

Evos M5000 Auto Color and Fluor Microscope

Location: HSC (Building 586) Room 54

The EVOS 5000 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 M5000 also features a phase option that improves the contrast of transparent, unstained specimens by turning a phase ring selector. The EVOS 5000 Imaging System is suitable for checking samples before using a high-end microscope system.

Main features of System:

- 18.5 in articulated LCD color monitor, 1920 x 1080 pixel resolution
- Highly sensitive monochrome CMOS camera (2048 x 1536 pixel resolution, 3.2 M pixels) to acquire images.
- Manual X-Y stage. The EVOS 5000 has available inserts for glass slides, culture dishes, multiwell plates, and T-flasks
- EVOS LED Light Cube Technology. We have following cubes available: DAPI, GFP, 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, GFP, Texas Red and Cy5 cubes are available. Phase image is also 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/Emission (nm)
DAPI	357/447
GFP	470/525
Texas Red	585/624
Cy5	628/692
Transmitted light	

Objectives:

The objectives on the Evos M5000 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 type	Magnification Aperture	Numerical Aperture	Immersion	Correction ring	Phase contrast	Coverglass	Free working distance (mm)
PlanApo	1.25x	0.04	DRY	-			5.10
Plan FL PH	4x	0.13	DRY	-		-	10.58
Plan FL PH	10x	0.3	DRY	-		-	7.13
Plan FL PH	20x	0.45	DRY	-		-	6.12
Plan FL PH	40x	0.65	DRY	-		1	1.79