LOUPES
Instructions for Use

ORASCOPTIC™
Getting Started with Your New Orascoptic Loupe

Congratulations on the purchase of your new Orascoptic loupe!

It is common for new users of magnification to experience some initial disorientation. This may also occur when increasing from a lower magnification power to higher powered loupe. In such cases, a two to three week acclimation period is recommended. If you initially experience dizziness, wear your loupe for no more than one hour at a time and start by performing simple procedures. As your eyes adapt to a magnified field, and your hand-eye coordination develops, gradually extend the time you wear your loupes.

Indications for Use:

Loupes are a magnification device, worn as a visual aid, intended to magnify oral cavities and operating sites. This device is intended to only be used by qualified medical and healthcare professionals, including, but not limited to, dentists, dental hygienists and medical doctors and/or professionals.

Contraindications: None known

Warnings:

1. Your loupe must be used exclusively for the intended purpose described.
2. Do not use your loupe if any component is damaged, detached, or missing. This includes carrier lenses, telescopes, frame body, temple arms, nose pad, side shields and flip-up hinge.
3. Before use, ensure all screws and removable components are secured to your loupe.
4. Laser loupe and Laser Insert safety:
   The human eye is extremely sensitive to laser radiation. Failure to observe the following warnings can result in blindness or other severe and permanent damage to your eyes.
   - **INSPECT FOR DAMAGE AND FIT BEFORE EACH USE.** Scratched, cracked, or loose fitting laser loupes or laser inserts may permit the laser beam to reach the eye directly and should not be used.
   - **ENSURE THE WAVELENGTH AND POWER ENGRAVED ON YOUR LASER LOUPE CARRIER LENSES OR LASER INSERT MATCHES THE WAVELENGTH OF THE BEAM BEING TRANSMITTED BY THE YOUR LASER.** Different lasers may require a different type of protective eye wear. If the wavelength at which your laser operates is not blocked by your laser loupe or laser insert, you must select different eye wear protection, as your laser loupes or laser insert will not provide protection for your eyes.
   - **NEVER LOOK DIRECTLY INTO A LASER BEAM EVEN WHEN WEARING YOUR LASER LOUPE OR LASER INSERT.** Your laser loupe is designed to only protect against incidental exposure from stray or diffused reflection of the laser beam’s energy.
   - **YOUR LASER LOUPE OR LASER INSERT MUST BE WORN AT ALL TIMES WHILE OPERATING YOUR LASER.**

Precautions:

1. Do not disassemble or modify your loupe
2. Do not remove the product serial number labeling
3. Do not run any part of your loupe under water
4. Do not submerge in any liquid or an ultrasonic cleaner
5. Do not use an autoclave, chemiclave, glutaraldehyde, idophor or any other sterilization method
6. Do not use a cleaner with alcohol concentration greater than 70%.

Adverse Reactions: None known.
Cleaning Instructions

Your loupe is a precision optical instrument manufactured from high quality components. With proper care, it will provide you a long and useful life. You should adhere to the following instructions for proper cleaning and disinfection, or damage may result.

You may use soap and water or other lens cleaning solutions to clean your loupe. Dampen/spray an optical cleaning cloth, and then wipe down your loupe. An optical cleaning cloth is provided with your loupes and can also be purchased through Orascoptic.

- Do not run any part of your loupe under water
- Do not submerge your loupe in any liquid or ultrasonic cleaner
- Do not spray directly onto your loupe
- Do not use a paper towel to clean your loupe
- Do not use an autoclave, chemicleave, glutaraldehyde, idophor or any other sterilization method
- Do not use a cleaner with alcohol concentration greater than 70%

If you wish to disinfect your loupe, you may do so using a low-alcohol disinfectant. We recommend using CaviCide™, CaviCide1™, CaviWipes™, or CaviWipes1™ brands of surface disinfectants. Never spray directly on your loupe. First, apply the liquid to a soft wipe or cloth, and then wipe your loupe. Be sure to squeeze excess fluid out of the cloth/wipe before using. Depending on the alcohol content, some disinfectants may leave streaks on the lenses of your loupe. You should use the optical cleaning cloth provided with your loupe to wipe off any streaks.

Services

Loupe Prescription Service

If your eye prescription changes, you can send your loupe into our optical laboratory to install your new prescription. In the U.S. and Canada, call one of our Customer Care Specialists to make arrangements. See the back of this manual for contact information. Outside the U.S. call your authorized Orascoptic distributor. When coordinating the return of your loupe, please allow sufficient time for the installation of your prescription.

Cleaning and Refurbishing Service

Orascoptic offers a loupe cleaning and refurbishment service that is recommended every two years. If your loupe needs cleaning or refurbishing, call one of our Customer Care Specialists to arrange for this service. See the back of this manual for contact information. Optical lab technicians will clean and disinfect your telescopes and frame and replace worn-out screws, nose pad, temple tips and head strap.

Orascoptic continuously improves its products as a result of customer feedback. After service, products may reflect improvements in appearance and function.
INSTRUCTIONS FOR USE
Orascoptic Loupes

Precision Tuning Your Loupe

Although your loupe has been fully tested and customized by our laboratory technicians, they may need to be initially adjusted to your individual facial geometry. Please read through the following guide to learn how to adjust and care for your new loupe. If you need assistance, call one of our Technical Support Specialists. See the back of this manual for contact information.

Level the Frame
Ensuring the frame sits level on your face is crucial. Before any other fine-tuning adjustments can be made, your frame must sit level on your face (Figure 1).

1. Look in a mirror.
2. Level the top of the frame with the pupils of your eyes.
3. If the frame is not level with your pupils, visit a local optician to adjust your frame, or call one of our Technical Support Specialists to assist you with properly adjusting your frame. See the back of this manual for contact information.

Attempting to adjust the frame without assistance may result in damage.

Adjust the Head Strap
The use of a head strap is recommended to distribute weight around the head, allowing for all-day comfort (Figure 2).

1. Place the frame on your head and tighten the head strap bead. Your loupe should fit comfortably with minimal pressure on your nose from the telescopes.
2. To remove your loupe, loosen the head strap bead, grasp both temple arms and pull the frame up and over your head. Removing your loupe by grasping a single temple arm may put additional stress on the frame over time.
INSTRUCTIONS FOR USE
Orascoptic Loupes

Adjust the Nose Pad
The nose pad on most frames is adjustable. Adjusting the nose pad will change how the frame sits on your face (Figure 3).
1. To lower the frame on your face, spread the nose pad apart.
2. To raise the frame on your face, pinch the nose pad together.

Adjust the Temple Tips
The temple tips on most frame styles are adjustable. To better secure the loupe to your head and for additional comfort, you can bend the temple tips around your ears (Figure 4).
1. Place both thumbs together on the temple tip and slowly bend the tip downward until you achieve a comfortable fit. This may take a few attempts before the comfort is optimized.

Adjust the Visual Field
When the focus is properly adjusted, the two circles that form the field of view should appear as an ellipse and be in focus (Figure 5). Due to varying facial geometry, sometimes the preset convergence angle may not be aligned properly for your eyes. If the field of view is not clear, or you are experiencing double vision or eye strain, reposition the frame on your face by adjusting the nose pad, temple tips, and head strap until there is a clear field of view.

Flip-Up Loupes
1. Customize the declination angle of your telescopes by adjusting the vertical slide depth. Move the slide UP for shallower angles and DOWN for steeper angles (Figure 6).
2. Fine-tune the declination angle of your telescopes by tilting the hinge at the lower hinge screw joint (Figure 6).
3. Fine-tune the interpupillary distance of your telescopes by rotating the PD knob on the hinge to move the telescopes wider or more narrow (Figure 6).
EyeZoom™ and EyeZoom™ Mini
EyeZoom telescopes can transition magnification levels between 3x, 4x, and 5x power. EyeZoom Mini telescopes can transition magnification levels between 2.5x and 3.5x power.
1. To change the magnification, grasp the black ridged portion of each telescope and turn it so the arrow aligns with your preferred magnification level (Figure 7).
2. Ensure both telescopes are set to the same power.

OmniOptic™ Telescope System
Telescope anchors will be installed in the carrier lenses of your loupe frame.
1. Insert a matching pair of telescopes into the anchors and they will be magnetically secured (Figure 8). Each telescope is assembled with a key-slot to ensure it is properly aligned in the anchor.
2. To remove telescopes from the anchors, hold onto the loupe frame with one hand while pulling each telescope out of its anchor. It will take reasonable force to disengage the magnetic interface.
3. When your loose telescopes are not being used, they should be stored in your loupe case.

ErgoEdge / RDH Elite Edge Frame
The ErgoEdge model frame employs a unique feature that allows you to add or subtract 5 degrees of declination (tilt) to your telescopes. Three different angle settings are displayed on the inside of each temple arm where the arm interfaces with the front of the frame.
1. From the optical laboratory, the declination of your telescopes will be set to your prescribed angle and aligned to the middle marking on each temple arm.
2. To change declination, loosen the angle control screw on each temple arm and rotate the arms upward or downward to align the arm with a different marking on the frame front, then tighten the angle control screw to lock the temple arm into that position (Figure 9).
   • Top marking: increase declination (steeper angle)
   • Bottom marking: decrease declination (shallower angle)
3. It is important that both temple arms are set to the same angle or clear vision will be compromised.
4. The nose pad may need to be adjusted after changing declination.