



SMARTSENS

# CMOS图像传感器

## CMOS IMAGE SENSOR

### SC8238H 产品单页

#### SC8238H Product Flyer

- 全新高性能星光级升级技术, 大幅降低暗电流、噪音及白点  
Using new high-performance star light upgrade technology, which greatly reduces dark current, temp noise and white pixel
- 支持最常用的1/3"光学尺寸  
Support most commonly used 1/3" optical format



## 公司简介 | Company Profile

思特威电子科技有限公司 (SmartSens Technology) 是一家从事CMOS图像传感器芯片产品研发、设计及服务的高新技术企业, 2011年创立, 总部设立于中国上海, 在北京、深圳、杭州、香港、新竹以及美国圣何塞等多个城市设有研发中心与销售办公室, 网络遍及全球。

思特威以创新为驱动, 专注于为客户提供面向未来和全球领先的CMOS图像传感器芯片产品。凭借一支精于创新、覆盖全球的研发团队, 思特威自主研发出了优秀的夜视全彩技术、独创领先的DSI技术、Stack BSI的全局曝光技术等诸多卓越技术。

自成立以来, 思特威一直以客户需求为核心, 致力于为客户提供高质量的视频解决方案。公司产品也不断成熟并逐步确立了安防领域行业领先地位, 产品遍及安防监控、车载影像、机器视觉及消费类电子产品 (运动相机、无人机、扫地机器人、智能家用摄像头) 等应用领域。2017年起, 思特威已连续两年在CIS产品安防领域全球市场占有率上保持第一, 并在机器视觉、人工智能应用等新兴领域不断拓展创新。

SmartSens Technology Co., Ltd. is a high-performance CMOS image sensing (CIS) chip design company. The company, founded in 2011, is headquartered in Shanghai and has both research centers and sales offices in various cities around the world, including Beijing, Shenzhen, Hangzhou, Hong Kong, Hsinchu and San Jose, California.

SmartSens is dedicated to providing future-oriented and world-leading CMOS image sensing products. With an international and accomplished research team, SmartSens owns a suite of proprietary technologies, including full color night vision, DSI Pixel, global exposure built on voltage domain architecture and Stack BSI processes, among many others.

SmartSens has always kept the needs of the customer first, constantly innovating with the goal of providing the customer with high-quality video capturing solutions, with products in Security & Surveillance, Automotive, Machine Vision, Consumer Electronics (sports cameras, drones, automatic vacuums, smart home), and other application fields. Since 2017, SmartSens has maintained its lead in the CIS Security & Surveillance global market share for two consecutive years, and it has had achievements in machine vision, artificial intelligence, among other applications.

# SC8238H Product Flyer

## SmartClarity™ H Series

### 规格说明 | Specifications

项目	参数
Resolution	8 MP
Pixel Array	3872H x 2180V
Pixel Size	1.5μm x 1.5μm
Optical Format	1/2.7"
Max Frame Rate	3840H x 2160V @30fps
Output Interface	12/10/8 bit 4 lane MIPI 12/10/8 bit 4 lane LVDS
Output Format	RAW RGB
CRA	15°
Sensitivity	1,160mV/Lux·s
Dynamic Range	HDR Mode up to 100dB Linear Mode 70dB
SNR	36dB
Operation Temperature Range	-30°C to +85°C
Best IQ Temperature	-20°C to +60°C
Power Supply	Analog = 2.8V Digital = 1.5/1.2V I/O = 1.8V
Package	41 pin CSP 48 pin PLCC
Package Size	CSP: 6.82mm x 4.65mm PLCC: 10.16mm x 10.16mm



#### 产品特性 | Features

- 采用全新高性能星光级升级技术  
Using New High-performance Star Light Upgrade Technology
- 暗电流降低50%，噪音降低10%，白点降低20%  
Dark Current is Reduced by 50%, Noise is Reduced by 10%, 20% Reduction in White Point
- 支持最常用的1/3"光学尺寸  
Support Most Commonly Used 1/3" Optical Format
- 高灵敏度的1.5μm背照式像素  
Highly Sensitive 1.5μm BSI Pixel
- 同级别产品中功耗最低  
Lowest Power Consumption Among the Same Grade Products

#### 应用场景 | Applications

- 家用监控摄像头  
Consumer Surveillance Cameras
- 智能家居/IoT摄像头  
Smart Home and IoT Cameras
- 视频会议系统  
Video Conferencing Cameras
- 经济型运动相机  
Cost Effective Sport Cameras



WeChat



LinkedIn

Website [www.smartsensotech.com](http://www.smartsensotech.com)  
E-mail [CS@smartsensotech.com](mailto:CS@smartsensotech.com)

■ 上海办公室  
上海市徐汇区宜山路1009号创新大楼11F  
11F, No.1009, Yishan Road, Xuhui 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座大厦B-2908B  
B2908B, Building B, Galaxy WORLD, No.1 Yabao Road,  
Bantian Street, Longgang District, ShenZhen  
Tel: 0755-2373-9713

■ 北京办公室  
北京市经济技术开发区荣华南路2号大族广场T6座2201室  
Room 2201, Building T6, Dazhu Plaza, No.2, South Ronghua  
Road, Economic-Technological Development Area, Beijing  
Tel: 010-6786-3626

■ 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(圣何塞)  
加利福尼亚州圣何塞市史蒂文森克里克大道4340号280室  
4340 Stevens Creek Blvd, Suite 280, San Jose CA95129  
Tel: +1 408 981 6626