

This Quick Start Guide provides instructions for using the LUNA-BX7™. For detailed instructions, please refer to the user manual in the supplied USB drive.

1. Sample preparation and loading

Brightfield	Fluorescence
For viable cell counting, mix cell suspension with trypan blue 0.4% solution at a 1:1 ratio.	Mix cell suspension and pre-mixed AO/ PI solution at a 9:1 ratio.
For total cell counting, load cell suspension into the slide without trypan blue staining.	

- For LUNA™ 1-Channel Slide, load **50 µL mixed** sample onto the slide.
- For other slides, load **10 µL mixed** sample onto the slide.

2. Sample measurement

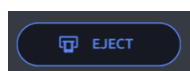
- Turn instrument power on.
- Select cell counting mode from three counting options.
 - Bright Field: Total Cell Counting, Cell Counting & Viability
 - Fluorescence: Cell Lines & Primary Cells, Advanced
 - Quality Control

3. Slide and autofocus settings

- Go to **SETTINGS**.
- Set the options for slide, chamber area, and autofocus.
- Go back to **COUNT**.

4. Slide insertion/removal

- Press **EJECT** and insert your slide into the slide port.
- Press **INSERT**.



Note: Do not insert the slide before the slide holder is ejected



5. Count cells

- Prior to counting, make sure that the image is in focus.
- Press the **light bulb icon** to adjust the intensity of each light filter as needed.
- Make sure that cells have settled.
- Press the **COUNT** button.



6. View and Save Results

- Check the counting result.
- Press **HISTOGRAM & GATING** for cell size gating.
- Press **SAVE & PRINT** to save or print cell count data & images.

