Lionheart™ FX Automated Live Cell Imager is an all inclusive microscopy system, optimized for live cell imaging with up to 100x air and oil immersion magnification. Brightfield, color brightfield, phase contrast and fluorescence channels offer maximum support for a wide range of imaging applications. A unique environmental control cover provides incubation to 40 °C and effective containment for CO₂/O₂ control. The available humidity chamber and reagent injectors add a greater level of environment optimization for live cell imaging workflows. Gen5™ 3.0 software provides automated image capture and analysis, plus annotation and movie maker functions. Gen5 3.0 offers ease and simplicity across a broad range of live and fixed cell applications. Augmented Microscopy is the combination of all of these features in one compact system. With Lionheart FX, you can capture, analyze, annotate and produce videos with ease.

Features:

- Automated digital microscopy with up to 100x magnification for whole organism to sub-cellular imaging
- Brightfield, color brightfield, phase contrast and fluorescence with image and laser autofocus to meet a wide range of imaging applications
- Powerful Gen5 3.0 software with seamless image capture, annotation, analysis and movie making. Requires no extensive training.
- Automated kinetic live cell assays, with temperature and CO₂/O₂ control, humidity and reagent injectors
- Auto Focus, Auto Exposure, Auto LED Intensity
- Fully integrated and compact design offers quick installation and setup, no extensive training required

www.cellimager.com

www.biotek.com
Typical Applications:
- Live cell imaging
- Cell culture QC
- Cell proliferation
- Apoptosis
- 3D cell culture
- Tumor invasion
- Signal transduction
- Stem cell differentiation
- Phenotypic assays
- Cell migration and invasion
- Calcium flux
- Translocation
- Cytotoxicity
- Cell viability
- Wound healing
- Phagocytosis
- Slide scanning
- H & E imaging
- Label-free live cell assays

Optional Accessories:
- Environment Control Cover: For temperature control to 40 °C, CO₂/O₂ control module support and “darkroom” fluorescence
- Humidity Chamber with rapid gas re-charge
- Reagent Injector Module
- All-in-One HP Desktop Computer
- GenS™ Secure for 21 CFR Part 11 compliance
- GenS Image+ and Image Prime Software for advanced image analysis
- Vessel adapters (T25, T75, 35 and 60 mm dishes, slides)

See [www.biotek.com](http://www.biotek.com) for complete list of accessories.

Configurations:


Reagent Injector Module (optional)

Number: 2 syringe pumps
Dispense volume: 5 – 1000 µL in 1 µL increment
Dispense tip options: Aligned tip – aligned with optical path for dispensing for fast kinetic assays
Offset tip – dispensing is offset from the optical path
Dead volume: <1.65 mL with back flush
Labware supported: 6- to 384-well microplates, Petri and cell culture dishes, chamber slides
Dispense precision: <2% at 50 – 200 µL
Dispense accuracy: ±1 µL or 2%

Physical Characteristics

Power: 250 Watts max.
Dimensions: With environment control cover closed or without cover: 18.3" D x 17.9" W x 14.1" H (46.5 cm x 45.5 cm x 35.8 cm)
With environment control cover fully open: 18.3" D x 17.9" W x 27.5" H (46.5 cm x 45.5 cm x 69.8 cm)
Weight: Without environmental control cover: 51 lbs (23.1 kg)
With environmental control cover: 58 lbs (26.3 kg)

Regulatory

CE and TUV marked. RoHS compliant. Configurations for In Vitro Diagnostic use are available.

Performance values represent the average observed factory test values. Specifications subject to change.

© 2015 Thermo Fisher Scientific Inc. All rights reserved.
Trademarks used are owned as indicated at [www.fishersci.com](http://www.fishersci.com/trademarks).

In the United States:
For customer service, call 1-800-766-7000
To fax an order, use 1-800-926-1166
To order online: [www.fishersci.com](http://www.fishersci.com)

In Canada:
For customer service, call 1-800-234-7437
To fax an order, use 1-800-463-2996
To order online: [www.fishersci.ca](http://www.fishersci.ca)

[Easy access to filter/LED cubes and objectives.](image)