

# RasaAndishan Moj Pardaz

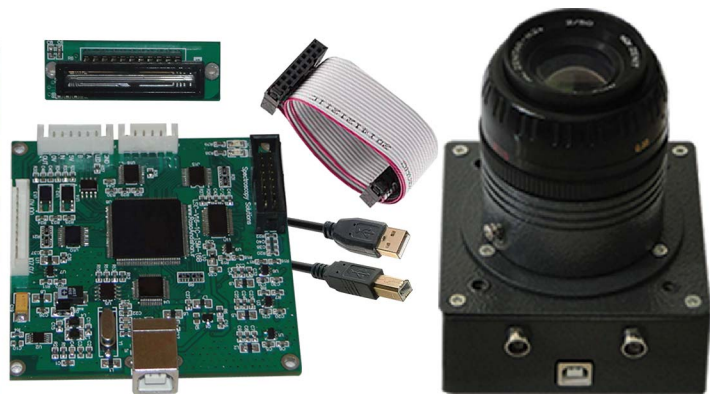
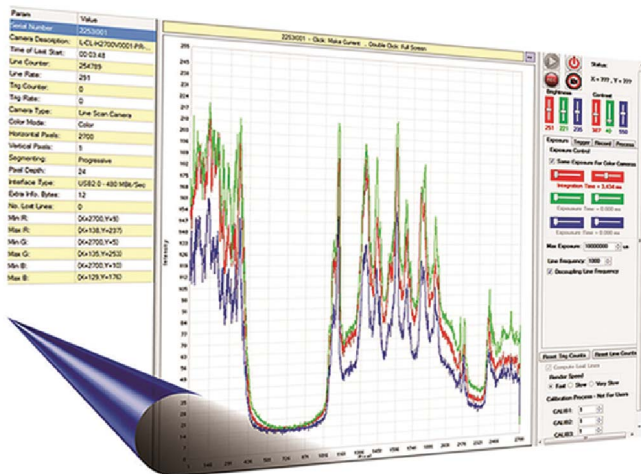
## رسا اندیشان موج پرداز (دانش بنیان)



طراح و سازنده انواع آشکارسازهای خطی و دوربین های تصویربرداری

- Robust & Reliable Hardware & Software Architecture
- Multi Interface Connectivity (USB2.0,USB3.0,Ethernet)
- Cross Platform - Linux & windows Application Support
- Plugin Based API and Sophisticated FlowGraph Structure
- VariousSDK(C#,C++,MATLAB,VB.Net,Python,LabVIEW)Included





S - A - K Suffix Cameras are Board Level !  
I - P Suffix Cameras are Boxed !

RA-LSC-1304



## Overview

RA-LSC-1304 is a USB2.0 Bus Powered Line Scan Camera that incorporates a 3648 Pixels CCD array with Pixel Size of 8  $\mu$ m by 200  $\mu$ m on 8  $\mu$ m center.

It is capable of detecting light in the 350 - 1100 nm range.

The Line rate of This cost effective monochrome line scan camera is up to 270 Hz.

This camera Supports External Triggering at rate of up to 135 Hz.

## GUI Features

Operates up to 10 Cameras Simultaneously without loss of any data

Cross Platform Software with Auto-Detection of Compatible Cameras

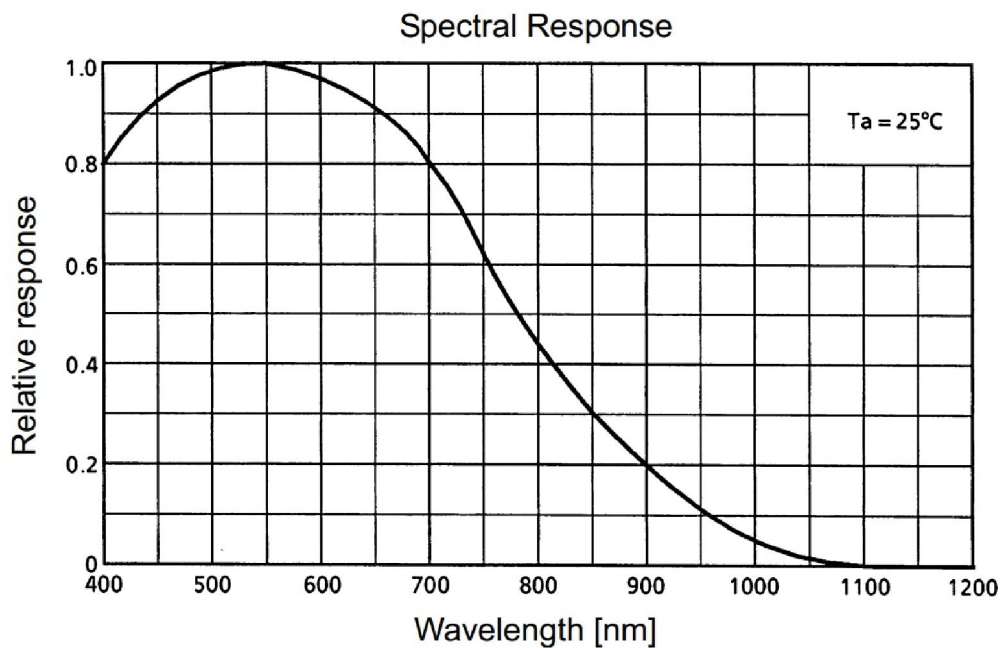
Smoothing, FPN Correction, PRNU Correction, Shading Correction, Background Subtract

Best Responsiveness by Separate Threads of Data Acquisition, Processing and Monitoring

Zooming, Panning, Cursor Definition and OverLayer Mode in Line Scope

## Application

RA-LSC-1304 is Designed for Applications in Optics, Imaging, Biology, Industrial Process Control and General Laboratory Use.

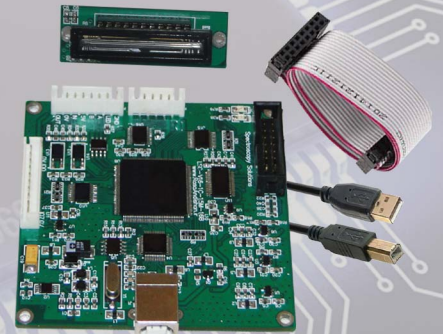


## Specification

Sensor Spec	
Sensor Type	Monochrome CCD Linear Image Sensor
Spectral Response	350-1100 nm
CCD Pixel Size	14 $\mu\text{m}$ x 200 $\mu\text{m}$
Pixel Height	200 $\mu\text{m}$
Pixel Width	14 $\mu\text{m}$
Effective Pixels	2048
Effective Length	2048 x 14 $\mu\text{m}$ = 28.672 mm
Max Pixel Frequency	2 MHz
Max Line Rate	950 Hz @ Free Running Mode
Min Exposure Time	3 $\mu\text{s}$
Max Exposure Time	71 Min
Exposure Resolution	1 $\mu\text{s}$
Pixel Color Depth	16 bit - 65536 Counts
Brightness Coefficient	-/+ 300 mV - 512 Analog Steps
Contrast Coefficient	64V/V - 64 Analog Steps
Triggering Spec	
Trigger Signal	TTL 5 V and 3.3 V
Trigger Mode	Free Running, Software Trigger, Hardware Trigger
Hardware Trig Polarity	Rising Edge, Falling Edge, Both Edges, High Level, Low Level
Trigger Factor	0 To 65535
Exposure Mode in Trig	Up to 4 Different Modes
Max Trigger Rate	475 Hz
Min Trigger Pulse Length	33 ns
Trigger Delay	0 to 16 Min - in 1 $\mu\text{s}$ Steps
General Spec	
Interface	High Speed USB 2.0 (480 Mbit/s)
Weight   PCB Dimension	42 gr   80 mm x 87 mm x 25 mm
Temperature Range	- 25 to + 65 ( $^{\circ}\text{C}$ )



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حکیمیه، میدان فجر، خیابان خرم، خیابان سحر، کوچه پگاه ۶، پلاک ۱۱، واحد ۷

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