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Rayo Quick Start Guide

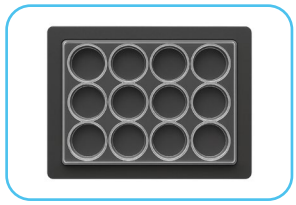
Included in this shipment:



Rayo Unit
(with microSD card)


USB Cable


Power Adapter


Plate Adapter
(12/6-well formats)

Setup and Connection

1. Upon Receipt

- Carefully remove packing materials and retain them for future shipment or storage of the unit.
- Confirm receipt of the instrument and all components.
- Examine the instrument carefully for any damage incurred during transit.
- The microSD card will already be installed in the Rayo.

2. Downloading Software and Connecting

- Download the Cerillo Labrador software (v2.5.0 or higher) at cerillo.bio/software.
- Find detailed instructions for Labrador installation and use at labradormanual.cerillo.bio.
- Connect Rayo to power using the provided adapter.
- Use the provided USB cord to connect Rayo to your computer.
- Confirm communication between Labrador and Rayo.

3. Connecting Wirelessly

- Connect Canopy to your computer and power on Rayo.
- Follow the Canopy Quick Start Guide instructions to set up and confirm communication between Labrador, Canopy, and Rayo.

4. Insert Plate Mask

- For experiments using a plate format other than 96-well, insert the corresponding plate mask.

5. Allow for Equilibration

- Equilibrate Rayo to new environmental conditions for at least 2 hours, while connected to power.
- The Rayo should remain at a constant temperature during calibration and throughout the experiment.

6. Prepare Your Plate

- Do all necessary sample and plate prep.
- Measurements can be taken with or without a plate lid.
- For kinetic experiments, transparent, breathable membranes (e.g., Breathe-Easy™) effectively reduce measurement errors due to condensation or evaporation.

Accessing and Storing Data

Measurement data is automatically stored on the **microSD card**.

> ! The Rayo must be **powered off** when the microSD card is inserted or removed to avoid corrupting the card, rendering it incapable of recording future data.

Data stored on the microSD card can be accessed by:

- Directly connecting Rayo to your computer
- Using a microSD card adapter
- Wirelessly transferring data through Cerillo's Canopy

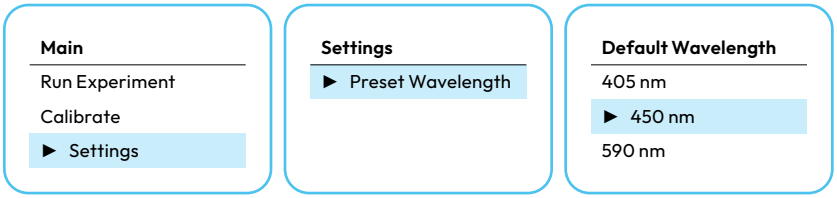
Experimental Setup with Labrador

- Plug the Rayo into a computer with Labrador installed and into power.
- Confirm the plate mask is correct, if applicable.
- Open Labrador and click on the Rayo icon to go to its device screen.
- Click “New Experiment” and follow prompts.
- See the Labrador User Manual for more details.

Experimental Setup On Instrument

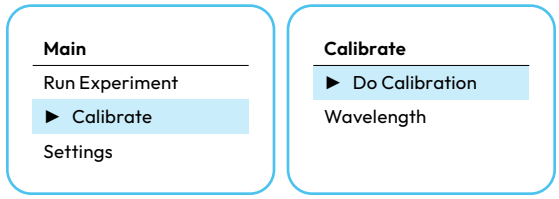
Set Wavelength

1. Press any button to open the Main Menu (Main).
2. Scroll to Settings using the Down Button and press Enter.
3. Select Preset Wavelength.
4. Scroll to the Measurement Wavelength and press Enter. The device will now default to the selected wavelength.
5. Press “Back” to return to Main.
6. To use any plate format other than 96-well, ensure that the appropriate Plate Mask is already loaded into the device.



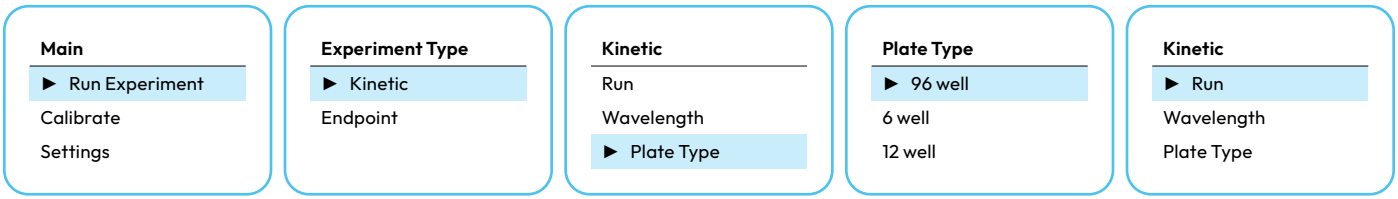
Calibrate Before Running an Endpoint Experiment

7. Calibrate the Rayo while empty.
8. Select “Calibrate,” followed by “Do Calibration.”
9. After Calibration, press “Back” to return to Main.



Starting a Kinetic or Endpoint Experiment

10. From Main, select “Run Experiment.”
11. Select Experiment Type.
12. For any plate format other than 96-well, select “Plate Type” and select the correct format. The menu will return to Experiment screen automatically.
13. Select “Run.”



To Stop Experiment

14. Press the “Back” button.

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Scan for Troubleshooting
or visit cerillo.bio/help-center