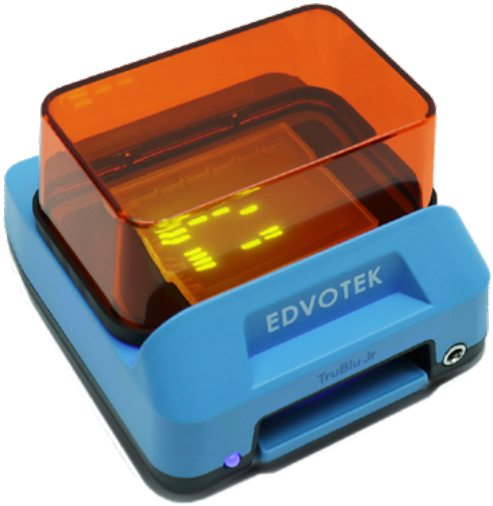
Cat. #555 Manual

TruBlu™ Jr
Transilluminator



Features:

- Docks Seamlessly with the EDVOTEK® M12 Electrophoresis System
- Includes Orange Contrast Lid for M12 Cover
- Includes Orange Contrast Hood for TruBlu™ Jr.
- Battery operated for convenient use in the classroom
- Safe - Non-UV wavelength
- Blue Light Emission Spectrum Centered Around 470 nm
- Viewing Surface: 10 x 6 cm
- Universal Voltage for Worldwide Use

EDVOTEK®

Designed for the Classroom

SINCE 1987

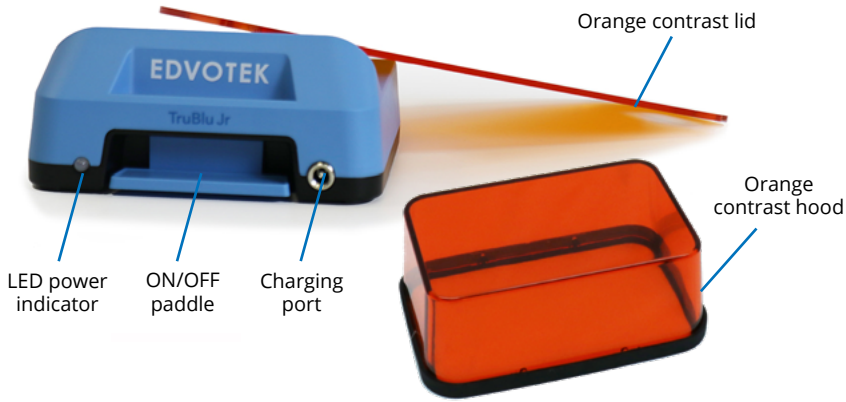
Introduction

The TruBlu™ Jr. Transilluminator is designed to meet the diverse needs of a modern biotechnology classroom!

Designed for use with the Edvotek® M12 Electrophoresis system or as a standalone blue light transilluminator, the TruBlu™ Jr. allows for safe, real-time analysis of DNA fragments during agarose gel electrophoresis. The blue LEDs have an emission spectrum centered around 470nm, allowing for use with SYBR® Safe, Ethidium Bromide, and other blue light reactive dyes. The included orange filter is designed for use with the M12 electrophoresis system or standalone use with other electrophoresis tanks.

The compact design allows for easy storage and for convenient use around the laboratory. The rechargeable Li-Ion battery provides up to 90 minutes of continuous use between charges. A convenient red LED indicates when the battery has 10% remaining capacity.

NOTE: Make sure the unit is fully charged before each use.



Specifications

- LED wavelength: 470 nm +/- 10 nm
- LED Life: 50,000 hours
- Input voltage: 100-240V, 50/60 hz, 0.6A
- Output voltage: 5V DC, 0.5A
- Dimensions: 12 cm (w) x 14 cm (l) x 6 cm (h)
- Operating conditions: 4°C to 37°C, 75% maximum humidity

Operator Safety

It is important that only suitably trained personnel operate this equipment, in accordance with the instructions contained in this manual and with general safety standards and procedures. If the equipment is used in a manner not specified by EDVOTEK®, it may damage the equipment and void the warranty. All EDVOTEK® units have been designed to conform to international safety requirements.

Warnings

- While the light wavelengths emitted by this product do not require specialized eyewear, the blue light is high intensity. DO NOT stare at the blue lights for a long period without the orange cover in place.
- DO NOT open the outer housing of the transilluminator. This product should only be dismantled by properly trained professionals.
- At all times, USE COMMON SENSE.
- DO NOT submerge the transilluminator in liquids or pour liquids onto the transilluminator.
- Whenever working with any type of stained DNA gel, WEAR disposable gloves.
- The blue and orange filters are scratch resistant but not scratch proof. DO NOT cut or use sharp objects on the plates. If you need to extract a band do so carefully and with a dull edge.

User Maintenance

In the unlikely event that you experience any problems with your unit that cannot easily be remedied, you should contact EDVOTEK® to explain the problem and obtain a Return Goods Authorization #. After obtaining the RGA #, return the unit if necessary and include any details of the fault observed. Remember to return the unit in its original packing. EDVOTEK® accepts no responsibility for damage to units that are not properly packed for shipping.

- **Cleaning**
  Before cleaning your unit ALWAYS disconnect from the power supply. The unit can be cleaned by wiping with a lightly damp, soapy cloth. Care should be exercised to prevent water from running inside the unit. Do not use abrasive cleaners or strong solvents.

Guarantee

The unit is guaranteed against any defect in material or workmanship for three years. The warranty period is from the date of receipt, and within this period all defective parts will be replaced free of charge provided that the defect is not the result of misuse, accident or negligence. Servicing under this guarantee should be obtained from EDVOTEK®. Notwithstanding the description and specification(s) of the units contained in the User's Manual, EDVOTEK® hereby reserves the right to make such changes as it sees fit to the units or to any component of the units. This Manual has been prepared solely for the convenience of EDVOTEK® customers and nothing in this Instruction Book shall be taken as a warranty, condition or representation concerning the description, merchantability, fitness for purpose or otherwise of the units or components.

Contact Information

For technical, sales or servicing information, contact:

EDVOTEK, Inc.
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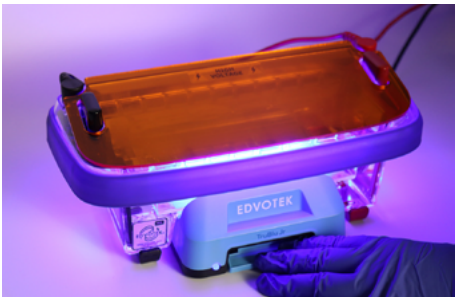
Washington, DC 20001
USA

1.800.EDVOTEK (1.800.338.6835)
Fax: 202.370.1501
info@edvotek.com
www.edvotek.com

Instructions

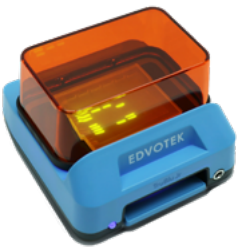
For visualizing fluorescently stained DNA gels in an M12 Electrophoresis System:

1. Place the M12 electrophoresis unit on a flat, level surface and prepare the agarose gel and electrophoresis buffer according to the standard instructions.
2. Carefully slide the TruBlu™Jr. under the M12 Electrophoresis System until the lip of the unit rests against the M12 tank.
3. Place the orange contrast lid on top of the M12 lid.
4. To visualize the DNA, press the ON/OFF paddle at the base of the TruBlu™ Jr. to illuminate the blue LEDs. Press the paddle again to turn off the LEDs.



For visualizing fluorescently labeled proteins or other blue light-reactive samples:

1. Place the TruBlu Jr. on a flat, level surface.
2. Place the sample onto the blue filter.
3. Cover the unit with the orange contrast hood. DO NOT look directly at the blue LEDs without an orange filter. Be sure to use amber safety goggles.
4. To visualize the samples, press the ON/OFF paddle at the base of the TruBlu™ Jr. to illuminate the blue LEDs. Press the paddle again to turn off the LEDs.



Charging your TruBlu™ Jr unit:

1. Ensure that the surface is free from any liquids, including spilled water or electrophoresis buffer.
2. Firmly insert the charging cord into a grounded outlet using the appropriate plus (110 or 220V). Insert the barrel jack plug into the charging port on the TruBlu™ Jr. unit.
3. Confirm that the LED is glowing, indicating that the battery is charging.

   Red = Battery is between 0-10% capacity
   Yellow = Battery is between 10-75% capacity
   Green = Battery is greater than 75% capacity

NOTE: Make sure the unit is fully charged before each use.