



SMARTSENS

CMOS 图像传感器

CMOS IMAGE SENSOR

SC020HGS 产品单页

SC020HGS Product Flyer

- 搭载思特威SmartGS™ -2 Plus和 Lightbox IR®技术系列图像传感器新品
SmartSens new GS Series image sensor with SmartGS™ -2 Plus and Lightbox IR® technologies
- 具备超高帧率、高感度和超低功耗三大性能优势
Provides superior performance in high frame rate, high sensitivity, 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.

规格说明 | Specifications

项目 Item	参数 Parameters
Resolution	0.16MP
Pixel Array	416H x 416V
Pixel Size	2.2µm x 2.2µm
Optical Format	1/14"
Max Frame Rate	400H x 400V @240fps
Output Interface	10/8 bit MIPI
Output Format	RAW
CRA	30.8°
Sensitivity	4467mV/Lux·s
Dynamic Range	58.72dB
SNR	37.16dB
Operation Temperature Range	-30°C to +85°C
Best IQ Temperature	-20°C to +60°C
Power Supply	Analog = 2.8±0.1 V
	Digital = 1.2±0.06 V
	I/O = 1.8±0.1 V
Package	CSP
Package Size	1.780mm x 1.780mm

产品特性 | Features

- 搭载思特威先进SmartGS®-2 Plus技术，超高帧率无畸变清晰成像**
 SmartSens' SmartGS®-2 Plus enables ultra-high frame rate, distortion-free, and clear imaging
- 思特威Lightbox IR®技术加持，近红外感度显著提升**
 SmartSens' Lightbox IR® provides significant improvement in the sensor's Near-Infrared (NIR) sensitivity
- 超小芯片尺寸**
 Ultra-small chip size
- 超低功耗**
 Low power consumption

应用场景 | Applications

- AR/VR眼动方案**
 AR/VR Eye Tracking Solution
- 医疗内窥镜**
 Medical Endoscopes
- 扫地机**
 Robot Vacuums
- 翻译笔**
 Translation Pens



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