



# Technical Specification Sheet

## MINI RUGGED SPECTROMETER SYSTEMS

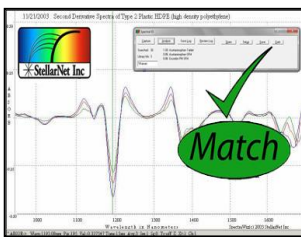
A Universe of Spectrometer Systems

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

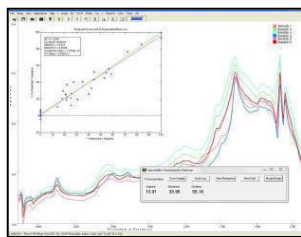
StellarNet proudly announces a new rugged and fully integrated portable Case System for material identification and composition analysis using NIR spectroscopy. The StellarCASE-NIR includes interior mounting of spectrometer instrumentation pre-configured for "Open & Measure" application, with no additional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



**Rugged Case for "Open & Measure" Applications**



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



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

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         | \$20,635  |
|----------------------|-----------------------------------|-------------------------|---|
| 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                   |                         |   |

