

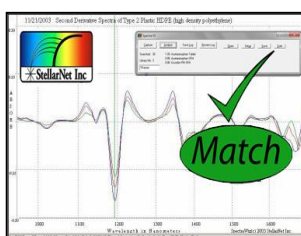
# Technical Specification Sheet

## MINI RUGGED SPECTROMETER SYSTEMS

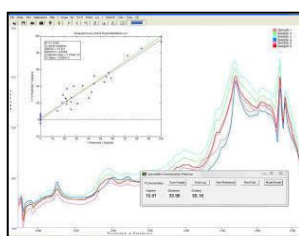
A Universe of Spectrometer Systems

### StellarCASE-NIR Portable Material ID & Composition Analyzer

StellarNet proudly announces a new rugged and fully integrated portable Case System for material identification and composition analysis using NIR spectroscopy. The StellarCASE-NIR includes interior mounting of spectrometer instrumentation pre-configured for "Open & Measure" application, with no additional setup required. With a simple press of the "Analyze" button instantaneous match results or sample % composition can be displayed on your screen.



StellarCASE-NIR displaying 99% Match for Polypropylene plastic for recycling



Soy Flour Measurement displaying %Moisture, %Fat, & %Protein of a sample



Rugged Case for "Open & Measure" Applications

The StellarCASE features an internal main power control system with ON, OFF, & Charge buttons. The NIR reflectance fixture mounts directly into the system's acrylic mounting surface for easy access.

The systems reflectance fixture contains a high stability tungsten halogen source and a patent pending 3-dimensional collection optics. Standard systems are equipped with an InGaAs detector for range 900-1700nm with options for extended ranges 1700-2300nm configurations.

The system collects your sample's reflected light spectrum and sends the spectral data to a tablet with factory installed SpectraWiz ID™ for spectral matching and the ChemWiz Analyzer Runtime for multivariate composition analysis. Analyzer Development Kit model builder and pre-developed models for specific sample types & components are purchased separately.

The system is completed with a RS50 white reflectance standard & sample cups. It has an 8 hour battery lifetime for field use and portable application and comes with AC power adapters for use in your laboratory or classroom.

**StellarCASE-NIR** can be useful for a variety of applications. Here's just a few

- **Chemical & Industrial-** Fuels, chemicals, mixtures
- **Plastics/Polymer Sorting & Recycling**
- **Agriculture- Product Composition Analysis**  
% Moisture, Total Nitrogen, Ash, Protein
- **Food & Beverage**  
Product QC, %Fat, %Ingredients, Adulterants
- **Pharmaceutical & Nutracuetical ID**
- **Custom Applications-** Develop your own Analyzer



Specifications		StellarCASE-NIR	
Spectrometer:	NIR DWARF-Star Technology	Case Dimensions:	6 x 11 x 13 inches
Spectrometer ranges:	900-1700nm or 1700-2300nm options	Measurement Speed:	<30 seconds
Optical resolution:	2.5nm	Spectrometer Interface:	USB2
Detector type:	InGaAs Photodiode	Tablet Specs:	Win8 32-bit
Reflectance Source:	Tungsten Halogen	Software included:	SpectraWiz Spectral-ID (ADK add-on)
Optical Measurement:	3D Reflectance	Additional Components:	RS50 Reflectance Standard, Sample cups, mini-USB mouse, AC power supply & charger
Battery:	8hr lithium ion		