

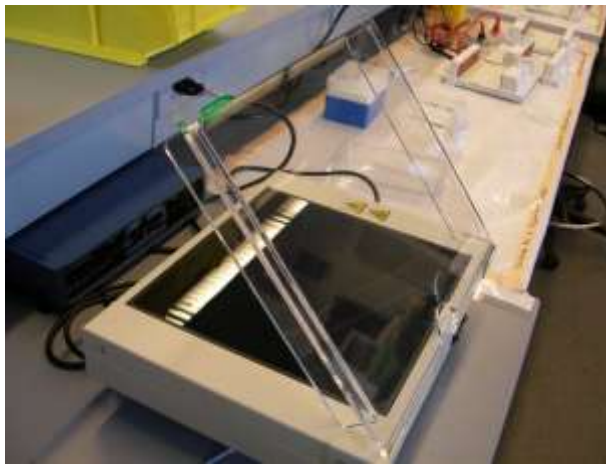
# Using the UV Transilluminator Imaging System

SGM 4/4/2013

The UV Transilluminator is used to view samples that are only visible under Ultra-Violet light. *The device emits a very intense amount of UV, and is harmful to human skin and eyes. Appropriate safety glasses, face mask, gloves and lab coats must be worn when operating the device.*

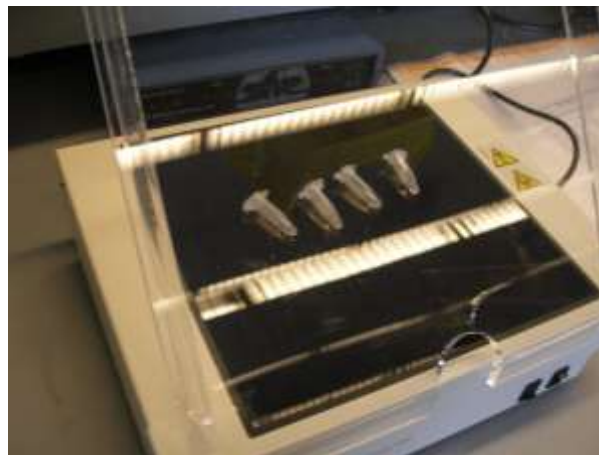
## Looking at a Sample

When using the device, first make sure that the shield is upright as shown in the picture below.



Wipe the surface using a small amount of isopropyl alcohol.

Place the samples or gels on the device surface as shown, with the shield up:



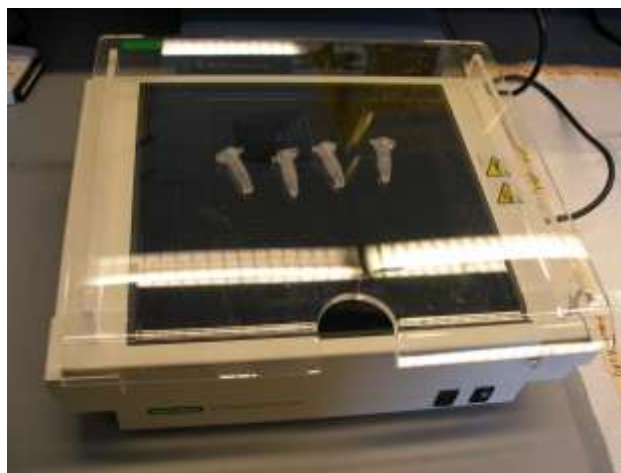
In the front of the device, there are two switches:



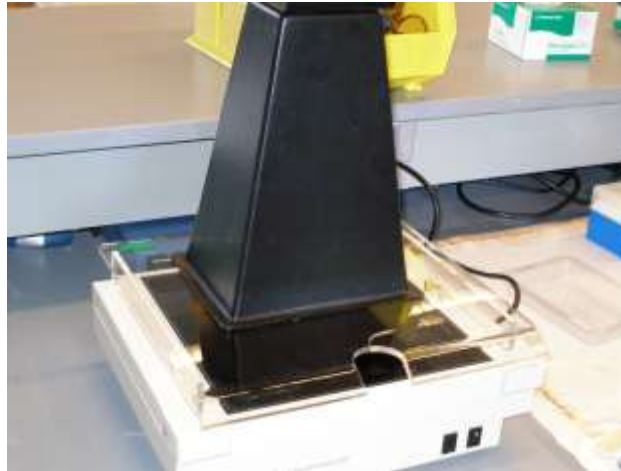
Make sure the first switch is set to **Analytical**. The second switch is used to turn the device on and off. At this point, you can switch on the device and examine your specimen, making sure to stay behind the shield. If you need to work with your sample(eg. To cut your gel), make sure that you are wearing gloves and a lab coat. Turn off the device when you are not looking at the specimen. The lamps on this device quickly burn out if the device is left on for too long.

## Imaging

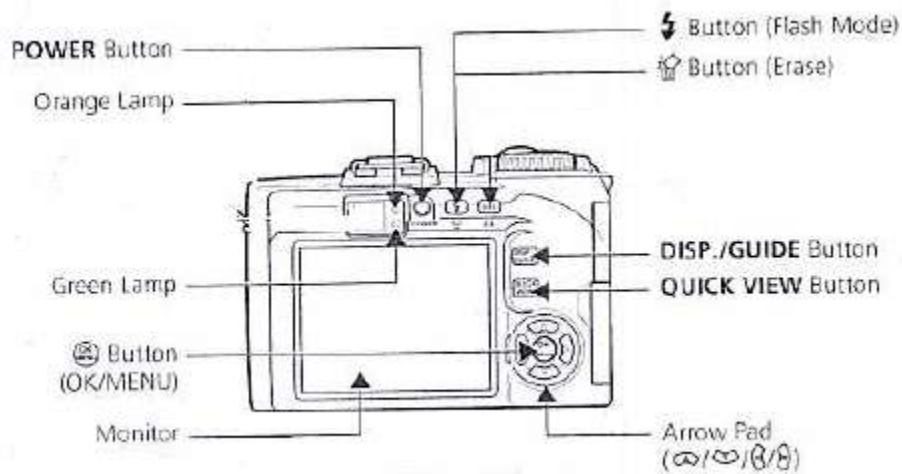
To take a picture of your sample, first remove the shield and place it horizontally on the Transilluminator.



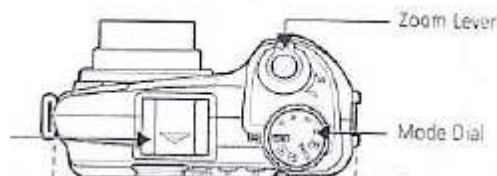
Place the camera box on top of the shield, covering your sample.



The camera used for imaging is a standard digital “point and shoot” camera. The back of the camera is shown below. Press the **Power** button to turn on the camera.



The top of the camera can be seen in the image below:



To take a picture:

- First, make sure the Mode Dial is set to “Auto”.
- Press the “Flash Mode” button to make sure that the flash is turned off. Pictures will not come out properly if the flash is used.
- Turn on the UV Transilluminator

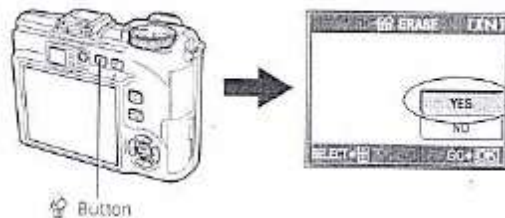
- Adjust the zoom using the zoom lever, looking at the image using the camera's monitor.
- To Focus, press the shutter button (above the zoom lever) half-way until the Green lamp turns on.
- Press the shutter button all the way to take the picture.
- Turn off the Transilluminator.

To view or erase a picture:

- Press the Quick View Button. The last image taken will be shown.
- Use the Arrow pad to scroll through the pictures

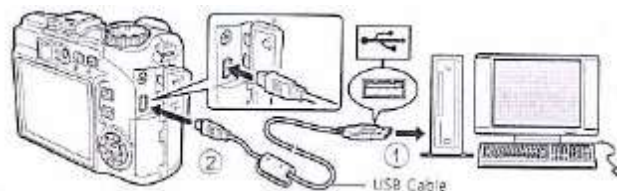


- Use the zoom lever to zoom in and out.
- Press the Quick View button again to return to shooting mode.
- To erase a picture, press the Erase button, and select 'yes' using the Arrow pad, and pressing 'OK'.

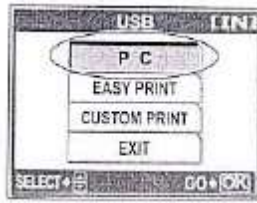


To transfer images:

- Make sure that the camera is off. You can turn it off by pressing the Power button.
- Log into the computer that you are connecting to the camera.
- Connect the camera and computer using the USB cable as shown in the diagram. The monitor will turn on automatically.



- Select "PC" on the monitor and press 'OK' on the Arrow pad.



- Go to “My Computer” on the Desktop and select the newest disk drive (usually the F: drive). If you are unsure, try opening each drive until you find a folder named “DCIM”. Double click on DCIM and then double click “100Olymp”. Your files will be saved in that folder. Copy the picture that you wish to keep on to an appropriate location, and then delete them from the camera’s folder.
- Unplug the cable from the camera and the computer.