



# LABORATORY / LIFE SCIENCES

## ULTRAVIOLET PRODUCTS

- ▶ Fluorescence Analysis Cabinets
- ▶ Crosslinkers
- ▶ Radiometer Kits
- ▶ UV Light Sources





## LAB AND LIFE SCIENCES

**Spectroline® UV laboratory products are built and tested to meet laboratory research and life science applications that require uncompromising quality and reliability.**

For researchers, Spectroline® offers a wide range of products, including crosslinkers, UV lamps, digital radiometers, fluorescence analysis viewing cabinets and work stations, in addition to protective eye and face wear.



## SPECTRO-UV

Spectro-UV's mission is to make the world a safer place with our standard-setting, high-quality products for the world's UV applications.

By inhabiting a culture that attracts and retains creative, talented, and energetic employees, our goal is to maximize our ability to provide innovative and cutting-edge technologies to our global customer base.



## Q-Series/QZ-Series UV MAGNIFIER LAMPS

The Q-Series offers various lamp combinations of long wave UV, short wave UV and white light, giving you the ability to select a unit that's ideal for your specific application.



- ▶ Extra-lightweight ballast and housing design for fatigue-free use
- ▶ Rugged phenolic handle attached
- ▶ Short wave UV tubes is equipped with our unique **ONGLIFE™** filter glass
- ▶ Full line of accessories
- ▶ Available Models: Q-12, Q-22, QZ-12, QZ-22B, QZ-22

## UV Crosslinkers

### MONITOR UV RADIATION AND SELF-ADJUST TO VARIATIONS IN UV INTENSITY

All Spectroline UV crosslinkers feature a “smart” microprocessor controller and unique true UV monitoring circuitry to enable users to get error-free results with speed, accuracy and safety. These units are built specifically to eliminate time-consuming adjustments, unnecessary repetitive programming and unwarranted risk of sample damage.



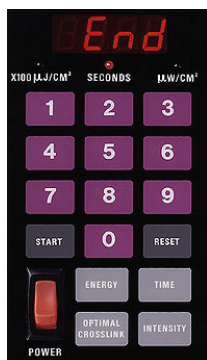
- ▶ UV crosslinking of DNA and RNA after Northern, Southern, slot or dot blots and colony or plaque lifts
- ▶ PCR decontamination
- ▶ Nicking ethidium bromide-stained DNA in agarose gels
- ▶ Gene mapping for cleavage-inhibiting thymine dimers
- ▶ RecA mutation screening in *E. coli*. UV sterilization
- ▶ Continuous UV dosing
- ▶ Miscellaneous UV-dosage applications including UV-induced polymerization or drying

### FEATURES OF OUR CROSSLINKERS:

- ▶ Covalently binds nucleic acid sequences and hybridization membranes in **30 seconds** or less
- ▶ Safeguards your valuable test results from washouts
- ▶ Ensures optimum nucleic acid membrane binding, even when UV output varies
- ▶ Provides ultimate ease of use and accuracy with “Smart” microprocessor controller
- ▶ Protects users from UV exposure with fully enclosed chamber







### Programmable “Smart” Microprocessor Controller:

- ▶ LED-function indicators and color-coded keypad
- ▶ Built-in “help” messages
- ▶ Four operation modes
- ▶ Auto Repeat function remembers last operation without reprogramming

### Built-in “help” messages — SPECTROLINE®

- ▶ Bulb: When the UV tubes need to be replaced
- ▶ Door open: the unit also protects users from accidental UV radiation when the door is opened during a run
- ▶ End: End of cycle confirmed with display and audible beep
- ▶ Remaining Time/Energy provides operation status report
- ▶ When the operation has been interrupted. The RESET button cancels the latest settings and START button automatically resumes the current operation.

## Spectrolinker™ Series

- ▶ Rugged, anodized aluminum housing
- ▶ Long lasting anodized aluminum chamber prevents rusting
- ▶ Available in SW, MW and LW wavelengths
- ▶ Available in Two Sizes: Standard **XL-1000** Series, and Large **XL-1500** Series



## STANDARD SIZE

### Spectrolinker™ XL-1000 Series and

- ▶ Overall housing dimensions (W x H x D): 19.5" x 10.5" x 9" (49.5 x 26.7 x 22.9 cm)
- ▶ Effective inner chamber dimensions (W x H x D): 13.5" x 7.0" x 7.5" (34.3 x 17.8 x 19.1 cm)
- ▶ Door dimensions (W x H): 12.0" x 6.25" (30.5 x 15.9 cm)
- ▶ Viewing window dimensions (W x H): 6.0" x 2.5" (15.2 x 6.4 cm) for XL-series
- ▶ Net weight: 17.5 lb (7.9 kg)
- ▶ Power: 120V-60Hz-2A, 230V-50Hz-2A, 100V-50/60Hz-2A

Model (Part #)	WAVELENGTH	TUBES
XL-1000	254 nm *	(5) 8W SW, BLE-8T254

## LARGE SIZE

### Spectrolinker™ XL-1500 Series *only*

- ▶ Overall housing dimensions (W x H x D): 24.0" x 10.5" x 14" (61.0 x 26.7 x 35.6 cm)
- ▶ Effective inner chamber dimensions (W x H x D): 18.25" x 6.25" x 12.5" (46.4 x 15.9 x 31.8 cm)
- ▶ Door dimensions (W x H): 16.0" x 6.25" (40.6 x 15.9 cm)
- ▶ Viewing window dimensions (W x H): 6.0" x 2.5" (15.2 x 6.4 cm)
- ▶ Net weight: 26 lb (11.8 kg)
- ▶ Power: 120V-60Hz-3A, 230V-50Hz-3A, 100V-50/60Hz-3A

Model (Part #)	WAVELENGTH	TUBES
XL-1500	254 nm *	(6) 15W SW, BLE-1T155

\*The 254 nm versions provide super-fast DNA and RNA crosslinking to membranes for improved hybridization-signal sensitivity. At peak, these units can process samples in under 30 seconds — that's 240 times faster than vacuum-oven baking!

# FLUORESCENCE ANALYSIS CABINETS

Spectroline® workstations utilize darkroom cabinets for convenient viewing, analyzing or photographing of fluorescent samples with both epi-illumination and trans-illumination light sources. Our full range of cabinets provides different working sample sizes, options for UV lamps and is useful for numerous applications.

Our portable, space-saving mini-cabinets double as personal darkrooms and UV irradiating units. The CM-10A model comes without a light source but can be outfitted with one of our Spectro-UV E-series UV lamps, available in 4-, 5- and 6-watt versions in combinations of LW, MW and SW.

## CM-Series

**LIGHTWEIGHT, PORTABLE  
VIEWING DARKROOMS ARE  
EASILY TRANSPORTED**

- ▶ Flexible, contoured eyepiece with a built-in UV-absorbing window for safe sample viewing
- ▶ Felt curtain permits easy access to cabinet interior while shielding samples from external light
- ▶ Lightweight, durable construction creates easily transportable darkroom



**CM-10A**



**CM-26A**

## E Series

### COMPACT, LIGHTWEIGHT MODELS\*

Compact, lightweight models provide ideal combinations of wavelengths, intensities, sizes and wattages.



- ▶ All lamps come standard with attached convenient carrying handle
- ▶ Four-way power, each with a distinct mode of operation

## UV-4B

### POCKET SIZED ILLUMINATION

Small, low-pressure, mercury-vapor discharge lamps made of double-bore material with both electrodes at one end.



- ▶ Lightweight and portable
- ▶ Weighs only 7 oz (198g)
- ▶ Powered by four AA (1.5 volt) alkaline batteries (not included).
- ▶ Provides 4 to 6 hours of use

\*View all lamp versions and combinations online, or contact your sales representative.



## X-Series

### BENCH AND DISPLAY LAMPS\*

For applications where high-intensity, wide-area UV coverage is required. Constructed of rugged metal with sturdy mounting brackets, these units are available in various combinations of long, medium and/or short wave UV. Ideal for numerous applications requiring a darkened environment.

- ▶ Choice of 15-watt and 40-watt models
- ▶ Available in all UV wavelengths (LW, MW and SW)
- ▶ Single- and double-tube combinations
- ▶ Filtered UV-A and unfiltered UV tubes
- ▶ Offered with or without filter assemblies
- ▶ 15-watt models with anodized aluminum housing
- ▶ 40-watt models with enameled sheet metal housing
- ▶ Outfitted with sturdy metal brackets for easy overhead mounting



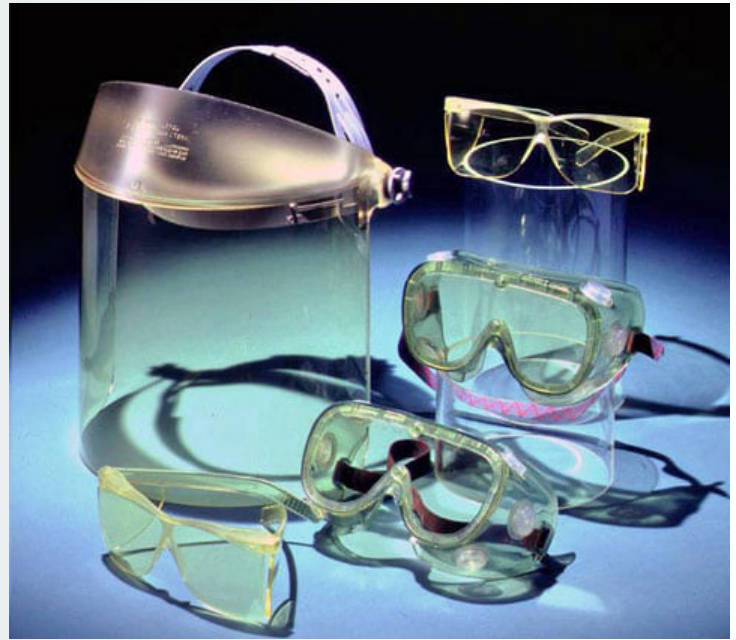
\*View all lamp versions and combinations online, or contact your sales representative.

\*View all lamp versions and combinations online, or contact your sales representative.

## UV Protective Eye and Face Wear

### FOR LABORATORY APPLICATIONS

- ▶ Designed for long wearing comfort and to protect the user against most ultraviolet light sources
- ▶ improves contrast between the fluorescent area and the background by eliminating the “blue haze” interference
- ▶ Goggles and face shield meet ANSI specifications and OSHA standards
- ▶ UVS-30 spectacles, generally recommended for sporadic, lower intensity UV sources fit easily over eyeglasses
- ▶ UVF-80 face shield, for maximum protection from extended or high intensity UV exposure, adjusts to fit the face



UVS-20  
UV-absorbing Spectacles



UVS-30  
UV-absorbing Spectacles



UVF-80  
UV-absorbing Face shield



UVS-40  
Fluorescence-enhancing Spectacles



UVG-50  
UV-absorbing Goggles

## ACCUMAX™ SERIES FOR LABORATORY

### DIGITAL MICROPROCESSOR- CONTROLLED METERS

The AccuMAX series is designed to provide accurate readouts for UV irradiance, visible illuminance or luminance light readings. When equipped with an interchangeable sensor detector, the AccuMAX readout unit can be used to perform fluorescent inspection (intensity check through normal operation) and UV dosing (energy check through integration operation).



- ▶ Features two advanced digital, microprocessor-controlled readout units (XF-1000 for fluorescent UV tubes; XR-1000 for HID UV bulbs) specially calibrated to complement a full line of interchangeable AccuMAX series sensor detectors
- ▶ Software-driven functions provide multifaceted light level reading
- ▶ User-selectable, multilingual display settings. Choose from English, French, German, and Spanish
- ▶ Five user-customized settings and three main operation modes (absolute data/normal, autozeroing and integration) featuring hold, peak and back functions
- ▶ Overall accuracy of better than  $\pm 5\%$  with reference to NIST standards

### FEATURES OF OUR RADIOMETER KITS:

- ▶ Superior bandpass interference filter resists degradation and prevents undesirable radiation readings
- ▶ Excellent linearity and cosine response
- ▶ Choice of direct or USB cable connection between sensor detector and readout unit (XCB-50 USB cable included)
- ▶ Large, easy-to-read monochrome LCD screen
- ▶ Automatic shutoff and user-defined power save features
- ▶ Powered by two 9-volt alkaline batteries (included)
- ▶ Readout unit dimensions (W x L x H) : 4.25 in x 7.75 in x 1.25 in, 10.8 cm x 19.7 cm x 3.2 cm)
- ▶ Readout unit weight: 1.1 lb (499 g)





## CUSTOMIZING SETTINGS

The AccuMAX provides users the capability of selecting the default visible unit of measurement in their choice of foot-candles (fc), lux, lm/ft<sup>2</sup> or lm/m<sup>2</sup>. The user can also select and adjust the display contrast, backlight brightness and interval between active and passive operations, which also helps conserve battery power. Unless the meter is at low-battery status, all user-selectable parameters will be saved and used for future meter operations.

## ACCESSORIES

MODEL	SENSORS	SPECTRAL RANGE	RANGE IN UNITS
XS-254	UV-C	230-280nm	0-100 mW/cm <sup>2</sup>
XTS-254	UV-C	230-280nm	0-3W/cm <sup>2</sup>
XS-300	UV-B	280-320nm	0-100 mW/cm <sup>2</sup>
XTS-300	UV-B	280-320nm	0-3W/cm <sup>2</sup>
XS-365	UV-A	320-420nm	0-100 mW/cm <sup>2</sup>
XTS-365	UV-A	320-420nm	0-3W/cm <sup>2</sup>
XS-405	UV-V	395-415nm	0-100 mW/cm <sup>2</sup>
XTS-405	UV-V	395-415nm	0-3W/cm <sup>2</sup>
XS-450	Bilirubin	420-480nm	0-100 mW/cm <sup>2</sup>
XTS-450	Bilirubin	420-480nm	0-3W/cm <sup>2</sup>
XS-555/I	Visible illuminance	460-675nm	0-5,300 lux, 0-500 fc
XS-555/L	Visible illuminance	460-675nm	0-1,000,000 cd/m <sup>2</sup> , 0-90,000 cd/ft <sup>2</sup> , 0-285,000 fL





ORDER  
INFORMATION



TECHNICAL  
ASSISTANCE



LOCAL SALES  
REPRESENTATIVES



AUTHORIZED  
DISTRIBUTORS

## PRODUCT/CUSTOMER SUPPORT & TECHNICAL ASSISTANCE

Product literature, instructions and a full staff of trained customer service representatives and technical service engineers are available for support. Additional product information and support are available on our website.



### PLACE AN ORDER:

Orders@Spectro-UV.com



### GET SUPPORT:

Call (866) 230-7305

## Warranty

*All equipment is warranted against defects in manufacture. Spectro-UV's obligation under this warranty is limited to repairing or replacing, at the option of Spectro-UV, any part(s) of the product which, if properly installed, used and maintained, proves upon factory examination to have been defective in materials or workmanship within 12 months from the date of delivery to the customer, including LEDs.*

*This warranty does not apply to any component which (1) is normally consumed in operation or (2) has a normal life inherently shorter than the warranty stated. For example, bulbs, filters and rechargeable batteries are warranted for 30 days; the 100S/M-PQL bulb is warranted for 90 days. In addition, Spectro-UV does not warrant any instrument that has been subjected to misuse, negligence or accident, or has been repaired or altered by anyone other than Spectro-UV.*

*This warranty is in place of all other warranties of quality. There are no other warranties either oral, written, express, implied or statutory. IMPLIED WARRANTIES OF FITNESS FOR PURPOSE AND MERCHANTABILITY ARE EXCLUDED. This warranty and your remedies thereunder are solely as stated in this form. In no event shall Spectro-UV be liable for special, indirect, incidental or consequential damages, nor for any damages arising out of delay in shipment or production.*



**SPECTRO-UV**

[www.Spectro-UV.com](http://www.Spectro-UV.com)

4 Dubon Ct., Farmingdale, NY 11735  
866-230-7305

DISTRIBUTED BY:

FOLLOW US:



LAB  
02/22 A05133-111  
PRINTED IN USA