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EVOS® FL Auto Imaging System
for Fluorescence and Transmitted Light Applications
Catalog Number AMAFD1000
Doc. Part no. ZP-PK6A-0611
Pub. no. N000007716

Note: The EVOS® FL Auto Imaging System is a fully automated imaging system; no manual adjustment is required for the objective turret, focusing controls, light cube and camera selection, etc.
Overview

The EVOS® FL Auto Imaging System is a fully automated imaging system that comes with an integrated EVOS® FL Auto software. The software, accessed by the touch-screen monitor, controls the automated X-Y stage and the objective turret, and features standard and advanced imaging and analysis tools.

Note: The EVOS® FL Auto Imaging System User Guide is provided on the USB flash drive. You can also download it from the EVOS® FL Auto Imaging System product page at www.lifetechnologies.com.

Setup

1. Unpack the monitor, and plug in the power cord and the USB cable into the monitor.
2. Unpack the computer and accessories. Plug in the mouse, keyboard, and power cord.
3. Connect the computer and the monitor using the USB cable connected to the monitor.
4. Remove the accessory box and the instrument from the shipping box. DO NOT lift the instrument by the stage or the condenser arm; lift it by the handholds located in the instrument base.
5. Ensure that the instrument power switch is OFF, and then plug the power cable into the power supply and the instrument. Use the DVI cable to connect the instrument and the monitor, and use the USB cable to connect the instrument to the computer.
6. Remove the shipping restraint by loosening the three thumb screws and pulling the restraint forward, away from the unit.
7. Turn the instrument power switch ON. The automatic X-Y stage will begin to move within a few seconds of being powered on.
8. Once the stage has stopped moving and the instrument is displayed, the Home page is displayed, and you can also see the Quick Image Wizard.
9. Place the sample on the stage using the appropriate vessel holder.
10. On the Home page, click Quick Image. The system will move to the Image Capture tab, which will display the preview choices selected in Step 3.
11. Press Preset to utilize the capture options selected in Step 3. The system will automatically move to the Image Edit tab to allow for further adjustments to brightness and contrast.
12. Click Save Image. For more information, refer to the EVOS® FL Auto User Guide.

Basic Operation - Quick Image

Note: For more detailed information such as advanced imaging and analysis (e.g., editing images, creating scan routines, time lapse imaging, etc.) refer to the EVOS® FL Auto Imaging System User Guide.

Capture Tab Controls

The controls on the Capture tab can be accessed via the Quick Image Wizard (Quick Image), or by clicking the Image Capture tab on any screen.

- Vessel Expert: Used for selecting vessel type; the crosshair(s) on the virtual vessel are used for choosing a location to view.
- Objective buttons: Automatically adjust the objective turret for the desired magnification.
- Power button: Turns the light ON or OFF.
- Light and Camera buttons: Selects between monochrome or color cameras. If using the monochrome camera, allows displaying pseudo-color.
- Light Path buttons: Select between installed light cubes or transmitted light from the condenser.
- Snap to Last: Auto-focusses on the last position on the z-axis; used for quick focus on similar types of samples.
- Quick slider: Calculates the focal range where the sample is located based on the vessel selected.
- Find Sample and Auto Fine: Automatic course and fine focusing.
- Course and Fine sliders: Used for manually adjusting course and fine focus.
- Hot Buttons: Captures the current image on the screen.
- Capture All: Captures an image using each of the installed light cubes.
- Z-Stack: Captures a series of images in the z-axis.
- Save: Saves the captured images.

Note: 1. 2. 3. and 4. Hot Buttons are user-specified, programmable buttons that customize the imaging system. Up to four Hot Buttons can be displayed on the Image Capture tab. For more information, refer to the EVOS® FL Auto Imaging System User Guide.