

# 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



RA-LSC-2566



## Overview

RA-LSC-2566 is a USB3.0 Color Line Scan Camera that incorporates a 5340 Pixels CCD array with Pixel Size of  $5.25 \mu\text{m}$  by  $6.825 \mu\text{m}$  on  $5.25 \mu\text{m}$  center. It is capable of detecting light in the 350 - 1100 nm range.

The Line rate of This cost effective color line scan camera is up to 6000 Hz.

This Camera Support All Electrical EF Canon Lens with Electrical Focus and Diafragma Control.

## 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

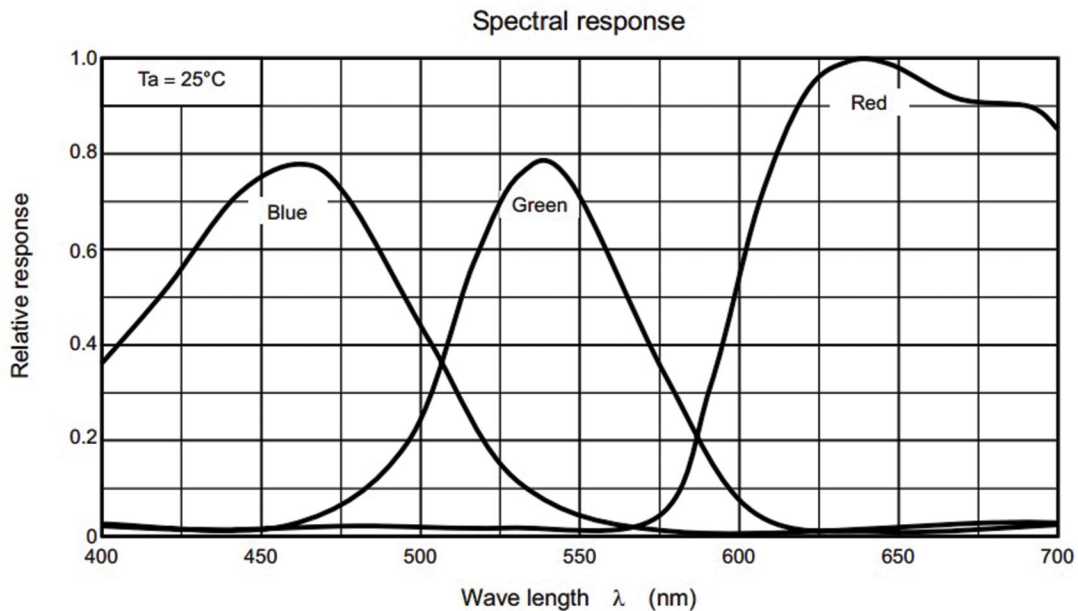
Best Responsiveness by Separate Threads of Data Acquisition, Processing and Monitoring

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

## Application

RA-LSC-2566 is Designed for Applications in Optics, Imaging, Biology, Industrial Process Control and General Laboratory Use.

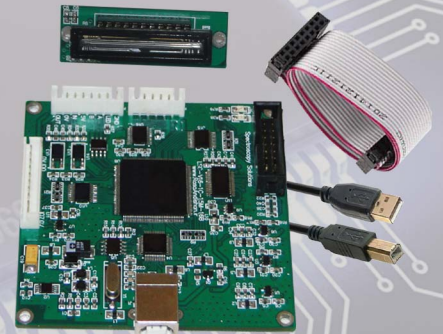




## Specification

Sensor Spec	
Sensor Type	Color CCD Linear Image Sensor
Spectral Response	350-1100 nm
CCD Pixel Size	5.25 $\mu\text{m}$ x 6.825 $\mu\text{m}$
Pixel Height	5.25 $\mu\text{m}$
Pixel Width	6.825 $\mu\text{m}$
Effective Pixels	5340 X 3
Effective Length	28.035 mm
Max Pixel Frequency	35 MHz
Max Line Rate	6000 Hz @ Free Running Mode
Min Exposure Time	166 $\mu\text{s}$
Max Exposure Time	14 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	3000 Hz
Supported Lens	All Electrical EF/EFS Canon Lens
Trigger Delay	0 to 16 Min - in 1 $\mu\text{s}$ Steps
General Spec	
Interface	Super Speed USB 3.0 (780 Mbit/s)
Weight   PCB Dimension	160 gr   63 mm x 63 mm x 53 mm
Temperature Range	- 10 to + 55 ( $^\circ\text{C}$ )

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

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