EpiChemi™ II Darkroom

Set-Up & Operating Instructions



IMPORTANT:

Please read these instructions before setting up and operating your EpiChemi II Darkroom to familiarize yourself with operation procedures.



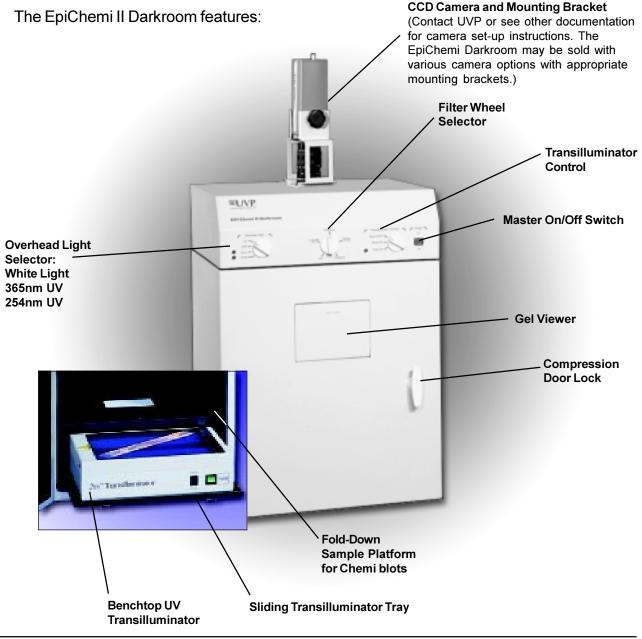
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Introduction

The EpiChemi II (EC2) Darkroom is designed specifically for low light and fluorescence imaging and because of its light-tightness is particularly suitable for chemiluminescent applications. The special design accommodates a Benchtop Transilluminator on the convenient sliding tray for easy access. For chemiluminescent applications, the chemi sample tray can be lowered for sample positioning. Additionally, the darkroom provides users added flexibility due to the filter wheel and overhead UV.

UVP offers a large selection of cameras with specially designed mounts for securely connecting the camera to the darkroom. Camera specifications are not discussed in this manual. Contact UVP or see other documentation included with your system for camera operating and set-up instructions. Transilluminators are ordered separately and also include their own documentation.



Components

The EpiChemi II Darkroom is comprised of:

Darkroom Cabinet

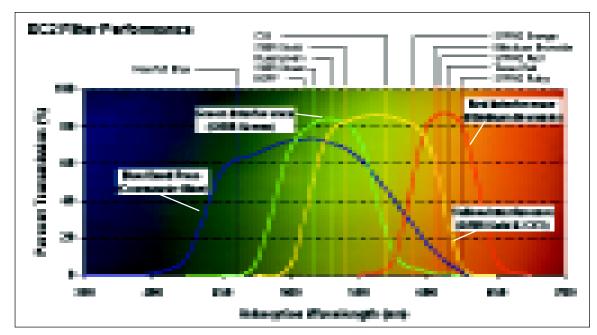
The EpiChemi II Darkroom is manufactured of stainless steel construction and fabricated to provide a light-tight chamber. The darkroom is ready to go with connections to a wall outlet, the camera, mount and transilluminator.

Filter Wheel

The five-position filter wheel is designed for viewing many fluorescent and visible color stains. Rotate the dial to desired filter as required for you application. The filter wheel is securely mounted into the darkroom for a clean, protected environment.



Filter Wheel



EC2 Darkroom Filter Performance

Gel Viewer

The viewer opens for safe viewing of samples. The safety glass allows viewing without exposure to ultraviolet radiation.

Sample Platform

The sample platform folds down for placement of chemi blots.



Sample Platform and Transilluminator Tray

Transilluminator Tray

The slides forward and back for easy access to the transilluminator surface. See transilluminator documentation for specific transilluminator operating instructions.

NOTE: When using the transilluminator with the darkroom door open, UV exposure safety precautions, including protective eyewear and clothing, <u>must</u> be observed to prevent harmful ultraviolet radiation exposure.

Set-Up and Operating Instructions

DO NOT ATTEMPT TO CONNECT ANY WIRING WHILE THE EQUIPMENT IS CONNECTED TO ANY POWER SUPPLY.

CAUTION!

Do not install the EpiChemi II Darkroom in places with high moisture, dust or high temperature.

Do not use any oil or petroleum based cleaner for the cabinet. Use only mild soap or detergent solution for cleaning. Ensure that the system is turned OFF during cleaning.

Set-Up

- 1. Connect the camera and mount to the darkroom as specified in the camera documentation manual.
- 2. Connect the power cord to the main power port which is located on the back-top of the darkroom cabinet.

Operation

- Turn on the master power switch on the front of the darkroom cabinet. Once the power is switched on, power is applied to all internal components and to the power port for the jumper power cable that supplies power to the transilluminator.
- 2. The *Transilluminator Control* knob has three options:

Safety Switch - Transilluminator safety control switch automatically turns the transilluminator off when door opens which prevents the user from exposure to UV

Always Off - This button setting puts the transilluminator in Off mode. Use this switch when the transilluminator is not required such as when capturing chemi blots.



Always On - This setting overrides the safety switch with the transilluminator always in the on mode. Users should wear protective clothing and eyewear when the darkroom is in the Always On mode to prevent exposure to the UV.

3. The *Overhead Light* control knob has four options for providing overhead diffused 254 and 365nm UV and fluorescent white light for uniform epi-illumination.

Off - Place the overhead light switch in the Off mode when not using the darkroom for applications requiring epillumination.

White - Overhead white light illuminates when "white" is selected.

365nm and 254nm - When either ultraviolet wavelength is selected, the red light will illuminate to alert the user that the light is in operation. The overhead lights are designed to automatically turn off when the darkroom door is open.

4. The *Transilluminator Tray* accommodates a Benchtop UV Transilluminator. The tray moves forward or back for easy access to the transilluminator surface.

NOTE: When using the transilluminator with the darkroom door open, UV exposure safety precautions, including protective eyewear and clothing, <u>must</u> be observed to prevent harmful ultraviolet radiation exposure.

- 5. The Sample Platform folds backwards against the back of the darkroom cabinet. Pull the platform down into a horizontal position as shown in the picture. The sample platform is designed for use when transillumination is not required. The platform provides a surface for placement of chemiluminescent blots with minimum background noise interference.
- The *Gel Viewer* has a pressure-sensitive clasp. Press firmly to open the viewer. The glass is UV blocking while providing a clear view to the transilluminator or platform surface for visibility of samples without opening the door.









Troubleshooting

No power to darkroom cabinet.

- 1. Recheck main power cord connections to the both the EC2 Darkroom and the wall power (surge protector).
- 2. Check the fuse located on the main power port. If the darkroom continues to blow fuses, call UVP Technical Support Department.

Transilluminator will not turn on!

- 1. Be sure the darkroom cabinet's door is completely closed. There is a UV exposure safety cut-off switch that turns the transilluminator of when the darkroom cabinet's door is opened.
- 2. Be sure the darkroom cabinet's main power switch is lit. If not, refer to "No power to darkroom cabinet" above.
- 3. Be sure the transilluminator switch is on. When the switch on the transilluminator is lit green, the unit is receiving power!
- 4. Be sure the transilluminator control switch on the darkroom's front panel is selected to either "safety switch" or "always on."
- 5. Call UVP Technical Support Department with any technical questions.

Replacement Parts

To order replacement parts for the EpiChemi II Darkroom, contact UVP's offices. Contact information is listed on the next page.

Part Description	Part Number	Qty.
Tube, 8 watt, fluorescent, cool white	34-0056-01	2
Tube, 8 watt, 365nm UV longwave	34-0006-01	2
Tube, 8 watt, 254nm UV germicidal	34-0007-01	2
Cable and connector wall plug, 115V and 100V	58-0085-01	1
Cable and connector wall plug, 230V	58-0085-03	1

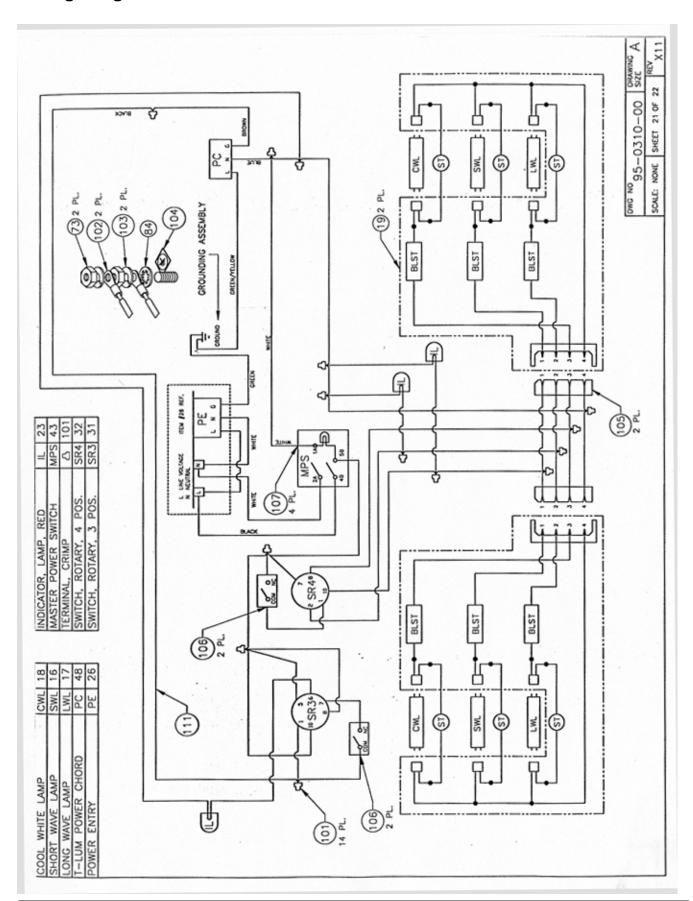
Technical Assistance

UVP offers technical support for all of its products. If you have any questions about the product's use, operation or repair, please call or fax UVP Customer Service or Technical Support at the following:

If you are located in North America, South America, East Asia or Australia:	If you are in Europe, Africa, the Middle East or Western Asia:	
Call (800) 452-6788 or (909) 946-3197 and ask for Biolmaging Systems Technical Support. Tech Support assistance is available during regular business days, between 7:00am and 5:30 pm PST.	Call +44(0) 1223-420022 and ask for Biolmaging Systems Technical Support. Support is available during regular business days, between 8:00am and 5:30 pm UK time.	
E-Mail your message to: techsupport@uvp.com	E-Mail your message to uvp@uvp.co.uk	
Fax your questions to: (909) 946-3597	Fax your questions to: +44(0)1223-420561	
Write to: BioImaging Systems Technical Support UVP, Inc. 2066 W. 11th Street Upland, CA 91786 USA	Write to: BioImaging Systems Technical Support Ultra-Violet Products Ltd. Unit 1, Trinity Hall Farm Estate, Nuffield Road Cambridge CB4 1TG UK	

A **Returned Goods Authorization (RGA) number** must be obtained from UVP's Customer Service Department prior to returning any product to UVP.

Wiring Diagram



Products available from UVP

LabWorks Image Acquisition and Analysis Software

Ultraviolet Transilluminators

UV/White Light Transilluminators

Visi-Blue Transilluminators and Plates

White Light Transilluminators and Plates

Gel Tools

UV Crosslinkers

UV Viewing Cabinets

UV Lamps

Ultraviolet Intensity Meters

Hybridization Ovens



http://www.uvp.com

UVP, Inc., 2066 W. 11th Street, Upland, California 91786 (800) 452-6788 • (909) 946-3197 Fax: (909) 946-3597 • E-Mail: uvp@uvp.com