SC835LA 产品单页
SC835LA Product Flyer

- 思特威8K高分辨率高速工业线阵相机应用CMOS图像传感器
  SmartSens 8K high-resolution high-speed linear CMOS image sensor for industrial line scan cameras

- 具备高感度、高行频、低能耗、低噪声四大性能优势
  Features high sensitivity, high line rate, low power consumption, and low noise

- 支持黑白与彩色双版本
  Provides both monochrome and color output modes

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.

SmartClarity®-3

规格说明 | Specifications

项目 | Item	参数 | Parameters
Resolution	8K
Pixel Array	8192H x 4V
Pixel Size	7.0 μm
Optical Format	8K Linear
Operating Mode	150 kHz @ 1-line @ 2x1C8D, 0.97 Gbps/lane
	80 kHz @ 2-line @ 2x1C8D, 0.97 Gbps/lane
	50 kHz @ 3-line @ 3x1C8D, 0.97 Gbps/lane
	40 kHz @ 4-line @ 3x1C8D, 0.97 Gbps/lane
Maximum Image	3×1C8D of Sub-LVDS data output
Transfer Rate	1200 MHz/lane, VCM = 0.9 V, VOD = 150 mV (Typ.)
Output Interface	8/10/12-bit Sub-LVDS
Sensity	33553 mV/lux*s
Output Format	Raw RGB/Mono
Operation Temperature Range	-30ºC ~ +85ºC
Best IQ Temperature	-20ºC ~ +60ºC
Power Supply	Analog = 3.0 V±0.1 V
	Digital = 1.4 V±0.06 V
	I/O = 1.8 V±0.1 V
Package	168-Pin PCBA
Package Size	71.8 mm x 32.0 mm

产品特性 | Features

- 8K超高分辨率
  8K high resolution

- 150KHz高行频
  High line rate of 150KHz

- 高感光度
  High sensitivity

- 配备32x模拟增益，降低运行功耗
  Low power consumption with 32x analog gain

- 搭载PixGain™技术，动态范围优化
  PixGain™ technology enables dynamic range optimization

应用场景 | Applications

- 工业线阵相机
  Industrial Line Scan Cameras

- 物流条形码扫描
  Logistics Bar Code Scanner

- 轨道检测
  Rail Inspection

- 印刷检测
  Print Inspection

- 工业检测
  Industrial Inspection