



SMARTSENS

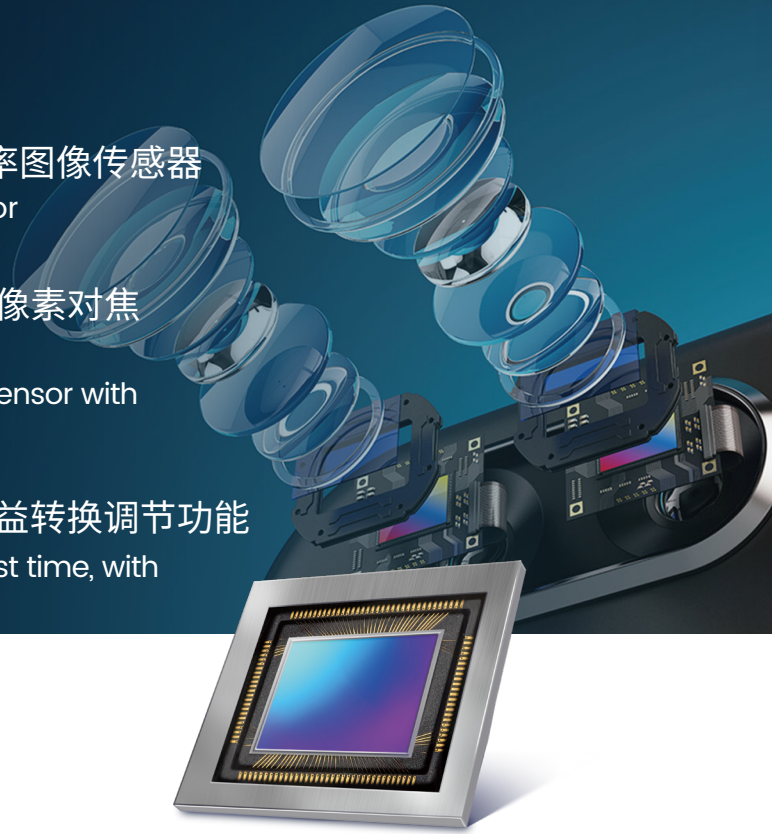
CMOS图像传感器

CMOS IMAGE SENSOR

SC520XS 产品单页

SC520XS Product Flyer

- 思特威首颗0.7 μ m像素尺寸52MP超高分辨率图像传感器
SmartSens' first 0.7 μ m 52MP CMOS image sensor
- 业界5000万级像素赛道上首颗搭载100%全像素对焦AllPix ADAF[®]技术的0.7 μ m芯片
SmartSens' first 0.7 μ m 50MP-Level CMOS image sensor with AllPix ADAF[®] technology
- SFCPixel-SL[™]技术首发, 搭载pixel内置双增益转换调节功能
SFCPixel-SL[™] technology employed for the very first time, with conversion gains enabled



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	52 MP
Pixel Array	8784H x 6064V
Pixel Size	0.7 μ m x 0.7 μ m
Optical Format	1/2.42"
Max Frame Rate	8768H x 6048V @15fps
Output Interface	MIPI C-PHY 1trio/2trio/3trio, Max. 1.5Gsps/trio MIPI D-PHY 2lane/4lane, Max. 2.0Gbps/lane
Output Format	RAW RGB
CRA	Tele: 17.9° Wide: 35.3°
Sensitivity	2364mV/Lux·s (QCell Bin Mode)
Dynamic Range	73dB (Full Size Mode) 86dB (QCell Bin Mode)
SNR	36dB (Full Size Mode) 42dB (QCell Bin Mode)
Operation Temperature Range	-30°C to +85°C
Best IQ Temperature	0°C to +60°C
Power Supply	Analog = 2.8V Digital = 1.2V I/O = 1.8V
Package	COB/RW
Package Size	COB: 6.903mm x 5.247mm RW: 6.983mm x 5.327mm

产品特性 | Features

- 52MP 0.7微米图像传感器**
0.7 μ m 52MP CMOS image sensor
- 搭载自研SFCPixel-SL™技术,支持pixel内置双增益转换调节功能**
Employs SFCPixel-SL™ technology that enables conversion gains
- 升级超低功耗设计,支持ALS模式与ULP模式**
Ultra-low power consumption that supports both ALS mode and ULP mode
- 52MP 0.7 μ m芯片上首次采用AllPix ADAF[®]技术**
0.7 μ m 52MP CMOS image sensor to adopt AllPix ADAF[®] technology for the first time

应用场景 | Applications

- 智能手机主摄/前摄**
Smartphone Main/Front Cameras
- 智能手机超广角/长焦摄像头**
Smartphone Ultra-Wide Angle/Telephoto Cameras
- PC多媒体设备**
PC Devices
- 可移动设备相机**
Mobile Device Cameras



WeChat



LinkedIn

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