CMOS图像传感器
CMOS IMAGE SENSOR

SMARTSENS

SC231AI 产品单页
SC231AI Product Flyer

■ 搭载思特威全性能升级技术SmartClarity®-3的
图像传感器新品

SmartSens new AI Series image sensor with
SmartClarity®-3 technology

■ 集更优异的夜视全彩成像、高温成像、低功耗性能优势于一身

Delivers enhanced performance in full-color night vision,
low power consumption, and imaging at high temperatures

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 headquar-
tered 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 estab-
lished. SmartSens' CMOS image sensors provide
advanced imaging solutions for a broad range of
areas such as surveillance, machine vision, auto-
motive and cellphone cameras.

SmartSens is committed to continuous innovation
of products and fueling growth in numerous indus-
tries by delivering a more comprehensive portfolio
of image sensors.

SC231AI Product Flyer

SmartClarity®-3 Series

SMARTSENS

规格说明 | Specifications

项目	Item	参数	Parameters
Resolution	2MP
Pixel Array	1928H x 1088V
Pixel Size	2.8μm x 2.8μm
Optical Format	1/2.9"
Max Frame Rate	1920H x 1080V @60fps
Output Interface	10/8 bit 1/2 lane MIPI
	10 bit DVP
Output Format	RAW RGB
CRA	15°
Sensitivity	7,387mV/Lux·s
Dynamic Range	HDR Mode > 100dB
	Linear Mode 86dB
SNR	41dB
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 = 1.5V/1.2±0.06 V
	I/O = 1.8±0.1 V
Package	35 pin CSP
Package Size	5.99mm x 3.65mm

产品特性 | Features

- **思特威新一代SmartClarity®-3技术加持，带来性能全面升级**
  SmartSens' latest SmartClarity®-3 enable performance upgrades

- **夜视全彩成像效果提升**
  Enhanced full-color night vision

- **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