Live-cell imaging system with interchangeable objectives

Automated multiposition time-lapse imaging in brightfield and two fluorescence channels, with interchangeable 2×, 4× and 10× objectives.

Cell imaging



Features

- Change between 2×, 4× and 10× objectives to balance field of view and detail.
- Acquire brightfield and green/red fluorescence while the culture remains inside the incubator.
- A moving camera and motorised XYZ acquisition keep the sample vessel stationary.
- Software supports confluence, fluorescence cell counting, z-projection, stitching and spheroid/organoid analysis.

Technical specifications

Imaging modes	Brightfield and two fluorescence channels
Objectives	2×, 4× and 10×; user-interchangeable
Fluorescence filters	Green Ex 470/40 nm, Em 540/50 nm; red Ex 562/40 nm, Em 641/75 nm
Camera	5 MP CMOS
Field of view at 2×	2.02 × 1.49 mm
Field of view at 4×	1.41 × 1.05 mm
Field of view at 10×	0.70 × 0.52 mm
Acquisition	Motorised XYZ; multiple positions; autofocus and manual focus
Culture vessels	Plates up to 96 wells, flasks, dishes and slides; holder-dependent
Exports	TIFF, AVI, CSV; JPG, PNG and BMP image export
Computer	External PC, Windows 10 or later
Recommended incubator	Above 200 L; check internal clearance
Dimensions (H × W × L)	250 × 338 × 412 mm
Weight	9.6 kg
Operating environment	10-40 °C; 20-95% relative humidity
Power input	100-240 V AC, 50/60 Hz

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Applications

- Monitor cell growth and confluence during culture.
- Compare treated and control cultures in time-lapse experiments.
- Follow wound closure, fluorescence changes and cell-cycle progression.
- Observe spheroid cytotoxicity and immune-cell interactions using appropriate assays.

Configurations and accessories

- Specify a single objective or the 2×/4×/10× objective set.
- Select the holder for your plate, flask, dish or microscope slide.
- Include the incubator model, internal dimensions and cable access in your enquiry.

Selection notes

- For research use. Match the objective, vessel holder and fluorescence configuration to your assay when requesting a quotation.

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