

2700×3像素RGB彩色三线扫描工业数字相机

2700×3 Pixels Industrial Tri-Linear RGB CCD Cameras

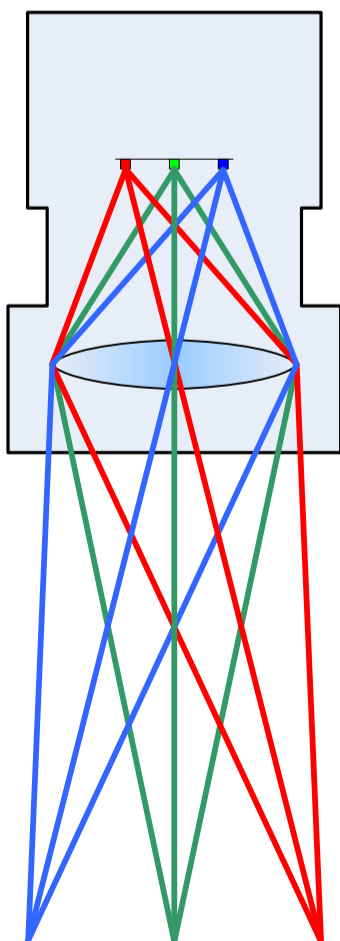
产品简介 (Description)

LD2308A-2700彩色三线阵线扫描CCD工业数字相机是专为彩色工业线扫描机器视觉应用设计开发的工业视觉产品，可与我公司生产的LVPCI系列高速数据采集卡完全兼容。

LD2308A-2700相机内部集成了高性能的AFE模块及高精度的AD采样器，输出8bit视频数据，可还原为24Bit彩色线扫描图像。用户可通过标准的RS-232接口及简单易用的Windows配置软件进行相机工作模式、积分时间调整、增益和偏置调整；外同步输入则可进行多相机并行工作设置，适用于彩色表面检测、彩色图像扫描等工业现场应用。

LD2308A-2700 RGB Tri-Linear line scan cameras offers superb image sensing quality, versatility and easy implementation. This product, has a compact mechanical design incorporates RGB color linear sensors with 2700 valid pixels, fully compatible with our LVPCI series PCI data capture cards. The programmable settings via RS-232 let the user work at different integration time, gains and offsets. The external trigger enable synchronization of several cameras.

The performance and reliability of this product make it well-suited for color industrial applications, from web inspection to document scanning, from surface inspection to color recognition.



产品特性 (Features)

- 高灵敏度及低噪声线扫描CCD传感器 (High Sensitivity and High Performance Tri-Linear CCD sensors);
- 2700像素 (2700 Pixels Resolution);
- 8μm×8μm像素尺寸 (8μm×8μm Pixel Size with 8μm Pitch);
- RGB三线阵 (RGB Tri-Linear Sensor with 64μm Pitch);
- EIA-644 LVDS接口 (EIA-644 LVDS Data Format);
- 12M像素/s输出频率 (Data Rate 12MPixels/s);
- 集成CDS功能的8bit采样精度 (8bit Data Output with CDS Sampling);
- 串行相机配置功能 (Flexible Serial Camera Configuration);
- 积分时间设置 (Exposure/Integration Time Control);
- 增益及偏置控制 (Gain and Offset Control);
- 同步模式控制 (Sync Mode Control);
- 测试图像输出 (Test Image Output);
- 多相机同步 (Multi Camera Synchronization);
- 小型化设计 (Compact Design);
- 多种镜头接口 (Variable Lens Mount Available: F Type, K Type, M42×1);

典型应用 (Applications)

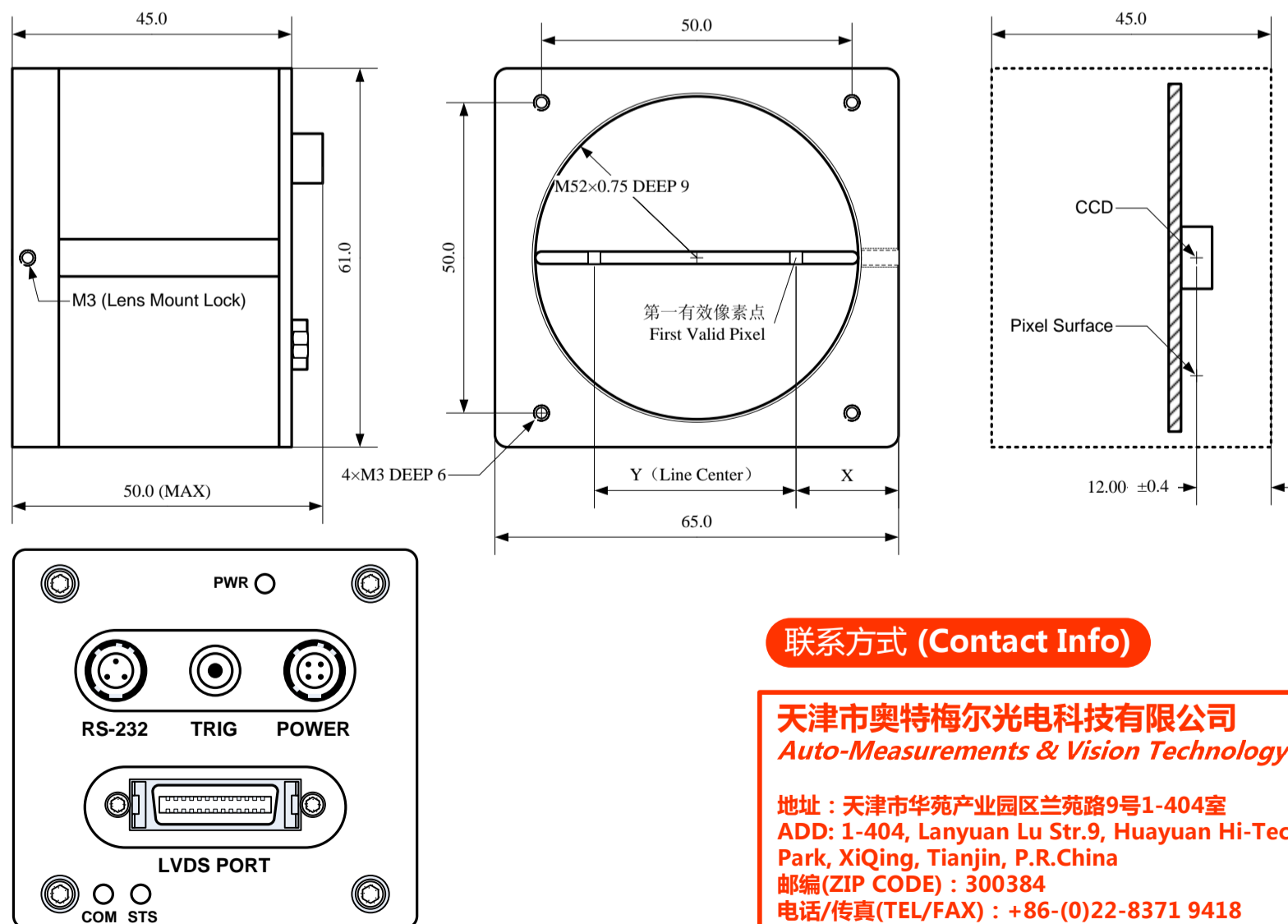
- 彩色工业表面在线检测 (Color Surface Inspection);
- 彩色图像扫描 (Document Scanning and Imaging);
- 科研及教学 (College & Study);

Specifications	LD2308A-2700
有效像素 (Valid Pixels)	2700×3 Valid Pixels, Tri-Linear CCD with RGB Filters
行扫描频率 (Line Rate)	1.4KHz
像素尺寸 (Pixel Size)	8μm×8μm with 8μm Pitch and 64μm Line Pitch (8 Lines)
光谱相应特性 (Spectral Range)	300nm ~ 800nm
灵敏度 (Response)	TYP. 7.0V/Lux·s (Red), 9.1V/Lux·s (Green), 3.2V/Lux·s (Blue)
像素不均匀性 (PRNU)	±10% Typical (±20% MAX)
残像率 (Image Lag)	5% MAX
动态范围 (Dynamic Range)	TYP. 1600
AFE增益范围 (AFE Gain Adjust)	0dB ~ 13dB 5bit analog (4.44V/V MAX)
偏置调整范围 (Offset Adjust)	-150mV ~ +50mV 8bit analog
数据输出 (Video Output)	12MPixels/s 8Bit AD Video Data Output
输出接口 (Output Format)	RS-644 LVDS 8bit
同步模式 (Sync Mode)	Internal free-run / External Trig/Sync via LVDS Input
配置端口 (Configuration Type)	RS-232 Serial
输入电源 (Power Supply)	+12VDC, 0.5A, ±5% / +5VDC, 0.6A, ±5% (Dedicate Power Supply Available)
镜头接口 (Lens Mount)	F-Mount / K-Mount / M42×1 Screw Mount
尺寸重量 (Dimensions/Weight)	65mm(W)×61mm(H)×45mm(L) / 400g

Specifications are Subject to Change Without Prior Notice.

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外形及尺寸 Dimensions (Unit: mm)



联系方式 (Contact Info)

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