BIOCHROM ASYS EXPERT 96 MICROPLATE READER

QUICK START GUIDE

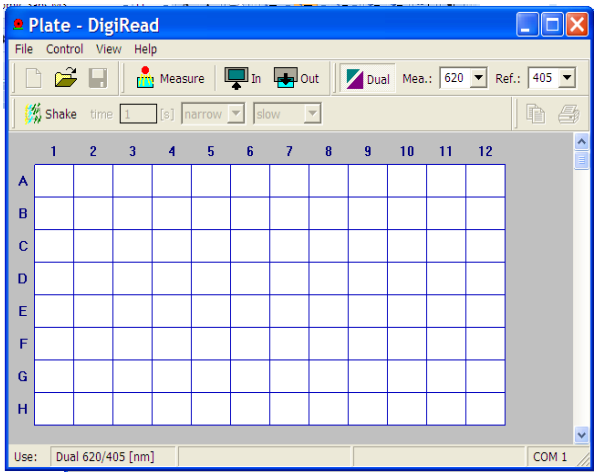
1. Connect instrument to a power source using the appropriate power cord. Switch on instrument at the back of the instrument.
   - ✓ If this is the first time the instrument is being used, allow instrument to warm-up to room temperature before turning on.
   - ✓ Check the user's manual for important safety information.

2. Connect instrument to a PC using a serial port cable or a serial to USB port adaptor.

3. Determine the communication port (com) used by the instrument in the PC. In the Start menu of the PC, go to Control Panel\System\Hardware\Device Manager\Ports.

4. Insert the CD supplied with the instrument into PC, install DigiRead. Open **DigiRead**. In **File>Properties>Port** set the com port that is used by the instrument.

5. Configure DigiRead view: In the task bar, select **View** to display functions on the task bar: Select all for ease of use.



- ✓ **Measure tool**- Initiate measurement
- ✓ **Dual Filter tool**- To set two filters for measurement
- ✓ **Single Filter tool**- To set one filter for measurement
- ✓ **Shaker tool**-Set time, mode and speed of shaking.
- ✓ **File tool**- Use for opening and saving measurement data.
- ✓ **Output tool**- For printing and specifying printing and copying

6. In the task bar, select **Control > Read Filters** to determine available filters.

7. Select **Control>Calibrate Filters**. Calibrate all filters by selecting each one. Select **Calibrate** to initiate. Calibration adjusts the lamp intensity at each wavelength to a value that guaranties optimum measurement conditions and highest resolution.

8. The instrument is now ready for reading a plate. To read a plate, select the measurement filter and the reference filter in the task bar
    - ✓ It is recommended to use a reference filter to control for optical inference from the plate.

9. Select **Plate Out** if plate transporter is not ready to load a plate. Place plate in the plate transporter. Select **Measure**.
    - ✓ Measurements will appear in the open matrix in **DigiRead**.

10. Data can be copied to data analysis software using the **Copy** button. Data will paste as a matrix with filter wavelength, and time and date of reading.

Installing a new filter:

1. Turn off the instrument. Unplug from power source.

2. Orient the instrument so that instrument is facing forward. On the right side of the instrument is a panel with a knob. Use the knob to slide open the panel to reveal the filter wheel.

3. Manually rotate the wheel until empty position is visible. Gently place filter in empty position.

    - ✓ Note: Do not touch the filter only the housing when installing into the filter wheel.

4. Go to **Control>Calibrate Filters**. Select filter to calibrate in the dialogue box. Enter in the wavelength of the filter in the appropriate position in the filter wheel. Select **Calibrate**.