

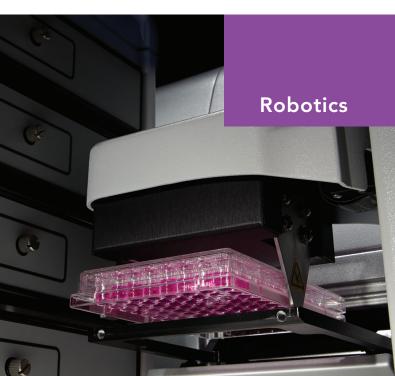
Life Science Instrumentation & Software











Imaging & Microscopy



Lionheart™ Automated Microscopes

- Automated image capture, processing, and analysis on a single platform
- ▶ Up to 100x oil immersion; 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, phase contrast and color brightfield (Cytation 5)
- 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



AutoScratch™ Wound Making Tool

- Automatically creates wounds with high consistency from plate to plate
- Easy-to-use design setup in minutes with no training required
- > 24- and 96-well plates supported with simple manifold change and no tools required
- ▶ Unattended multi-step cleaning and decontamination
- Easily replaceable pins minimize downtime between assays

Detection



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
- Ultra-fast plate processing speeds
- ▶ Live cell options: temperature and CO₂/O₂ control, direct bottom illumination



Synergy™ H1 Multi-Mode Reader

- ▶ Patented Hybrid Technology™ combines filter-based and monochromator-based optics
- Top/Bottom fluorescence, UV-Visible absorbance, luminescence, FP, TRF and TR-FRET
- ▶ Gas Controller available for Synergy H1: Controls and monitors CO₂ and O₂ in the system



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



PowerWave™ HT Microplate Spectrophotometer

- Continuous wavelength selection from 200 999 nm, without filters
- Reads 96- and 384-well plates in as little as 5 seconds (96 wells)
- Incubation to 50 °C and user programmable shaking









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 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

- \blacktriangleright Up to 16 or 48 2 μ L 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

iquid Handling

EL406™ Washer Dispenser

- ▶ 96-, 384- and 1536-well microplates
- Combines fast microplate washing with up to three reagent dispensers in one, compact instrument
- Doptional 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
- ▶ USB flash drive ports enable file transfer and storage (405 TS)
- ▶ Patented Verify™ clog detection technology for dispense and aspiration tubes
- ▶ Gentle dispense for non-disruptive cell washing
- 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



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</p>
- 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 Information

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