CMOS 图像传感器
CMOS IMAGE SENSOR

![SMARTSENS]

SC136HGS 产品单页
SC136HGS Product Flyer

- 搭载思特威SmartGS™-2 Plus和 Lightbox IR®技术的 GS 系列图像传感器
  SmartSens GS Series CMOS image sensor with SmartGS™-2 Plus and Lightbox IR® technologies

- 具备大靶面尺寸、高感度、高动态范围、快门效率优化等性能优势
  Features large optical format, high sensitivity, high dynamic range, and optimized shutter efficiency

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.

SC136HGS Product Flyer

SmartGS™-2 Plus

规格说明 | Specifications

项目	Item	参数	Parameters
Resolution	1.3MP
Pixel Array	1296H x 1040V
Pixel Size	4.0µm x 4.0µm
Optical Format	1/2.7"
Max Frame Rate	1280H x 1024V @240fps
	1280H x 1024V @120fps @ColGain HDR
	1280H x 1024V @60fps @DVP
Output Interface	14/12/10/8 bit 1/2/4 Lane MIPI
	12/10/8 bit 1/2/4 Lane LVDS
	10 bit DVP Parallel
Output Format	RAW, 10 bit by default, Mono/RGB
CRA	0°
Sensitivity	Mono: 15893mV/Lux·s
	Color: TBDmV/Lux·s
Dynamic Range	Linear Mode: 62.64dB
	ColGain HDR Mode: 65.15dB
	Knee Point HDR Mode: 92.64dB
SNR	43.94dB
Operation Temperature Range	-30°C to +85°C
Best IQ Temperature	-20°C to +60°C
Power Supply	Analog = 2.8±0.1V
	Digital = 1.2±0.06V
	I/O = 1.8±0.1 V（MIPI）/ 2.8±0.1V（DVP）
Package	CSP/CLCC
Package Size	CSP: 6.35mm × 6.01mm
	CLCC: 13.00mm × 12.50mm

产品特性 | Features

- 大靶面尺寸全局快门图像传感器
  Large optical format and global shutter CMOS image sensor

- 搭载思特威Lightbox IR®技术，实现近红外感度的显著提升
  SmartSens' Lightbox IR® technology facilitates the enhancement of Near-Infrared (NIR) sensitivity

- 高动态范围
  High dynamic range

- 快门效率优化
  Optimized shutter efficiency

应用场景 | Applications

- 自动导引车 (AGV)
  Automated Guided Vehicle (AGV)

- 工业相机
  Industrial Machine Vision Cameras