

A close-up photograph of a microscope's objective lens and stage. A clear, multi-well microplate is positioned on the stage, illuminated from below with a blue light. The background is dark, emphasizing the instrument and the sample.

Imaging &
Microscopy


A close-up photograph of a clear microplate being held by a robotic arm. The plate is filled with a blue liquid, and the background is dark, highlighting the plate and the liquid.

Detection

Life Science Instrumentation & Software

 **BioTek**[®]

A part of **Agilent**

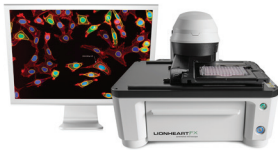
A close-up photograph of a liquid handling robot's tip dispensing a blue liquid into a well of a microplate. The plate is held in a black frame, and the background is dark, focusing on the liquid transfer process.

Liquid
Handling

A close-up photograph of a robotic arm holding a clear microplate. The plate is filled with a pink liquid, and the background is dark, highlighting the robotic arm and the plate.

Robotics

I m a g i n g & M i c r o s c o p y



Lionheart™ Automated Microscopes

- ▶ Automated image capture, processing, and analysis on a single platform
- ▶ Up to 100x oil immersion; brightfield, high contrast brightfield, color brightfield, and fluorescence; phase contrast (Lionheart FX)
- ▶ Z-stacking and z-projection, montage and stitching, automated videos from time lapse sequences
- ▶ Image-based and patented laser autofocus, auto LED intensity, auto exposure
- ▶ Live cell assay support: incubation to 40 °C and CO₂/O₂ control (Lionheart FX)



Cytation™ Cell Imaging Multi-Mode Readers

- ▶ Fluorescence and brightfield imaging up to 60x, high contrast brightfield, phase contrast, and color brightfield (modes vary by instrument configuration)
- ▶ Wide field of view for fast, whole well imaging
- ▶ Upright reflected and transmitted light microscopy (Cytation 7)
- ▶ Single and multi-color, montage, time lapse, z-stacking methods and z-projection
- ▶ Patented Hybrid Technology™ combines filter-based and monochromator-based optics (Cytation 5)
- ▶ Variable bandwidth monochromators for fluorescence and laser-based Alpha (Cytation 5)
- ▶ Live cell assay support: CO₂/O₂ control, incubation and shaking
- ▶ Peltier Cooling Module maintains ambient environmental stability



Scratch Assay Starter Kit

- ▶ Contains AutoScratch™ Wound Making Tool, Scratch Assay App, sample plates and cleaning reagents
- ▶ Simple installation and implementation
- ▶ Creates consistent, repeatable wounds automatically
- ▶ Scratch Assay App has pre-defined protocols
- ▶ Automated calculations: % confluence, wound width and maximum healing rate (max V)



Cell Count & Viability Starter Kit

- ▶ All-inclusive kit automates cell counting for higher quality data
- ▶ Fast cell count for up to 8 samples per batch
- ▶ Automatic % live/dead calculation
- ▶ Built-in dilution calculator

D e t e c t i o n



Synergy™ Neo2 Multi-Mode Reader

- ▶ Patented Hybrid Technology™ combines filter-based and monochromator-based optics
- ▶ Scientific quad-monochromators with 3 – 50 nm continuously variable bandwidth
- ▶ High performance filter system uses multiple PMT detectors
- ▶ TRF laser and Alpha laser for speed and sensitivity
- ▶ Live cell support: temperature and CO₂/O₂ control, direct bottom illumination
- ▶ UV-Vis absorbance, fluorescence, luminescence, TRF, TR-FRET, FP, Alpha



Synergy H1 Multi-Mode Reader

- ▶ Patented Hybrid Technology™ combines filter-based and monochromator-based optics
- ▶ Variable bandwidth monochromators for fluorescence excitation/emission
- ▶ Top/Bottom fluorescence, UV-Visible absorbance, luminescence, FP, TRF and TR-FRET
- ▶ Optional Gas Controller controls and monitors CO₂ and O₂



Synergy HTX Multi-Mode Reader

- ▶ Fluorescence, UV-Vis absorbance and luminescence in 6- to 384-well plates, Alpha detection
- ▶ Linear and orbital shaking, incubation; available dual reagent dispenser
- ▶ Take3™ Micro-Volume Plate compatible



Synergy LX Multi-Mode Reader

- ▶ Affordable, easy-to-use multi-mode reader
- ▶ UV-Vis absorbance, 200 to 999 nm
- ▶ Filter-based fluorescence and luminescence
- ▶ Take3 Micro-Volume Plate compatible



LogPhase™ 600 Microbiology Reader

- ▶ Multi-plate absorbance reader: 4-plate capacity
- ▶ Designed for microbial growth curve analysis
- ▶ Optimized incubation and condensation control provide consistent growth conditions
- ▶ Targeted, powerful and easy-to-use app



Epoch™ 2 Microplate Spectrophotometer

- ▶ Large color touch screen interface with onboard software
- ▶ Filter-free 200 – 999 nm wavelength range
- ▶ Reads 6- to 384-well plates and 2 µL samples with Take3 Micro-Volume Plate
- ▶ Shaking and incubation to 65 °C with Condensation Control™



Epoch Microplate Spectrophotometer

- ▶ Select individual wavelengths from 200 – 999 nm without filters
- ▶ Perform spectral scans, end point, kinetic, or well area scans
- ▶ Take3™ Micro-Volume Plate compatible



ELx808™ Absorbance Reader

- ▶ 380 – 900 nm (340 – 900 nm option)
- ▶ 96-well plate reading of fast kinetics or end point assays
- ▶ Incubation to 50 °C (option) and shaking



800™ TS Absorbance Reader

- ▶ Reads plate types from 6- to 384-well
- ▶ Wavelength range from 400 – 750 nm (340 – 750 nm option)
- ▶ Temperature control and shaking (option)



Take3 and Take3 Trio Micro-Volume Plates

- ▶ Up to 16 or 48 2 µL samples for nucleic acid and protein quantification, without dilution
- ▶ Use with Epoch, Epoch 2, Synergy and Cytation readers (with absorbance detection module)
- ▶ Pre-programmed protocols in Gen5 software for easy multi-sample measurements

Liquid Handling



EL406™ Washer Dispenser

- ▶ 96-, 384- and 1536-well microplates
- ▶ Combines fast microplate washing with up to three reagent dispensers in one, compact instrument
- ▶ Optional buffer switching for up to 4 buffers, biomagnetic separation and vacuum filtration modules
- ▶ Typical applications: ELISAs, cell-based assays, MSD automation, magnetic/polystyrene bead assays



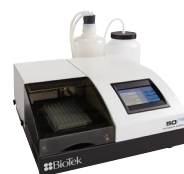
405™ TS and 405 LS Washer

- ▶ 96- and 384-well microplates
- ▶ Password protection: Lock/unlock protocols
- ▶ Patented Verify™ clog detection technology for dispense and aspiration tubes
- ▶ Gentle dispense and adjustable vacuum pressure for non-disruptive cell washing
- ▶ Programmable residual volumes
- ▶ Magnetic and polystyrene bead assays, along with conventional ELISAs



ELx405™ Select Deep Well Washer

- ▶ 96- and 384-well deep well and standard height microplates
- ▶ Built-in ultrasonic cleaner option for effortless maintenance
- ▶ Wash cell assays with extra low flow option



50™ TS Washer

- ▶ Washer with 4-, 8-, 8s-, 2 x 8- and 12-well manifold options for 24-, 96- and 384-well microplates
- ▶ Syringe pump provides precise and accurate dispensing
- ▶ Optional buffer switching for up to 3 buffers
- ▶ Biomagnetic separation and vacuum filtration modules



MultiFlo™ FX Multi-Mode Dispenser

- ▶ 6- to 1536-well microplates in low profile, standard height and deep well formats
- ▶ 500 nL to 3 mL dispensing; from 1 to 4 reagents
- ▶ Dispense to custom-mapped individual wells with available RAD™ module
- ▶ Available wash module for 6- to 384-well plates
- ▶ Unique combination peristaltic pump and syringe drive technologies, fully modular and upgradable
- ▶ Automated gentle media exchange for 3D cell structures with AMX™ module



MicroFill™ Dispenser

- ▶ 24-, 96- and 384-well microplates; 5 µL to 6 mL dispense volume
- ▶ No re-calibration required
- ▶ Completely autoclavable fluid path for guaranteed sterility

Software



Gen5™ Microplate Reader and Imager Software

- ▶ Control of all BioTek microplate readers and imagers
- ▶ Intuitive interface for protocol and data reduction and results output
- ▶ Powerful analysis of absorbance, fluorescence, luminescence and image data
- ▶ 21 CFR Part 11 compliance available with Gen5 Secure
- ▶ Advanced image analysis with Gen5 Image+ and Image Prime

Software Apps

Quantitative Assay Apps

- ▶ Simple, effective interface for Bradford, Lowry, BCA protein assays
- ▶ Compatible with all BioTek absorbance-detection capable microplate readers

Scratch Assay App

- ▶ Capture and analyze scratch wound images and data
- ▶ Compatible with Lionheart FX, Cytation 5 and Cytation 1

Cell Count & Viability App

- ▶ Easy, automated cell counting and rapid results
- ▶ Compatible with Cytation 5 (with phase contrast) and Lionheart FX

Liquid Handling Control™ (LHC) Software

- ▶ Full control for EL406, 405 TS, 405 LS, ELx405 and MultiFlo FX
- ▶ Intuitive StepWise™ protocol creation with an unlimited number of methods included
- ▶ Custom maintenance reminders for continued instrument performance in busy laboratories
- ▶ 21 CFR Part 11 compliance and additional security with LHC™ Secure

Robotics



BioSpa™ 8 Automated Incubator

- ▶ Complete workflow automation, sample prep to detection
- ▶ Temperature, CO₂/O₂ control; humidity monitoring
- ▶ Records environment conditions; automated alerts
- ▶ Compact for biosafety cabinet use
- ▶ Uncomplicated software and simple integration



BioStack™ Microplate Stacker

- ▶ <10 seconds plate exchange time
- ▶ De-lidding capability with BioStack4
- ▶ 24-, 48-, 96-, 384- and 1536-well plate compatible (BioStack model dependent)
- ▶ Direct control through washer and dispenser interface or via LHC or Gen5 software
- ▶ Compatible with BioTek readers and liquid handlers (except 50 TS, 800 TS, ELx808)

Contact us today:

In the United States

Order online: fishersci.com
Fax an order: 1-800-926-1166
Call customer service: 1-800-766-7000

In Canada

Order online: fishersci.ca
Fax an order: 1-800-463-2996
Call customer service: 1-800-234-7437

 **fisher scientific**
part of **Thermo Fisher Scientific**