



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(上海)电子科技股份有限公司(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. 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	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



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