



StellarNet, Inc. - New Product Release 1/15/2016

Thermoelectric Cooling (TEC) Options now available for Concave Grating Spectrometers

StellarNet, Inc. a global provider of low cost compact spectrometer instrumentation, is releasing its flagship research grade concave grating spectrometer, the **BLACK-Comet-TEC**, with thermoelectric cooling options. These add-on coolers reduce the temperature of the CCD to 15 degrees below ambient and increase instrument S/N drastically by reducing noise over 50% at long exposures. This upgrade improves the compact spectrometer's measurement quality and makes it a perfect solution for fluorescence and other weak emission applications.

BLACK-COMET-TEC

The StellarNet line of BLACK-Comet spectrometers utilize a holographic concave grating with aberration correction to provide superb spectral imaging. This significantly improves spectral shapes by reducing coma and astigmatism found in all other plane grating miniature spectrometer designs. The flat field spectrograph architecture does not utilize mirrors and therefore drastically reduces stray light effects while providing uniform resolution across the entire spectral range. The ability to add a TEC option to the BLACK-Comet spectrometer allows customers to have the best of both worlds- optical performance and noise reduction!



In order to achieve low temperatures the TEC add-on includes a new sealed and isolated detector enclosure with specialized heat sink and air flow design for added stability and cool operation.

Additional popular concave grating models cover 190-850nm or 200-1100nm ranges in one instrument. StellarNet now offers research grade performance at a great price!

Add a TEC to your BLACK-Comet today for just \$1,650! ContactUs@StellarNet.us for a quotation today or get in touch with your local StellarNet representative.