



## Teky's Tips

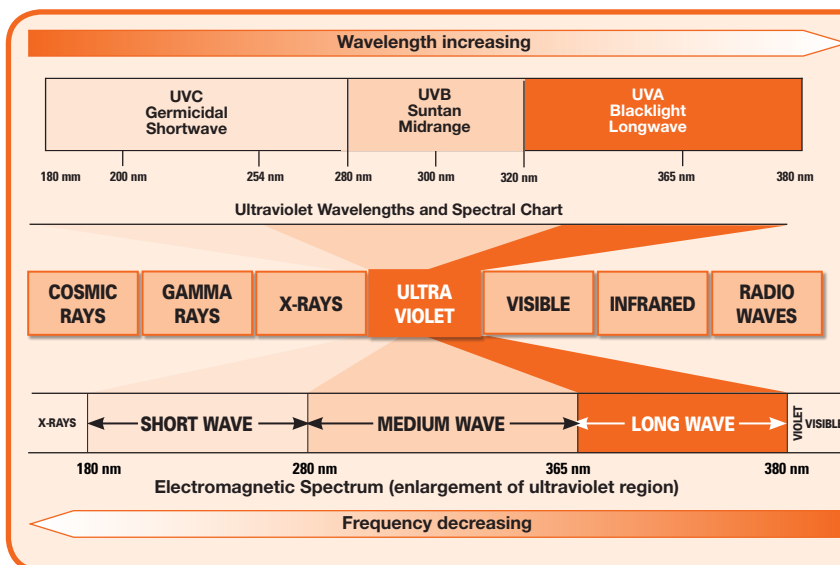
### Selecting UV Equipment

Ultraviolet light (UV) is the part of the electromagnetic spectrum that is adjacent to and greater in energy than visible light. The ultraviolet spectrum extends from 180 to 400 nm and is divided into three general categories: shortwave, midrange, and longwave. Always remember to use the correct protective gear and make special precautions when using UV equipment.

**Shortwave UV light** extends from 180 to 280 nm with a peak in energy at about 254 nm.

**Midrange UV light** extends from 280 to 320 nm with a peak in energy at about 302 nm.

**Longwave UV light**, also called "black light" or "wood light," extends from 320 to 380 nm with a peak in energy at about 365 nm.

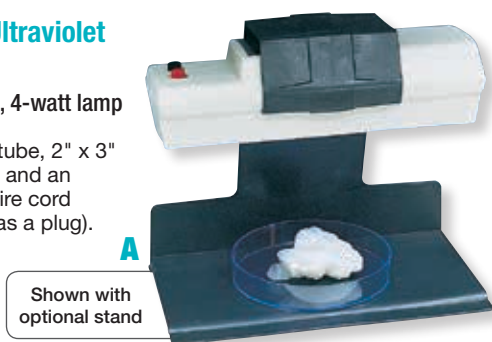


## Handheld and Portable Ultraviolet Lamps

### A. Shortwave Ultraviolet Lamp

– Compact 254 nm, 4-watt lamp

**What's included:** tube, 2" x 3" (5.1 x 7.6 cm) filter and an 8-ft (2.4 m), two-wire cord (115 VAC model has a plug).

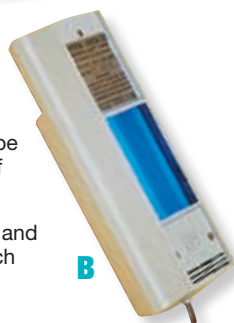


Shown with optional stand

### B. 4-Watt Short/Longwave Ultraviolet Lamp

Compact, short/longwave lamp comes with two 4-watt tubes (254 and 365 nm). Each tube produces a distinct wavelength; no mixing of primary UV ranges occurs.

**What's included:** 2" x 3" (5.1 x 7.6 cm) filter and a 7-ft (2.1 m), two-wire cord with on/off switch (115 VAC model has a plug).

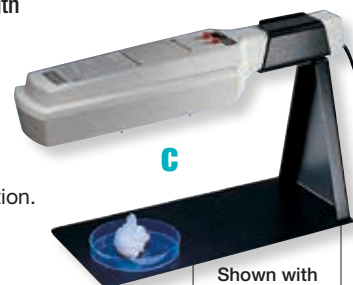


B

### C. 6-Watt, Short/Longwave Ultraviolet Lamp

- Get short or longwave ultraviolet light at the touch of a button
- Two separate tubes (254 and 365 nm) operate independently—no wavelength mixing occurs

Snap-on filter frame simplifies filter replacement. Filter measures 6" x 1¼" (15.2 x 4.4 cm). Wavelength rocker switch is conveniently located for index-finger operation. Housing is constructed of lightweight Cyclocac® plastic.

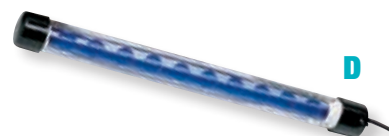


Shown with optional stand

**What's included:** 7-ft. (2.1m), two-wired cord (115 VAC model has a plug).

### D. Longwave Ultraviolet Wand

- Long, narrow design is ideal for quick reliable leak detection in tight spots or hard to reach areas



D

**What's included:** 365 nm, 15-watt tube, and a 27½-ft (8.4 m), two-wire cord with plug.

### Lamp Stands for A-C

**GY-09817-00 Lamp stand** for UV lamps 09815-02, -10 and 09817-20, -22. Holds UV light at an angle for maximum light spread. Measures 4⅞"H (12.4 cm)

**GY-09818-50 Lamp stand** for UV lamps 09818-00 and -02. Cast-aluminum base. Measures 6⅞"H (15.5 cm)



Except model 97601-00 230 VAC models

| Key | Description    | Wattage  | Wavelength (nm) | Intensity (μW/cm <sup>2</sup> ) | Dimensions (L x W x H)                   | Lamps; 115 VAC, 60 Hz       |       | Lamps; 230 VAC, 50 Hz       |       | Replacement tubes <sup>†</sup> |       | Replacement filters         |       |
|-----|----------------|----------|-----------------|---------------------------------|--|-----------------------------|-------|-----------------------------|-------|--------------------------------|-------|-----------------------------|-------|
|     |                |          |                 |                                 |  | Cat. no.                    | Price | Cat. no.                    | Price | Cat. no.                       | Price | Cat. no.                    | Price |
| A   | Shortwave      | 4 watts  | 254             | 1120 at 3"                      | 7¼" x 2¼" x 2"<br>(19.8 x 7.1 x 5.1 cm)  | <a href="#">GY-09815-10</a> |       | <a href="#">GY-09815-02</a> |       | <a href="#">GY-09815-12</a>    |       | <a href="#">GY-09815-11</a> |       |
| B   | Short/longwave | 4 watts  | 254/365         | 760/720 at 3"                   | 7¼" x 2¼" x 2"<br>(19.8 x 7.1 x 5.1 cm)  | <a href="#">GY-09817-20</a> |       | <a href="#">GY-09817-22</a> |       | <a href="#">GY-09815-12</a>    |       | <a href="#">GY-09815-11</a> |       |
| C   | Short/longwave | 6 watts  | 254/365         | 1350/1200 at 3"                 | 15" x 3½" x 2½"<br>(38.1 x 8.1 x 6.4 cm) | <a href="#">GY-09818-00</a> |       | <a href="#">GY-09818-02</a> |       | <a href="#">GY-09814-27</a>    |       | <a href="#">GY-09818-10</a> |       |
| D   | Longwave wand  | 15 watts | 365             | 350 at 6"                       | 20"L x 1½"D<br>(50.8 x 3.8 cm)           | <a href="#">GY-97601-00</a> |       | —                           | —     | <a href="#">GY-09819-10</a>    |       | —                           | —     |

<sup>†</sup>For short/longwave lamps, order one replacement tube for each wavelength.

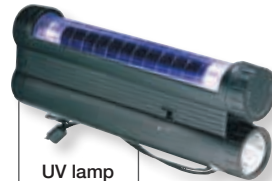
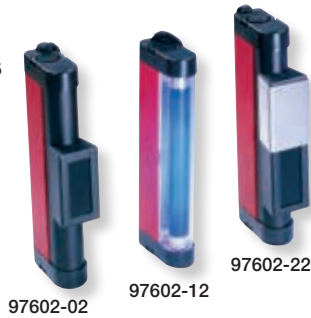
## Handheld Mini Ultraviolet Lamps

Take it with you—fits in your pocket

- Get up to 3000 hours of use

The dual-wavelength model 97602-22 has a wavelength selector for choosing 254 or 365 nm light. Dimensions 6½" x 1¾" x 1¼" (16.5 x 4.4 x 3.2 cm)

**What's included:** one 4-watt tube and a nylon strap. Order batteries separately below.



UV lamp 97602-30 features a flashlight.



| Description         | Wattage | Wavelength (nm) | Intensity (µW/cm²) | Power                         | Catalog number              | Price |
|---------------------|---------|-----------------|--------------------|-------------------------------|-----------------------------|-------|
| No flashlight       | 4 watts | 254             | 170 at 3"          | 4 AA batteries (not included) | <a href="#">GY-97602-02</a> |       |
|                     |         | 365             | 230 at 3"          |                               | <a href="#">GY-97602-12</a> |       |
|                     |         | 254/365         | 113/68 at 3"       |                               | <a href="#">GY-97602-22</a> |       |
| Flashlight included | 4 watts | 365             | 230 at 3"          |                               | <a href="#">GY-97602-30</a> |       |

[GY-09376-01](#) Batteries, AA. Pk of 4

## Ultraviolet Lamps

Works with small apertures

- Calibrate photometric and fluorometric instruments
- Ideal for primary reference or spectral source
- Last up to 5000 hours
- Feature double bore quartz tube

**Lamp Shields** are available for model 97606-00. Use to direct UV light through a point-like aperture or small window opening. Shields also protect tube from breakage.



| Wavelength (nm) | Intensity (µW/cm²)† | Dimensions (L x W x D)               | Catalog number              | Price |
|-----------------|---------------------|--------------------------------------|-----------------------------|-------|
| 365             | 145                 | 4¾" x ¾" x ¾" (12.1 x 1.0 x 1.0 cm)  | <a href="#">GY-97606-02</a> |       |
| 254             | 4400                | 4¾" x ¼" x ¾" (11.7 x 0.6 x 1.0 cm)  | <a href="#">GY-97606-00</a> |       |
| 254             | 5400                | 11½" x ¾" x ½" (29.5 x 1.0 x 1.3 cm) | <a href="#">GY-97606-08</a> |       |

| Power supplies     |                               |         |       |                                |         |       |
|--------------------|-------------------------------|---------|-------|--------------------------------|---------|-------|
| For lamp intensity | Cat. no.                      | VAC, Hz | Price | Cat. no.                       | VAC, Hz | Price |
| 145                | <a href="#">GY-97606-80</a> ‡ | 115, 60 |       | <a href="#">GY-97606-85</a> †† | 230, 50 |       |
| 4400               | <a href="#">GY-97606-80</a> ‡ |         |       | <a href="#">GY-97606-85</a> †† |         |       |
| 5400               | <a href="#">GY-97606-90</a>   |         |       | <a href="#">GY-97606-95</a> †† |         |       |

†Measured at 0.75" ‡ETL/ETLc certified ††CE certified †††Avg lamp current is 26 mA

## Cole-Parmer® Ultraviolet Lamps

Easy light source changes—just flick a switch

- Durable, extruded metal housing with a scratch-resistant powder-coat finish

Basic configuration features one UV tube and one white light tube—for added illumination in dimly lit areas. Twin-tube models use two tubes of the same wavelength for added UV intensity. Double-UV models use two tubes of different wavelengths, and triple-UV models use three tubes of different wavelengths for added flexibility.



Optional lamp stand accommodates all models for hands-free operation.



### Specifications

#### Dimensions

- 4-watt lamps: 9¾"L x 3¾"W x 2½"H (24.8 x 9.5 x 6.4 cm)
- 6-watt lamps: 12"L x 3¾"W x 2½"H (30.5 x 9.5 x 6.4 cm)
- 8-watt lamps: 14¾"L x 3¾"W x 2½"H (37.5 x 9.5 x 6.4 cm)

| Wavelength (nm)                 | Intensity† (µW/cm²) | Lamps; 115 VAC, 60 Hz       |       | Lamps; 230 VAC, 50 Hz       |       | Replacement tubes           |       |                             |                             |                             |       |                             |       |
|---------------------------------|---------------------|-----------------------------|-------|-----------------------------|-------|-----------------------------|-------|-----------------------------|-----------------------------|-----------------------------|-------|-----------------------------|-------|
|                                 |                     | Catalog number              | Price | Catalog number              | Price | 365 nm                      |       | 302 nm                      |                             | 254 nm                      |       | White light                 |       |
|                                 |                     |                             |       |                             |       | Cat. no.                    | Price | Cat. no.                    | Price                       | Cat. no.                    | Price | Cat. no.                    | Price |
| <b>4-watt ultraviolet lamps</b> |                     |                             |       |                             |       |                             |       |                             |                             |                             |       |                             |       |
| 365/white                       | 590                 | <a href="#">GY-97620-00</a> |       | <a href="#">GY-97620-01</a> |       | —                           | —     | —                           | —                           | —                           | —     | <a href="#">GY-97620-58</a> |       |
| 254/white                       |                     | <a href="#">GY-97620-02</a> |       | <a href="#">GY-97620-03</a> |       | —                           | —     | —                           | <a href="#">GY-97620-58</a> |                             |       |                             |       |
| 365/254                         |                     | <a href="#">GY-97620-08</a> |       | <a href="#">GY-97620-09</a> |       | —                           | —     | —                           | —                           |                             |       |                             |       |
| <b>6-watt ultraviolet lamps</b> |                     |                             |       |                             |       |                             |       |                             |                             |                             |       |                             |       |
| 365/white                       | 830                 | <a href="#">GY-97620-10</a> |       | <a href="#">GY-97620-11</a> |       | <a href="#">GY-09814-26</a> |       | —                           | —                           | —                           | —     | <a href="#">GY-97620-59</a> |       |
| 365/302                         | 940/880             | <a href="#">GY-97620-22</a> |       | <a href="#">GY-97620-23</a> |       | <a href="#">GY-09814-26</a> |       | <a href="#">GY-97620-53</a> |                             | —                           | —     | —                           | —     |
| 365/254                         | 940/830             | <a href="#">GY-97620-24</a> |       | <a href="#">GY-97620-25</a> |       | <a href="#">GY-09814-26</a> |       | —                           | —                           | —                           | —     | —                           | —     |
| <b>8-watt ultraviolet lamps</b> |                     |                             |       |                             |       |                             |       |                             |                             |                             |       |                             |       |
| 365/365                         | 2000                | <a href="#">GY-97620-32</a> |       | <a href="#">GY-97620-33</a> |       | <a href="#">GY-97607-52</a> |       | —                           | —                           | —                           | —     | —                           | —     |
| 302/302                         | 2000                | <a href="#">GY-97620-34</a> |       | <a href="#">GY-97620-35</a> |       | —                           | —     | <a href="#">GY-97607-51</a> |                             | —                           | —     | —                           | —     |
| 254/254                         | 2300                | <a href="#">GY-97620-36</a> |       | <a href="#">GY-97620-37</a> |       | —                           | —     | —                           | —                           | <a href="#">GY-97607-50</a> |       | —                           | —     |
| 365/302                         | 950/900             | <a href="#">GY-97620-38</a> |       | <a href="#">GY-97620-39</a> |       | <a href="#">GY-97607-52</a> |       | <a href="#">GY-97607-51</a> |                             | —                           | —     | —                           | —     |
| 365/254                         | 950/1200            | <a href="#">GY-97620-40</a> |       | <a href="#">GY-97620-41</a> |       | <a href="#">GY-97607-52</a> |       | —                           | —                           | —                           | —     | —                           | —     |
| 365/302/254                     | 950/900/1200        | <a href="#">GY-97620-42</a> |       | <a href="#">GY-97620-43</a> |       | <a href="#">GY-97607-52</a> |       | <a href="#">GY-97607-51</a> |                             | <a href="#">GY-97607-50</a> |       | —                           | —     |

†Intensity measured at 3"

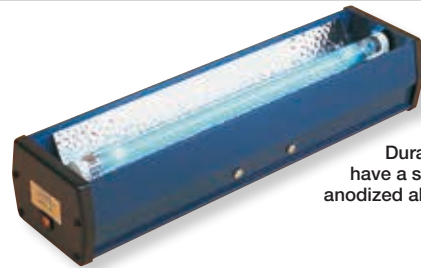
[GY-97620-65](#) Lamp stand; 13"L x 3"W x 10¼"H (33.0 x 7.6 x 27.3 cm)

[GY-97620-70](#) Mini viewing cabinet for 4-watt lamps; 9"L x 10½"W x 12"H (22.9 x 26.7 x 30.5 cm)

## Ultraviolet Equipment

### Ultraviolet Germicidal Lamps Prevent contamination affordably

- Easily destroy bacteria, molds, yeast, and viruses
- Lamps emit 254 nm shortwave UV light
- Use in labs, factories, and white rooms



Durable lamps have a shock-resistant anodized aluminum housing.

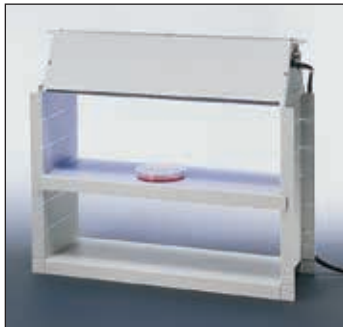
**What's included:** a 6-ft (1.8 m) cord and a plug; the 220 VAC models have a European plug.

| Intensity†<br>(µW/cm <sup>2</sup> ) | Dimensions<br>(L x W x H) | Lamps; 115 VAC, 60 Hz         |       | Lamps; 230 VAC, 50 Hz         |       | Replacement tubes              |       | Replacement filters         |       |
|-------------------------------------|---------------------------|-------------------------------|-------|-------------------------------|-------|--------------------------------|-------|-----------------------------|-------|
|                                     |                           | Cat. no.                      | Price | Cat. no.                      | Price | Cat. no.                       | Price | Cat. no.                    | Price |
| 31                                  | 20" x 5½" x 4.6"          | <a href="#">GY-97505-00</a> ‡ |       | <a href="#">GY-97505-05</a> ‡ |       | <a href="#">GY-09815-59</a>    |       | <a href="#">GY-09815-99</a> |       |
| 76                                  | (50.8 x 14.0 x 11.6 cm)   | <a href="#">GY-97505-10</a> ‡ |       | <a href="#">GY-97505-15</a> ‡ |       | <a href="#">GY-09815-59</a> †† |       |                             |       |
| 60                                  | 38" x 5½" x 4¼"           | <a href="#">GY-97505-20</a>   |       | <a href="#">GY-97505-25</a>   |       | <a href="#">GY-97505-80</a>    |       | <a href="#">GY-97505-90</a> |       |
| 152                                 | (96.5 x 14.0 x 10.8 cm)   | <a href="#">GY-97505-30</a>   |       | <a href="#">GY-97505-35</a>   |       | <a href="#">GY-97505-80</a> †† |       |                             |       |

†Intensity is measured at 6½ feet

‡Lamps include fixation bracket

††Order two replacement tubes



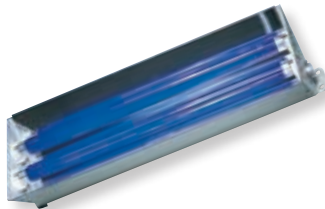
Shown with optional exposure stand 97605-80. Shelf is adjustable to vary distance from the UV source.

### Ultraviolet Bench Lamps Get reliable sterilization and inspection

- 365-nm models are ideal for fluorescence and inspection applications
- 254-nm models provide an effective tool for sterilization and sanitation control

The 365-nm models have self-filtering, low pressure "black light" tubes that stay cool for a longer period of time than conventional UV tubes, making them ideal for nondestructive testing. Highly polished inner aluminum deflector provides maximum UV reflectance. The 15-watt models are designed for flooding an area of 15 ft<sup>2</sup> (1.4 m<sup>2</sup>) at 20" (50.8 cm); the 40-watt models flood an area of 300 ft<sup>2</sup> (27.8 m<sup>2</sup>) at 12 ft (3.6 m).

**What's included:** two tubes; brackets for wall or ceiling mounting; and a 7-ft (2.1 m), three-wire cord (115 VAC model comes with three-prong plug).



| Wattage  | Wavelength (nm) | Dimensions (W x H x D)   | Lamps; 115 VAC, 60 Hz       |       | Lamps; 230 VAC, 50 Hz       |       | Replacement tubes           |       |
|----------|-----------------|--------------------------|-----------------------------|-------|-----------------------------|-------|-----------------------------|-------|
|          |                 |                          | Cat. no.                    | Price | Cat. no.                    | Price | Cat. no.                    | Price |
| 15 watts | 254             | 19¾" x 4½" x 6"          | <a href="#">GY-97605-00</a> |       | <a href="#">GY-97605-05</a> |       | <a href="#">GY-97605-50</a> |       |
|          | 365             | (50.2 x 10.8 x 15.2 cm)  | <a href="#">GY-97605-10</a> |       | <a href="#">GY-97605-15</a> |       | <a href="#">GY-09819-10</a> |       |
| 20 watts | 254             | 24" x 4¼" x 6"           | <a href="#">GY-97615-00</a> |       | <a href="#">GY-97615-05</a> |       | <a href="#">GY-97615-50</a> |       |
|          | 365             | (61.0 x 10.8 x 15.2 cm)  | <a href="#">GY-97615-10</a> |       | <a href="#">GY-97615-15</a> |       | <a href="#">GY-97615-51</a> |       |
| 40 watts | 254             | 51¾" x 6½" x 5"          | <a href="#">GY-97605-30</a> |       | <a href="#">GY-97605-35</a> |       | <a href="#">GY-97605-54</a> |       |
|          | 365             | (131.4 x 16.5 x 12.7 cm) | <a href="#">GY-97605-40</a> |       | <a href="#">GY-97605-45</a> |       | <a href="#">GY-97605-52</a> |       |

**GY-97605-80 Exposure stand** for 15-watt bench lamps. One adjustable shelf. Measures 20"W x 13"H x 6"D (50.8 x 33.0 x 15.2 cm)

### High-Intensity Longwave Ultraviolet Lamps Goes where you need it—head detaches from base

These high-intensity lamps produce 365 nm UV light. Lamp head rotates 360° in its transformer base. A filter minimizes white light interference allowing you to easily detect weak fluorescence.

**What's included:** 100-watt spot bulb provides a 7° beam width. Models 97600-00 and -05 are ETL/ETLc approved with an 8-ft (2.4 m) cord from lamp to transformer and 8-ft (2.4 m) power-line cord. Models 97600-10 and -15 have a 20-ft (6-m) cord from lamp to transformer and a 20-ft (6-m) power-line cord. The 115 VAC models have a three-prong plug; the 230 VAC models have stripped ends.



Lamp



Exposure box

#### Specifications

Filter life: 5000 hours    Spot bulb life: 5000 hours    Flood bulb life: 2000 hours



97600-00, -05 only

| Wattage   | Wavelength (nm) | Intensity (µW/cm <sup>2</sup> ) | Dimensions (W x H x D)                             | Cord ft (m)       | 115 VAC, 60 Hz              |       | 230 VAC, 50 Hz              |       |
|-----------|-----------------|---------------------------------|--|-------------------|-----------------------------|-------|-----------------------------|-------|
|           |                 |                                 |  |                   | Cat. no.                    | Price | Cat. no.                    | Price |
| 100 watts | 365             | 21,000 at 2",<br>8,900 at 10"   | 5½" x 15½" x 13½" x 16"<br>(13.5 x 39.4 x 35.1 cm) | 8 (2.4)<br>20 (6) | <a href="#">GY-97600-00</a> |       | <a href="#">GY-97600-05</a> |       |
|           |                 |                                 |  |                   | <a href="#">GY-97600-10</a> |       | <a href="#">GY-97600-15</a> |       |

[GY-09819-27](#) Lamp funnel directs light

[GY-09819-28](#) Lamp visor shields eyes

[GY-09819-29](#) Exposure box exposes samples to direct UV source

[GY-09819-23](#) Replacement filter

[GY-09819-24](#) Replacement bulb, 7° beam width

## Cole-Parmer® Ultraviolet Viewing Cabinets

### Get uniform UV illumination for optimal viewing

- Stay comfortable with soft rubber viewport viewing area
- Removable bottom panel allows cabinet to be placed over large samples or a transilluminator
- Block out ambient light with lightweight access curtain
- Protect your eyes with contrast control filter

**A. Customizable Viewing Cabinet** is designed to accommodate one or two 8-watt lamps from page 1031. Lamps plug directly into the cabinet housing as needed and can be removed for handheld use. Using two lamps provides uniform illumination from two sides of the cabinet. Cabinet features interior overhead white light, included with unit, for basic sample illumination.

**B. High-Performance Viewing Cabinets** feature high-intensity 15-watt UV tubes. Control switches, for selecting UV or white light, are conveniently located on the top of cabinet. Models 97621-10 and -15 feature two each of shortwave and longwave UV tubes mounted on one side of the cabinet. Models 97621-20 and -25 have four longwave UV tubes mounted on one side. Models 97621-30 and -35 have two shortwave and two longwave tubes mounted on two sides.

| Wattage                                     | Wavelength (nm)  | Intensity (µW/cm²) | Dimensions (W x H x D)                   | Cabinets; 115 VAC, 60 Hz    |       | Cabinets; 230 VAC, 50 Hz    |       |
|---|------------------|--------------------|--|-----------------------------|-------|-----------------------------|-------|
|   |                  |                    |  | Catalog number              | Price | Catalog number              | Price |
| <b>A. Customizable viewing cabinet</b>      |                  |                    |  |                             |       |                             |       |
| 2 x 8 watts                                 | Depends on lamps |                    | 19¾" x 15¾" x 16½" (50.2 x 40 x 41.9 cm) | <a href="#">GY-97621-00</a> |       | <a href="#">GY-97621-05</a> |       |
| <b>B. High-performance viewing cabinets</b> |                  |                    |  |                             |       |                             |       |
| 4 x 15 watts                                | 254/365          | 1200/950           | 23¾" x 13" x 15¾" (59.4 x 33 x 40 cm)    | <a href="#">GY-97621-10</a> |       | <a href="#">GY-97621-15</a> |       |
|   | 365              | 2000               | 23¾" x 13" x 15¾" (59.4 x 33 x 40 cm)    | <a href="#">GY-97621-20</a> |       | <a href="#">GY-97621-25</a> |       |
|   | 254/365          | 1200/950           | 19½" x 15¾" x 16½" (49.5 x 40 x 41.9 cm) | <a href="#">GY-97621-30</a> |       | <a href="#">GY-97621-35</a> |       |

[GY-97605-50](#) Replacement tube; 15 watts, 254 nm

[GY-97621-45](#) Replacement tube; 15 watts, 365 nm



97621-00



97621-10



97621-30

## Imaging Systems

### No need for a computer—save images to USB drive

- Select from 2 camera Megapixel options
- 8" (20.3 cm) LCD screen for optimal viewing

BioDoc-It imaging systems provide low-cost, high-quality gel documentation and archiving capability—ideal for imaging DNA, RNA, and protein gels. These systems allow you to preview live images and adjust for oversaturation of images through a monochrome CCD camera and zoom lens.

Order optional Doc-It LS software to analyze images. The front access door on all models allows easy access to the interior.



BioDoc-It with camera and side access doors

### Specifications

**CCD camera:** monochrome      **Emission filter:** ethidium bromide  
**Lens:** 8 to 48 mm zoom

| Filter wavelength | Power   | 0.3 Mpx camera model        |       | 1.3 Mpx camera model        |       |
|-------------------|---------|-----------------------------|-------|-----------------------------|-------|
|                   |         | Cat. no.                    | Price | Cat. no.                    | Price |
| 302 nm            | 115 VAC | <a href="#">GY-97701-70</a> |       | <a href="#">GY-97701-82</a> |       |
|                   | 230 VAC | <a href="#">GY-97701-72</a> |       | <a href="#">GY-97701-84</a> |       |
| 302/365 nm        | 115 VAC | <a href="#">GY-97701-74</a> |       | <a href="#">GY-97701-86</a> |       |
|                   | 230 VAC | <a href="#">GY-97701-76</a> |       | <a href="#">GY-97701-88</a> |       |
| 254/302/365 nm    | 115 VAC | <a href="#">GY-97701-78</a> |       | <a href="#">GY-97701-90</a> |       |
|                   | 230 VAC | <a href="#">GY-97701-80</a> |       | <a href="#">GY-97701-92</a> |       |

[GY-97601-54](#) Thermal printer, 115 VAC

[GY-97701-52](#) Replacement thermal paper. Pack of 4 rolls

[GY-97701-62](#) Doc-It LS analysis software

## Cole-Parmer® Digital Ultraviolet Intensity Meter

### Customizable with interchangeable sensors

- Monitor the useful life of any UV light source by measuring lamp irradiance
- Select three intensity ranges: 0 to 20 mW/cm², 0 to 2000 µW/cm², and 0 to 200 µW/cm²
- Optional 10:1 attenuator extends the reading range up to 200 mW/cm²

All sensors come calibrated, and are ±5% accurate. Sensors are not included; order separately below.



| Accuracy | Sensor accuracy | Power                      | Cat. no.                    | Price |
|----------|-----------------|----------------------------|-----------------------------|-------|
| ±2%      | ±5%             | 9 V battery (not included) | <a href="#">GY-97651-10</a> |       |

### Sensors

| Wavelength | Catalog number              | Price |
|------------|-----------------------------|-------|
| 254 nm     | <a href="#">GY-97561-20</a> |       |
| 365 nm     | <a href="#">GY-97651-22</a> |       |
| 302 nm     | <a href="#">GY-97651-24</a> |       |

[GY-97651-26](#) Attenuator, 10:1


[GY-09376-04](#) Replacement batteries, 9 V. Pack of 4

# Ultraviolet Equipment

## Radiometers and Sensors

### Easy data collection in a compact unit

- Automatic unit conversion with a push of a button
- Save time with the quick integration of various sensors
- Radiometers even measure humidity and temperature
- Easy logging of minimum, average, and maximum values at the push of a single button
- Download into computer and graph results with the included software
- Choose the correct radiometer and order sensors below



**REQUIRED System Components**

- 1) Radiometer
- 2) Sensor

### 1. Radiometers

**Single-Input Radiometer** can be used with any one of the sensors below. Features built-in radiometric capability and dose integration.

**Dual-Input Data logging Radiometer** accepts two inputs to measure two samples simultaneously. Stores up to 1024 readings. Each reading includes date, time, sensor type, and serial number for data tracking. Set independent alarms for the instantaneous value or integrated dose for each detector. The alarm settings are stored in the detector and automatically recalled when the detector is in use.

**What's included:** Model 97650-02 includes four AA batteries. Model 97650-00 includes a UL-listed 6-ft (1.8-m), two-wire AC adapter/ charger (90 to 265 VAC), RS-232 cable, batteries, and a carrying case. Sensors are not included; order sensors separately. NIST-traceable calibration report supplied by the manufacturer.



Single-input radiometer 97650-02 shown with sensor 97650-54

Dual-input radiometer 97650-00 shown with sensor 97650-50



| Inputs | Data logging                     | Power                                      | Catalog number              | Price |
|--------|----------------------------------|--|-----------------------------|-------|
| 1      | No                               | 4 AA batteries                             | <a href="#">GY-97650-02</a> |       |
| 2      | 1 minute to 2 hours <sup>†</sup> | 4 AA batteries, AC/DC charger <sup>‡</sup> | <a href="#">GY-97650-00</a> |       |

<sup>†</sup>User-set intervals between the range of 1 minute to 2 hours. <sup>‡</sup>9 to 12 V AC/DC charger

### 2. Interchangeable Sensors

- All sensors are submersible to three feet

**UV Sensors** give accurate measurement of either UVA or UVB radiation. The UVC germicidal sensor provides an accurate reading of the ultraviolet radiation from a UVC germicidal lamp. The UV radiation safety sensor measures UV radiation and indicates the level at which it is unsafe by the standards of the American Conference of Governmental Industrial Hygienists (ACGIH).

**Visible Light Sensors** measure light intensity below 0.01 lux. The PAR sensor measures photosynthetic active radiation. The blue light hazard sensor measures the blue light (near UV) radiation hazard to eyes.

**Humidity/Temperature/Dew Point Sensor** measures relative humidity, ambient temperature, and dew point.

**What's included:** NIST-traceable calibration report supplied by the manufacturer.

| Description                                      | Spectral response | Range  | Resolution  | Catalog number              | Price |
|--|-------------------|--|---|-----------------------------|-------|
| <b>UV sensors</b>                                |                   |  |   |                             |       |
| UVA  | 320 to 400 nm     | 200 mW/cm <sup>2</sup><br>2000 W/m <sup>2</sup>      | 0.001 mW/cm <sup>2</sup><br>0.01 W/m <sup>2</sup> | <a href="#">GY-97650-52</a> |       |
| UVB  | 280 to 340 nm     | 200 MED <sup>††</sup> /hr<br>1160 µW/cm <sup>2</sup> | 0.001 MED/hr<br>0.01 µW/cm <sup>2</sup>           | <a href="#">GY-97650-50</a> |       |
| UVC/germicidal                                   | 249 to 261 nm     | 2000 µW/cm <sup>2</sup><br>20,000 mW/m <sup>2</sup>  | 0.01 µW/cm <sup>2</sup><br>0.1 mW/cm <sup>2</sup> | <a href="#">GY-97650-61</a> |       |
| UV radiation <sup>†††</sup>                      | 200 to 400 nm     | 1000 µW/cm <sup>2</sup><br>10,000 mW/m <sup>2</sup>  | 0.01 µW/cm <sup>2</sup><br>0.1 mW/m <sup>2</sup>  | <a href="#">GY-97650-59</a> |       |
| <b>Visible sensors</b>                           |                   |  |   |                             |       |
| Visible photopic                                 | 380 to 780 nm     | 150,000 lux<br>220 W/m <sup>2</sup>                  | 1 lux<br>0.001 W/m <sup>2</sup>                   | <a href="#">GY-97650-54</a> |       |
| PAR  | 400 to 700 nm     | 20,000 µE/s/m <sup>2</sup>                           | 0.1 µE/s/m <sup>2</sup>                           | <a href="#">GY-97650-56</a> |       |
| Blue light safety                                | 400 to 520 nm     | 2000 µW/cm <sup>2</sup><br>20,000 mW/m <sup>2</sup>  | 0.01 µW/cm <sup>2</sup><br>0.1 mW/cm <sup>2</sup> | <a href="#">GY-97650-60</a> |       |
| <b>Humidity / temperature / dew point sensor</b> |                   |  |   |                             |       |
| Humidity/temp/dew point <sup>†††</sup>           | —                 | 0 to 100% RH   | 0.1% RH   | <a href="#">GY-97650-58</a> |       |

<sup>††</sup>These are minimal erythral doses.  
<sup>†††</sup>Measures duration of exposure prior to TLV proposed by the ACGIH.  
<sup>††††</sup>Not applicable to NIST traceability. Converts values to dew point.