

Evos Auto Color and Fluor Microscope

Location: HSC (Building 586) Room 54



The EVOS FL Imaging system is an all-in-one fluorescence microscope designed for efficiency and ease of use. The on-board computer and integrated imaging software allows users to capture and save four channels fluorescence images/data directly from the microscope. The EVOS FL Imaging System is suitable for checking samples before using a high-end microscope system.

Main features of System:

- Dual 16-bit CCD acquisition cameras (Monochromatic and Color)
- 22" high-resolution touch screen color monitor

- Automated X-Y scanning stage with interchangeable specimen holder inserts. We have available inserts for glass slides, culture dishes, multiwell plates, and T-flasks
- EVOS LED Light Cube Technology. We have following cubes available: DAPI, GFP, RFP, Texas Red, and Cy5

Suggested Applications:

- Fixed and live cell imaging.
- Tissue imaging.
- Sample check before using a high-end microscope system.

Light Sources:

LED light cubes which combine bright LED illumination with excitation and emission filters. DAPI, CY5, GFP, RFP and Texas Red cubes are available. Four can be installed at one time. Contact Cell Imaging staff to change cubes if needed. A selection guide for matching cubes to dyes is on the ThermoFisher site: [Guide](#)

Cube	Excitation (nm)	Emission (nm)
DAPI	357/44	447/60
GFP	485/25	524/24
RFP	531/40	593/40
Texas Red	585/29	628/32
Cy5	628/40	692/40

Objectives:

The objectives on the Evos are Long Working Distance, not Coverslip-Corrected. They are optimized for use through vessels with a nominal wall thickness of 0.9-1.5 mm.

Objective	Magnification	Immersion	Numerical Aperture	Correction Ring	Coverglass (mm)	Working Distance (mm)
PlanApo	1.25X	Air	0.04			5.10
Plan Fluor	4X	Air	0.13			17.2
Plan Fluor	10X	Air	0.3		1.2	8.31
Plan Fluor	20X	Air	0.45		1.2	7.11
Plan Fluor	40X	Air	0.65		1.2	2.81

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