# **Halo Counter Quick Start Guide**

1. Power and Switch on the instrument, enter into the Halo Counter home screen.

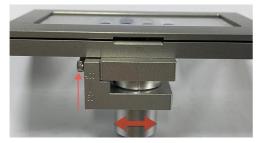


# 2. Sample preparation and loading.

Bright field	Fluorescence
For total cell counting, load cell suspension into the chamber	Mix cell suspension and pre-mixed AO/PI solution at 1:1
For viable cell counting, mix cell suspension with trypan blue 0.4% solution at 1:1	

- For normal use(1e5~3e7), load 20ul mixed sample into the chamber.
- For Lower concentration(1e3~1e5), load 40ul mixed sample into the chamber.
- For smaller cell such as Alage, Yeast, E.coil, load ~5ul mixed sample into the chamber.





## 3. Sample measurement

• Select cell counting mode from the counting options.

• Bright Field: Total cell counting

• Trypan blue: Cell counting & Viability

• Fluorescence: Cell Lines & Primary cells, Pbmc

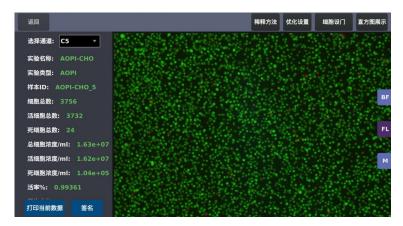
• GFP&RFP: Transfection rate.

## 4. Choose the chambers and count

- Enter into the application
- Choose the chambers
- Go to Count



#### 5. View and Save Results



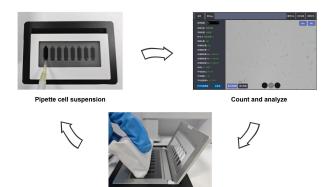
#### 6. Toolbar

- Dilution Calculator: enables the user to define target cell number or density and culture volume. The counted result will automatically provide instructions to correctly dilute cultures to reach the desired target.
- Optimize Settings: Once a sample has been counted, a subset of the protocol parameters can be further adjusted to optimize the result. That value including Minimum Diameter and Maximum Diameter; Threshold.
- Cell Size Histogram: View cell size distribution and cluster histogram
- 7. Database: Enter into the start time and end time, experiment type, sample name, you can search for result.
- Data available to export includes results, images, and histograms in .CSV, PDF, IMAGE.
- Growth curve was auto made.
- The Delete function permanently removes the selected data from the instrument database and cannot be restored to the instrument.
- 8. Once a measurement is complete, lift arm and wipe away sample with clean,dry color wipe. And then spray 70% ethanol, use another white dry wipe to clean again and close the up surface. When surface is close, we can enter into the next count.

### 9. Power off

Enter into the settings app and choose "power off". When the screen black, toggle the power switch to shut down the instrument.





Wipe clean-enter into next detection

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