

## Cytoflex Tutorial Checklist

### Working in the flow unit:

- No food or beverages are allowed except for closed bottles
- The workstation should be left clean and organized
- Ensure you take your belongings, such as articles, protocols, experiment layout, etc.
- Instructions on the reservation system and working with the KIOSK
- REGISTRATION FORM, Reservation and registration, Safety Instructions, Shadow protocol.

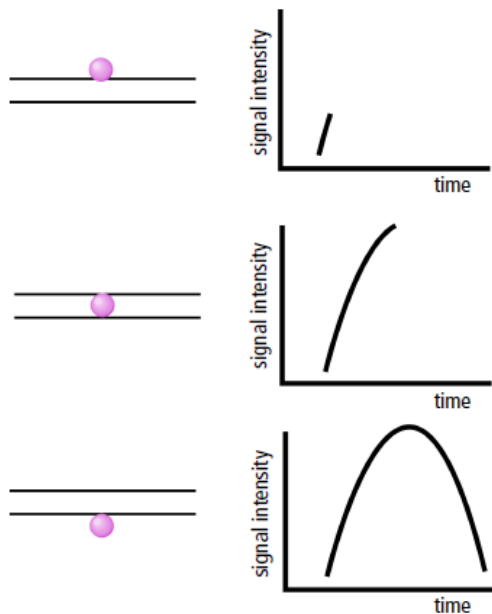
### Kiosk

- ☐ Sign in before starting work (verify budget)
- ☐ Sign out after finishing work
- ☐ If you have a tutorial, sign up for both sessions
- ☐ Turn off Cytoflex if the next user has more than 2 hours until their session
- ☐ Verify that the next user is coming (after working hours)

### CytExpert

- ☐ Startup and prime
- ☐ Run fluorospheres daily QC Beads
- ☐ Experiment (open new, create a template)
- ☐ Sample Acquisition (counting and recording, moving between samples)
- ☐ Compensation
- ☐ Adjust detector voltages
- ☐ Graphs and gates (creating, renaming, modifying and applying to all samples)
- ☐ Record mode (storage gate and stopping gate)
- ☐ Export and access data (PDF batch export)
- ☐ Analysis on CytExpert, Flowjo, FCSEXpress and Cytobank
- ☐ Cleaning
- ☐ Shutdown

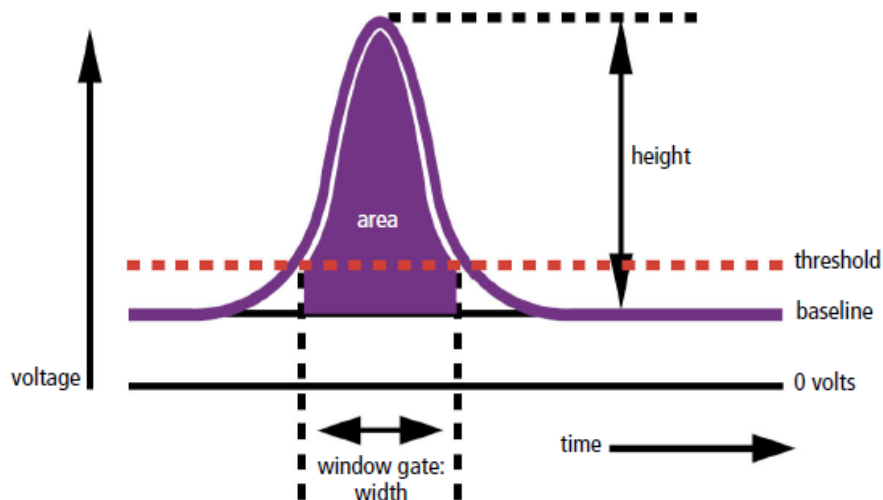
**Figure A-10** Anatomy of a pulse



## Pulse Measurements

The pulse processors measure pulses by three characteristics: height, area, and width.

**Figure A-11** Pulse measurements



- Pulse height is the maximum digitized intensity measured for the pulse.
- Pulse area is an integration of the digitized measures over time.
- Pulse width calculates:  $\frac{\text{area}}{\text{height}} \times 64,000$