



Quick Operation Guide

Ver 1.2

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Figure 1. Front View



Figure 2. Back View

The EzCube package includes the **EzCube Fluorometer**, **Type C Power Adapter**, **Power Cord**, **Quick Operation Guide**, and **Test Report**.

- Turn on the **EzCube Fluorometer** by plugging the supplied Type C power adapter into a power inlet on the back of the instrument.
- A tap on the **EzCube** icon will start the self-test process, after which the main menu will be displayed. **DO NOT** open the cover until the system diagnosis has completed.



Figure 3. Main Menu

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Note:

- Ensure all reagents are at room temperature.
- Label the tube lid, not the side of the tube, as this may interfere with the sample reading.

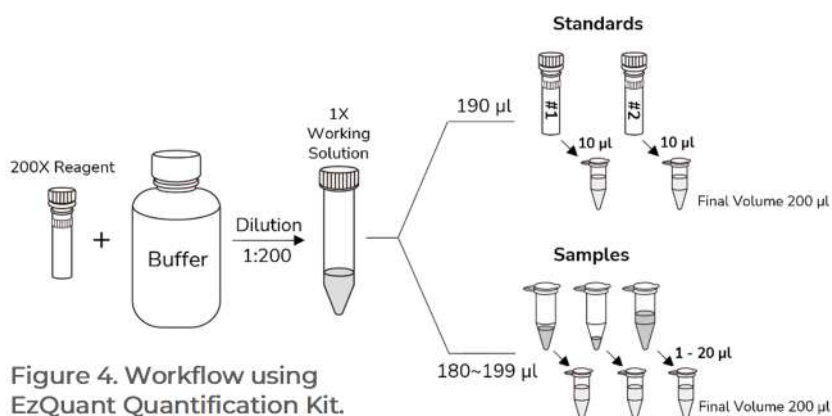


Figure 4. Workflow using EzQuant Quantification Kit.



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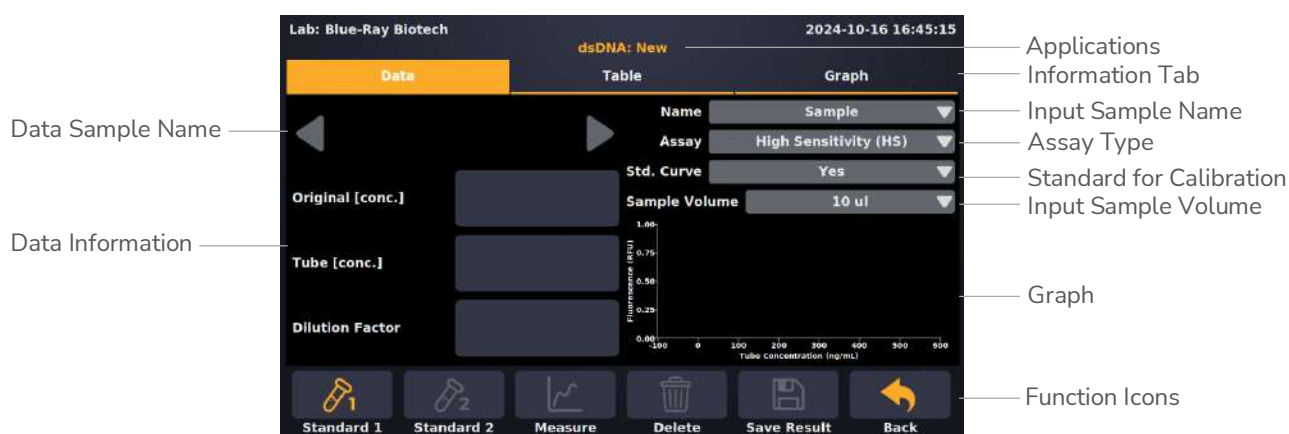


Figure 5. dsDNA – Data Tab Page

- Select the correct **Assay / Standard Curve** (newly created or previous calibration) based on the experiment protocol.
- Insert **Standard #1** into the sample chamber and tap **Standard 1**.
- Insert **Standard #2** into the sample chamber and tap **Standard 2**.
- (For Protein assay only) Insert **Standard #3** into the sample chamber and tap **Standard 3**.
- When the standard curve is successfully established, a curve will appear in the lower right corner of the chart, and the **Measure** icon will light up.
- Enter the **Sample Volume** (1 - 20 μ l) according to the experiment protocol.
- Enter the **Sample Name** (optional) or use the auto-numbering system.
- Insert the sample tube into the sample chamber and tap **Measure**.



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Users can create a custom assay to quantify a sample.

Prepare samples of varying concentrations using a fluorescence reagent and read the RFU using the corresponding excitation light source in the fluorometer application. Input data into the **Standard Assay Template** to obtain parameters for developing new assays.



Figure 6. Setting Tab Page of Standard Assay

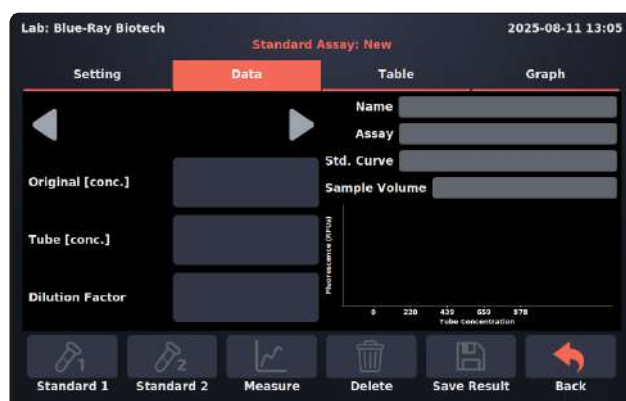


Figure 7. Data Tab Page of Standard Assay



To measure the RFU of the samples based on the selected excitation filter.



Figure 8. Fluorometer



Calculates the volumes of fluorescent dye and buffer required to prepare the working solutions for samples/standards.

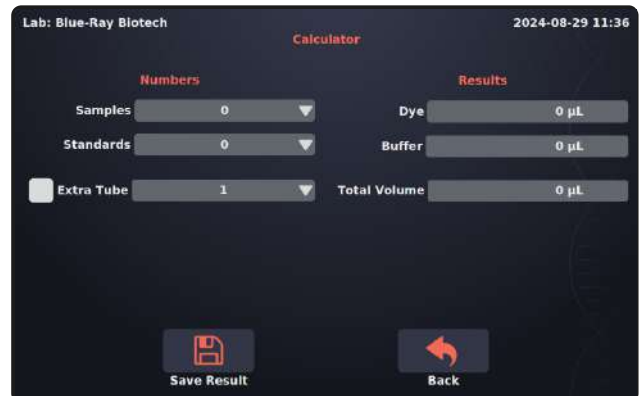




Figure 9. Calculator

a. Tap  to **Save Result**.

- **User folder:** Choose an existing user folder or tap  **New User** to create a new one.
- **Flash drive:** Insert a FAT/FAT32 formatted flash drive and the icon  will show up.

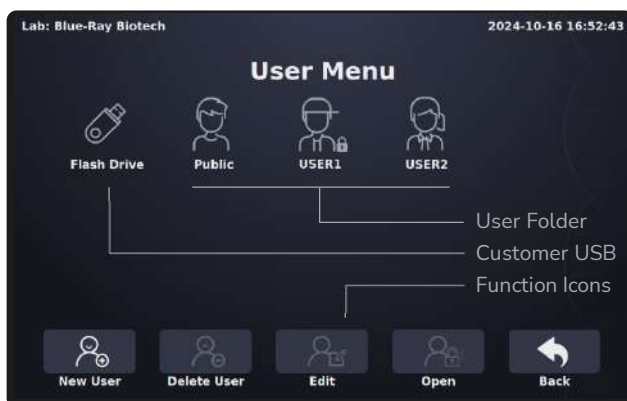


Figure 10. User Menu



Figure 11. System Menu



For more information,
visit www.blue-raybio.com

EzCube Fluorometer
Product Webpage