



MyView UV Transilluminator

Model: E3100

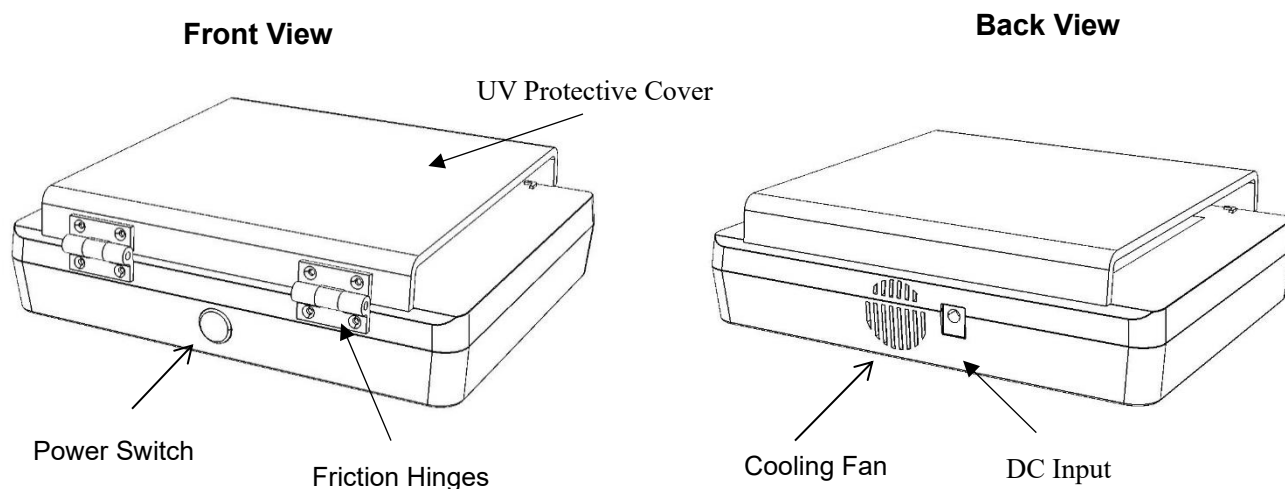
Operation Manual

Version 09.18

I. Overview

The Accuris E3100 MyView UV Transilluminator is a laboratory instrument designed to provide a uniform source of UV light for the excitation of fluorescent dyes such as Ethidium Bromide, SmartGlow™ and other nucleic acid stains. The E3100 is ideally suited for observation, analysis and photo imaging of stained electrophoresis gels that are positioned on the lighted viewing surface.

The midrange wavelength of the E3100 Transilluminator is 302nm. (Other manufacturers of transilluminators may refer to the same wavelength range as 300nm, or 312nm, but the spectral range is the same.)



II. Warnings



UV Transilluminators are powerful sources of UV radiation, which is hazardous to the skin and eyes.



Always make sure the protective UV blocking cover is positioned to prevent UV exposure to the user, and wear protective clothing and protective glasses to prevent UV exposure to the skin and eyes.



Although the UV blocking cover will effectively block UV radiation, it is always recommended to wear protective UV blocking glasses.



Use caution when cutting gels on the glass surface. Although this surface is scratch resistant, use minimal pressure when working with metal blades or tools.



To ensure long life of your transilluminator and the UV bulbs, always turn off the instrument when not in use. It is recommended not to leave the power on for periods longer than 15 minutes

II. Installation

Install the E3100 Transilluminator on a level and stable surface such as a laboratory counter, close to an available electrical outlet. The instrument should be oriented with the power switch and hinges facing the user. Leave sufficient space around the instrument to allow proper airflow, and take care not to block the cooling fan on rear side of the housing. Make sure that the front power switch is set to the off position, and then connect the included DC power adapter plug to the back of the instrument and to an appropriately rated electrical outlet.

Note: The E3100 accepts 12V DC input from the included power adapter. This power adapter accepts 100V to 240V AC input, and different plug cords are available to match your local outlet type

III. Operation

1. Place a gel or sample on the viewing surface of the transilluminator.
 2. Position the UV blocking cover to prevent exposure.
 3. Turn on power to the UV light by pressing the front switch.
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IV. Imaging using the Accuris SmartDoc™ Enclosure

To image gels on the E3100 Transilluminator, it is recommended to use an imaging enclosure.

The Accuris SmartDoc™ enclosure, for imaging using a smart phone camera, is designed to fit the viewing surface of the E3100. Filters are available for blocking the UV wavelength to allow image capture with minimal background fluorescence. Visit: www accuris-usa.com for details



V. Specifications

Light Source	4 x 6W UV bulbs
Transmission wavelength	302nm
Gel Viewing Surface	165x135mm
Dimensions	215 x 305 x 50mm
Input voltage	100V - 240VAC into 12VDC Power Adapter
Frequency	50/60Hz

VI. Cleaning and Care

The glass surface should be cleaned regularly with a cloth dampened with water, a mild soap solution, or ethanol. In order to extend the working life of light tubes and UV glass filter, power off the instrument when not in use.

For service, contact Benchmark Scientific's Service Department at 908-769-5555

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