



SMARTSENS

CMOS图像传感器

CMOS IMAGE SENSOR

SC132GS 产品单页

SC132GS Product Flyer

- 基于BSI Stacked工艺的全局快门技术
Global Shutter based on BSI stacked technology
- 近红外环境下拥有超高感度
Ultra-sensitivity in NIR environment

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.

SC132GS Product Flyer

SmartGS™ Series

规格说明 | Specifications

项目	参数
Resolution	1.3MP
Pixel Array	1080H x 1280V
Pixel Size	2.7μm x 2.7μm
Optical Format	1/4"
Max Frame Rate	Non-HDR:
	10bit 120fps
	HDR:
	10bit <60fps
Output Interface	12/10/8 bit 4 lane MIPI/LVDS
Output Format	RAW MONO
CRA	25°
Sensitivity	7,000mV/Lux-s
Dynamic Range	HDR Mode upto 100dB
	Linear Mode 66dB
SNR	40dB
Operation Temperature	-40°C to +85°C
Best IQ Temperature	-20°C to +60°C
Power Supply	Analog = 2.5V
	Digital = 1.2V
	I/O = 1.8V
Package	COB / Fan-out



产品特性 | Features

- 基于BSI Stacked工艺的全局快门技术
Global Shutter Based on BSI Stacked Pixel Technology
- 120fps 高帧率
High Frame Rate @120fps
- 支持单帧HDR
Single-Frame HDR
- 近红外环境下拥有超高感度 (QE@940nm>40%)
Ultra-Sensitivity in NIR Environment (QE@940nm>40%)
- > 99.99%的出色的快门效率
Excellent Shutter Efficiency >99.99%

应用场景 | Applications

- 3D结构光
3D Structured Light AI Applications
- 生物识别系统
Biological Recognition Systems
- 扫码器
Bar Code Scanners
- 无人机避障系统
Drone Object Avoidance Systems
- 智能传感
Intelligent Sensing



WeChat



LinkedIn

- 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

Website www.smartsensitech.com
E-mail CS@smartsensitech.com