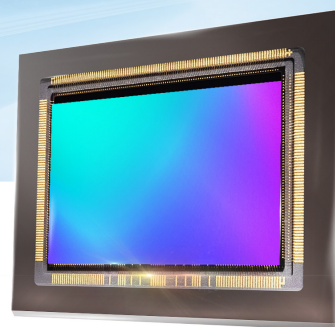# CMOS图像传感器
CMOS IMAGE SENSOR

SC538HGS 产品单页
SC538HGS Product Flyer

■ 搭载思特威SmartGS™-2 Plus技术的图像传感器新品
SmartSens new CMOS image sensor with SmartGS™-2 Plus technology

■ 具备高感度、高信噪比、低功耗等性能优势
Provides superior performance in high sensitivity,
high signal-to-noise ratio, and low power consumption

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.

SC538HGS Product Flyer

SmartGS™ -2 Plus

SMARTSENS

规格说明 | Specifications

项目	Item	参数	Parameters
Resolution	5MP
Pixel Array	2464H x 2064V
Pixel Size	3.45μm x 3.45μm
Optical Format	2/3"
Max Frame Rate	2448H x 2048V @80fps
Output Interface	MIPI : 12/10/8-bit, 1/2/4-lane
	LVDS : 12/10/8-bit, 1/2/4-lane
Output Format	RAW
CRA	0º
Sensitivity	Mono: 12195mV/Lux·s
	RGB: 9923mV/Lux·s
Dynamic Range	62.64dB
SNR	42.2dB
Operation Temperature Range	-30ºC to +85ºC
Best IQ Temperature	-20ºC to +60ºC
Power Supply	Analog = 2.8±0.1 V
	DVDD = 1.5±0.06 V
	I/O = 1.8±0.1 V
Package	CLGA
Package Size	16mm x 15mm

产品特性 | Features

- 搭载思特威先进SmartGS®-2 Plus技术，高质量成像效果
  SmartSens' SmartGS®-2 Plus for high-quality image capture

- 搭载Lightbox IR®技术，超高近红外感度
  Equipped with Lightbox IR® technology, featuring ultra-high near-infrared sensitivity

- 支持MIPI D-PHY/LVDS/DVP多样化接口
  Supports MIPI D-PHY/LVDS/DVP interfaces

- 超高快门效率
  Ultra-high shutter speed

- 低功耗
  Low power consumption

应用场景 | Applications

- 机器视觉
  Machine Vision

- 安防监控系统
  Security Systems

- 工业相机
  Industrial Camera

- 条码扫描
  Barcode Scanning

- 新能源检测
  New Energy Equipment Inspection

- 高速摄影系统
  High-speed Camera System