Cole-Parmer®

Ultraviolet Hand Lamps

Operating Manual

DOMINIQUE DUTSCHER SAS



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CE

DANGER

This product generates ultraviolet radiation. Avoid exposure. Exposure of your skin to ultraviolet radiation may cause allergic reactions, premature aging of the skin and cancer. Always wear protective clothing and eyewear. Never look directly into the UV lamps. Failure to do so may result in severe burns or long term injury to eyes. A protective shield must be used if no other protective means are implemented. Make sure all persons in the area are also properly protected. If you are under medication or have a history of skin problems please consult a physician before operating the unit.

WARNING

Please read the manual carefully before operating the product. Use the product according to the instructions otherwise the protection provided by the product may be impaired.

ATTENTION:

ULTRAVIOLET RADIATION IS HARMFUL TO THE HUMAN BODY!

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Function

These UV Hand Lamps provide UV radiation with wave lengths of 365 nm, 254 nm, or a combination of 254 nm and 365 nm. They are used for detecting nucleic acids stained with fluorescent dyes such as ethidium bromide and acridine orange. These UV Hand Lamps may be used to detect nucleic acids in several fields including molecular biology, biochemistry, medical and forensic examinations and biological preparations including observing fluorescence.

Packing List

Description	Quantity	Remark
UV Lamp	1	
Operating Manual	1	
Fuse (5 x 20 mm, 250 V, F1A)	1	For AC Operated Models
Charger	1	For Lithium Battery Operated Models

Features and Specifications

- High UV intensity, reliable components
- Portable, lightweight design
- Single or dual wavelength
- Choice of corded or rechargeable* units
- Automatic safety switch to prevent harmful UV radiation exposure if unit is turned upside down
- UV window size: 5.9" x 2" (150 x 50 mm)
- Outside dimensions: 16.3" x 3.5" x 2.4" (415 x 88 x 60 mm)

* The rechargeable unit uses 12 V rechargeable batteries and comes with a charger (100-240 VAC, 50/60 Hz). When the battery is fully charged, the unit can sustain about 3 hours continuous use or approximately 500 intermittent uses. The battery will have sufficient power to operate when the indicator light is green. The battery will need to be recharged if the indicator light is yellow. It will take approximately 4 hours to get a completely drained battery fully charged.

Operating Instructions



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Operating Instructions

1. Connecting Power Supply

Refer to Specifications on page 6.

2. Turn ON the Unit

For Models with Single wavelength: Press power switch to position “I”.

For Models with Dual Wavelength: Select desired wavelength by pressing the select switch at right. Press power switch to position “I”.

Note: The intensity of the radiation might be weak initially while the lamp tube is cold.

3. Turn Off

Press power switch to position “O”.

4. Charging Battery for 12 VDC Models

Each 12 VDC operated model contains a lithium battery pack. The battery needs to be charged when the yellow status light is on. Please use the charger which comes with the product.

Care and Maintenance

The servicing instructions here are intended for limited maintenance. Do not perform any servicing other than that contained in the instructions. Return product to factory for maintenance not covered in this section. Maintenance should only be undertaken by a qualified electrician

WARNING

Always unplug the product from its power source before cleaning or servicing.

1. Housing and Filter Maintenance

The plastic housing is designed for protecting the internal parts and facilitates handling. Make sure no liquids come into contact with the electrical components. Clean the filter with a glass cleaner and soft cloth.

2. Tube and Reflector Maintenance

Refer to the following instruction in the “Tube Replacement” section below and remove tubes before cleaning. Glass cleaner may be used for cleaning the reflector and a mild detergent may be used for cleaning the tube. Wipe and dry with soft cloth.

3. Tube Replacement (tube type TUV 6W)

When the product fails to operate correctly, check with above operating instructions first. If the problem persists and tube replacement is deemed necessary, proceed as follows:

1. Turn the power switch to OFF position and unplug the power cable from electrical outlet.
2. Lay the UV lamp housing on a flat table.
3. Remove the 8 screws at the filter’s side of the plastic housing. Separate the top and bottom housing parts.

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4. Hold the tube's metal parts at tube's two ends and rotate the tube gently until the electrode is out from the socket.
5. Take a new tube and hold metal parts at the ends of the tube. Press the tube's one electrode at each end to the base and turn tube gently until it is set firmly into the base.
6. Replace the top and bottom plastic housing parts together by refastening the 8 screws.
7. Test the new tubes by turning the power ON.
8. If the lamp still does not emit UV radiation, check the electrodes of the tube and make sure they are properly connected with the two copper contacts in each socket.



4. Fuse Replacement

1. Carry out steps #1 through 3 under "Tube Replacement".
2. Remove the fuse from its holder and put it in the new fuse (5 x 20 mm, 250 V, F1A).
3. Finish the procedure by following step #6 under "Tube Replacement".

5. Care and Maintenance for Battery

The following care and maintenance is only for models with rechargeable batteries.

1. The battery charger comes with the unit. It works with AC 100-240 V, 50/60 Hz.
2. It takes up to 4 hours to recharge the lithium battery completely.
3. The battery charger and lithium battery system in these models have a built-in self-protection system to prevent fire and other hazards. Battery replacement has to be done by a trained technician.
4. Improper use and treatment such as burning or heating over 212°F (100°C) may cause fire or other hazards.
5. Handle dead batteries properly. Do not disassemble.

6. Environmental Conditions

The following conditions are safe for operation.

1. Indoor use
2. Operating altitude not to exceed 6561 feet (2000 meters) above sea level
3. Temperature: 41 to 104°F (5 to 40°C)
4. Maximum humidity: 80% at 86°F (30°C) or below, 40% at 104°F (40°C)
5. The voltage fluctuation of power supply is less then -/+ 10%

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Specifications

AC Operated Models					Wave-length	Number of UV Tubes	
AC 110 V, 50/60 Hz, 0.3 A		AC 220 V, 50/60 Hz, 0.3 A					
Plug	US	Europe	UK	SA		**UV-A**	**UV-C**
	09818-05	09818-43	09818-33	09818-36	UV-C		2
	09818-06	09818-31	09818-34	09818-37	UV-A	2	
	09818-07	09818-44	09818-35	09818-38	UV-A & UV-C	1	1

Specifications

Lithium Battery Operated Models with DC 12 V 0.3 A			Wavelength	Number of UV Tubes	
Plug	US	Universal		**UV-A**	**UV-C**
Regular Battery Operated Models	09818-12	09818-27	UV-C		2
	09818-13	09818-28	UV-A	2	
	09818-14	09818-29	UV-A & UV-C	1	1
Models with Automatic Safety Switch	09818-08	09818-24	UV-C		2
	09818-09	09818-25	UV-A	2	
	09818-11	09818-26	UV-A & UV-C	1	1

Long wave (UV-A): 365 nm

Short wave (UV-C): 254 nm

All models come with a window size of 5.9" x 2" (150 x 50 mm).

All models are CE marked.

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Warranty Information

UV Hand Lamp: **1 Year Warranty**

UV Hand Lamp is warranted to be free of defects in materials and workmanship for 12 months from the date of purchase, providing:

- The user ensures that it has been carefully cleaned and decontaminated before returning.
- The unit has been operated according to the instructions and not in any improper way.
- The unit has not been damaged due to negligence, accident or used under abnormal conditions.
- Normal wear and tear of unit.

In order to qualify for the warranty repair; the customer must submit all warranty information required to validate proof of purchase.
Visit **coleparmer.com/product-warranty-registration** to submit information.

Should warranty service be required, repair or replacement will be provided by Cole-Parmer without charge. Freight to ship the unit to Cole-Parmer will be the responsibility of the purchaser. There are no other warranties or guarantees, implied or otherwise expressed including any warranties of application or merchantability.

In no event will this warranty obligation exceed price of product. This includes liability claims of loss of use, lost profits or any exemplary or punitive damages.

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1065Y16ML.2_UV_lamps
Rev 3