



SMARTSENS

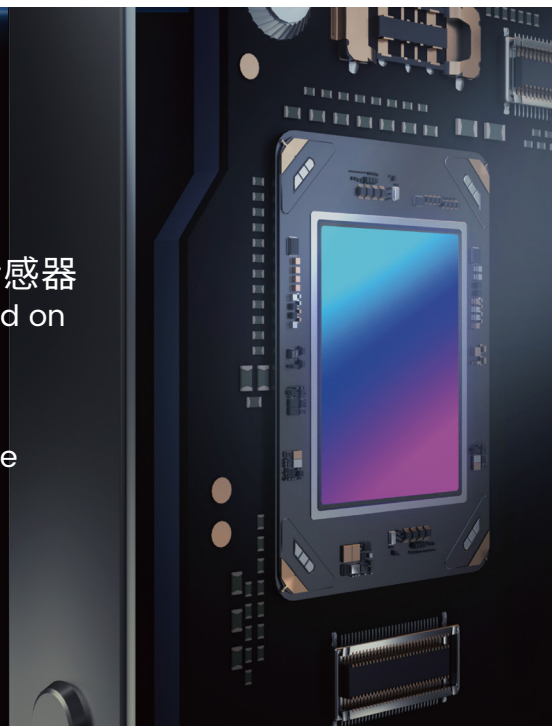
# CMOS图像传感器

## CMOS IMAGE SENSOR

### SC550XS 产品单页

#### SC550XS Product Flyer

- 思特威首颗基于22nm工艺制程50MP超高分辨率图像传感器  
SmartSens' First 50MP Ultra High Resolution Image Sensor Based on 22nm Process
- 搭载自研AllPix ADAF®技术, 可实现100%全像素对焦  
Features SmartSens' Proprietary AllPix ADAF® Technology to Achieve 100% All Pixel All Direction Auto Focus Coverage
- 搭载思特威SmartClarity®-2成像技术, 赋能高端旗舰级智能手机主摄应用  
Features SmartSens' SmartClarity®-2 Technology to Enable High-End Flagship Smartphone Main Cameras



## 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	50 MP
Pixel Array	8208H x 6160V
Pixel Size	1.0µm x 1.0µm
Optical Format	1/1.56"
Max Frame Rate	8192H x 6144V @30fps
Output Interface	MIPI C-PHY 1trio/2trio/3trio, Max. 3.0Gbps/trio MIPI D-PHY 2lane/4lane, Max. 3.0Gbps/lane
Output Format	RAW RGB
CRA	36.65°
Sensitivity	688mV/Lux-s (Full Size Mode) 2753mV/Lux-s (QCell Bin Mode)
Dynamic Range	74dB (Full Size Mode) 86dB (QCell Bin Mode)
SNR	37dB (Full Size Mode) 44dB (QCell Bin Mode)
Operation Temperature Range	-30°C to +85°C
Best IQ Temperature	0°C to +60°C
Power Supply	Analog = 2.8V±0.1V Digital = 0.9V±0.05V I/O = 1.8V±0.1V
Package	COB/RW
Package Size	COB: 9.405mm x 7.353mm RW: 9.505mm x 7.453mm

## 产品特性 | Features

- 50MP 1.0微米图像传感器**  
50MP Image Sensor with 1.0µm Pixel Size
- 采用SFCPixel®专利技术与PixGain技术，拥有出色的夜视全彩成像性能**  
Excellent Full-Color Night Vision Performance Enabled by SFCPixel® Technology and PixGain Technology
- 搭载PixGain HDR®等多种HDR技术组合，捕捉更丰富的光照明暗细节**  
Richer Detail in the Highlights and Shadows of a Scene via Multiple HDR Technologies Such as PixGain HDR®
- AllPix ADAF®技术，实现100%的全像素对焦**  
100% All Pixel All Direction Auto Focus Coverage Achieved by AllPix ADAF® Technology
- 搭载SmartClarity®-2技术，呈现如电影般的成像质感**  
Movie-like Image Quality with SmartClarity®-2 Technology

## 应用场景 | Applications

- 旗舰级智能手机主摄**  
Flagship Smartphone Main Cameras
- PC多媒体设备**  
PC Multimedia Devices
- 可移动设备相机**  
Removable Device Cameras



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