



**UV-TRANSILLUMINATOR**  
**MUV-2020-254/312/365**  
**OPERATION MANUAL**



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**M.R.C LTD.**

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## 1. Introduction

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The benchtop UV transilluminators offer the researcher uniform and intense sources of ultraviolet light (radiation) in a compact package. Their special design emits either one or two intensity excitation UV wavelengths for back-illumination of transparent fluorescent materials.

Key feature for the benchtop UV transilluminators is they can be easily view gels under long wave for extended periods of time avoiding photo nicking damage. Short wave is used to irradiate samples. 2UV models provide long wave and short wave UV. All Benchtop Transilluminator models are compact, lightweight and economical units.

## 2. Safety Information

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Caution: All benchtop Transilluminators are powerful sources of UV radiation that will cause damage to unprotected eyes and skin. Before operating any unit, be sure all personnel in the area are properly protected. It is preferable that the transilluminator be installed and operated in a darkroom where access and exposure is limited while the unit is in operation. Each transilluminator is shipped a UV Blocking Cover. Even though this cover blocks the ultraviolet radiation emitted by the unit, UV Blocking Eyewear should be worn as wells.

## 3. Specifications

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Model	Nominal Volt	Wavelength	Filter Size	No. of Tubes	Intensity Style
MUV2020-254	110 / 220V	254 nm	20 x 20 cm	6 x 8W	70 / 100
MUV2020-312	110 / 220V	312 nm	20 x 20 cm	6 x 8W	70 / 100
MUV2020-365	110 / 220V	365 nm	20 x 20 cm	6 x 8W	70 / 100
MUV-2020-254/365	110 / 220V	254 & 365 nm	20 x 20 cm	6 x 8W	70 / 100

## 4. Transilluminator Operation

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Place the transilluminator on a level work surface. Be sure that an air space exists

around the bottom of the work surface. This space allows for the proper air circulation through the unit.

Plug female end of the power cord into transilluminator and plug the male end of the power cord into a properly grounded electrical outlet. The proper voltage of the transilluminator is found on the product information label.

The transilluminator comes equipped with a UV Blocking Cover. If this cover is not in place or has been removed, do not operate the unit without securing the cover. If the cover is missing, a UV Blocking Faceshield must be worn to avoid UV exposure to the skin. UV Blocking Eyewear should be worn even with the cover in place to avoid accidental UV exposure.

Place gel/sample on the filter area. It is recommended to place the gels on a UV transmitting Gel Tray to protect filter surface from cuts and scratches. It is recommended that gloves be worn to avoid contact with gel and staining agents.

Press the ON/OFF switch to ON. The UV tubes within the unit should be glowing beneath the filter after a momentary flickering during the start-up period.

After viewing/photographing the sample, turn the unit off.

Clean unit surface with a damp soft cloth or sponge. Never use abrasive cleaners (can damage the UV filter surface).

## **5. Replacing the UV Tubes**

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- a. Disconnect the transilluminator from the electrical supply.
- b. A phillips head screwdriver is required to remove the filter cover.
- c. Carefully twist the UV tubes from their sockets.
- d. Fit with the proper replacement tubes.

## **6. Cleaning the UV Transilluminator**

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The painted surfaces and filter areas of the transilluminator should be cleaned with water, soap, and a sponge or cloth towel. Never use abrasive cleaners,

solvent based cleaners or scouring pads.

Always disconnect the transilluminator from the electrical power prior to cleaning.

## **7. Replacement Parts and Accessories**

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<b><i>Replacement Parts</i></b>	<b><i>Part Number</i></b>
8W 254 nm UV lamp	MUV-T254
8W 312 nm UV lamp	MUV-T312
8W 365 nm UV lamp	MUV-T365
20 x 20 cm filter	MUV-F
UV protected cover	MUV-C
Fuse	MUV-

## **8. Warranty**

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MRC LTD. warrants apparatus of its manufacture against defects in materials and workmanship, under normal service, for **two years from the shipping date to purchaser**. This warranty excludes damages resulting from shipping, misuse, carelessness, or neglect. MRC's liability under the warranty is limited to the receipt of reasonable proof by the customer that the defect is embraced within the terms of the warranty. All claims made under this warranty must be presented to MRC within two years following the date of delivery of the product to the customer.

**Manufacturer:** MRC LTD.