# CMOS图像传感器
## CMOS IMAGE SENSOR

**SMARTSENS**

## SC1200IOT 产品单页
### SC1200IOT Product Flyer

■ 搭载SmartClarity®-3和 SFCPixel®专利技术的
1200万像素AI眼镜应用图像传感器
SmartSens 12MP CMOS image sensor with SmartClarity®-3
and SFCPixel® technologies for AI glasses applications

■ 具备小芯片尺寸、低功耗、高感度、低噪声等性能优势
Provides excellent performance in small chip size,
low power consumption, high sensitivity, and low noise

## 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 | 12MP |
| Pixel Array | 4016H x 3016V |
| Pixel Size | 1.008μm x 1.008μm |
| Optical Format | 1/3.57" |
| Max Frame Rate | 4000H x 3000V @30fps 10bit |
| Output Interface | 10/8 bit  1/2/4 Lane MIPI |
| Output Format | RAW RGB |
| CRA | 35.29º |
| Sensitivity | 1013mV/Lux·s |
| Dynamic Range | 76dB |
| SNR | 37.2dB |
| Operation Temperature Range | -20ºC to +85ºC |
| Best IQ Temperature | 0ºC to +60ºC |
| Power Supply | Analog = 2.8±0.1V |
| | Digital = 1.2±0.06V |
| | I/O = 1.8±0.1V |
| Package | 43 pin COB/RW |
| Package Size | COB: 5.107mm × 3.771mm |
| | RW: 5.187mm × 3.851mm |

## 产品特性 | Features

- 小芯片尺寸轻量化设计
  Small chip size and lightweight design

- 超低功耗，助力续航提升
  Low power consumption facilitates to improve battery life

- 高感度
  High sensitivity

- 低噪声
  Low noise

## 应用场景 | Applications

- AI眼镜等可穿戴设备
  Wearables as AI Glasses

- 手机摄像头
  Phone Cameras

- 智能家用摄像头
  Smart Home Cameras