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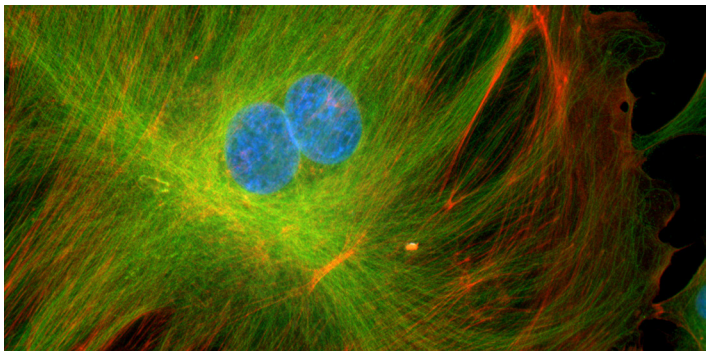
Powerful, flexible, and intuitive

Introducing the EVOS FL Auto 2 Imaging System

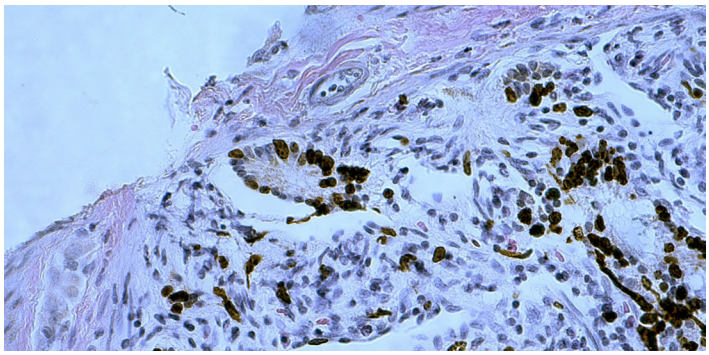
Bring high performance and automated imaging right to your lab bench with the new Invitrogen™ EVOS™ FL Auto 2 Imaging System. This system has been designed with advanced capabilities to make demanding cell-based imaging applications such as live cell imaging, image tiling, and Z-stacking simple, so researchers can focus on their data rather than instrument operation.

New features:

- Redesigned optical path and camera choice for higher image quality
- Enhanced scan speed and autofocus functions for improved throughput and data quality
- Choice between dual color and monochrome cameras or a single high-resolution monochrome camera
- Outstanding usability with fully automated and motorized X/Y scanning stage, refined autofocus, and multiple automation routine options
- Simultaneous acquisition in 4 fluorescence channels and transmitted light
- Integration of optional Thermo Scientific™ Micro Studio™ Image Analysis Software for automated measuring of cell features
- Compatibility with Invitrogen™ EVOS™ Onstage Incubator for precise control of environmental conditions during live cell imaging



Bovine pulmonary artery endothelial (BPAE) cells imaged using the EVOS FL Auto 2 Imaging System with a 40x objective.



Proliferating cells (brown) were detected in longitudinal sections of mouse intestine with the Invitrogen™ Click-iT™ EdU Colorimetric IHC Detection Kit using the EVOS FL Auto 2 Imaging System under 40x oil magnification.

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EVOS FL Auto 2 Imaging System specifications

Optics	Infinity-corrected optical system; RMS-threaded objectives with 45 mm parfocal distance
Illumination	Adjustable intensity LED (>50,000-hour life per light cube)
Light cubes (not included)	Five-position chamber for 4 fluorescence cubes plus bright-field imaging. Broad selection of standard and specialty light cubes. Commonly used light cubes include: DAPI (Ex/Em: 360/447 nm), GFP (Ex/Em: 470/525 nm), RFP (Ex/Em: 530/593 nm), Texas Red™ dye (Ex/Em: 585/624 nm), and Cy®5 dye (Ex/Em: 628/692 nm).
Contrast methods	Fluorescence and transmitted light (brightfield and phase contrast)
Objective turret	5-position; front-mounted control
Objectives (not included)	Wide selection of high-quality, long-working distance (LWD), and coverslip-corrected objectives
Condenser	60 mm LWD condenser, 4-position turret with a clear aperture and 3-phase annuli
Stage	Motorized X/Y scanning stage; travel range 120 x 80 mm with submicron resolution. Drop-in inserts to receive vessel holders and lockdown holders to fix sample in place during long scans.
Focus mechanism	Automated focus mechanism with submicron resolution
LCD display	23" high-resolution touch screen color monitor (also fully controllable via mouse); 1,920 x 1,080 pixel resolution
Cameras (dual option)	High-sensitivity 1.3 MP CMOS monochrome camera with 1,328 x 1,048 pixels. High-sensitivity 3.2 MP CMOS color camera with 2,080 x 1,552 pixels.
Camera (high-resolution monochrome option)	High-sensitivity interline 6 MB CCD monochrome camera (2,688 x 2,200 pixels) with active cooling
Computer	External PC with 16 GB RAM running Microsoft™ Windows™ 7 Professional version designed to operate with touch screen monitor and instrument
Captured images	16-bit monochrome TIFF or PNG; 8-bit per channel TIFF, PNG, JPG, or BMP; time-lapse AVI
Output ports	Microscope: 2 USB 3.0, 1 USB 2.0, power Computer: multiple USB 3.0 ports, display port, HDMI, Ethernet
Networking capability	Connection through Windows and/or server message block (SMB) network via an Ethernet cable connection
Power supply	AC adaptor with country-specific power cords
Dimensions (L x W x H)	18 x 14 x 13 in or 457 x 330 x 356 mm
Weight	16 kg or 35 lb

For more information or to request a demo, please visit
thermofisher.com/evosflauto2

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