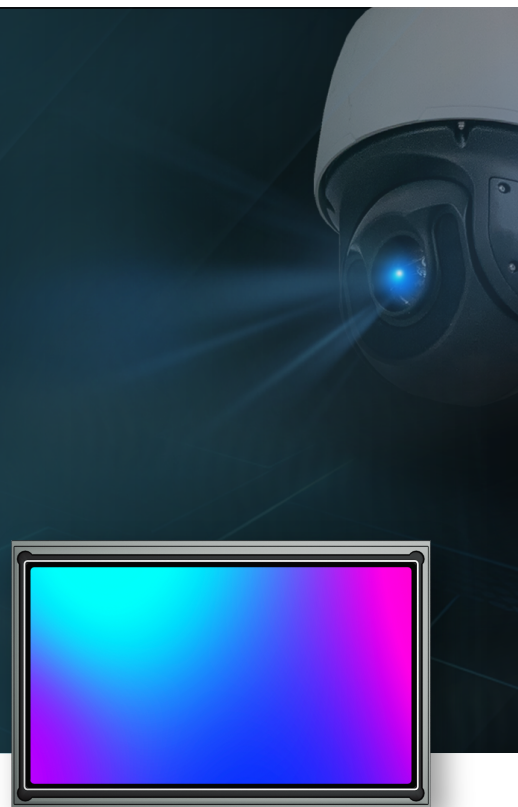
#### SC489SL Product Flyer

- 搭载思特威SmartClarity®-3和Lightbox IR®-2技术的4MP智能安防应用图像传感器新品

SmartSens 4MP CMOS image sensor with SmartClarity®-3 and Lightbox IR®-2 technologies for intelligent security applications

- 具备近红外感度增强、高动态范围、低噪声、低功耗等性能优势

Features Near-Infrared (NIR) sensitivity enhancement, high dynamic range, low noise, and low power consumption



## 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

规格说明 | Specifications

| 项目   Item                   | 参数   Parameters                   |
|-----------------------------|-----------------------------------|
| Resolution                  | 4MP                               |
| Pixel Array                 | 2704H x 1536V                     |
| Pixel Size                  | 2.9 μm x 2.9 μm                   |
| Optical Format              | 1/1.8"                            |
| Max Frame Rate              | 2688H x 1520V @ 90/60/30fps 10bit |
| Output Interface            | 16/14/12/10/8 bit 1/2/4 Lane MIPI |
|                             | 16/14/12/10 bit 1/2/4 Lane LVDS   |
| Output Format               | RAW RGB                           |
| CRA                         | 9°                                |
| Sensitivity                 | 8182mV/Lux·s                      |
| Dynamic Range               | Linear Mode: 87.6dB               |
|                             | HDR Mode: >120dB                  |
| SNR                         | 42dB                              |
| Operation Temperature Range | -30°C to +85°C                    |
| Best IQ Temperature         | -20°C to +60°C                    |
| Power Supply                | Analog = 2.8±0.1V                 |
|                             | Digital = 1.2±0.06V               |
|                             | I/O = 1.8±0.1V                    |
| Package                     | 70 pin CSP                        |
| Package Size                | 8.65mm × 5.65mm                   |

产品特性 | Features

- 全新Lightbox IR®-2技术，近红外感度的显著提升  
SmartSens' Lightbox IR®-2 technology achieves the improvement of Near-Infrared (NIR) sensitivity
- 高动态范围  
High dynamic range
- 低噪声  
Low noise
- 低功耗  
Low power consumption

应用场景 | Applications

- 黑光全彩摄像机  
Dark-Light Full-Color Cameras
- 安防监控系统  
Surveillance Systems
- 网络摄像机  
IP Cameras (IPC)



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