Cooled Linear CCD Module
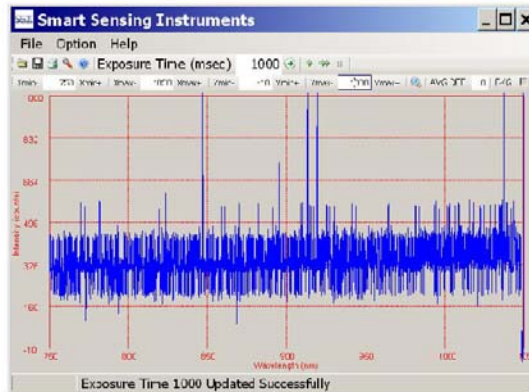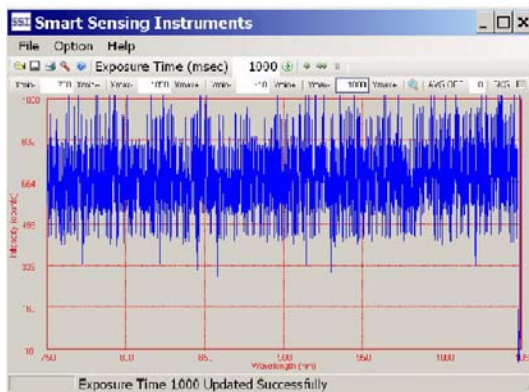

Linear CCD Driver + Peltier (TEC)
Cooler Driver

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

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

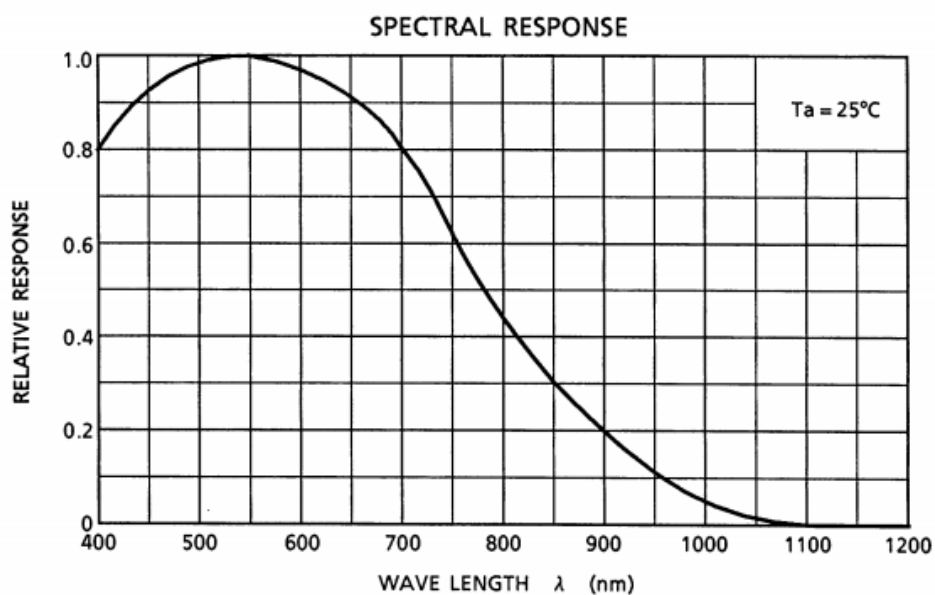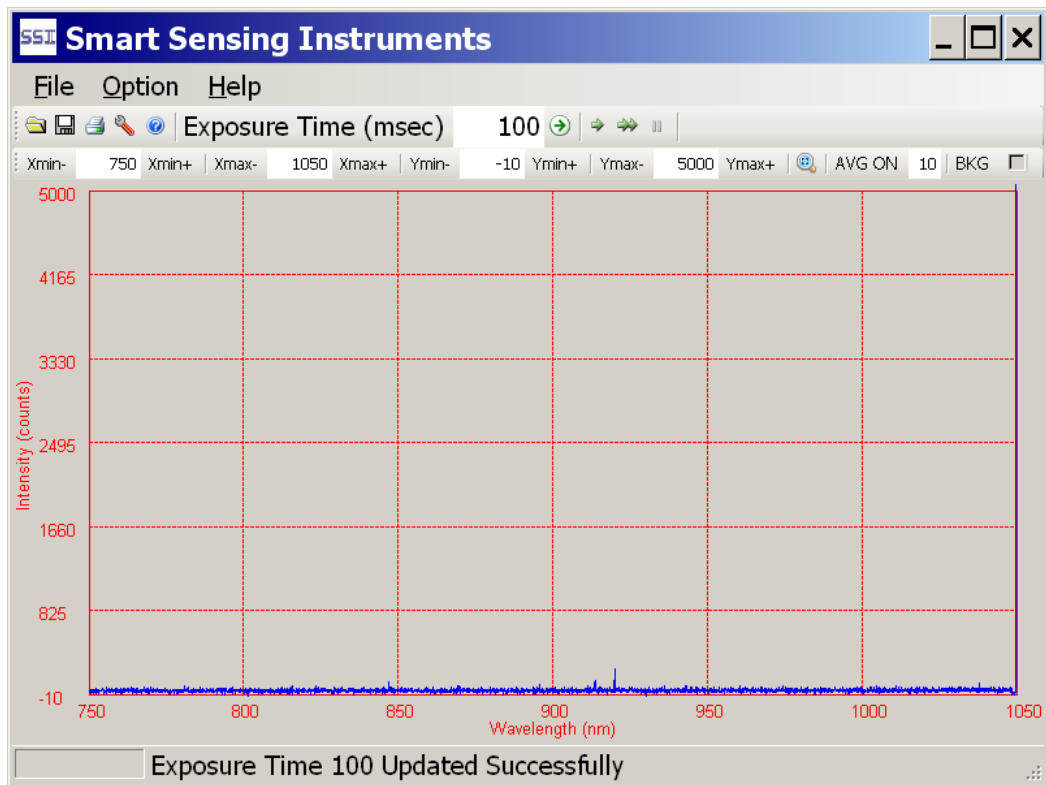| FEATURES |
| --- |
| Constant Temperature Cooling to 20C degree |
| With Proper Heatsink Design, Could be Driving without Forced Air Cooling |
| High Precision Low Noise Spectrometer Data Acquisition with Latest FPGA Technology and 16 Bit ADC |
| Software Included as well as High Speed USB 2.0 User Command Control |
| Example GUI for Developers |
| Very Shot 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)

SPECTRAL RESPONSE

SOFTWARE

Operating System Requirement	Windows

To Send Quotation:

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