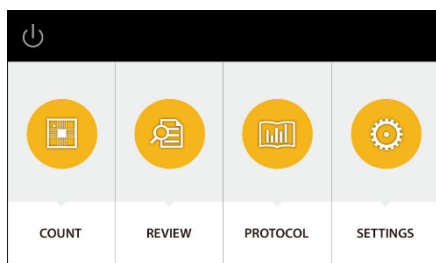
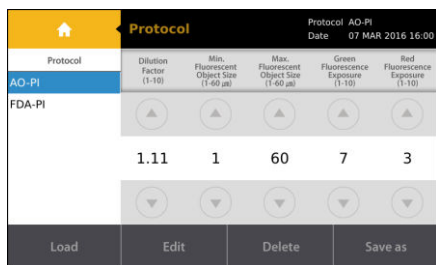


## Automated Yeast Cell Counter

This Quick Start Guide provides instructions for using the LUNA-II YF™ with Acridine Orange/Propidium Iodide. For detailed instructions, please refer to the user manual in the supplied USB drive.



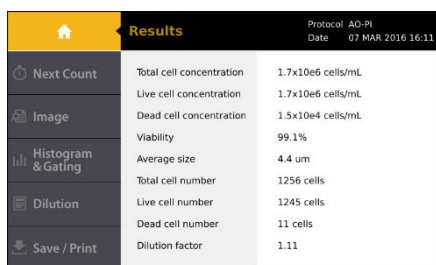
Main menu



Protocol screen



Count screen



Results screen

### 1. Select the AO-PI protocol.

- Select **PROTOCOL** from the main menu.
- Select the **AO-PI** protocol. Press **Load**.

### 2. Prepare the sample.

- Prepare a yeast suspension.
- Wash and dilute samples with Cell Dilution Buffer II as necessary.
  - ! **Important!** Prolonged incubation in Cell Dilution Buffer II can affect cell viability. Do not expose the cells to the buffer for more than 30 minutes prior to counting.
- Mix 18 µL sample with 2 µL Acridine Orange/Propidium Iodide Stain. Incubate at room temperature for 10 minutes.
- Load 10 µL mixture into a PhotonSlide™ or a LUNA™ Reusable Slide.

### 3. Count cells.

- Select **COUNT** from the main menu.
- Insert the slide into the LUNA-II YF™ slide port.
- Press **[Light]**. Switch between green (GF) and red (RF) channels and adjust the intensity of each channel as needed by pressing the light control bar arrows.
  - ! **Important!** Do this quickly to prevent photobleaching or adjust the light levels with one sample and count with another.
- Make sure the circle next to **[Autofocused Counting]** is yellow for autofocused counting.
- Press **[Count]** to start counting.

### 4. Review and save results.

- Press **Image** to view the captured image of the analyzed cell sample.
- Press **Histogram & Gating** to see a graphical representation of the cell count results.
- Press **[Dilution]** for the dilution calculator.
- Press **[Save/Print]** to save data to a USB drive or print data with an external printer. Data is automatically saved onboard the LUNA-II YF™ as a CSV file.