CMOS图像传感器
CMOS IMAGE SENSOR

SC301HIOT 产品单页
SC301HIOT Product Flyer

- 基于思特威DSI™-2 Plus工艺技术打造，搭载SmartAOV™等技术的HIOT系列图像传感器新品
  SmartSens' new HIOT Series CMOS image sensor with DSI™-2 Plus and SmartAOV™ technologies

- 具备4:3画幅比、近红外感度增强、高动态范围(HDR)、超低功耗等性能优势
  Provides superior performance with Near-Infrared (NIR) enhancement, HDR, and low power consumption in 4:3 aspect ratio

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	3MP
Pixel Array	2052H x 1540V
Pixel Size	2.5µm x 2.5µm
Optical Format	1/2.8"
Max Frame Rate	2048H x 1536V @60fps
Output Interface	10/8 bit 1/2 Lane MIPI
Output Format	RAW RGB
CRA	15°
Sensitivity	5371mV/Lux·s
Dynamic Range	Linear Mode: 82.09dB
	WDR Mode: >100dB
SNR	39.24dB
Operation Temperature	-30ºC to +85ºC
Best IQ Temperature	-20ºC to +60ºC
Power Supply	Analog = 2.8V±0.1V
	I/O = 1.8±0.1 V
Package	41 pin CSP
Package Size	5.840mm x 4.845mm

产品特性 | Features

- **4:3画幅比例，为摄像头提供超大视场角**
  4:3 aspect ratio provides a larger field of view for cameras

- **近红外感度显著提升**
  Near-Infrared (NIR) enhancement

- **高动态范围**
  High dynamic range

- **超低功耗**
  Low power consumption

应用场景 | Applications

- **全景鱼眼摄像头**
  Panoramic Fisheye Cameras

- **双目拼接摄像头**
  Binocular Splicing Cameras