



SMARTSENS

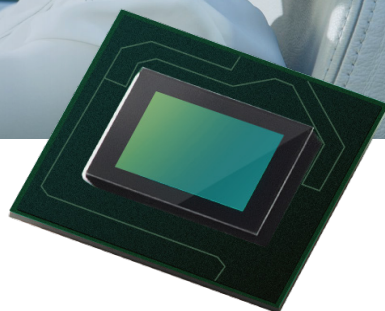
CMOS图像传感器

CMOS IMAGE SENSOR

SC133GS 产品单页

SC133GS Product Flyer

- 赋能车载DMS系统
Enabling driver monitoring systems
- 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,凭借性能优势在同质化竞争中脱颖而出,得到了更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、智能车载电子等多场景应用领域的全性能需求。

公司持续拓展产品的应用领域,以创新的图像传感器技术助推各产业智能化转型和发展,助力集成电路产业国产化替代。

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 and automotive cameras. SmartSens is committed to continuous innovation of products and fueling growth in numerous industries by delivering a more comprehensive portfolio of image sensors.

SC133GS Product Flyer

SmartGS® Series

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	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敏感度 (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
- DMS系统
Driver Monitoring 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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