

Imaging Western Blots and Protein Gels on the LI-COR Odyssey Fc Imager

Quick Start Guide

1. Reserve the instrument with the online calendar at www.pugetsound.edu/sciencecorefacility
2. Turn on the computer
3. Turn on the monitor for the computer
4. Turn on the Odyssey Fc Imager
5. Open the Image Studio Software from the Desktop
6. Set up a new Work Area, or select your work area to open.
7. Open the Imaging Drawer by pressing the large Eject (open/close) button above the drawer.
8. Place your sample in the appropriate Imaging Tray, sample side up with the wells facing towards the rear of the instrument. Make sure the tray rests flat on the imaging drawer before pressing the open/close button to close the drawer.
9. In the Acquire ribbon:
 - a. Set your analysis type to Western
 - b. Enable the proper check boxes (for chemiluminescent Western Blots choose the Chemi channel and for near-infrared Western blots choose the 700 and 800 channels and deselect the other channels).
 - c. Select the Integration/Acquisition Time by dragging the slider the appropriate channel.
 - d. Click Acquire Image
10. Choose the best display
11. Adjust the Display then click Done
12. In the Western Analysis ribbon:
 - a. Redraw the boundary
 - b. Choose a molecular weight marker
 - c. Find bands
 - d. Select a method for background subtraction. The recommended background method for Western Blots is the Lane subtraction.
 - e. Normalize the signal in one channel
13. Obtain the band size and other quantification results by clicking on the Western Bands tab at the lower left of the screen.
14. Export your Image:
 - a. To work with Image Studio on another Computer (Copy Image)
 - b. To use for illustration or publication purposes (Single Image View)
15. Export your data tables:
 - a. Export file to save directly in a folder as an Excel Spreadsheet
 - b. Launch an Excel Spreadsheet immediately after selecting a destination folder
16. End your session:
 - a. Remove and clean the imaging tray and put it back in the appropriate drawer.
 - b. Close Image Studio software and save your progress in your Work Area.
 - c. Press the **Power On/Off Switch** momentarily to turn off the Imager.
 - d. Turn off the computer.
 - e. Turn off the monitor.