



SMARTSENS

# CMOS图像传感器

## CMOS IMAGE SENSOR

### SC135HGS 产品单页

#### SC135HGS 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 sensor with SmartGS®-2 Plus technology

- 集高影像性能、高速、高动态范围三大性能优势于一身

Achieves high imaging performance, high speed, and high dynamic range

## 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
<b>Resolution</b>	1.3 MP
<b>Pixel Array</b>	1296 (H) × 1040 (V)
<b>Pixel Size</b>	3.45μm x 3.45μm
<b>Optical Format</b>	1/3.2"
<b>Max Frame Rate</b>	1280 × 1024 @ 160 fps DVDD 1.5 V/1.2 V
	1280 × 1024 @ 120 fps DVDD 1.2 V
	12/10/8-bit 1/2/4 lane MIPI 12/10/8-bit 1/2/4 lane LVDS 10-bit DVP parallel
<b>Output Interface</b>	
<b>Output Format</b>	RAW, 10 bits by default
<b>CRA</b>	0°
<b>Sensitivity</b>	13490 mV/lux·s
<b>Dynamic Range</b>	Linear Mode: 61.5dB
	HDR Mode: >90dB
<b>SNR</b>	37.5 dB
<b>Operation Temperature</b>	-30°C ~ +85°C
<b>Best IQ Temperature</b>	-20°C ~ +60°C
<b>Power Supply</b>	AVDD= 3.3V ± 0.1V
	DVDD= 1.8V ± 0.1V
	DOVDD = 1.8V ± 0.1V
<b>Package Size</b>	6.48 mm × 5.18 mm
	48-pin, CSP; CLGA

## 产品特性 | Features

- 高帧率面阵CMOS图像传感器  
High frame rate CMOS image sensor
- 先进SmartGS<sup>®</sup>-2 Plus技术加持  
广泛适用于工业检测场景  
Incorporating advanced technologies including SmartGS<sup>®</sup>-2 Plus, the sensor is ideal for industrial inspection
- HDR功能提升工业检测精度  
The HDR function leads to higher precision of industrial inspection

## 应用场景 | Applications

- 工业相机  
Industrial Machine Vision Cameras



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