



Carbon X Loupe

Surgical magnifying glasses

Manual



1.Product Name

Carbon X Surgical magnifying glasses

2.Brand

Xpedent

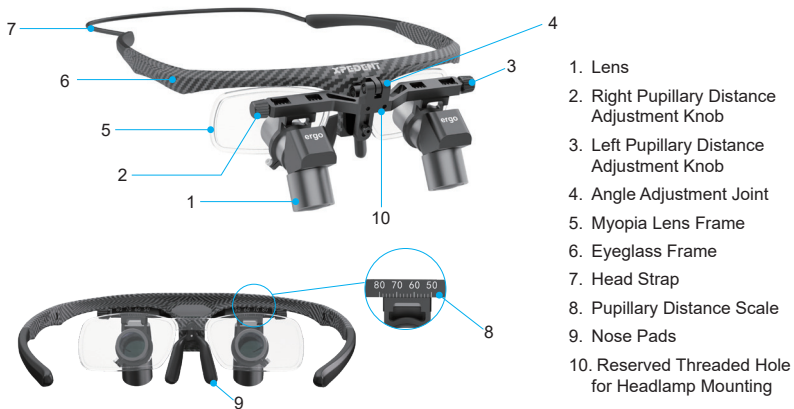
3.Model/Specification

Model	
JC System Clamp-Type Magnifier	
Specification (Magnification)	
JC2.5X	JC6.0X
JC3.0X	JC6.5X
JC3.5X	JC7.0X
JC4.0X	JC7.5X
JC4.5X	JC8.0X
JC5.0X	JC8.5X
JC5.5X	

4. Product Description

This product is an optical medical magnifier, a type of optical magnification device designed using the principles of lens optics.

5. Product Illustration



6. Product Components

The medical magnifier consists of lenses, an adjustable pupillary distance frame, eyeglass frames, and a head strap.

7. Applicable Scope

This product is used to magnify field of view, facilitating the observation of object details.

8. Specifications and Technical Parameters

- 1) Magnification: 2.5X–8.5X
- 2) Working Distance: 280–600 mm

9. Environmental Requirements

Operating Environment:

- 1) Temperature Range: 0°C to +40°C
- 2) Relative Humidity: $20\% \leq RH \leq 80\%$
- 3) Altitude: With an atmospheric pressure of 62kPa to 106kPa during use and storage
- 4) For indoor use

Storage Environment:

- 1) Storage Temperature: -20°C to +55°C
- 2) Relative Humidity: $20\% \leq RH \leq 80\%$
- 3) Avoid direct sunlight and exposure to corrosive gases
- 4) Keep away from heat sources and open flames

Transportation Instructions:

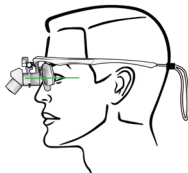
- 1) Avoid rain and moisture during transportation, prevent severe vibration, and place upright according to the label

10. Instructions for Use

- 1) Remove the loupe from the packaging box.
- 2) Connect the head strap to the ends of the eyeglass frame.
- 3) Wear the loupe, gently tighten the head strap to secure it, and adjust the strap to a comfortable position. Objects should be observed normally through the loupe.
- 4) Adjust the lens height and angle. Use the provided hex wrench to slightly loosen the upper and lower fixing nuts (as shown in Figure 10.1) to allow the lens to move up and down. Adjust the height of the magnifying lens and the angle adjustment joint to align the lens and pupillary height, ensuring a complete visual field without shadows. Once the height adjustment is complete, tighten the nuts to prevent loosening.



10.1



5) Adjust the nose pads. The nose pads are made of soft silicone, providing comfort. An embedded pre-bent steel sheet allows for adjustable height to fit the bridge of the nose:

If the glasses are too high, press the nose pads outward to lower the relative height of the frame to the eyes (Figure 10.2).



图10.2

If the glasses are too low, press the nose pads inward to raise the relative height of the frame to the eyes (Figure 10.3).



10.3

Additionally, the overall height of the nose pads can be adjusted by loosening the fixing screw of the nose pad bracket (as shown in Figure 10.4). After adjusting, lock and secure the screw in place.



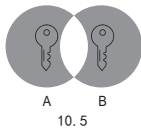
10.4

6) Interpupillary Distance Adjustment:

Select a specific object according to the working distance marked by the loupe and observe it through the loupe. If the object image seen by the left and right eyes cannot be combined, adjust the inter pupillary distance knobs [2] and [3] until the two separate images merge into a single complete image.

- As shown in Figure 10.5, the AB images partially overlap, indicating that the pupillary distance needs to be reduced.
- In Figure 10.6, the AB images coincide perfectly, which is the optimal observation state.
- In Figure 10.7, the images are over-coincident; in this case, the pupillary distance should be slightly increased to achieve the state shown in Figure 10.6.

Once the images are combined, record your pupillary distance using the [8] pupillary distance scale for quick future adjustments.



7) If magnification is not required for a time during use, the lens can be flipped up, enabling a normal view. The lens can then be returned to the operating position when ready.

8) After Use:

Remove the medical magnifier and place it back in the packaging box.



11. Precautions

- 1) The medical magnifier is a precision optical instrument. After use, please return it to its case to maintain a clean environment.
- 2) The lens can be cleaned with a lens cloth. If there is grease on the lens surface, use a professional lens cleaner. Do not use alcohol for cleaning.
- 3) When wearing the medical magnifier, ensure that the head strap is tightened to prevent the magnifier from falling and causing injury to patients.
- 4) Do not look directly at strong light sources while using the loupe to prevent eye damage.
- 5) Do not use hard objects to wipe the lens to avoid scratching the lens surface.
- 6) The loupe is not waterproof; therefore do not wash with water, do not use ultrasonic cleaning, and do

not subject it to high-pressure steam sterilisation.














7) Our company is a professional manufacturer of medical devices. Repairs and modifications of the medical magnifier should be carried out by our company or technicians authorised by our company. Otherwise, our company is not responsible for the safety of the equipment. Unauthorised modifications by users may cause deviations, reduce accuracy, and affect surgical operations.

12. Maintenance

1) The loupe should be cleaned after each use.

2) Use a damp cloth dipped in water or a small amount of 75% alcohol to wipe the non-lens parts. For the lens, use a clean cotton swab dipped in professional lens cleaner. After cleaning, allow the magnifier to air dry and then store it in the storage box.


13.Symbol explanation

	Manufacturer's LOGO		Consult instructions for use
	Date of manufacture		Store in a dry place
	Manufacturer		Fragile items
	Serial number		Up
	Recycle		Storage humidity $10\% \leq RH \leq 83\%$
	CE marking		Storage temperature $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
	ISO 13485: 2016		

14.Packing list

NO.	Name	Quantity	Remarks
1	Surgical Magnifying Glasses	1	
2	Head Strap	1	
3	Hex Wrench	1	
4	Glasses Cleaning Cloth	1	
5	Certificate	1	
6	Instructions	1	
7	Warranty Card	1	

Warranty Card

Name of Customer		 (I) For Distributor
Address Details		
Postal Code		
Tel		
Model		
Machine ID		
Purchase Date		
Contact Person		
Date	Maintenance Record	Repairer




Guilin Yikeshi Medical Instrument Co.,Ltd.

D-8, Guilin National High-tech Zone Information Industrial Park,
 Chaoyang Road, Qixing District, Guilin, Guangxi, 541004, P.R.China
 Postal Code: 541004 Email: sales@xpediency.cn
 Tel/Fax: 0086 0773 5805522 Website: www.xpedent-intl.com

Distributor:

Seal

Warranty Card

Name of Customer		 (II) Return to Manufacturer
Address Details		
Postal Code		
Tel		
Model		
Machine ID		
Purchase Date		
Contact Person		
Date	Maintenance Record	Repairer



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Distributor:

Seal

Warranty Instruction

I Period validity

Terms of service: We offer 12 months warranty repair to the equipment based on the date of sale on the warranty card, and charged maintenance for the life of the product.

II Range of warranty

Within the warranty period of validity, we are responsible for any troubles caused by quality problems or products technique and structure.

III The following are beyond our warranty

1. The damage caused by disobeying the operation instruction or lack of the needed condition.
2. The damage caused by unsuitable operation or disassembly without authorisation.
3. The damage on product that caused by users' unexpected drop or impact to product.
4. The damage caused by unadvisable transportation or preservation.
5. There isn't the seal of distributor or the warranty card isn't filled in completed.

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