ImageStream Mark-II Operation Quick Start Guide

ISX Mk II Operation Quick Start Guide

To begin normal operation of ISX- MkII:

1. Power up the system and launch the **ISX** application.
2. Check to be sure the buffer containers are full and the waste tank is empty.
3. Select **Startup** and the instrument will flush the system and load sheath in ~12min.
4. In the Calibrations view, press **Start all calibrations and tests**. Calibration takes ~10min and when all tests pass the ASSIST button turns green and the system is ready to run for the day.
5. Select load **default template** or experiment template from the File menu.
6. Press **Load** and, load an aliquot of a sample with each fluorochrome present.
7. In the Illumination section, turn on the appropriate **lasers** for each fluorochrome in the experiment**.**
8. Adjust the laser power to maximize brightness and **prevent saturation**.
9. Create dot plots and **regions** to identify the cells to collect, or collect all events.
10. Set the **acquisition parameters** including file name, destination folder, number of events and population(s) to collect.
11. Chose **file format**, either .rif (IDEAS), .fcs (FACS software) or both in the file drop down.
12. **Compensate** data if needed. Data can always be recompensed in IDEAS post acquisition.
    A.) Load the first single color compensation control sample.
    B.) Open the compensation manager using the icon in the workspace tool bar.
    C.) Press the “Collect Control and Compute Values” button.
    D.) When prompted, “Add Dye Coefficients to Matrix,” click OK.
    E.) Continue with steps A-C for each fluorochrome used in the experiment, this will automatically build the correct compensation values for your experiment.
    F.) Close the window and the new matrix will be applied to all subsequent data.
13. Continue collecting all experiment files using consistent instrument settings *(In general brightfield will be in channels 1 and 9, SSC ~40mw in channel 6, and the cells to collect R1 using brightfield area vs. aspect ratio to identify single cells).*
14. Save an experiment **template** by selecting Save Template from the File menu.
15. Shut the system off by pressing the **Shutdown** button. The system will sterilize itself in ~40min.

The ImageStream MkII is a class 1 laser instrument.

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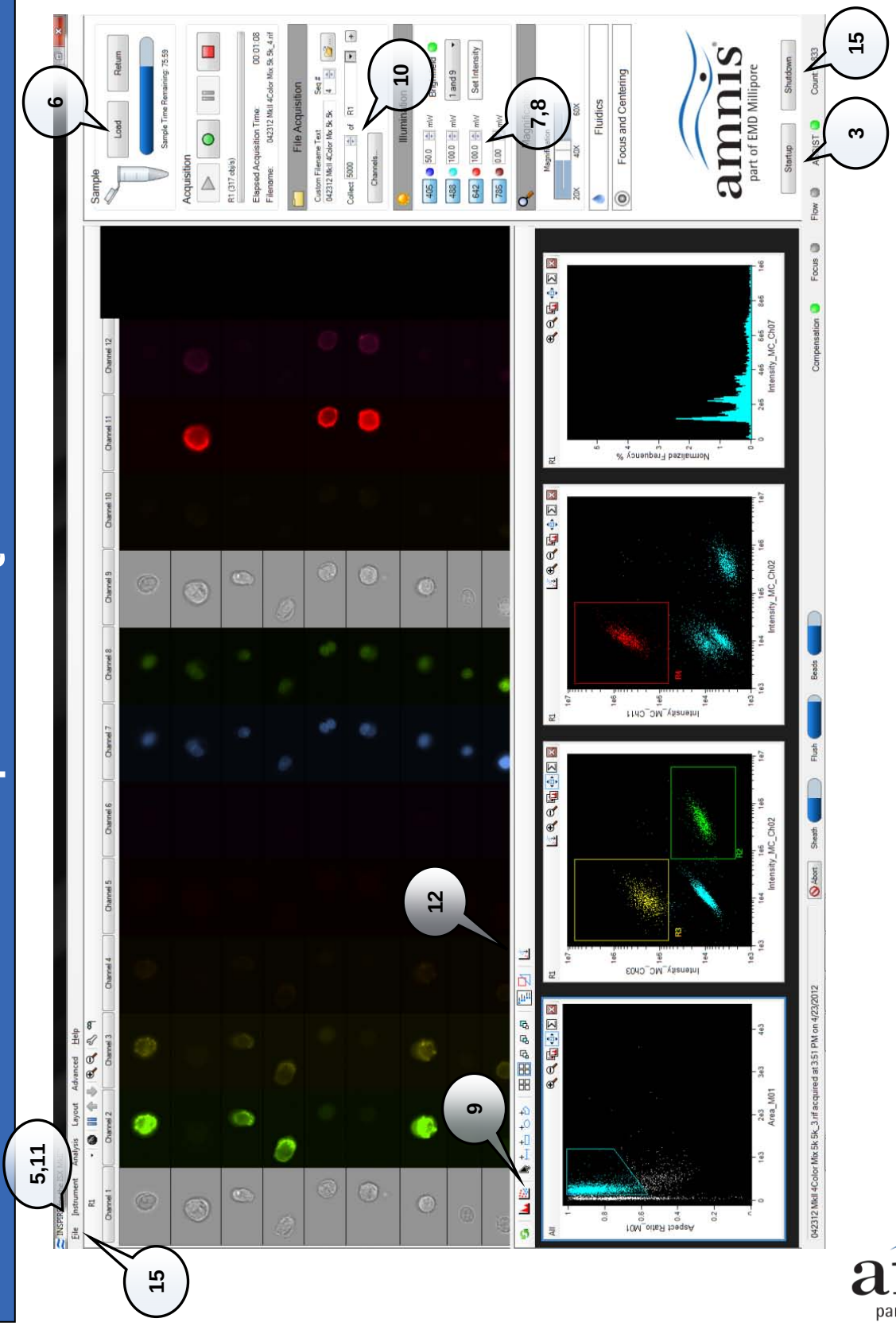

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