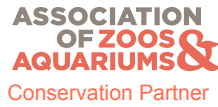




# THE ZOOLOGICAL LIGHTING INSTITUTE™



## **ZLI TS (TERRESTRIAL SPECTROMETER) KIT**

**AVAILABLE TO DONORS FOR \$5000 OR GREATER**

The ZLI Terrestrial Spectrometer Kit, enables the measurement of light quality and quantity in an animal exhibit and holding area. It also enables analysis of animal coloration, an important indicator of health and well-being.

We use StellaNet UV-VIS Spectrometers capable of recording light wavelengths from 190-850nm. This enables animal keepers and researchers to measure the light animals are sensitive too, and to move beyond guess-work in animal care to a solid scientific foundation for more sensitive animal welfare decisions. The included Spectro-Wiz software is easy to use and flexible for a variety luminous habitat assessments, including critical assessments of light quality and intensity over the course of time (day and seasonal variations).

## **ZLI QQS (QUALITY, QUANTITY, STRUCTURE) KIT**

**AVAILABLE TO DONORS FOR \$6000 OR GREATER**

The ZLI QQS Kit, enables the measurement of light quality, quantity and structure in an animal exhibit and holding area. In addition to quality and quantity, it enables analysis of the structure of radiance impacting an animal's space.

The ZLI QQS Kit includes the terrestrial spectrometer kit, a solar pathfinder and associated software, as well as an SQM meter to determine the qualities of natural light in the exhibit area. These devices are eminently portable, allowing for comparison between the qualities of an animal's indigenous habitat along with those of the managed care space.

## **ZLI QQS+HA (HEALTH ASSESSMENT) KIT**

**AVAILABLE TO DONORS FOR \$10000 OR GREATER**

The ZLI QQS with Health Assessment, adds the ability to measure animal coloration along with the many uses the ZLI TS Kit can be put to. This is important to sensory ecology concerns, as well as to the ways in which groups of animals function together and within their environment.

The ZLI TS+HA Kit adds the ability to measure material reflectance to the ZLI QQS Kit, by adding a tungsten Halogen light source and appropriate reflectance and probe accessories. An indispensable tool to measure vital color changes to feathers, skin, exhibit surfaces and the like.



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## ZLI TS (TERRESTRIAL SPECTROMETER) KIT

Item	Description	QTY
StellarNet Spectroradiometer		
BLK-C	Portable UV-VIS spectrometer for 190-850nm, CONCAVE holographic grating with flat field image for uniform resolution across range, NO mirrors for lowest stray light, aberration corrected for superb spectral imaging. Includes UV detector upgrade, integrated order sorting filter, 50um slit, black USB cable, user manual, and SpectraWiz software.	1
Accessories		
CR2	Miniature UV-Vis-NIR cosine receptor	1
F600-UVVIS-SR	F600-UVVIS-SR Armored Solarization Resistant 600um fiber optic cable - 2 meters	1
CR2-TP	Optional tripod for positioning cosine receptor	1
IRRADCAL-UVN	NIST traceable irradiance calibration service for 200-1100nm range - allows absolute intensity measurements. Certification document not included. Please Note: Calibration replacement file costs \$125.00.	1
IRRAD-CAL-DOC	IRRAD-CAL Certificate of Calibration	1
SpectraWiz	FREE Real-time spectrometer operating software for Windows XP-10, includes integrated applications for SpectroRadiometry*, Spectroscopy (Absorbance %T), CIELAB colorimetry, LED color analysis*, ChemWiz chemical concentrations, App support for custom Analyzer Development Kit (ADK), UVabc* and Solar monitors, episodic capture for time series analysis. Includes software training videos. (*=requires radiometer calibration). Includes additional FREE demo programs that are customizable for LabVIEW or VBA for Excel (Visual Basic Automation). Plus more FREE demo software for C#, C-SDK, and Delphi Pascal.	
Shipping	Shipping, handling, and insurance included	
	***Includes 1 Year Parts & Labor Warranty***	
	***Estimated Lead Time 1-2 Weeks ARO***	
Available to institutions or individuals for Donation at the \$5000.00 level		



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## 'QQS' (QUALITY, QUANTITY, STRUCTURE) KIT

Item	Description	QTY
ZLI Basic Spectroradiometer Kit		
BLK-C	Portable UV-VIS spectrometer for 190-850nm, with accessories listed as above.	1
Solar Pathfinder		
SolarPathFinder With Integral Tripod	To track incident natural light on = site over the course of the year	1
SolarPathfinder Assistant Base Software	Provides digital integration and custom reports for specific latitude solar pathfinder is used, offering comparison with in situ conditions.	1
SQM Meter		
SQM Meter	Night Sky Quality Measurements	1
Available for donation at the \$6000 level		



# THE ZOOLOGICAL LIGHTING INSTITUTE™



## 'QQS +HA' (HEALTH ASSESSMENT) KIT

Item	Description	QTY
ZLI QQS Kit		
BLK-C	Portable UV-VIS spectrometer for 190-850nm, with accessories listed as above.	1
SolarPathFinder With Integral Tripod	To track incident natural light on = site over the course of the year	1
SolarPathfinder Assistant Base Software	Provides digital integration and custom reports for specific latitude solar pathfinder is used, offering comparison with in situ conditions.	1
SQM Meter	Night Sky Quality Measurements	1
Accessories:		
SL4-DT	Miniature Deuterium and Tungsten/halogen light source for 200-1700nm range for high output power. Enables use for reflectance measurements in a single unit. Shutter button on the front panel blocks the light output of both lamps.	1
R600-8-UUVIS-SR	Armored, solarization resistant, 600um fiber, 7 around 1, reflectance probe	1
RS50	50mm diameter White reflectance standard, halon >97%	1
RPH2	Reflectance Probe Holder block that maintains a 45 and/or 90 degree angle and user set distance from sample (0-3/4").	1
Available for donation at the \$10000 level		