

## About



The ThermoFisher Laboratory Automation System (LAS) serves as the cornerstone technology for the Living Biofoundry, enabling execution of automated customized synthetic biology and workflows at >500 samples-per-week. The LAS is equipped with over 10 functional instrumental components, including: a state-of-the-art Spinnaker™ microplate robot, automated incubators, reagent dispensers, thermal cyclers, plate sealer, and carousels/racks that are seamlessly integrated through the MOMENTUM application programming interface that is fully-compatible with laboratory information management systems (LIMS).

## Equipment Available

### Thermo Scientific Multidrop Combi



The Multidrop Combi is an automatic, programmable, eight-channel microplate bulk reagent dispenser for microvolume dispensing. It can dispense 1 to 8 different reagents from external liquid reservoirs into different rows and can be used in several applications, for example, in drug discovery/highthroughput screening, genomic, proteomic and cell-based assays, and ELISA. It has a volume range of 0.5 to 2500 µl for 96-well plates of heights 5-50 mm.

#### User Notes

**Before Use:** Place the dispensing cassette tubes in proper position. Ensure that the waste containers are not full.

**After Use:** Flush out the tubing with deionized distilled water. Empty out waste containers, disposing of the contents as appropriate. Place the dispensing cassette tubes in rest position. For more information please read:

[multidrop\\_combi.pdf](#)

## BioTek ELx405 Microplate Washer



The BioTek ELx405 is the first deep well plate washer that aspirates and dispenses into 96- and 384-well deep well and standard height microplates.

### User Notes

**Before Use:** Ensure that the waste containers are not full.

**After Use:** Flush out washer with deionized water. Empty out waste containers, disposing of the contents as appropriate. For more information please read:

[elx405cleaning.pdf](#)

## Automated Thermal Cycler

The Automated Thermal cycler (ATC

## Reference documentation

[momentum\\_6.1\\_training\\_module\\_4\\_v3\\_spinnaker\\_advanced.pdf](#)

[spinnaker\\_user\\_guide.pdf](#)

[30124664\\_ifu\\_spark\\_ref\\_english\\_v2\\_0.pdf](#)

[operating\\_instructions\\_cytomat\\_44.pdf](#)

[elx405\\_user\\_manual\\_sd-xb000358.pdf](#)

[440140\\_-\\_azenta\\_xpeel\\_user\\_manual.pdf](#)

[multidropcombimanual.pdf](#)

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