



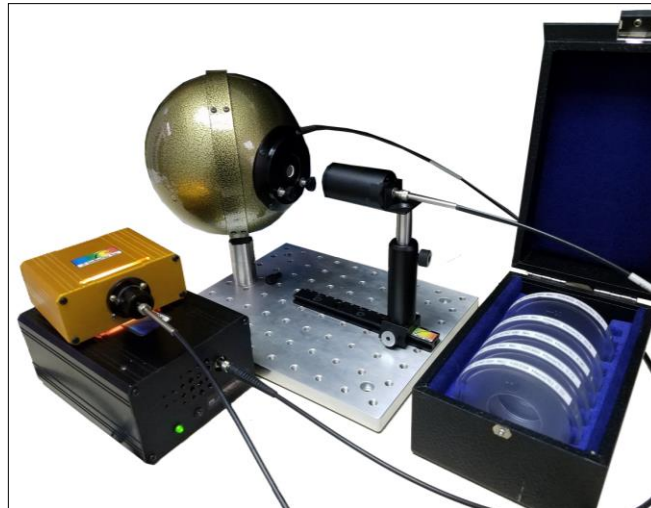
# Technical Specification Sheet

## MINI RUGGED SPECTROMETER SYSTEMS

A Universe of Spectrometer Systems

### StellarHaze - Total Transmission & Haze Measurement System

StellarNet announces a new preconfigured optical metrology system for total transmission and haze measurement. The StellarHaze System includes a compact fiber optic spectrometer, light source with integrated optical amplification and collimation lens, custom haze measurement sphere with diffuse transmission port and sample attachment clips. The sphere is mounted on a breadboard with alignment track for easy positioning. The system comes complete with StellarHaze software for MS Excel that calculates transmission and haze at once while also displaying spectral curves over the 300-850nm spectral region. New StellarPro-Haze app allows for simultaneous measurement of CIELab color, total transmission, and haze at the same time.



**StellarHaze System is a preconfigured optical metrology system for total transmittance & haze measurement**

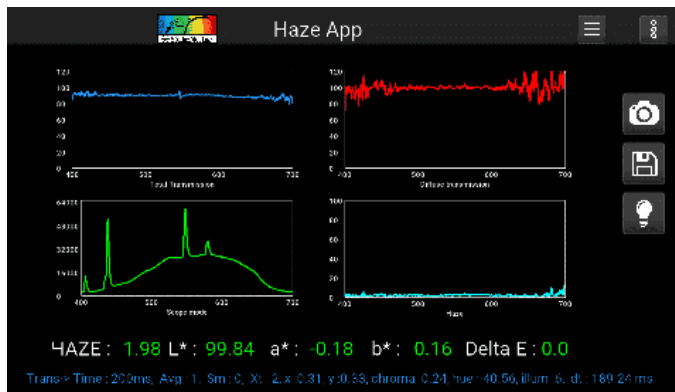
The appearance of transparent materials can be tuned for their applications and can be quantified by their light scattering optical properties. The cloudiness or "haze" can be defined by the percentage of light transmission which deviates from an incident beam greater than 2.5 degrees.

#### Modular and Functional

The modular system can be quickly assembled for measurement or broken down and stored in a rugged instrument case. Additional accessories can be purchased for reflectance or other spectroscopy applications.

**StellarHaze System** can be useful for quality control and research for a variety of applications and sample types. Here are a few:

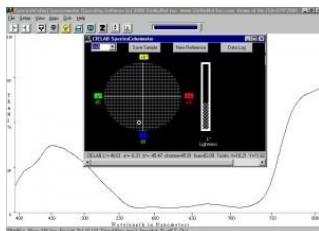
- **Filters and plastic sheets**
- **Thin Films and bags**
- **Liquids via cuvette**
- **Diffusing plastics for lighting**
- **Automotive glass and windows**
- **Beverages**



**StellarPro-Haze Software allows easy calculation of sample haze in just 4 simple steps!**

#### SpectraWiz CIELAB Color Measurements

L\*: Brightness (0 to 100)  
a\*: **Green** (-a) to **Red** (+a)  
b\*: **Blue** (-b) to **Yellow** (+b)  
Delta E\* color difference  
XYZ tristimulus  
xy chromaticity  
Chroma & Hue



Specifications		StellarHaze	
Spectrometer:	BLACK-Comet	System Dimensions:	10 x 12 x 10"
Spectrometer range:	280-900nm	Measurement Speed:	<1 second
Optical resolution:	6nm	Spectrometer Interface:	USB2
Detector type:	2048 pixel CCD	PC Specs:	Win7-10, Linux*, Mac* *with StellarPro
Measurement Area:	ø13mm	Software included:	StellarPro & SpectraWiz-Haze
Measurement Range:	0-100%	Additional Components:	Optional Haze Reference Standards (30%,20%, 10% 5%, 2% Haze) \$2,500 per set
Geometry:	0° / diffuse		

