



Stereo 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.*

Please read this instruction manual carefully before using the microscope.

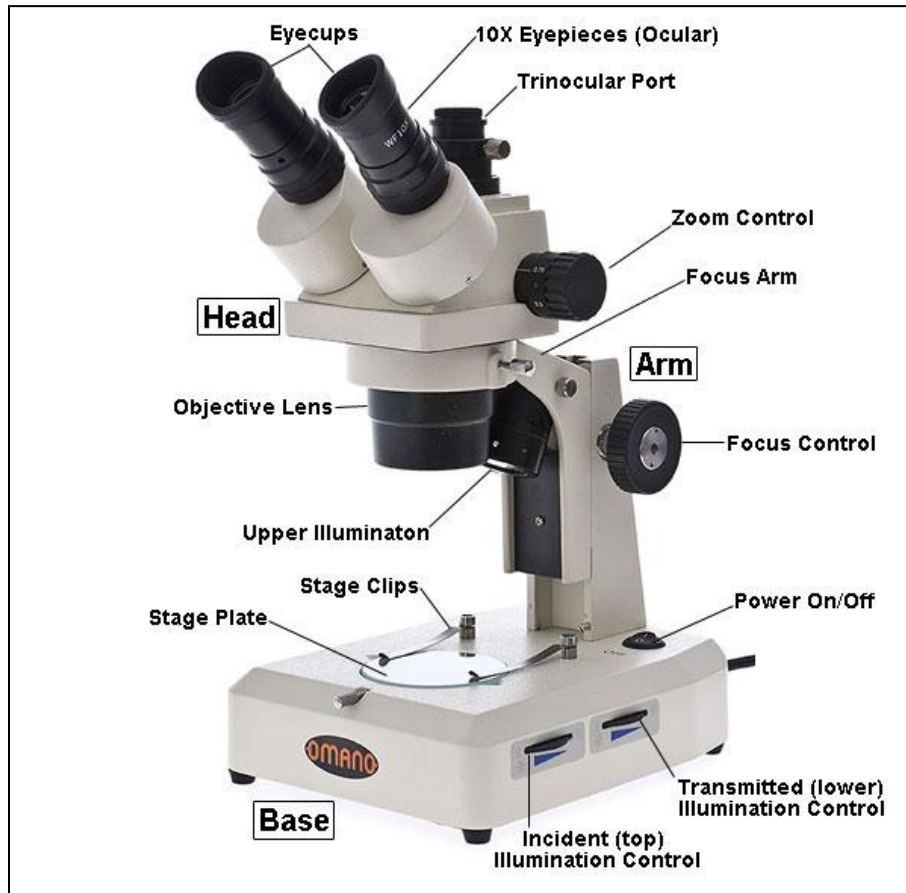
SAFETY

- **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**
- 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 locking nut to secure the head in position. Most Omano stereo microscopes have rotatable heads so 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, which is useful for viewing larger specimens that do not fit on the stage.



- 2) RETAIN ALL PACKING MATERIAL. Should you need to return the microscope, you will need the original packing material in good condition as per our Returns & Refunds policy.
- 3) Unwrap eyepieces and insert into oculars.
- 4) Tighten all locking nuts on the microscope.

OPERATION

- 1) **Power On**
Turn on the microscope. If your microscope has a light intensity adjustment dial, ensure that it is turned up.
- 2) **Interpupillary Adjustment**
Grasp both oculars and rotate to adjust the interpupillary distance to suit the distance between your eyes.
- 3) **Focusing**
 - a) Ensure that the lowest power is in use. For dual power microscopes, rotate the objective housing until the lowest power clicks into place. For zoom stereo microscopes, rotate the zoom control to the lowest setting.
 - b) Raise or lower the stage using the focus control until a clear image is viewed.
 - c) Diopter Adjustment: To adjust for differences between your right and left eye, first focus using only your left eye. Once in focus, use only your right eye and adjust the diopter on the right-hand ocular to bring your right eye into focus.

- d) Now adjust the magnification to the highest setting. You may need to make minor adjustments to the focus.

4) Trinocular Port – Phototube

To use the trinocular port for imaging, pull out the rod on the trinocular body in order to direct the light into the trinocular tube. The left ocular will be rendered inoperable. The trinocular tube includes a standard 23.2mm smooth adapter.

ILLUMINATION

- 1) Your microscope will use halogen, tungsten or LED illumination. Replacement bulbs are available at Microscope.com.
- 2) To change an Incident (top) bulb:
 - a) Unplug the electric cord before changing the bulb and allow all bulbs to cool for 15 minutes after use prior to handling. Then remove the illuminator cap by unscrewing and the old halogen lamp with the cup (be sure that it is cool enough to handle).
 - b) Insert the new lamp with the cup, using gloves or cloth material. In handling the halogen lamp, wear gloves or cover the lamp with a protective sleeve. Oils and other materials from fingers may damage the bulb. If you inadvertently touch the lamp with your fingers, clean the lamp with denatured alcohol and a soft, clean cloth.
 - c) Replace the illuminator cap.
- 3) To change a Transmitted (bottom) bulb
 - a) Unplug the electric cord before changing the bulb and allow all bulbs to cool for 15 minutes after use prior to handling. Then remove the illuminator cap by unscrewing and the old halogen lamp with the cup (be sure that it is cool enough to handle).
 - b) Carefully place the stand on its side on a soft, protective cushion.
 - a) Unscrew the cover plate, exposing the lamp. Remove the old halogen (or fluorescent) lamp bulb, using gloves or cloth material.
 - a. In handling the halogen lamp, wear gloves or cover the lamp with a protective sleeve. Oils and other materials from fingers may damage the bulb. If you inadvertently touch the lamp with your fingers, clean the lamp with denatured alcohol and a soft, clean cloth.

SPECIFICATIONS

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

CARE & MAINTENANCE

- 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.
- 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) Clean the microscope body and stand using a moist, soft cloth with a small amount of detergent.
- 6) Use water only on plastic surfaces. Dry all surfaces after cleaning.

PARTS LIST

Model No	Head Base	Stage Plate	Eyepieces	Eyecups	Spare Bulb	Spare Fuse	Dust Cover	Manual	Power Cord
OM113-1LP	√	CP	2	√			√	√	√
OM113-2LP	√	CP	2	√	√		√	√	√
OM124-1LP	√	CP	2	√			√	√	√
OM124-2LP	√	CP	2	√	√		√	√	√
OM20-1LP	√	CP	2	√			√	√	√
*OM13L *OM24L	√	CP GP	2	√			√	√	√
OM4713 OM4724 OM4413 OM4424	√	CP GP	2	√	√	√	√	√	√
OM2344	√	CP GP	2	√	√	√	√	√	√
OM9949 OM9959	√	CP GP	2	√	√	√	√	√	√
OMV	√	CP GP	2	√	√		√	√	√

CP = black/White Contrast Plate

GP = Frosted Glass Plate

** Rechargeable LED Microscopes include NiMH battery

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.

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

Microscopes for everyday use