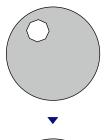
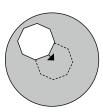


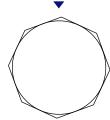
## Köhler Adjustment—Transmitted Light Microscopy Inverted Microscopes

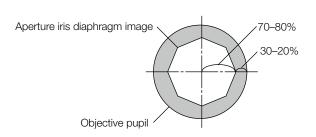
- 1. Turn on the microscope's illumination and set the microscope to brightfield mode.
- 2. Remove unnecessary contrast devices, such as DIC sliders, polarizers, or other optical elements
- 3. Engage the 10X objective lens (if available), place the specimen on the stage, and bring it into focus.
- **4.** Move the condenser front lens closer to the specimen until it is at the approximate condenser working distance position.
- 5. Close the field stop until its borders become visible when observing the focused microscopic image, and fine-tune the condenser height-adjustment knob to focus the field stop diaphragm image.
- 6. Using the condenser centering screws, center the field stop diaphragm image.
- **7.** Slowly open the field stop, observing the ring as it approaches the border of the field of view and stopping as soon as the field stop ring disappears.
- 8. Watching the back focal plane of the objective (observation without eyepiece), open the aperture diaphragm until a considerable change in contrast is noticeable in the image (NA of condenser = 0.7 to 0.8 times NA objective). When 70–80 % of the image is bright (see the image on the bottom right), then reinsert the eyepiece.
- 9. Repeat step 6 and 7 of this procedure each time you switch to another objective lens.











Olympus and the Olympus logo are trademarks of Olympus Corporation or its subsidiaries.

