

BIOCHROM ASYS UVM340 MICROPLATE READER

QUICK START GUIDE

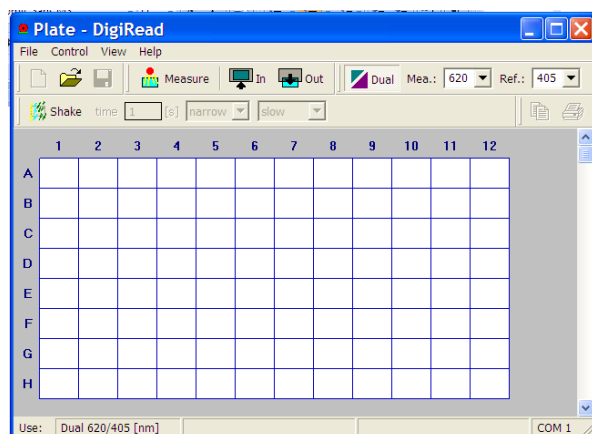


Connect UVM340 to a PC

1. Connect instrument to a power source using the appropriate power cord. Switch on instrument.
 - ✓ Check the user's manual for important safety information.
 - ✓ If this is the first time the instrument is being used, allow instrument to warm-up to room temperature for 30 minutes.
2. Connect instrument to a PC using a serial port or USB cable.
3. Determine the communication port (com) used by the instrument. In the **Start** menu of the PC, go to **Control Panel\System\Hardware\Device Manager\Ports**.
 - ✓ Note: Only com ports 1-9 can be used to connect instrument to a PC.
4. The UVM340 comes standard with two programs for remote operation: **DigiRead**, which can be used for single and dual wavelength measurements in 96-well plates and **ScanPlus**, which can be used for wavescans and to measure plates with different well footprints. These programs can be installed from the CD that was sent with the instrument.

To measure a microplate in DigiRead:

1. Open **DigiRead**.
2. In **File>Properties>Port** set the com port that is being used by the instrument.
3. **Configure DigiRead view:** In the task bar, select **View** to display functions on the task bar: Select all for ease of use.



- ✓ **Measure tool**- Initiates 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**- To specify printing and copying options.

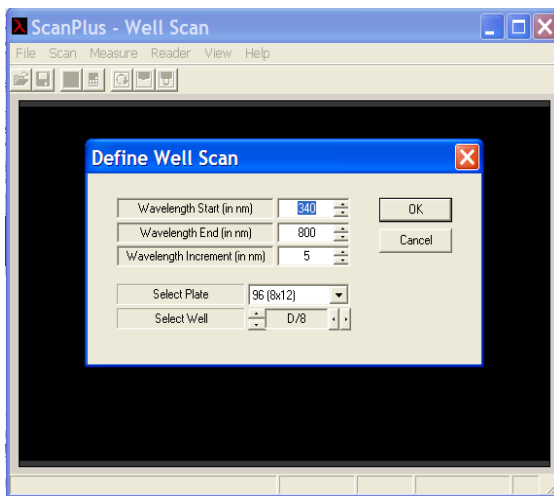
4. Select **Control>Calibrate Filters** in the menu bar to specify wavelength measurements. Although the UVM340 is a monochromator-based reader, **DigiRead** operates on the

assumption of a filter-based system. Check any of the filter boxes and type in the desired wavelength. Select **Calibrate**. Now, the desired wavelength can be selected from the drop-down menu.

5. To measure a plate, select the **Measure** icon in the menu bar. The plate transporter will move out to accept the plate. Place the plate in the transporter with A1 in the upper left corner. Select **Confirm**.
6. Data can be copied and pasted as a matrix into analysis software for further transformations. Go to **File** in the menu bar and select **Copy**.

To Measure a Microplate in ScanPlus:

1. Open **ScanPlus**.



- a. For a scan: Select **Scan** in task bar. Define a wavelength range, plate footprint and specific well in drop down menus. Select **OK**.
- b. Absorbance measurements are presented as % Transmittance. Use mouse to right click on the y-axis to change to O.D.
- c. Select **File/Copy** to Clipboard to copy absorbance measurements as a table.

✓ Note: The UVM340 can measure absorbance from 340 to 800 nm wavelength range.