

# UV INSTRUMENTS





## Protect Yourself

UV radiation is dangerous for unprotected eyes and skin. Users must protect themselves against UV radiation by wearing glasses or face shields. The MP-80 is recommended for protection of the eye and the face. The MP-800 is a face shield with two lateral protections to cover the operator's ears in addition to its eyes and face. Comfortable and efficient, the LP-70 glasses provide total protection to the eyes.

#### Electromagnetic Spectrum (Enlargement Of Ultraviolet Region)

| Cosmic Rays | Gamma Rays | X-Rays     | Ultraviolet     | Visible  | Infra Red   | Radio Waves    |
|-------------|------------|------------|-----------------|----------|-------------|----------------|
|             |            |            | Ļ               |          |             |                |
| X-Ray       | Short Wave |            | Medium Wave ——— | Lor      | ng Wave 🛛 🕨 | Violet Visible |
| ا<br>180nr  | m          | ا<br>280nm | 32              | l<br>Onm | <br>380r    | ım             |

## VILBER's UV Master Technology™

VILBER is the UV fluorescence expert since 1951. Our own UV lamps emit highly concentrated UV radiation. This output is reinforced with the use of our exclusive Ondulex<sup>™</sup> reflector, especially polished to reflect the maximum of the light to the outside. Combined with our innovative range of special UV filters, our unique fluorescence sources dramatically improve the quality of gel visualization, documentation and create unrivaled application capabilities.



VILBER has been approved for registration to ISO 9001:2015. This is an indication of VILBER's commitment towards continuous process improvements and adopting the best practices to consistently exceed customer expectations. An independent registrar ensures that ISO standards are consistently met from year to year and conducts periodic surveillance audits. With several years of ISO compliance and experience, VILBER is proud of its achievement, but never satisfied.



UV TUBES



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HIGH UV RADIATION Thanks to our special lamp glass filters and coating.



LONG LIFETIME Thousands hours of light.



UNIQUE ELECTRODE Technology for enhanced reliability.



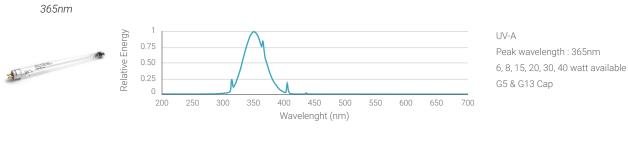
**CONSTANT UV SPECTRUM** Over the complete lifetime.

## About UV Tubes

Our original UV tubes emit highly concentrated UV radiation. They use a special ultraviolet ray glass which efficiency transmits the ultraviolet rays. Ultraviolet is located at shorter wavelengths compared to visible light radiation and produces high energy potential

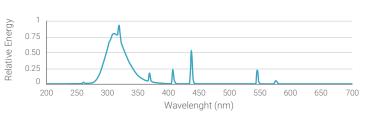
#### TUBES - 6W TO 40W

| Model  | Wavelenght (nm) | Lenght (mm) |
|--------|-----------------|-------------|
| T-40.L | 365             | 1197        |
| T-40.M | 312             | 1197        |
| T-40.C | 254             | 1197        |
| T-30.L | 365             | 892         |
| T-30.C | 254             | 892         |
| T-20.L | 365             | 586         |
| T-20.C | 254             | 586         |
| T-15.L | 365             | 435         |
| T-15.M | 312             | 435         |
| T-15.C | 254             | 435         |
| T-8.L  | 365             | 288         |
| T-8.M  | 312             | 288         |
| T-8.C  | 254             | 288         |
| T-6.L  | 365             | 211         |
| T-6.C  | 254             | 211         |



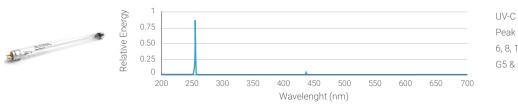
312nm





UV-B Peak wavelength : 312nm 8, 15, 40 watt available G5 & G13 Cap





0V-C Peak wavelength : 254nm 6, 8, 15, 20, 30, 40 watt available G5 & G13 Cap



# UV LAMPS



**TECHNOLOGY** Highly concentrated UV radiations.



EASY TO HANDLE Lamp stand or holder to add versatility.



LONG LIFETIME Anodized aluminum housing.



ONDULEX REFLECTOR Reflect the maximum UV output.

## About UV Lamps

Our large choice of filtered and unfiltered lamps range from 6 to 3×40 w-watt. Our filtered lamps are ideal for the fluorescence detection. The BL-Black-Light lamps provide a large light spectrum with 365nm UV and visible light. The UV germicidal 254nm lamps help to prevent contamination in research laboratories.

### Lamps 6W - Filtered

| Model   | Wavelength (nm) | Filter Size (mm) | Power (W) | Туре            |
|---------|-----------------|------------------|-----------|-----------------|
| VL-6.LC | 365 / 254       | 145 x 48         | 2 x 6     | UV Fluorescence |
| VL-6.L  | 365             | 145 x 48         | 1 x 6     | UV Fluorescence |
| VL-6.C  | 254             | 145 x 48         | 1 x 6     | UV Fluorescence |

### Lamps 6W - Unfiltered

| Model     | Wavelength (nm) | Filter Size (mm) | Power (W) | Туре        |
|-----------|-----------------|------------------|-----------|-------------|
| VL-206.BL | 365             | No Filter        | 2 x 6     | Black Light |
| VL-206.G  | 254             | No Filter        | 2 x 6     | Germicidal  |

### Lamps 15W - Filtered

| Model    | Wavelength (nm) | Filter Size (mm) | Power (W) | Туре            |
|----------|-----------------|------------------|-----------|-----------------|
| VL-215.L | 365             | 295 x 76         | 2 x 15    | UV Fluorescence |
| VL-215-M | 312             | 295 x 76         | 2 x 15    | UV Fluorescence |
| VL-215-C | 254             | 295 x 76         | 2 x 15    | UV Fluorescence |
| VL-115.L | 365             | 295 x 66         | 1 x 15    | UV Fluorescence |
| VL-115-M | 312             | 295 x 66         | 1 x 15    | UV Fluorescence |
| VL-115-C | 254             | 295 x 66         | 1 x 15    | UV Fluorescence |

#### Lamps 15W - Unfiltered

| Model     | Wavelength (nm) | Filter Size (mm) | Power (W) | Туре        |
|-----------|-----------------|------------------|-----------|-------------|
| VL-315-BL | 365             | No Filter        | 3 x 15    | Black Light |
| VL-315-G  | 254             | No Filter        | 3 x 15    | Germicidal  |
| VL-215-BL | 365             | No Filter        | 2 x 15    | Black Light |
| VL-215-G  | 254             | No Filter        | 2 x 15    | Germicidal  |
| VL-115-BL | 365             | No Filter        | 1 x 15    | Black Light |
| VL-115-G  | 254             | No Filter        | 1 x 15    | Germicidal  |

#### Lamps 30W -Unfiltered

| Model     | Wavelength (nm) | Filter Size (mm) | Power (W) | Туре        |
|-----------|-----------------|------------------|-----------|-------------|
| VL-330.BL | 365             | No Filter        | 3 x 30    | Black Light |
| VL-330.G  | 254             | No Filter        | 3 x 30    | Germicidal  |
| VL-230.BL | 365             | No Filter        | 2 x 30    | Black Light |
| VL-230.G  | 254             | No Filter        | 2 x 30    | Germicidal  |
| VL-130.BL | 365             | No Filter        | 1 x 30    | Black Light |
| VL-130.G  | 254             | No Filter        | 1 x 30    | Germicidal  |

### Irradiation Surface For A Height Of About 2m

| Power (W) | 1 Tube      | 2 Tubes     | 3 Tubes     |
|-----------|-------------|-------------|-------------|
| 15        | 1.5 x 2m    | 1.5 x 3m    | 1.5 x 4m    |
| 20        | 2m x 2m     | 2m x 3m     | 2m x 4m     |
| 30        | 2.5m x 2.5m | 2.5m x 3.5m | 2.5m x 4.5m |
| 40        | 3m x 3m     | 3m x 4m     | 3m x 5m     |

#### Lamps Stands & Handlers

| Models | Туре    | Compatibility         |
|--------|---------|-----------------------|
| SVL-30 | Stand   | For VL-115 and VL-215 |
| SVL-6  | Stand   | For VL-6 and VL-8     |
| SMA    | Handle  | For VL-6 and VL-8     |
| SMU    | Bracket | For VL-6 and VL-8     |



Highly Concentrated UV Radiations

Reflect The Maximum UV Output



# UV TABLES



A CAUTION

A CAUTION

UV MASTER TECHNOLOGY Highly concentrated UV radiations.



LONG LIFETIME FILTER Unlimited life expectancy for 312 & 365nm.



STAINLESS STEEL FRAME Long lifetime and no rust.



ADJUSTABLE DUAL INTENSITY

Ideal to switch from short gel visualization to longer preparative work.

## About UV Tables

We provide first-class UV transilluminators for documentation and preparation in different dimensions and configurations. Our innovative Super-Bright filter stops all the visible light emitted by the tubes. As the UV tubes are no more visible, the Super-Bright improves dramatically the quality of gel visualization and documentation.

### Transilluminators 8W

| Model           | Wavelength (nm) | Filter Size (mm) | Power (W) | Туре           | Intensity (uW/cm <sup>2</sup> ) |
|-----------------|-----------------|------------------|-----------|----------------|---------------------------------|
| ECX-F26.MX V1   | 312             | 210 x 260        | 5 x 8     | UV SuperBright | UV SuperBright                  |
| ECX-F26.M V1    | 312             | 210 x 260        | 5 x 8     | UV             | UV                              |
| ECX-F26.C V1    | 254             | 210 x 260        | 5 x 8     | UV             | UV                              |
| ECX-F20.L V1    | 365             | 200 x 200        | 5 x 8     | UV             | UV                              |
| ECX-F20.M V1    | 312             | 200 x 200        | 5 x 8     | UV             | UV                              |
| ECX-F20.C V1    | 254             | 200 x 200        | 5 x 8     | UV             | UV                              |
| ECX-F20.BLUE V1 | -               | 200 x 200        | -         | Blue Light     | Blue Light                      |
| ECX-F20.W V1    | -               | No Filter        | 5 x 8     | White Light    | White Light                     |
| ECX-F15.M       | 312             | 150 x 150        | 4 x 8     | UV             | UV                              |
| ECX-F15.C       | 254             | 150 x 150        | 4 x 8     | UV             | UV                              |

### Transilluminators 8W - Multiband

| Model         | Wavelength (nm) | Filter Size (mm) | Power (W)     | Туре           |
|---------------|-----------------|------------------|---------------|----------------|
| TCP-26.LMX V1 | 365/312         | 210 x 260        | 4 x 8 / 5 x 8 | UV SuperBright |
| TCP-26.LC V1  | 365 / 254       | 210 x 260        | 4 x 8 / 5 x 8 | UV             |
| TCP-26.MC V1  | 312 / 254       | 210 x 260        | 4 x 8 / 5 x 8 | UV             |
| TCP-20.LM V1  | 365/312         | 200 x 200        | 4 x 8 / 5 x 8 | UV             |
| TCP-20.LC V1  | 365 / 254       | 200 x 200        | 4 x 8 / 5 x 8 | UV             |
| TCP-20.MC V1  | 312 / 254       | 200 x 200        | 4 x 8 / 5 x 8 | UV             |

#### **Conversion Screen**

| Model   | From This Wavelength (nm) | To This Wavelength (nm) | Туре        |
|---------|---------------------------|-------------------------|-------------|
| FC-26WL | 312                       | -                       | White Light |
|         |                           |                         |             |



# UV DARKROOMS



LARGE CAPACITY Ideal for small or large sample.



UV ABSORBER SHIELD Protect the user from the UV light.



COMBINATION OF UV SOURCES UVA, UVB and UVC can be combined at your convenience.



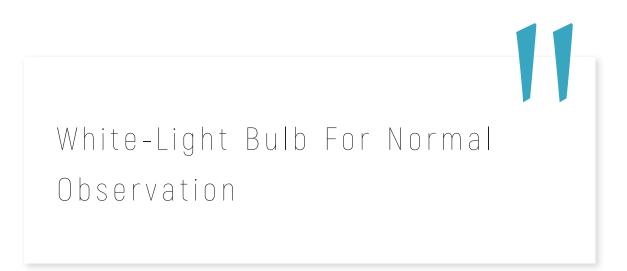
EASY ACCESS TO DARKROOM Ideal for mineralogy or TLC plate.

## About UV Darkrooms

Our UV darkrooms provide a large effective capacity and a high detection sensitivity. They could offer any combination of UV sources, simultaneously or not. The UV darkroom CN-6 is supplied without lamps and allows different lighting possibilities according to the user's choice.

#### Darkrooms - 15W

| Model              | Wavelength (nm)   | Power (W)                             | Туре                |  |  |
|--------------------|---|---------------------------------------|---------------------|--|--|
| CN-15              | Multichannel darkroom without tubes, chose betwen the set below |                                       |                     |  |  |
| Set N°1 of 4 tubes | 365/312   | 2 x 15 / 2 x 15                       | UV                  |  |  |
| Set N°2 of 4 tubes | 365 / 254   | 2 x 15 / 2 x 15                       | UV                  |  |  |
| Set N°3 of 4 tubes | 312 / 254   | 2 x 15 / 2 x 15                       | UV                  |  |  |
| Set N°4 of 4 tubes | 365   | 4 x 15                                | UV                  |  |  |
| Set N°5 of 4 tubes | 312   | 4 x 15                                | UV                  |  |  |
| Set N°6 of 4 tubes | 254   | 4 x 15                                | UV                  |  |  |
| CN-6               | Darkroom without lamp, the wavelengt                            | ns can be chosen, between 254 nm or 3 | 65 nm - VL-6 Models |  |  |







# UV RADIOMETERS



PHOTO-ELECTRIC SENSOR Direct measurement of the UV intensity.



TIME OR ENERGY MEASURE The intensity is measured in mW/

cm<sup>2</sup> and the energy in joules/cm<sup>2</sup>.



MICROPROCESSOR CONTROLLED Smart and easy to use.



#### INTERCHANGEABLE SENSOR Wavelength dependent sensors

could be used one at a time.

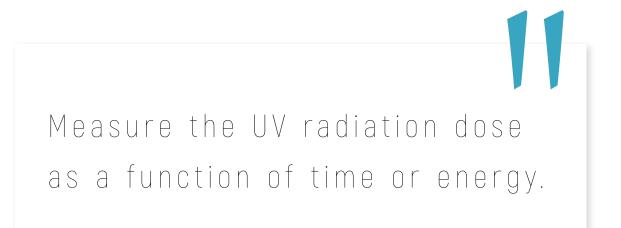
## About UV Radiometers

The radiometers measure UV light intensity for a specific wavelength (254nm, 312nm or 365nm). They are designed for an accurate and direct measurement of the UV radiation. All our radiometers use a silicon photoelectric sensor for a direct measurement of the UV intensity and thus do not convert UV into visible light.

#### Sensors

| Model      | Wavelenght (nm) | For    |
|------------|-----------------|--------|
| CX-365     | 365             | VLX-3W |
| CX-312     | 312             | VLX-3W |
| <br>CX-254 | 254             | VLX-3W |







UV BIO-LINK



• ..... • ..... • ....

TECHNOLOGY Highly concentrated UV radiations.



EASY TO HANDLE Spacious UV exposure chamber in stainless steel.



LONG LIFETIME Protective quartz disk on the UV sensor cell.



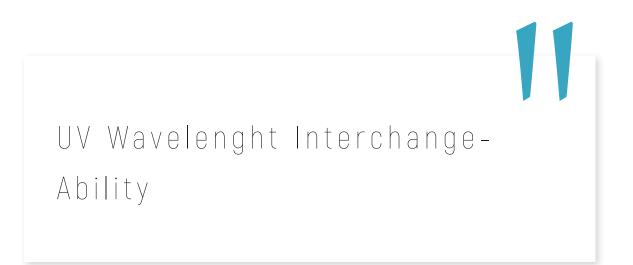
ONDULEX REFLECTOR Reflect the maximum UV output.

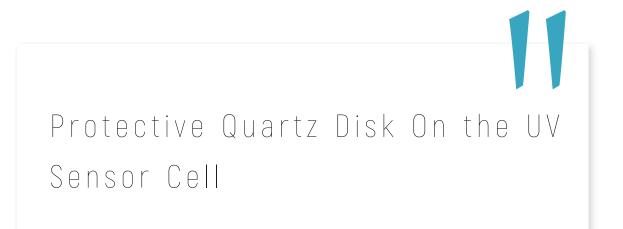
## About UV Bio-Link

The Bio-Link crosslinker is a UV irradiation system, mainly dedicated to the linking of nucleic acid to membranes and elimination of PCR contamination. Its innovative design ensures unique features.

#### Bio-Link - BLX

| Model   | Wavelength (nm) | Filter Size (mm) | Power (W) | Туре |
|---------|-----------------|------------------|-----------|------|
| BLX-254 | 254             | 505 x 415 x 280  | 6 x 6     | UV   |
| BLX-312 | 312             | 505 x 415 x 280  | 6 x 6     | UV   |
| BLX-365 | 365             | 505 x 415 x 280  | 6 x 6     | UV   |







UV

**BIO-SUN** 

UV MASTER TECHNOLOGY

Highly concentrated UV radiations.



EASY TO HANDLE Spacious UV exposure chamber in stainless steel.



LONG LIFETIME Protective quartz disk on the UV sensor cell.



ONDULEX REFLECTOR Reflect the maximum UV output.

## About UV Bio-Sun

The BioSun is a complete, microprocessor controlled UV irradiation system designed for Petri dishes or micro-plates. Based on a programmable microprocessor, the system constantly monitors the UV light emission. The irradiation stops automatically when the energy received matches the programmed energy. Thanks to its advanced UV sensors, the irradiation cycles are perfectly reproducible, regardless of the intensity fluctuation of the UV source. Just program your energy and Bio-Sun delivers it!

#### FLEXIBILITY

- UVA, UVB or UVA & UVB irradiation
- UVC 254nm germicidal lamps fo tray sterilisation
- Silicon photoelectric sensor for direct measurement of the UV intensity

#### PERFORMANCE

- Scientific grade UV Irradiation sytsem
- Perfectly reproducible UV irradiation cycles
- Highly homogeneous UVA and UVB sources (312 and 365nm)



#### **MULTI-APPLICATIONS**

- Data acquisition controlled by micro-processor
- Constant monitoring of the received energy versus the programmed energy  $\mathsf{T}$
- Temperature, UV intensity, and time passed supervision

#### **EASY & INTUITIVE**

- Powerful cooling system
- Optional software connection for data monitoring and recording
- · Fantastic ease of use and maintenance





#### **HEADQUARTERS**

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h.att