SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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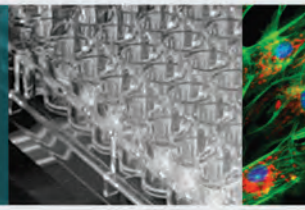
I M A G I N G

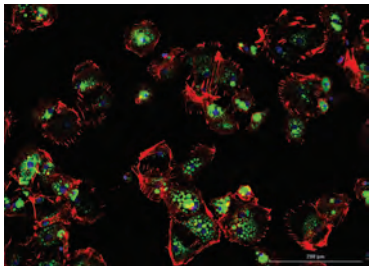
Cytation™ 1 Cell Imaging Multi-Mode Reader



Cytation™ 1 Cell Imaging Multi-Mode Reader eliminates the complexities of multi-mode detection without compromising performance. It can be configured with optional fluorescence and high contrast brightfield cellular imaging up to 60x magnification - this unique, patented design provides both quantitative phenotypic cellular information with well-based quantitative data, in an affordable, compact system.

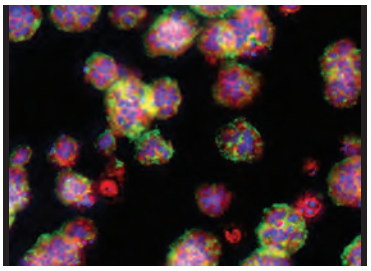
Cytation 1's multi-mode detection module includes high sensitivity filter-based fluorescence and luminescence, and a monochromator system for UV-Vis absorbance. Temperature control to 45 °C and shaking are standard; CO_2/O_2 control and reagent injectors are available. BioTek's powerful Gen5™ software automates image capture, plate reading, data and image analysis and reporting.

Live cell assays



Primary hepatocytes, 10x

Zebrafish embryo



Z-stack, 20x

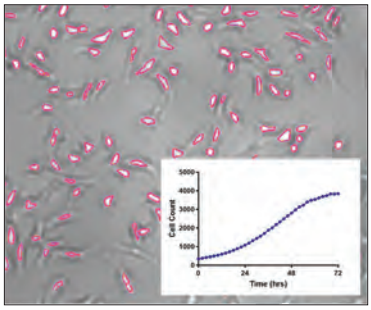
Features:

- Affordable, patented quantitative digital microscopy with optional multi-mode microplate detection.
- Augmented Microscopy™ using Gen5 software for automated image capture to quantitative publication-ready data.
- Fluorescence and brightfield imaging from 1.25x to 60x, imaging larger samples to intra-cellular details.
- Affordable automation: automated XY stage, focus, exposure, image capture and LED intensity.
- Cell friendly design – 4-Zone incubation to 45 °C with Condensation Control, and CO_2/O_2 control.
- High performance filter-based fluorescence and luminescence detection with monochromator-based UV-Vis absorbance.
- Available angled injectors for rapid inject/image or read assays

BioTek®
www.biotek.com

Typical Applications:

- Cell culture QC
- Cell migration and invasion
- Food/ Beverage Quality and Safety Testing
- Cell Proliferation
- Calcium flux
- ELISA, kinetic ELISA
- Apoptosis
- Translocation
- Nucleic acid quantification
- 3D cell imaging
- Cytotoxicity
- Protein quantification
- Tumor invasion
- Cell viability
- Wound migration
- Signal transduction
- Neurite outgrowth
- Stem cell differentiation
- Phenotypic assays
- Phagocytosis



High contrast brightfield for cell counting

Configurations:

CYT1AF: Cytation 1 w/filter-based fluorescence and luminescence, monochromator-based UV-Vis absorbance. Includes Gen5 software. Fluorescence filter cubes sold separately.

CYT1V: Cytation 1 w/Cytation 1 with fluorescence and high contrast brightfield imaging. Includes imaging controller and Gen5 software. Imaging filter/LED cubes and objectives sold separately.

CYT1AFV: Cytation 1 w/fluorescence and high contrast brightfield imaging, filter-based fluorescence and luminescence, monochromator-based UV-Vis absorbance. Includes imaging controller and Gen5 Software. Imaging filter/LED cubes, objectives and fluorescence filter cubes sold separately.

Optional Accessories:

- CO_2/O_2 Gas Controller
- Gen5™ Image+ and Image Prime for advanced image analysis
- Gen5 Secure for 21 CFR Part 11 compliance
- Dual Reagent Injector Module
- BioStack™ Microplate Stacker
- BioSpa™ 8 Automated Incubator
- Take3™ Micro-Volume Plates


Cytation 1 interfaces with the BioSpa 8 Automated Incubator for live cell assay workflows.

BioTek®
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Winooski, Vermont 05404-0998, USA

Phone: 802-655-4040 • Toll-Free: 888-451-5171
Outside the USA: 802-655-4740
www.biotek.com

Specifications:

General

Microplates:	6- to 384-well microplates, 1.0" maximum height
Other labware supported:	Microscope slides, Petri and cell culture dishes, cell culture flasks (T25), counting chambers (hemocytometer) Take3™ Micro-Volume Plates
Temperature control:	4-Zone™ incubation to 45 °C with Condensation Control™
Shaking:	Linear, orbital, double orbital
Automation:	BioStack™, BioSpa™ 8, and 3rd party automation compatible
CO_2 and O_2 control:	0 – 20% CO_2 control and 1 – 19% O_2 control, with optional Gas Controller
Software:	Gen5™ Microplate Reader and Imager Software included

Imaging

Imaging modes:	Fluorescence and high contrast brightfield
Imaging methods:	Single color, multi-color, montage, time lapse, Z-stacking
Light source:	High power LEDs
Camera:	16-bit gray scale, Sony CCD, 1.25 megapixel
Resolution:	0.3 µm/pixel at 20x
Filter cube capacity:	Up to 4 onboard, user-replaceable cubes
Colors available:	More than 15 colors
Objective capacity:	2 onboard, user-replaceable objectives
Available objectives:	1.25x, 2.5x (2.25x eff), 2.5x (2.75x eff), 4x, 10x, 20x, 40x, 60x
Automated functions:	Autofocus, user-trained autofocus, autoexposure, auto-LED intensity
Autofocus methods:	Image-based autofocus; laser autofocus option
Image collection rate:	Image-based autofocus: 96 wells, 1 color (DAPI), 4x, 6 minutes Laser autofocus: 96 wells, 1 color (DAPI), 4x, <3 minutes Burst Mode: 10 fps, single well, single color at <= 50ms integration time

Fluorescence Intensity

Light source:	Xenon flash lamp
Detector:	PMT
Read methods:	End point, kinetic, area scanning, inject/read process
Wavelength selection:	Deep blocking bandpass filters/dichroic mirrors
Dynamic range:	7 decades
Sensitivity:	Fluorescein: 0.25 pM (0.025 fmol/well, 384-well plate)
Read speed:	96 wells: 11 seconds; 384 wells: 22 seconds

Luminescence

Sensitivity:	10 amol ATP (flash); 100 amol (glow)
Read modes:	End point, kinetic, area scanning, inject/read process

Fluorescence Polarization

Sensitivity:	1.2 mP standard deviation at 1nM fluorescein
Wavelength range:	400 – 700 nm
Read modes:	End point, kinetic, inject/read process

Time-Resolved Fluorescence

Sensitivity:	Europium 40 fM (4 amol/well, 384-well plate)

Absorbance

Light source:	Xenon flash lamp
Wavelength selection:	Monochromator
Wavelength range:	200 – 999 nm, 1 nm increment
Bandwidth:	2.4 nm
Dynamic range:	0 – 4.0 OD
Resolution:	0.0001 OD

Reagent Injectors

Number:	2 syringe pumps
Dispense volume:	5 – 1,000 µL in 1 µL increment
Dead volume:	<1.1 mL with back flush

Physical Characteristics

Power:	100-240 VAC, 50/60 Hz (24VDC external power supply, 160W min)
Dimensions:	20" D x 16.5" W x 17.5" H (50.8 cm x 41.91 cm x 44.5 cm)
Weight:	65 lbs (29 kg)

Regulatory

Power:	CE and TUV marked. Models for In Vitro Diagnostic use are available.

Performance values represent the average observed factory test values.

Specifications subject to change.