CMOS图像传感器
CMOS IMAGE SENSOR

SMARTSENS

SC438HAI 产品单页

SC438HAI Product Flyer

■ 搭载思特威SmartClarity®-3和Lightbox IR®技术的图像传感器新品
SmartSens new AI Series image sensor with SmartClarity®-3 and Lightbox IR® technologies

■ 具备优异的近红外感度增强、高温成像和低功耗三大性能优势
Provides superior performance in low light imaging, imaging at high temperatures, 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.

SC480HAI Product Flyer

SmartClarity®-3 Series

SMARTSENS

规格说明 | Specifications

项目	Item	参数	Parameters
Resolution	4MP
Pixel Array	2696H x 1528V
Pixel Size	2.0 µm x 2.0 µm
Optical Format	1/2.9"
Max Frame Rate	2688H x 1520V @60fps
Output Interface	10/8 bit 1/2/4 lane MIPI
Output Format	RAW RGB
CRA	13.96º
Sensitivity	4150mV/Lux·s
Dynamic Range	HDR Mode > 100dB
	Linear Mode 82dB
SNR	39.03dB
Operation Temperature Range	−30ºC to +85ºC
Best IQ Temperature	−20ºC to +60ºC
Power Supply	Analog = 2.8±0.1 V
	Digital = 1.5±0.06 V
	I/O = 1.8±0.1 V
Package	41 pin CSP
Package Size	6.086mm x 4.760mm

产品特性 | Features

- 采用思特威新一代SmartClarity®-3技术，带来性能全面升级
  SmartSens' latest SmartClarity®-3 enables performance upgrades

- 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

- 优异高温成像性能
  Imaging at high temperatures

- 超低功耗
  Low power consumption

应用场景 | Applications

- 家用IoT摄像头
  Home IoT Cameras

- 工业监控摄像头
  Industrial Security Cameras

- 微光摄像头
  Low Light Cameras