



SMARTSENS

CMOS图像传感器

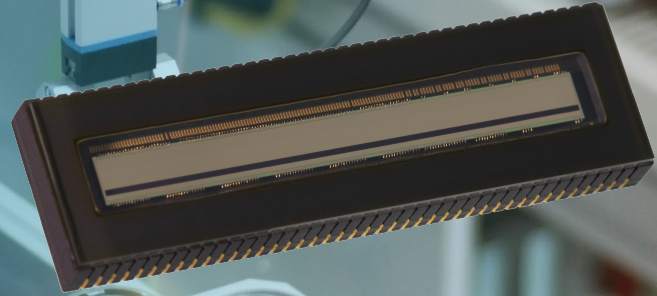
CMOS IMAGE SENSOR

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SC430LA 产品单页

SC430LA Product Flyer

- 思特威首颗LA线阵系列4K分辨率高速工业CMOS图像传感器
SmartSens' first 4K resolution linear CMOS image sensor
- 提供出色的Trilinear彩色模式
Supports trilinear color mode
- 支持32x模拟增益
Achieves 32x analog gain



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	4K
Pixel Array	4096H x 3V
Pixel Size	7.0 μ m x 7.0 μ m
Optical Format	4K Linear
Operating Mode	200kHz@1 line 10 bit
	133kHz@2 line 10 bit
	100kHz@3 line 10 bit
Maximum Image Transfer Rate	2X 1C8D of LVDS data output 1200MHz/lane VCM=0.9V VOD=150mV
Output Interface	8/10/12 bit LVDS
Output Format	RAW MONO/RAW RGB
Angular Response	92%
QE	77%@500nm
Dynamic Range	Mono: 98 dB
SNR	Mono: 49 dB
Operation Temperature	-30°C ~ +85°C
Best IQ Temperature	-20°C ~ +60°C
Power Supply	AVDD= 3.3V \pm 0.1V,
	DVDD= 1.8V \pm 0.1V,
	DOVDD = 1.8V \pm 0.1V
Package	CLCC 84-Pin
Package Size	35.1mm*10.32mm

产品特性 | Features

- 4K分辨率高速线阵工业CMOS图像传感器**
 4K resolution linear CMOS image sensor
- 基于BSI工艺的SmartGS[®]-2全局快门技术, 在工业低照环境下提供更多真实有效的影像信息**
 Employing SmartGS[®]-2 technology, this BSI image sensor enables precise vision outputs under low-illumination conditions
- 支持32x模拟增益, 运行期间拥有卓越的稳定性**
 Achieves 32x analog gain, ensuring its high stability in operation
- 提供先进Trilinear彩色模式, 缔造非凡成像品质**
 Supports trilinear color mode, providing high-quality image outputs

应用场景 | Applications

- 工业线阵相机**
 Industrial Line Scan Cameras



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