

## APPENDIX V. Creating images in the Lumi-Imager F1 Device

### 1. General procedure:

- Login
- Start Lumi-Imager software from desktop icon
- From the tool bar under "LumiCapt" choose "LumiAnalystCapture"

### 2a. For protein gels or other visible images:

Remove all filters and plates from tray

Place gel on light box and close tray

Set time to 10 seconds and illumination to "top illumination"

Click start

Wait patiently (it's a little slow here)

Close acquisition window when image appears

### 2b. For ethidium bromide stained gels:

Remove all filters and plates from tray

Place gel on light box and close tray

Set time to 1 second and illumination to "600 nm (ethidium bromide)"

Click start

Wait patiently (it's a little slow here)

Close acquisition window when image appears

### 2c. For SYBR Gold stained gels:

Remove all filters and plates from tray

Place gel on light box and close tray

Set time to 1 second and illumination to "520nm SYBR green"

Click start

Wait patiently (it's a little slow here)

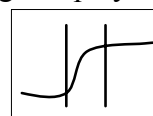
Close acquisition window when image appears

### 3. Processing options:

Crop - use rectangle tool and duplicate/crop command under "Edit" toolbar

Rotate- under 1D-gels tab on the tool bar choose "show". Click on rotate and follow prompt on screen

Brightness/Contrast- adjust levels by clicking "adjust image display range" icon on toolbar. Follow prompt on screen.



Inv - inverts gel color scheme. May provide additional resolution for printing

### 4. Saving images:

*For images to be used in standard word processing documents they must be converted to 8 bit grayscale images.*

Under "edit" choose "convert to" → "grayscale"

Choose "best fit" and click convert

Under "file" choose "save as"

Name file for easy reference later on. Choose either a \*.TIFF or \*.JPEG extension. Tip: a name like "gel1" or "GM gel" will mean very little later on.

Save file to server.

Note: for some bizarre reason, longer file names seem clog up the works!?!)

**Important!!! Discard of gel properly and clean Lumi-Imager tray thoroughly with distilled water!**

**Important!!! Log-off of the computer!**