

EXC-400 Microscope Series

2x Objective & Diffuser Supplement

Installation & Operation



Components

A **1** diffuser (CAT #400-3222-2X) is recommended for use with the **2** 2x objective (CAT #400-3172-PL) for the EXC-400 microscope. The diffuser and 2x objective are sold separately.

The diffuser aids to provide even specimen illumination across the entire field of view.

The diffuser threads into the bottom of the **3** condenser. The condenser is provided with the EXC-400 microscope.

Installation & Operation

1. Install the 2x objective in the nosepiece, typically in the open position adjacent to the 4x objective.
2. Select the 10x objective and perform Köhler illumination as described in the manual that came with the microscope. To perform Köhler illumination, the condenser top lens must be flipped into the light path using the lever on the left side of the condenser.
3. Thread the diffuser into the bottom of the condenser.
4. When using the 2x or 4x objective for observation, flip out the condenser top lens. Be certain to flip in the top lens when observing with a 10x or higher magnification objective.

Option 1: Remove the diffuser when not using the 2x objective for observation. This option provides the best illumination and image quality during observation with other objectives. It also enables the ability to perform Köhler illumination quickly for optimal contrast and resolution.

Option 2: Leave the diffuser in place when not using the 2x objective. Adjust the condenser aperture diaphragm per each objective. This option offers efficiency when using the microscope. Illumination and image quality are generally acceptable by most users, despite the diffuser being installed.