

## Analytical Instrumentation

Surf the New Wave in Portable Fiber Optic Spectrometry

The StellarNet portable fiber optic accessories facilitate the measurement task for various samples and application types using standard **SMA-905** optical connectors. These **low cost modular components** are robust, reliable, and designed to last in the portable and industrial environments.



### Fiber Optic Light Accessories provide Cool Operation without Fan

- The **SL1** has **10,000 hour** Tungsten+Krypton lamp for VIS/NIR 350-1600nm
- 0.2% power regulation to bulb provides for stable spectroscopy applications
- Miniature size 1.5 x 3 x 3.5 inch with top filter slot and +12VDC operation
- The **SL1-FILTER** includes a 0.5 inch diameter filter holder nose cone
- The **SL1-CUV** adds a 1cm cuvette holder with integrated collimating lense
- The **SL1-CAL** is for spectroradiometer irradiance calibrations with data disk
- The **SL1-BAT** option adds connector for operation via 5VDC **battery pack**

SL1 **\$375** SL1-FILTER **\$595** SL1-CUV **\$655** SL1-CAL **\$545**

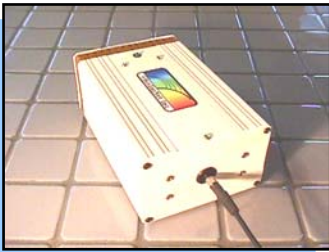


### Fiber Optic Cal Lamp for Wavelength Verification

- The **SL2** calibration lamp provides Mercury+Argon gas emission lines
- Miniature size 0.75 x 2.5 x 4.5 inch provides ultimate portability
- Large label provides **spectral emission lines** at associated wavelengths
- SMA905 optical connector, operates on +5VDC input or +9VDC **battery**
- Verify or calibrate spectrometer wavelengths from 253.65 to 1013.98nm
- Optional **BP1 Li-Ion battery** (not shown) for spectro + SL1 light sources

SL2-CAL **\$275**

BP1 **\$395**



### Fiber Optic Deuterium Lamp has Long Life Deep UV Output

- The **SL3** is a 4,000 hour **15 watt** Hamamatsu deuterium light source
- Miniature size 3 x 4 x 7 inch provides mobile UV lab 190-450nm
- Optional Y-cable allows SL1 output to be combined for UV+VIS apps
- Integrated 0.5 inch diameter **filter holder** for selective band excitation
- Universal +24VDC adapter and extra stable internal lamp power supply
- Special **air flow design** with quiet fan prolongs Deuterium bulb life

SL3-DEUT **\$1495**



### Fiber Optic Deuterium+Halogen or Xenon Lamps for UV + VIS

Miniature size 1.5 x 2.5 x 6 inch, operates on +12VDC

- The **SL4** is a portable pulsed Xenon light source covering 220-720nm
- The **SL5** is a portable Deuterium + Halogen CW source for 200-900nm
- **2 Watt** optical power sufficient for cuvettes, flow cells, and dip probes
- **SL4** has Integrated 0.5 inch diameter **filter holder** and TTL trigger cable
- **SL5** has Integrated **shutter** with individual D/H lamp on-off switches

SL4-XENON **\$795** SL5-DH **\$1050** -CUV option add **\$300** see SL1-CUV

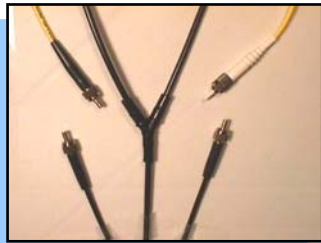
Accessories shown at suggested list price with spectrometer purchase



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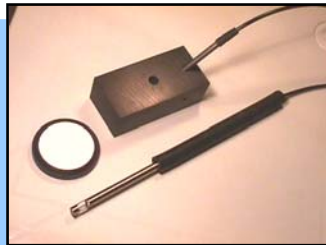
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## SMA-905 Fiber Optic Cable Accessories provide Modular Connectivity

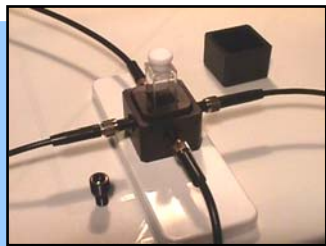
- **Multi-mode** fiber optic cables include black PVC coated steel mono-coil
  - **F400-UV-VIS-SR** provides solarization resistant silica clad & **400um** core
  - **F400-VIS-NIR** provides low OH silica clad & silica core for NIR spectroscopy
  - **F400-Y-UV-NIR** provides a convenient way to mix UV and VIS-NIR spectra for sample illumination or signal return to multi-channel spectrometers
  - Multi-mode fibers have a **numerical aperture** of 0.22, other sizes available
  - **F400-YB-UV-NIR** bundle connects SL1-halogen + SL3-deuterium lamps
- UV-VIS-SR **\$145** VIS-NIR **\$115** Y-UV-SR-NIR **\$240** F400-YB **\$250**



## Fiber Optic Based Reflectance and Liquid Dip probes

- The **R400-7-VIS-NIR** (or UV-VIS) reflectance probe has 6 illuminating and 1 read fiber. A reflectance probe holder **RPH1** holds a 45 degree angle and constant distance from the sample for CIELAB spectrocolorimeter measurements. The probe tip ferrule is ¼ inch stainless steel.
- The **RS50** white Halon standard has >97% reflectance 300-1700nm
- The **DP400-VIS-NIR** (or UV-VIS) dip probe has 1 illuminating + 1 read fiber and can be used to read color, absorbance, and concentrations of solutions using a 0.5cm or 1cm or 2cm path length via removable tip.

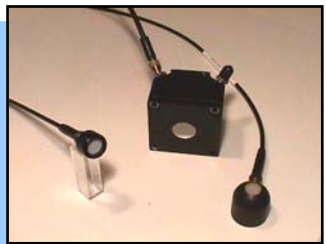
R400-7 **\$495** RPH1 **\$65** RS50 **\$125** DP400 **\$1395**



## Fiber Optic Cuvette Measures Absorbance/Transmit/Fluorescence

- The **CUV1** fiber optic holder accepts standard 1 centimeter cuvettes
- **4 way** design accepts fiber optic attachment/lens collimator on any side
- Black anodized cover and 90 degree pickup for **fluorescence detection**
- Includes **3 LENS-QCOL UV lens** collimators for fiber optic attachment
- **LENS-COL** reduces field of view to capture distant light into a fiber tip
- The **TXF1** transmission fixture is CUV1 with 2 sides removed & no top

CUV1 **\$595** TXF1 **\$450** LENS-COL **\$135** LENS-QCOL **\$145**



## Fiber Optic Receptors for Measuring Spectral Irradiance

- Attaches to SMA-905 connector on F400 / F600 / F1000 fiber optic cables
- **CR1** cosine receptor for **EPP2000-VIS** spectroradiometer measurements
- **CR2** cosine receptor for **EPP2000C UV-VIS** or **UVN** spectroradiometers
- **CR2-AP** precision aperture allows x10 brighter signals to be measured
- **IC2** 2 inch miniature integrating sphere **cube** with 5/8 inch receptor port

CR1 **\$95** CR2 **\$125** CR2-AP **\$125** IC2 **\$495**

Accessories shown at suggested list price with spectrometer purchase

