



Technical Specification Sheet

MINI RUGGED SPECTROMETER SYSTEMS

A Universe of Spectrometer Systems

SMART-Control™ for Local Application Processing & External Interfacing

The SMART-Control interface provides communication flexibility and application specific customization with any StellarNet spectrometer. The add-on spectrometer interface includes and integrated zAP2 Application Processor with 1GB RAM and many communication protocols such as RS232, 4-20mA Analog for PLCs, SPI, WiFi, and other options. The SMART-Control allows customers to move their spectrometers into OEM and process environments and stream their application specific real world data.

SMART-Control



New SMART-Control enables customers to move their spectrometers into process or OEM environments.



SMART-Control any StellarNet spectrometer to send application data over many protocol options

Included Application Specific Outputs

General Spectroscopy: wavelength; intensity value

SpectroRadiometry: total power; xy chroma; CCT

Colorimetry: L*, a*, b* values

Concentration: % concentration; absorbance; wavelength

All SpectraWiz Mobile Apps are included free and customizable Python scripts are available for in-app purchase. StellarNet programmers can be contracted for additional customizations and modifications to meet your requirements.

UPS Battery Back-Up

Each controller includes a 3 hour battery with UPS for online and process requirements.

Display Screen Upgrade

A 3.5" touchscreen display can be added to the controller to allow direct programming and unit display.

SpectraWiz Mobile Apps for the SMART-Control

Each SMART-Control will come preprogrammed with our latest SpectraWiz Mobile App set written in Python. Using its local access point and your own mobile device, you can easily run applications for General Spectroscopy, Radiometry, Colorimetry, and Concentration analysis. Using the **Set Export** feature you can select which output protocol suites your requirements.

Specifications	SMART-Control Module	Starting at \$1,500
Spectrometer Compatibility: BLUE-Wave, BLACK-Comet, SILVER-Nova, DWARF-Star and all OEM modules	Dimensions : 5"x3.5"x2"	
CPU: x ARM Cortex-A53, 1.2 GHz	Power Consumption: 5 VDC @ 2.5A	
RAM: 1 GB	Display Upgrade: 3.5" Touchscreen for \$495.00	
Supported Interfaces: RS232, SPI, 4-20mA Analog, 26 digital I/O, Ethernet, I ² C, and WiFi (other options are available upon request)	Included Mobile Apps: General Spectroscopy, Radiometry, Colorimetry, and Concentration Analysis	

