



SMARTSENS

CMOS图像传感器

CMOS IMAGE SENSOR

SC133HGS 产品单页

SC133HGS Product Flyer

- 搭载全新SmartGS®-2 Plus技术的BSI架构全局快门面阵CMOS图像传感器

BSI global shutter CMOS image sensors with the advanced SmartGS®-2 Plus technology

- 兼具HDR及ISP二合一功能, 集高感度、高快门效率、高帧率、低噪声四大性能优势于一身

Equipped with HDR and built-in ISP, the sensors feature high sensitivity, high shutter speed, high frame rate, and low noise

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	1.3MP
Pixel Array	1288H x 968V
Pixel Size	3.0μm x 3.0μm
Optical Format	1/3.7"
Max Frame Rate	1280H x 960V @120fps
	8 bit DVP
Output Interface	12/10/8 bit 1/2/4 Lane MIPI
	12/10/8 bit 1/2/4 Lane LVDS
Output Format	8/10 bit RAW
CRA	23°
Sensitivity	Mono: 9650mV/Lux·s
Dynamic Range	HDR Mode up to 91.5dB
	Linear Mode 61.5dB
SNR	37.5dB
Operation Temperature	-30°C to +85°C
Best IQ Temperature	-20°C to +60°C
	Analog = 2.8V±0.1V
Power Supply	Digital = 1.2V±0.06V
	I/O = 1.8V±0.1V
Package	42 pin CSP
Package Size	4.495mm x 4.380mm

产品特性 | Features

- 高帧率面阵CMOS图像传感器
High frame rate CMOS image sensors
- 基于BSI工艺的SmartGS®-2 Plus全局快门技术, 适用于工业及新兴机器视觉应用
BSI global shutter sensors with SmartGS®-2 Plus for industrial and emerging machine vision applications
- 采用单帧拐点HDR技术, 在全局快门架构下实现高动态范围
Utilizes single-frame knee point HDR to achieve high dynamic range under global shutter pixel architecture
- Sensor+ISP二合一, 优化提升影像品质
Sensors with built-in ISP deliver enhanced image quality

应用场景 | Applications

- 工业读码器、AGV导航系统、3D扫描仪等工业机器视觉应用
Barcode readers, AGV navigation systems, 3D scanners, and other Industrial machine vision applications
- 无人机、商用机器人等新兴机器视觉应用
Drones, robots, and other machine vision applications in the emerging sector
- 智能物流应用
Smart logistics applications



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