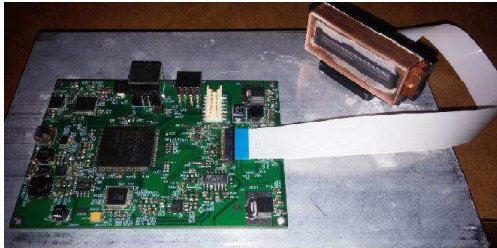


SMART SENSING INSTRUMENTS
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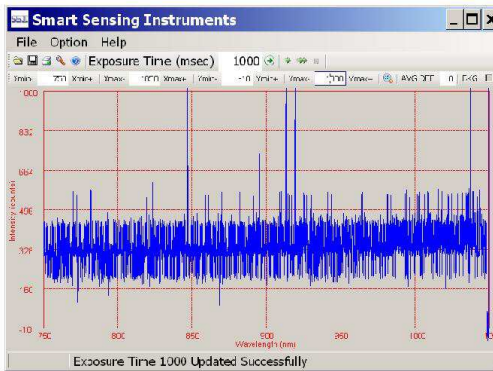
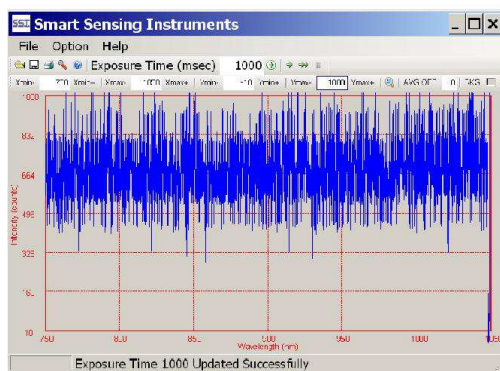
(978) 494-0802

Cooled Linear CCD Module



**Linear CCD Driver + Peltier (TEC)
Cooler Driver**

**Left: room temp, exposure 1 sec
Right: cooled to 20C, exposure 1 sec**



*the big spikes are background light noise, not from electronic board

FEATURES

Constant Temperature Cooling to 20C degree

With Proper Heatsink Design, Could be Driving without Forced Air Cooling

High Precision Low Noise Spectrometer Data Acquisition with Latest FPGA Technology and 16 Bit ADC

Software Included as well as High Speed USB 2.0 User Command Control

Example GUI for Developers

Very Short or Long Exposure Time

Pixel Number 3648 with head and tail pixels, size: 8umx200um, UV enhanced coated CCD available,

Sensitivity 160 V/ lx / sec nominal

+5V External or High Current (~1A) USB Powered

Regular USB Port Powered if Cooling not needed

CCD Package With IR coated Window

Fast Constant Temperature Cooling

Software Controlled Cooling ON/OFF Switch

On Board Calibration Coefficients Storage

Averaging Function, or Background Subtraction

CSV or SPC Compatible with Third Party Software

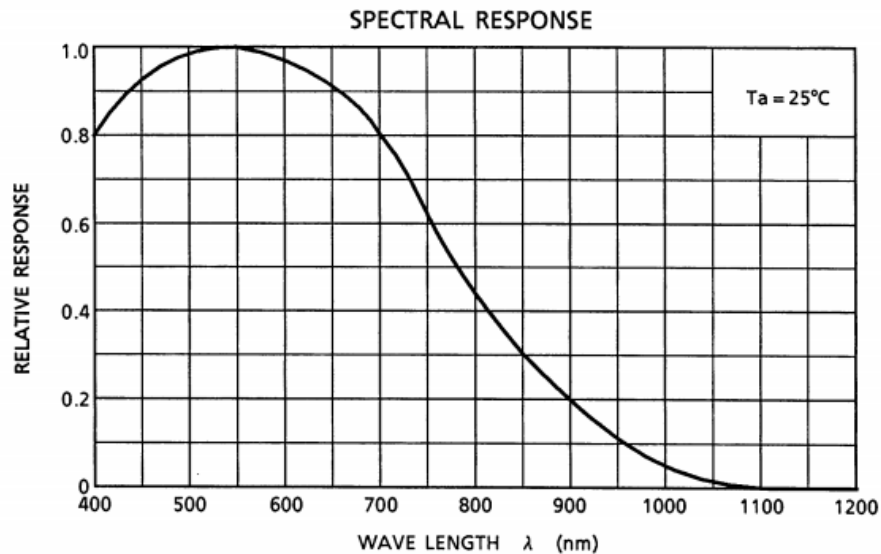
Low price, suitable for spectrometer, spectrograph integrations

SSI Expertise Technical Support and Free Design Review



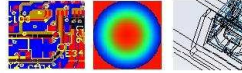
SPECIFICATIONS

Operating Temperature	10C to 40C
Humidity	10%-85% non condensation
Spectral Range	400-1100nm
System Measurement Accuracy	2% max
Exposure time	20 usec – 80 sec
Detector Cooling	TEC Cooled to 20 C
Power Supply	+5VDC , 1A
Data Export Format	*.CSV, *.SPC
Language	English
Heatsink Cooling	Passive or Active, Depends
Cable Length	FPC Cable 30 cm or Customer Defined
CCD Module Dimension (mm)	58 x 28 x 15 (heatsink needed)
Driver Board Dimension (mm)	95 x 72.5 x 13 (heatsink not needed)



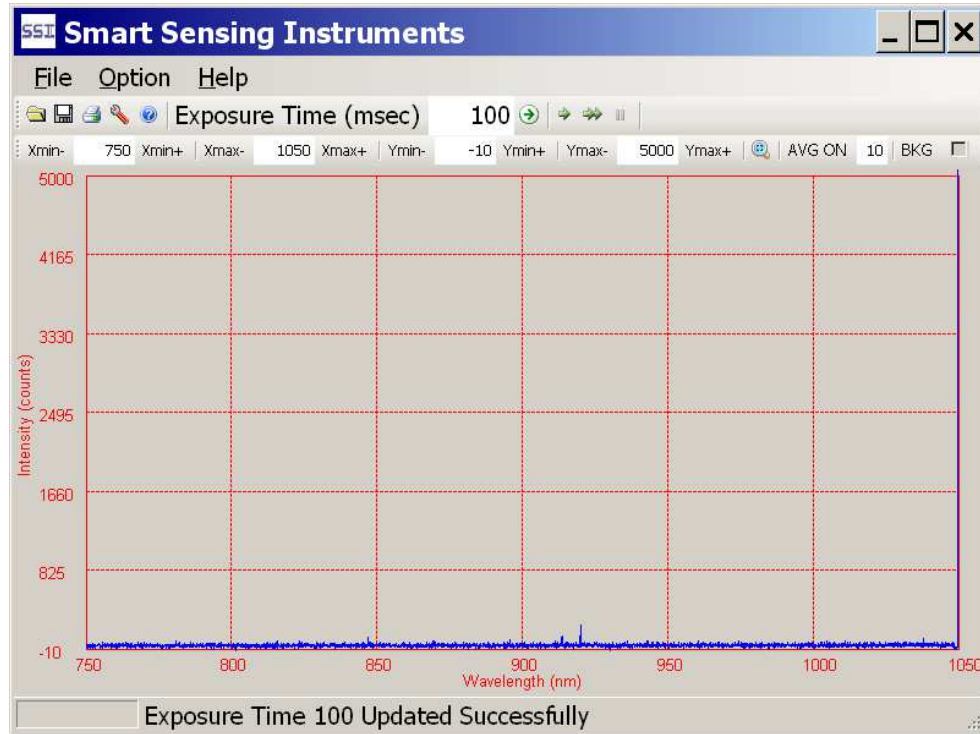
SOFTWARE

Operating System Requirement	Windows
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Email: smartsensinginternational@gmail.com

Telephone: 978-494-0802