

### 1 Unpacking Your Instrument

1. Remove the instrument from the box and set on a level surface.
2. **IMPORTANT:** Manually open the door and **REMOVE ALL PACKAGING INSIDE THE INSTRUMENT.**
3. Open the accessories box included with your shipment and locate the Instrument Power Cable.
4. Connect the Power Cable to the instrument (connection is located on the back panel of the instrument)
5. Plug the Power Cable into an outlet.

### 2 Important Guidelines

#### Sample Tray Cover

If installed, **DO NOT use force to close the Microplate Sample Tray Cover.** Cover will close automatically by touching the DOOR button on the instrument touch screen.



### 3 Helpful Resources

Detailed instruction on setting up and operating your Modulus Microplate Reader are located in the Operating Manual included with your instrument. Locations of specific helpful sections are noted here:

Using Luminescence Module	See Section 2.1
Using Fluorescence Module	See Section 3.1
Changing Fluorescence Optical Kits	See Section 3.4
Using Absorbance Module	See Section 4.1
Setting Up and Installing Injectors	See Section 5
Troubleshooting the Instrument	See Section 9

There are 3 ways to contact Turner BioSystems:

1. **E-mail:** Send questions to [techsupport@turnerbiosystems.com](mailto:techsupport@turnerbiosystems.com).
2. **Phone:** Call +1.888.636.2401 (toll free) or +1.408.636.2400.
3. **Website:** [www.turnerbiosystems.com](http://www.turnerbiosystems.com)

### 4 Start Up

1. Turn the Modulus™ Microplate Reader ON (switch is located on the back panel of the instrument).
2. The built-in PC and Windows CE will load.
3. After warm up, the **HOME** screen will appear.

### 5 Setting the READ Parameters

(Refer to the Operating Manual section specific to your application for more details.)

#### From the HOME screen:

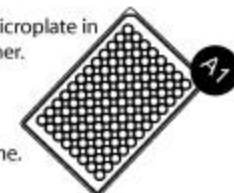
1. For a wizard-guided protocol setup, select the **NEW PROTOCOL** button.  
- OR -
2. Select a preprogrammed/saved protocol by selecting the **SELECT PROTOCOL** button.  
- OR -
3. Select the **INSTRUMENT CONTROL** button to set new parameters.



### 6 Start a Run

See the Operating Manual section specific to your application for more details.

1. Touch the **PLATE** button and highlight the wells to be read (green is selected and white is deselected).
2. Touch the **DOOR** button to open the instrument. Place the microplate in the sample tray. Make sure the A1 well is at the top right corner.
3. **Do not use force or push on the plate cover to close.** The cover will close automatically.
4. Touch the **START** button.
5. Touch the **EDIT** button and use the keypad to enter a file name.
6. Touch the **OK** button to start reading.



#### IMPORTANT NOTE

To prevent evaporation and damage to the detector head, always remove the microplate when finished reading.

### 7 Results

#### To View Results:

1. From the INSTRUMENT CONTROL screen, touch the **RESULTS** button.
2. Touch the **FILES** button and choose a saved file to view.

#### To Transfer Results File(s):

1. Insert a USB flash drive into the USB storage device port on the front of the instrument to the left of the touch screen.
2. Touch the **USB** button on the upper right corner of the screen.
3. Touch the **OK** button to export only the selected file, or touch the **COPY ALL FILES** button to export all displayed and undisplayed results files.
4. Move the USB flash drive to a local PC or Mac computer to download files.



#### IMPORTANT NOTE

Only the 50 most recent results files are displayed on the touch screen. All results files are stored on the internal memory of the instrument.

To ensure no loss of data, save the results files to a USB flash drive frequently.