

5. Maintenance

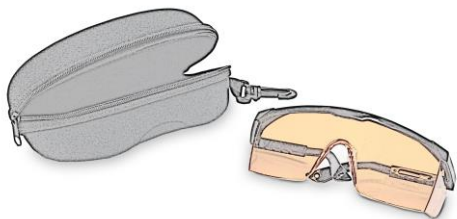


Always disconnect the power cord for cleaning. When cleaning the surfaces of the instrument, use a damp cloth with mild detergent if needed. Do not use any corrosive solutions that could damage plastic.

6. Accessories, Related Products

E4000-VG1	SmartBlue™ <i>Plus</i> Viewing Glasses
E4500-LD	SmartGlow™ Loading Dye with Safe Green Stain, 1.0ml
E4500-PS	SmartGlow™ Safe Green Pre Stain, 1.0ml
A1705	Agarose LE, organic solvent free, 500g
PR4005-100	Accuris SmartCheck™ 50bp DNA Ladder, 500µl / 100 lanes
PR4010-100	Accuris SmartCheck™ 100bp DNA Ladder, 500µl / 100 lanes
PR4100-100	Accuris SmartCheck™ 1kb DNA Ladder, 500µl / 100 lanes

For additional electrophoresis products, please visit www.accuris-usa.com



E4000-VG1: SmartBlue™ *Plus* Viewing Glasses. Ideal for viewing gels and gel excision.



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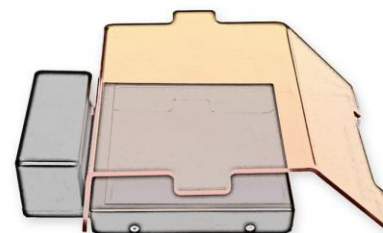


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SmartBlue™ Mini Compact Blue Light Transilluminator Operating Manual Version 1.2

For research only



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Thank you for purchasing the Accuris SmartBlue™ Mini Blue Light Transilluminator. The SmartBlue Mini is for research only and not designed for medical, clinical or diagnostic applications

This operating manual includes a product introduction as well as operating and safety information. Before using the SmartBlue Mini, please read this manual in its entirety and be sure to fully understand the features and methods for proper operation. Keep this manual for future reference.

Please check the packing list when first opening the box, and if there are any parts missing, damaged, or incorrect, please contact your distributor or Benchmark Scientific's Customer Service Department at 908-769-5555 or by email info@benchmarkscientific.com.

4. Gel Viewing

The SmartBlue Mini will illuminate samples stained with dyes that fluoresce under blue (465nm) light.

It is compatible with many EtBr alternative stains available such as Accuris SmartGlow™ (see www.accuris-usa.com for details), SyBr Green, SyBr Safe, Green Glo™, Gel Green, etc.

Follow the instructions included with the stain. Gels are typically prestained (stain added to the molten gel mixture before casting), post stained in a diluted solution, or the stain can be added to the sample before separation.

For best separation and viewing results, keep the gel thickness to 5mm or less.

Procedure:

- 1) Make sure the lights of the SmartBlue Mini are off.
- 2) Remove the amber filter cover
- 3) After electrophoresis, it is recommended to carefully remove the gel from any plastic tray that has been used in the gel running tank.
- 4) Carefully place the stained gel onto the glass viewing surface.
- 5) Place the amber filter cover on top of the transilluminator surface. If the transilluminator is being used for gel band excision, place the cover tab at an angle or use optional E4000-VG1 glasses.
- 6) Turn on the transilluminator power and the bands should be seen glowing.

3. Warnings



To avoid electrical shock, do not use this product with wet hands, do not submerge in liquids.



Please carefully read this instruction manual before operation to avoid any personal injury. Only trained laboratory personnel should operate the system.



This product uses high intensity LED lights. Do not stare directly at the viewing surface without the amber cover in place.



There are no serviceable parts inside the SmartBlue Mini. Do not open the outer housing, as this may damage the product.



The power switch is located on the side of the housing. Press once to turn on, press again to turn off. If left on for 5 minutes, the light turn off automatically to save power.

1. Introduction

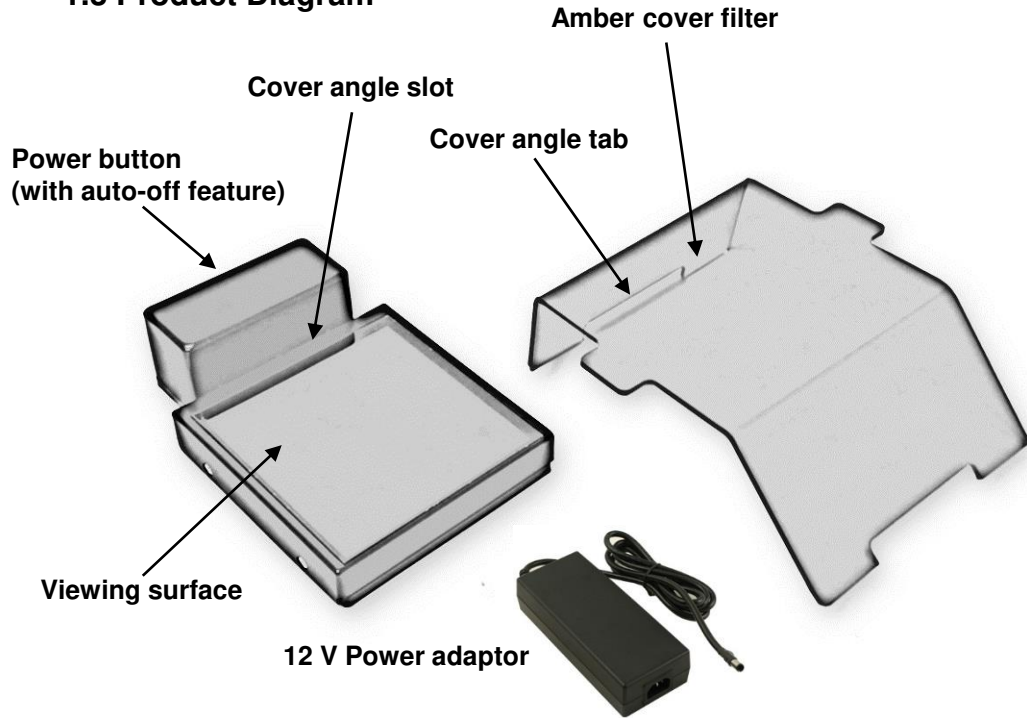
The SmartBlue Mini is a Blue Light Transilluminator used for the detection of nucleic acids or other molecules. The SmartBlue Mini emits light from a viewing surface with wavelength of 465nm, which is ideal for the excitation of many of the green dyes used to stain nucleic acids or proteins in electrophoresis gels. An amber colored filter cover is included to block the blue wavelength and allow optimal viewing of target samples, stained with fluorescing dye. The filter cover can be set horizontally on top of a gel for viewing or can be positioned at an angle to allow access to the gel for cutting out bands, or other manipulations.

Before use, please read this operating manual in its entirety.

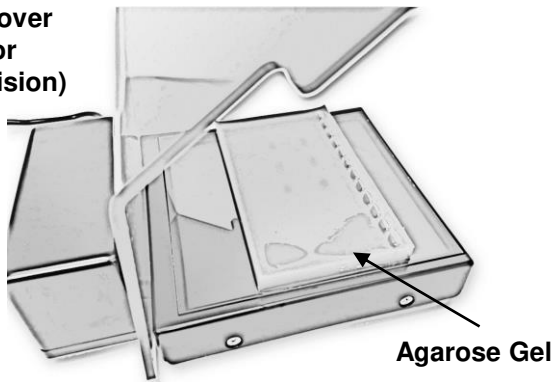
1.1 Included Components

Main transilluminator unit	1 pc
12 V Power adaptor	1 pc
Amber filter cover	1 pc
User Manual	1 pc

1.3 Product Diagram



(Amber cover slanted for band excision)



1.4 Product Specifications

Light Source	High intensity LED's with diffuser system
Output Wavelength	Peak at 465 nm
Filter Cover	Amber, PMMA material
Viewing Surface	10 x 10.5cm / 3.9 x 4.1 in
Exterior Dimensions (W×D×H)	170mm×120mm×50mm 6.7 x 4.7 x 1.9 inches
Net Weight	0.2 kgs / 0.5 lbs
Electrical	Universal 100V to 240V, 50/60Hz
Power Consumption	15 W

2. Installation / Set Up

Place the SmartBlue Mini transilluminator on a smooth, level surface. For optimal viewing performance, do not use the SmartBlue Mini near windows or in an area of bright ambient light.

Connect one end of the power cord to the instrument and the other end to an appropriate outlet. Make sure that the plug supplied matches the outlet type. The SmartBlue can accept voltage within the range of 100 to 240VAC.