



Compound Microscopes Instruction Manual

Thank you for purchasing an Omano microscope. We hope you enjoy it!

*It has been checked for quality before shipping, but please take time to ensure that it has not been damaged in transit and that all the parts are included. Please **RETAIN ALL PACKAGING** in case you need to return the microscope.*

SAFETY

- **WARNING – Lamp bulb can become extremely hot when in use and can cause burns. DO NOT TOUCH the lamp when in use. Allow to cool for 15 minutes prior to handling.**
- **WARNING – RISK OF FIRE. Do not charge rechargeable LED microscopes for more than 2 hours.**
- Do not dismantle any parts of the microscope, except where noted in the instruction manual. Dismantling the microscope will void the warranty.
- In case of a problem with the microscope, call Microscope.com toll free on (877) 409-3556.
- Keep the microscope at temperatures between 0C – 40C / 32F – 104F, maximum humidity 85%.
- Do not place the instrument in direct sunlight or under direct indoor light. This environment can influence the quality of the specimen imaging.
- Do not place the instrument in a dusty environment. When not in use, cover the microscope with the included dust cover.
- Keep the instrument on a level and sturdy surface.
- Carry the microscope in two hands, one hand under the base, the other holding the microscope arm.

ASSEMBLY

Some minor assembly may be required. If required,

- 1) Remove the microscope base from the packing material. Remove the microscope head from the packing material and place in the focus block (ring holder). Tighten the thumbscrew to secure the head in position. You can view the microscope from either side of the stand. Simply rotate the head through 360° and tighten the locking nut. If using a pole microscope, you can rotate the entire head and focus block.
- 2) Remove and retain all packing material. Should you need to return the microscope, you will need the original packing material in good condition under the terms of the Returns & Refunds policy.
- 3) Unwrap eyepieces and insert into oculars. If included, press eyecups on to the outside of eyepieces.
- 4) Tighten all locking nuts on the microscope.

OPERATION

Your Omano microscope is simple to operate and with a little practice, you will soon become an expert microscopist. On monocular microscopes, we recommend that you keep both eyes open in order to improve the viewing experience and to reduce eye strain.

Follow these steps to get started:

1. Rotate nosepiece to longest objective (40x or 100x) and click in place. Place prepared slide on the stage. Carefully raise the stage by turning the (coarse) focus control until the stage just touches the objective. Then tighten the stage stop or locking nut on your microscope. This will ensure that you cannot damage the slide or objective by inadvertently raising it too high.
2. Switch on the microscope and be sure to adjust the light intensity dial, if included on your microscope.
3. Rotate nosepiece so that 4x objective lens is in position for use. Place a prepared slide on the stage and clamp it carefully with the moveable spring clip. Always begin with the lowest power objective.
4. Binocular Microscopes: Adjust the interpupillary distance of the oculars to suit you comfortably. Close your right eye and turn the coarse focus control until a clear image is obtained. Use the fine focus control to optimize image clarity. Now close your left eye and adjust the focus for your right eye by using the diopter on the right ocular.
5. When the desired view is obtained, rotate to next highest objective lens (10x). The nosepiece should click into position. Adjust the fine focus if required. Repeat with 40x and 100x objectives as appropriate.
6. The iris diaphragm below the stage can be opened (slide lever forward) or closed (slide lever back to left) to control the amount of light directed through the condenser. The condenser assembly under the stage can be shifted up or down by means of the control knob (left hand side under stage), to effectively move the light beam closer to (up), or away from (down), the specimen under observation. Try experimenting with various settings to get the most effective view of your specimen.
7. To center the condenser, first close the iris diaphragm. Adjust the condenser to its lowest setting and turn the condenser centering screws until the light is centered when viewing through the eyepieces. Open the iris diaphragm until you see light on the sides of the viewing area. If centered correctly, you will see a balance of light/shade around the viewing area. Adjust as necessary.
8. It is important to remember when adjusting the focus that the objective should never touch the specimen. Always use a cover slip on your slides.
9. When using a 100x objective, the specimen will be very close to the slide. Apply a drop of cedar-wood oil or other immersion oil to the cover slip. Clean the 100x oil immersion objective with a soft clean cloth or lens tissue to remove the immersion oil immediately after using. It is strongly recommended to use a mechanical stage if using a 100x objective.
10. On most Omano compound microscopes, you can adjust the tension on the focus controls

POWER

- Input voltage is 110v~240v AC 50/60hz. into the AC/DC adapter power block.
- Output voltage is 4.5v @1000ma out of the AC/DC adapter power block.
- **WARNING – RISK OF FIRE.** On rechargeable LED models, Do not charge the internal NiMH batteries for more than two hours. Remove AC power when batteries are charged. Failure to comply with these instructions can cause a risk of fire.

SPECIFICATIONS

For individual specifications, please view the respective product page on the website at www.microscope.com

CARE & MAINTENANCE

Most Omano microscopes are backed by lifetime limited warranties and with adequate care and maintenance, you should have many years of enjoyment and use of your microscope. We recommend the following basic routines:

- 1) Always cover the microscope with the dust cover when not in use. Store in a dry place.
- 2) Do not touch the optical lens with bare fingers.
- 3) Dust should be cleaned off with pressurized air or with a soft brush or lens paper.
- 4) Clean smudges, fingerprints, oils, etc from the lens with clean lens paper or a soft clean cloth moistened with a small amount of absolute alcohol-ether mixture. If an alcohol-ether mixture is unavailable, use isopropyl alcohol.
- 5) Wipe clean 100x objective immediately after using immersion oil.
- 6) Clean the microscope body and stand using a moist, soft cloth with a small amount of detergent.
- 7) Use water only on plastic surfaces. Do not use paint thinner or other solvents.
- 8) Dry all surfaces after cleaning.

PARTS LIST

- KEY**
- (1). B = Binocular,
M = Monocular
T = Trinocular
- (2). B = Blue
Y = Yellow
G = Green
- (3). Spare bulbs for relevant models only. (not LED)

Model No	Type (1)	Eyepieces	Eyecups	Objective Lenses	Filter (2)	Dust Cover	Manual	Spare Bulb (3)	Spare Fuse	Immersion Oil	Power Cord	Other
OM115-L	M	WF10x (1)		4x, 10x, 40xS		✓	✓					Accessory Kit
OM116-L	M	WF10x (1)		4x, 10x, 40xS		✓	✓				✓	10 Slides
OM118-M3	M	WF10x (1)	✓	4x, 10x, 40xS		✓	✓	✓	✓	✓	✓	
OM118-M4	M	WF10x (1)	✓	4x, 10x, 40xS, 100xS	B	✓	✓	✓	✓	✓	✓	
OM118-B4	B	WF10x (2)	✓	4x, 10x, 40xS, 100xS	B	✓	✓	✓	✓	✓	✓	
OM118-B4S	B	WF10x (2)	✓	4x, 10x, 40xS, 100xS		✓	✓	✓	✓	✓	✓	
OM136C OM136CL	M	WF10x (1)	✓	4x, 10x, 40x		✓	✓	✓	✓	✓	✓	
OM36C OM36CL	B/T	WF10x (2)	✓	4x, 10x, 40xS, 100xS	B	✓	✓	✓	✓	✓	✓	
OM88	B/T	WF10x (2) WF16x (2)	✓	4x, 10x, 40xS, 100xS	YGB	✓	✓	✓	✓	✓	✓	
OM124	B	WF10x (2)	✓	4x, 10x, 40xS, 100xS	B	✓	✓	✓	✓	✓	✓	
OM139	B/T	SWF10x (2)	✓	4x, 10x, 40xS, 100xS	YGB	✓	✓	✓	✓	✓	✓	
OM157	B	SWF10x (2)	✓	4x, 10x, 40xS, 100xS	B	✓	✓	✓	✓	✓	✓	
OM159	B/T	SWF10x (2)	✓	4x, 10x, 20x, 40xS, 100xS	YGB	✓	✓	✓	✓	✓	✓	

WARRANTY

Warranty details may be viewed on the website at www.microscope.com

At Microscope.com, you will always receive knowledgeable and courteous customer service. We are also proud to offer free, after-sales telephone service. Please do not hesitate to call us with any questions.

© **The Microscope Store, L.L.C.**
1222 McDowell Avenue NE
Roanoke VA 24012

Call Us Toll-Free: (877) 409-3556

Microscopes for everyday use

