

User Guide for Transilluminators

As for any equipment in the CMB, you should sign these out on the HHMI scheduler before use.

Also for any instrument, if the instrument is off when you arrive, you should turn on the computer, wait for it to completely boot up, turn on the instrument and wait for it to completely boot up, and then launch the software.

For the Typhoon

- Open up "Typhoon Scanner" software
- Place your item to be imaged on the platen
- Tell the computer where your item is on the grid and choose an orientation
(keep in mind the larger area chosen, the smaller the picture)
- Under "Setup" select the kind of light you are detecting and choose PMTs
- click "Scan"
- once it is done, open your image in "Image Quant"
- This software seems more sensitive and picks up speckles. To get rid of them, click on "Edit Image" button, then under image choose filter and mess around with the size filter (usually around 6 or 7 is good). Click apply.
- Print and/or send to self

For the BioChem Transilluminator

- when turning on instrument, you must turn on the darkroom, and the camera (toggle switch on top).
- choose your illumination and dye that you want to use on the biochemi darkroom
 - If doing chemiluminescence on filters, pull down the black background
 - If cutting out bands, use plastic tray, if not, can put directly on UV light box
- open Labworks software and click acquire
- biochemi is the driver that should be working and be installed. If it doesn't work, try going to analogue demo and then back and it should work
- click on "minimal dialogue"
- using the slide on the right, move the preview exposure time til you are getting an image you like
- You can also change the aperture (top ring) and zoom (center ring) directly on the camera. The focus ring is the bottom ring and should be right but can tweek if needed.
- when you see an image you like, hit "stop/capture"
- Print and/or send to self
- if having problems and can't find me, call 1-800-452-6788 and tell them you need tech support for Labworks software. You should get Danny. He can take over the computer and help you do anything.

One other Transilluminator

- There is a small light box and camera in the teaching lab
- These work best with SYBR Gold and Green Gel but work just like the old poloroids we have used for ethidium bromide for years.
- Simply place your gel in light box and turn on light
- choose a filter that you like
- turn on digital camera on hood box and place over gel and take picture
- take camera to your computer to transfer image and the RETURN IT IMMEDIATELY.