



Technical Specification Sheet

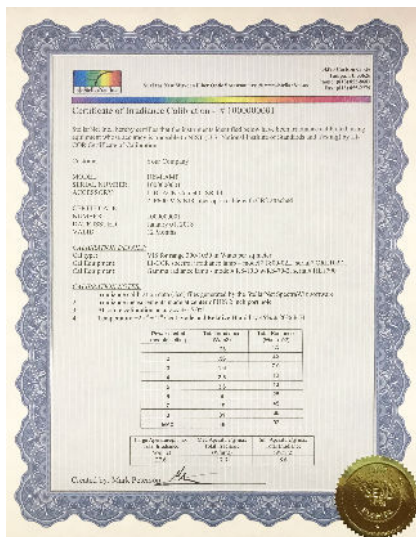
MINI RUGGED SPECTROMETER SYSTEMS

A Universe of Spectrometer Systems

Uniform Illumination Sphere - Light Source (UIS-LS)

The StellarNet series of Uniform Illumination Sphere Light sources and accessories provide NIST traceable uniform spectral output over stepped range of optical power values. These systems are perfect for sensor and various imaging system calibration.

The system consists of a 6" integrating sphere with Stellarflex® interior reflective coating to provide better than 99% spectral luminance uniformity at the spheres 2" output port. StellarNet offers 10, 30, 50, & 75W NIST traceable bulb options depending on your requirements.



NIST Traceable Calibrations The UIS-LS light source comes with spectral output data files for Radiance and Irradiance from 300-1100nm in nanometer increments and a Certificate of Calibration. Additional total Radiance values will be provided at each power setting or IRIS purchased but complete spectral data files for each setting must be purchased separately.



UIS-LS System provides uniform and constant spectral output. Accessories such as power control module and Iris set can be chosen to provide stepped output.

Once you choose the output wattage of your calibration bulb you can choose the following accessories to add to your system¹.

Power Control Module

Standard option comes with 9 incremental steps to full power².

IRIS

Iris set (3) for lamp attenuation with constant Color Temperature (K).

Spectro

Calibrated BLUE-Wave-VIS spectrometer for monitoring of Uniform Illumination Sphere- Light Source (UIS-LS). Includes optical fiber and calibrations. Discounted from standard price when included in UIS-LS package.

Note¹ - Higher wattage calibration bulbs will require larger heat sink and fan.
Note² - Systems purchased without the power control module option will include the power supply and gold power box with ON/OFF switch.

Specifications		UIS-LS 10Watt
Input Power:	10 Watts (30, 50, 75W upgrades)	UIS-LS-30Watt
Lifetime:	+10,000hrs	UIS-LS-50Watt
Color Temperature:	~2800K	UIS-LS-75Watt
Detector type:	2048 pixel CCD	UIS-CAL (additional calibrations per step)
Time to Stabilize:	1-5 minutes	Power Control Module (UIS-PCM)
Aperture Size:	2"	UIS-IRIS
Power Output:	2000 Cd/m ² @ 10W	UIS-Spectro

