

Digital microscopy

EVOS M3000 Imaging System

The Invitrogen™ EVOS™ M3000 Imaging System is a digital inverted microscope for 2-color fluorescence, transmitted light, and color imaging.

The EVOS M3000 Imaging System—technical specifications

Optics	
Imaging modes	Fluorescence, brightfield, color brightfield, and phase contrast
Imaging methods	Single color, multicolor, and movie capture
Optical system	Infinity-corrected optical system; RMS-threaded objectives with 45 mm parfocal distance
Illumination	Adjustable intensity LED (>50,000-hour life per light cube)
Contrast methods	Epifluorescence and transmitted light (for brightfield and phase-contrast applications)
Light cube capacity	2-position chamber for up to 2 fluorescent LED cubes
Light cubes	Selection from Invitrogen™ EVOS™ fluorescent LED cubes, including, but not limited to: <ul style="list-style-type: none"> • DAPI (357/447 nm) • GFP (482/524 nm) • RFP (542/593 nm) • Texas Red™ (585/628 nm) • Cy™ 5 (635/692 nm) Motorized LED cube with mechanism to interchange Custom LED cubes available upon request
Objective capacity	4-position manual turret (not automated)
Objectives	Selection from more than 35 high-quality, long working distance (LWD), and coverslip-corrected (CC) objectives; magnification from 1.25x to 60x
Condenser	4-position turret with a clear aperture and 3-phase annuli
Focus mechanism	Manual and touchscreen-driven focus with submicron (0.15 µm) resolution
Camera	High-sensitivity color CMOS camera (2,064 × 1,536 pixel resolution, 3.2 megapixels) with 3.45 µm pixel resolution
Captured images	8-bit monochrome: TIFF, PNG, JPG 8-bit color: TIFF, PNG, JPG Movies: MP4
LCD display	10.1 in. high-resolution LCD touchscreen display (1,920 × 1,200 pixel resolution)
Mechanics	
Stage control	Manual (optional mechanical stage add-on)
Stage size	7 x 9 in. (17.9 x 22.9 cm)
Mechanical stage (optional) range	5 x 3 in. (12.7 x 7.6 cm)

Vessels	
Compatibility	<ul style="list-style-type: none"> • Microscope and chamber slides • Hemocytometers • 6-, 12-, 24-, 48-, 96-, and 384-well microplates • 35, 50, 60, and 100 mm Petri dishes • T-25, T-75, and T-175 flasks
Software and PC	
Integrated onboard operating software	<ul style="list-style-type: none"> • Touchscreen-controlled, embedded graphical user interface (eGUI) • Confluence measurement with motion detection and sensitivity adjustment over live/captured image • Contrast stretching over live/captured image • Single capture and video recording
Image saving	Save images on an embedded hard drive, an external USB device, a local network drive, Thermo Fisher™ Connect Platform, or Microsoft™ OneDrive™ database
Computer	Embedded PC with 8 GB RAM
Storage	120 GB solid-state drive (SSD), support for USB 3.0 memory stick, network drive, and cloud storage
System	
Output ports	1 USB 3.0, 1 USB 2.0
Networking capability	Connection through Microsoft™ Windows™ Server Message Block (SMB) network wirelessly using the supplied Wi-Fi adaptor
Cloud connectivity	Use the Connect Platform or OneDrive database for remote access to images and data via the internet
Power supply	AC adaptor with country-specific power cord
Physical characteristics	
Dimensions (W x D x H)	11.7 x 19.1 x 12.7 in. (29.7 x 48.5 x 32.3 cm)
Weight	18.4 lb (8.3 kg)

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