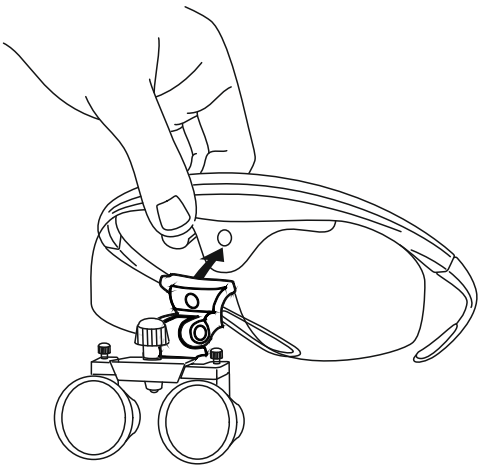
ERGOPTIX

Solutions in magnification
and portable LED illumination



USER MANUAL

RLA | R&D

Thank you for choosing ERGOPTIX magnifying telescope from RLARD. At RLARD we are committed to best quality products along with excellent service and support.

To achieve optimum performance and benefits from our loupes, we strongly recommend to follow instructions given in this manual. If you are a first time user of magnifying telescopes, it may take some time for you to get accustomed with magnification; Very soon you will get convinced that treatments are being accomplished at a higher level of quality.

Remember, loupes provide a better working posture to reduce neck, back, and shoulder pain; and better working distance to minimize exposure from aerosol contamination.

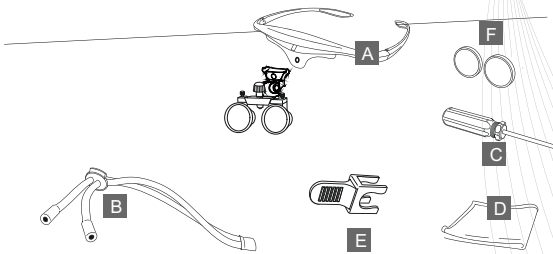
ERGOPTIX

Magnifying Loupe

1. Contents

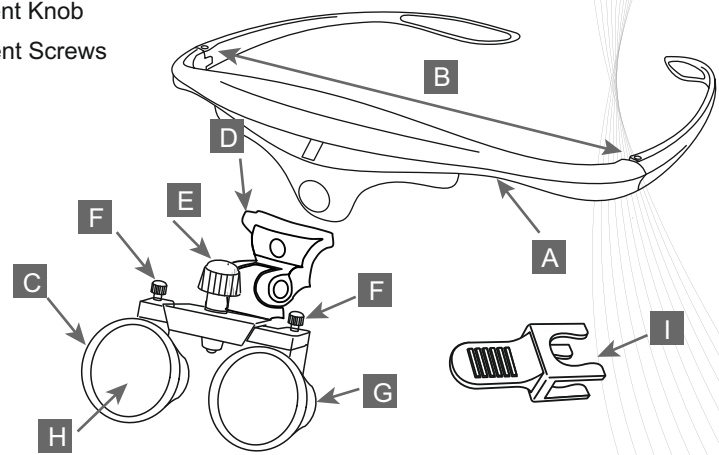
Please Inspect contents. If any item is missing, contact RLARD customer support.

A. Frame with Loupe
B. Head strap
C. Screwdriver
D. Micro Fiber Cleaning Cloth
E. Flip-up Paddle
F. Protective lens cover



2. Loupe Glossary

A. Wrap around Frame
B. Frame Temple Arm
C. Lens Cover
D. Double Hinge Set with Screws
E. Interpupillary Adjustment Knob
F. Convergence Adjustment Screws
G. Ocular Lens
H. Objective Lens
I. Flip up Paddle



3. Wearing the Frame

Frame should rest high on the nose.

Correct

Incorrect

Saddle / Nose Pad Adjustment:

To adjust the nose pads or saddle so that the loupes will sit higher on the nose, gently press the pads/saddle closer together.

To adjust the nose pads or saddle so that the loupes will sit lower on the nose spread the pads/saddle further apart.

To raise loupes on face press pad or saddle closer together

Raise Loupes

To lower loupes on face, press pads or saddle further apart

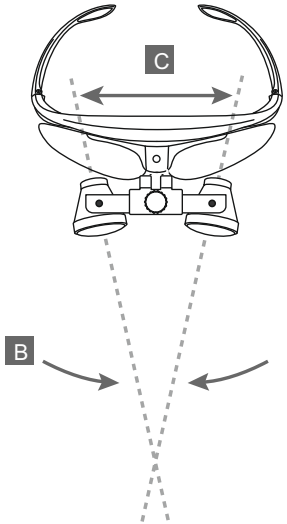
Lower Loupes

Note: You may also visit your local optometrist or eyeglass shop for an adjustment.

4. Loupe Adjustments

B. Convergence angle

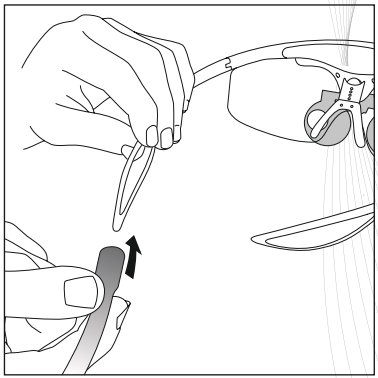
C. Interpupillary Distance
(distance between the pupils)



Attaching Head strap

If a headstrap is desired,
attach it to loupe frame temples.

Note: The headstrap is recommended

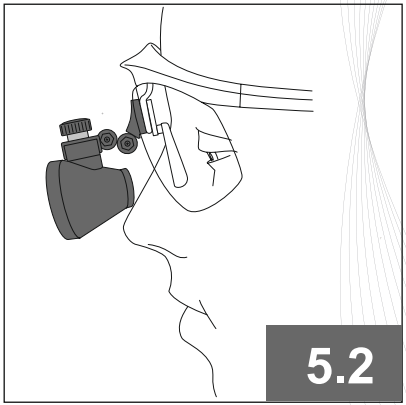


5. Properly Wearing Loupes

5.1 The loupe optics should be worn as close as possible to your eyes to achieve the greatest field of view.

5.2 Incorrect loupe position decreass field of view.

Correct loupe position.



Incorrect loupe position.

6. Focusing

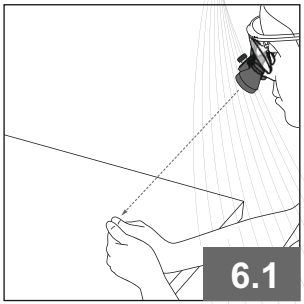
Before being delivered to you, your ERGOPTIX loupes were inspected, tested and adjusted by technicians to ensure correct focusing; however, you will need to perform a few simple focusing adjustments so that the loupes meet your unique vision requirements.

Put on your loupes and secure the safety strap behind your head. Look in a mirror to ensure the frame sit comfortably on your nose and that the top of the frame aligns properly with the horizontal plane of your eyes.

The interpupillary knob adjusts the lateral distance from one barrel to the other. This should be the ONLY adjustment you will need to make. Once set properly, it should not need readjustment each time you use your loupes.

Warning:
Only adjust the loupes as instructed. Unscrewing parts or making adjustments not outlined below may damage your loupes.

6.1 Loupe optics have a preset focal distance. An easy way to determine the working distance of your loupe optics is to view your thumbs while moving them in and out of focus.



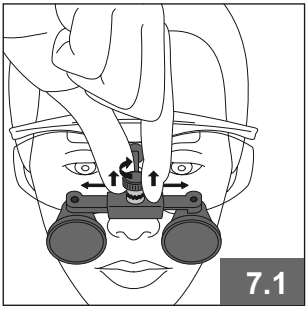
Determine focal distance

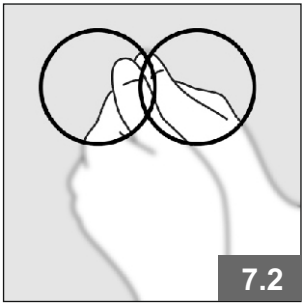
7. Adjusting IPD

7.1 The only adjustment that is usually needed is to set the IPD (Interpupillary Distance). While focusing on an object, pull up on the Interpupillary Adjustment Knob and rotate, moving the optics apart and together. You should look at the outside rings of the field of view when you are adjusting the IPD.

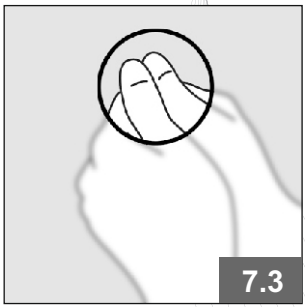
7.2 Focus on an object with the optics far apart.

7.3 Bring the optics together until you see a single circle. Once you see a single circle, your IPD is set.





Before IPD is adjusted.



After IPD is adjusted.

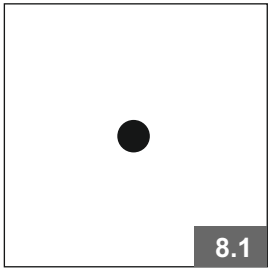
8. Convergence Angle Test

The convergence angle of your loupe optics is preset according to your working distance.

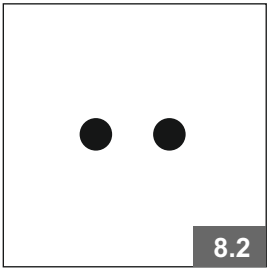
8.1 To test the convergence angle, draw a single dot on a piece of paper. Focus on the dot with your loupe optics at the proper working distance. Unless you are seeing two dots, your convergence settings should not require adjustment.

8.2 Two horizontal dots indicate horizontal misalignment. Proceed to step 9 to correct the convergence angle.

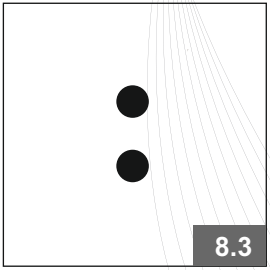
8.3 In the rare case that two vertical dots indicate a vertical misalignment, your loupes may need to be returned to RLARD for adjustment. Call customer service at 8379931086- to arrange for a return authorization number.



Normal



Horizontal misalignment



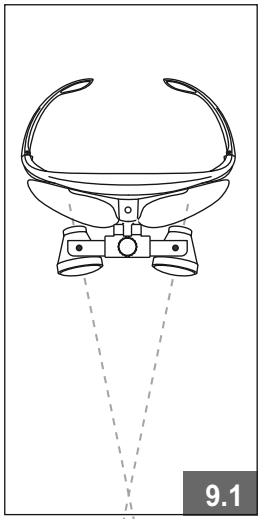
Vertical misalignment

9. Adjusting Convergence Angle

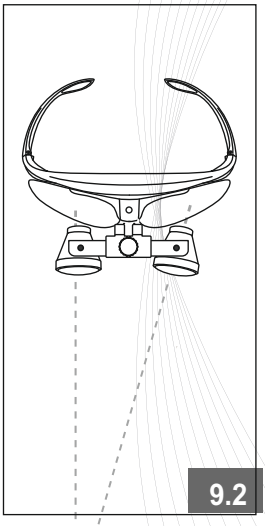
Before adjusting the convergence angle, set the IPD (see step 7). Then, follow the instructions in step 8.1. If you still see two horizontal dots, your optics have convergence error and you need to rotate the lens barrels to eliminate the horizontal convergence error.

9.1 To adjust the horizontal convergence angle, first look downward at the loupe optics from the top to see if the barrels are equally angled.

9.2 Barrels out of alignment will appear asymmetrical.



Barrels in alignment.



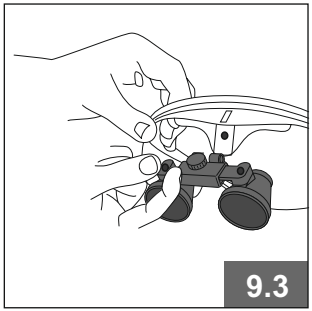
Barrels out of alignment.

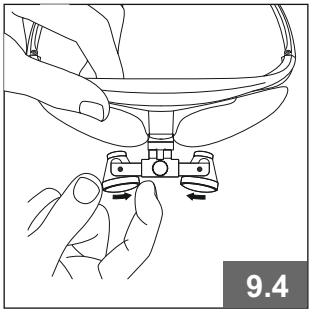
9. Adjusting Convergence Angle (Continued)

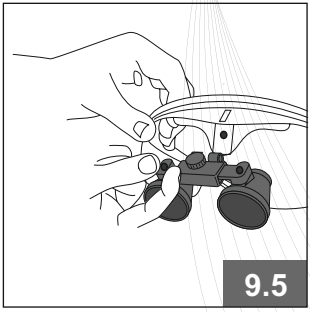
9.3 If a barrel seems out of alignment, loosen both the convergence adjustment knobs.

9.4 Adjust one or both barrels so they are pointing slightly and equally inward (this will give you a rough alignment).

9.5 Slightly tighten both knobs to keep them in alignment. Focus on the dot from Step 8. If you still see two dots, repeat steps 7.1 - 9.5 until you see one dot and both barrels are pointing inward equally. Once set, tighten both convergence knob on each barrel.







LED Head Light

10. Contents

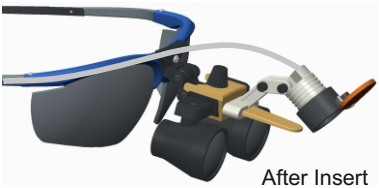
Please Inspect contents. If any item is missing, contact RLARD customer support.

A. Battery
B. LED Head Light
C. Curing Filter
D. Charger
E. Adapter Clip
F. Small Clip
G. Allen Key

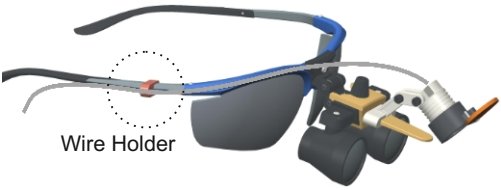
11. Attachment of Head Light to Loupe

LED Headlight should insert and rest on Flip-up Paddle.

While Insert



After Insert



Wire Holder

Wire Clip

12. Properly attachment and Position of Head Light

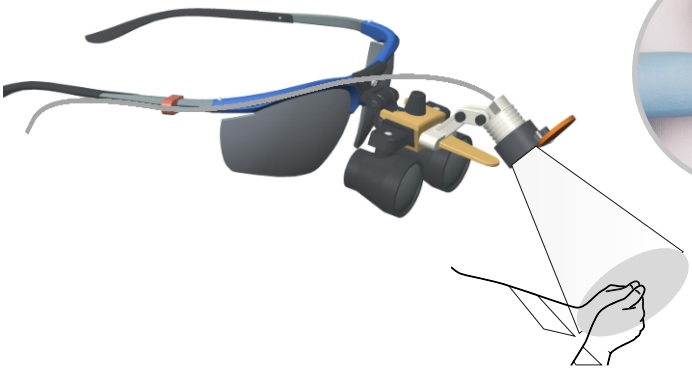
13. Focusing (LED Head Light)

Before being delivered to you, your ERGOPTIX LED Head Light were inspected, tested and adjusted by technicians to ensure correct focusing; however, you will need to perform a few simple focusing adjustments so that the loupes meet your unique vision requirements.

Put LED Head Light on your loupes properly before wearing the loupes. Adjust the angle to set the focus of light on object. Set the brightness by pressing power control button of intensity controller.

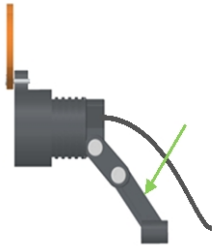
Warning:

Only adjust the Head Light as instructed. Unscrewing parts or making adjustments not outlined below may damage your loupes.

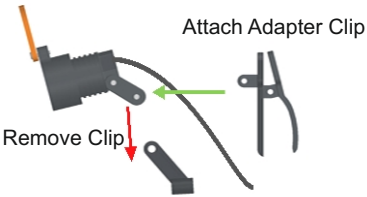


Intensity Controller

14. Attachment of Head Light using Adaptor Clip



STEP 1



STEP 2

STEP 3

STEP 4

15. ERGOPTIX Magnifying Loupe and LED Head Light

16. Cleaning and Disinfecting Lenses and Shields

Use the supplied cloth to clean the optical lenses. A lightly moistened cloth with alcohol or eyeglass lens cleaner can also be used. DO NOT WET OR IMMERSE THE OPTICAL LENSES IN WATER OR LIQUID. For all other components such as the frames, nosepad and hinges, clean with an alcohol or disinfectant wipe. It is recommended that lens covers and flip up paddle are used regularly. These can then be removed, cleaned thoroughly, dried, and then replaced on the loupes and also help to avoid touching the non-sterile loupes.
NEVER SOAK LOUPES.

Warning

Never attempt to sterilize loupes by any method!

Never soak loupes in any solution – not even water!

Never place loupes in an ultrasonic cleaner!

17. Warranty

Prior to returning product to RLARD for any reason, please call 8379931086 to request a Return Authorization (RA) number.

RLARD warrants its products to be free of original defects in material and workmanship and to perform in accordance with specifications for the following terms:

Limited Lifetime Warranty:
All working parts of the loupe hinge mechanism and light attachment mechanism.

One Year Limited Warranty:
Optics, frames and nosepieces.

Limitations of Warranty:
* Breakage or failure due to tampering, misuse, neglect, accidents, modification or shipping.
* If the instrument is not used in accordance with manufacturer's recommendations or instructions.
* If repaired or serviced by other than RLARD or a RLARD authorized representative.

Prompt inspection and reporting of missing or damaged product should be reported to RLARD within 3 days of receipt.

If RLARD products or any component thereof is found to be defective or at variance with the manufacturer's specifications during the warranty period, RLARD will repair or replace the instrument or component(s) at no cost to the purchaser. This warranty only applies to products purchased new from RLARD or its authorized distributors or representatives.

The purchaser must return the product directly to RLARD or an authorized distributor or representative and bear the cost of shipping.

18. Contact Information

Address:

RLARD ENGITECH PVT. LTD.
Flat No. 5B, Rajhans Residency, S. No. 245/4/2 & 245/5/1, DP Road, Baner, Pune - 411007.

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