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(دانش بنیان)

رسا اندیشان موج پرداز



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-ASC-9031



Trigger



VB.net



Overview

RA-ASC-9031 is a USB3.0 Bus Powered Area Scan Camera that incorporates a 2592 x 1944 Pixels CMOS array with Pixel Size of 2.2 μm by 2.2 μm .

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

The Frame rate of This cost effective Color Area scan camera is up to 20 Hz.

This camera Supports External Triggering at rate of up to 20 Hz.

GUI Features

Operates up to 10 Cameras Simultaneously without loss of any data

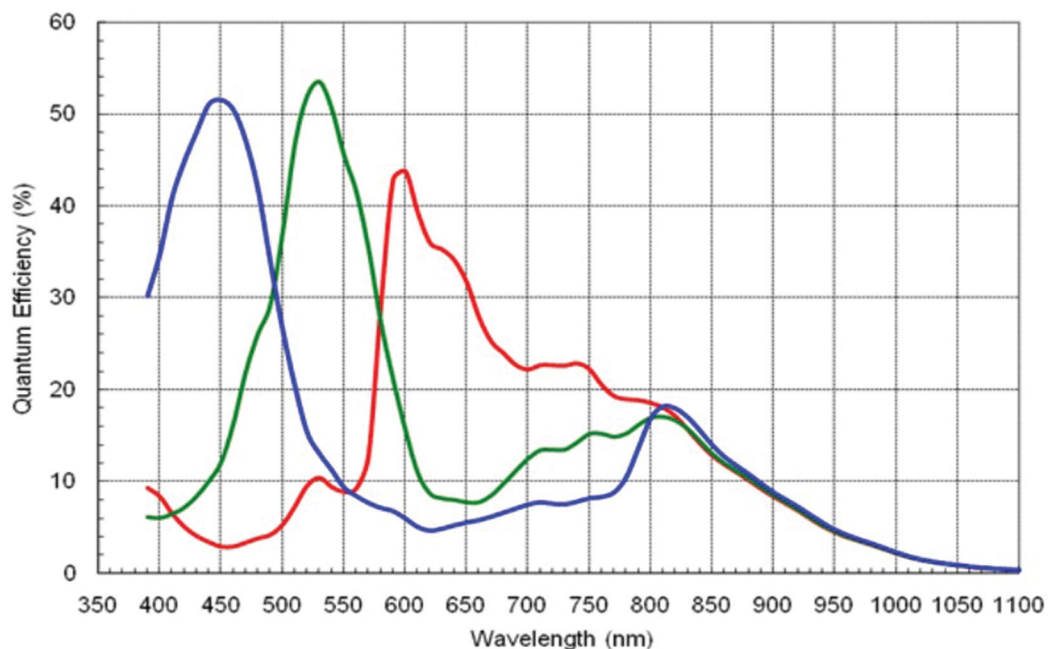
Cross Platform Software with Auto-Detection of Compatible Cameras

Recording @ Predefined Counts, Time, Cache Size and Capture Size

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

Application

RA-ASC-9031 is Designed for Applications in Optics, Imaging, Biology, Industrial Process Control and General Laboratory Use.



Specification

Sensor Spec	
Sensor Type	Color CMOS Area Image Sensor
Light Spectrum	Visible
Pixel Size	2.2 um x 2.2 um
Pixel Height	2.2 um
Pixel Width	2.2 um
Effective Pixels	2592 x 1944
Image Resolution	5 MP
Image Size (HxV)	4.6 x 3.7 (mm)
Max Pixel Frequency	95 MHz
Max Frame Rate	up to 20 Hz @ 5MP
Shutter Type	Rolling Shutter
Exposure Control	✓
AOI Support	✓
Frame Rate @ AOI	up to 20 Hz @ 5MP
Max Trigger Rate	up to 1K Hz @ 100 pixels x 100 pixels
Color Depth	8 Bit per Pixel
Brightness Coefficient	—
Contrast Coefficient	64 Analog Steps
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
Max Power Usage	3.5 Watt Without External Power Requirements
Min Trigger Pulse Length	20 ns
Trigger Delay	0 to 16 Min - in 1 us Steps
Interface	Super Speed USB 3.0 (600 Mbit/s)
Weight Dimension	80 gr (Without Lens) 60 mm x 60 mm x 40 mm
Temperature Range	- 30 to + 70 (°C)

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