invitrogen

Digital microscopy

# EVOS M7000 Imaging System

**The Invitrogen™ EVOS™ M7000 Imaging System—technical specifications**

The EVOS M7000 Imaging System is an automated digital inverted microscope for 4-color fluorescence, transmitted light, and color imaging.

| | |
|---|---|
| **Optics** | |
| **Imaging modes** | Fluorescence, brightfield, color brightfield, and phase contrast |
| **Imaging methods** | Single-color, multicolor, area scan with montage or tile-stitch, time-lapse, Z-stacking, and movie capture |
| **Optical system** | Infinity-corrected optical system; RMS-threaded objectives with 45 mm parfocal distance |
| **Illumination** | 5-position chamber for 4 fluorescent light cubes plus brightfield imaging; adjustable-intensity LED light cubes have >50,000-hour lifetimes |
| **Light cubes** | Selection from 13 Invitrogen™ EVOS™ LED cubes, including:<br>• DAPI (357/447 nm)<br>• GFP (482/524 nm)<br>• RFP (542/593 nm)<br>• Texas Red™ (585/628 nm)<br>• Cy®5 (635/692 nm)<br>Motorized fluorescent LED cube interchange mechanism. Custom LED cubes available on request. |
| **Objective capacity** | 5-position automated turret |
| **Objectives** | Selection of more than 30 high-quality, long working distance (LWD) and coverslip-corrected (CC) objectives; magnification from 1.25x to 100x |
| **Condenser** | 60 mm LWD condenser; 4-position turret with a clear aperture and 3 phase annuli |
| **Cameras** | High-sensitivity 3.2 MP monochrome CMOS camera (2,048 x 1,536 pixels) with 3.45 µm pixel resolution<br>High-sensitivity 3.2 MP color CMOS camera (2,048 x 1,536 pixels) with 3.45 µm pixel resolution |
| **Captured images** | 16-bit RAW monochrome: TIFF, PNG (12-bit dynamic range)<br>8-bit color: TIFF, PNG, JPG<br>Movies and time-lapse: AVI, WMV |
| **Display** | 27-inch high-resolution color monitor, fully controllable via mouse; 3,840 x 2,160 resolution |
| **Mechanics** | |
| **x-axis and y-axis control** | Automated; travel range: 120 x 80 mm with sub-micrometer resolution |
| **z-axis control** | Automated, motorized z-axis software focus control with sub-micron (0.15 µm) resolution and single-step accuracy |
| **Inserts** | Wide selection of drop-in inserts for vessel holders and lock-down holders to keep samples in place during long scans |

invitrogen

| | |
|---|---|
| **Vessels** | |
| **Compatibility** | Microscope and chamber slides<br>Hemocytometers<br>6-, 12-, 24-, 48-, 96-, and 384-well microplates<br>35, 50, 60, and 100 mm petri dishes<br>T-25, T-75, and T-175 flasks<br>Custom vessel configurations available on request. |
| **Software and PC** | |
| **Integrated onboard operating software** | Autofocus<br>Cell counting<br>Confluence measurements<br>Transfection efficiency measurements<br>2D deconvolution<br>Field overlap adjustments<br>Batch analysis<br>Annotation tool<br>Stage speed settings<br>10x Genomics™ slide support |
| **Invitrogen™ Celleste™ Image Analysis Software (optional)** | Functions for counting, segmenting, classifying, and analyzing complex images<br>Preconfigured analysis templates for common applications and an icon-based, wizard-driven workflow<br>Modules for 2D and 3D deconvolution, 3D rendering, 3D visualization, and 3D analysis |
| **Image saving** | Images can be saved on the internal hard drive, an external USB device, or a local network |
| **Computer** | External Dell™ XE4 PC with a 12th generation Intel™ Core™ i9-12900 processor<br>NVIDIA™ Quadro™ RTX™ A4000 graphics card |
| **System** | |
| **Storage** | 128 GB DDR4 RAM; 2 TB SSHD |
| **Output ports** | Instrument: USB 3.1 Type B port; 4-pin power port<br>Computer: 1 USB 3.1 Gen 2 Type C port; 5 USB 3.1 Gen 1 Type A ports; 4 USB 2.0 Type A ports; 1 serial port; 2 display ports 1.2; 1 RJ45 port; 2 PS/2 ports; 1 UAJ port; 1 line out |
| **Networking capability** | Connect via the Microsoft™ SMB protocol with an Ethernet cable, or use the USB 3.0 WiFi dongle |
| **Cloud connectivity** | Connect to the Thermo Fisher™ Connect Platform for remote access to images and data via a network connection |
| **Power supply** | 24 V AC adapter with country-specific power cords |
| **Physical characteristics** | |
| **Dimensions (W x D x H)** | 18 x 14 x 13 in. (45.7 x 33.0 x 35.6 cm) |
| **Weight** | 57 lb (26 kg) |

Visit **eu.fishersci.com** for more information

Distribuido por Fisher Scientific. Contacte hoy con nosotros:

**En España:**
Para pedidos online: fishersci.es
Para tramitar un pedido: pedidos.fisher@thermofisher.com
Para hablar con Atención al Cliente llame al 91 380 67 10

fisher scientific
part of Thermo Fisher Scientific

© 2026 Thermo Fisher Scientific Inc. All rights reserved.
Trademarks used are owned as indicated at fishersci.com/trademarks.