



CarbonFore

Surgical magnifying glasses

Manual

1.Product Name

Surgical magnifying glasses

2.Brand

Xpedent

3.Model/Specification

Model	
TD System Clamp-Type Magnifier	
Specification (Magnification)	
TD2.5X	TD6.0X
TD3.0X	TD6.5X
TD3.5X	TD7.0X
TD4.0X	TD7.5X
TD4.5X	TD8.0X
TD5.0X	TD8.5X
TD5.5X	

4. Product Description

This product is an optical medical magnifier, a type of optical magnification device constructed using the principles of lenses.

5.Product Illustration



Fig 5.1 Frontal Diagram of Medical Magnifier



Fig 5.2 Back Diagram of Medical Magnifier

1. Lens
2. Pupil distance adjustment right knob
3. Pupil distance adjustment left knob
4. Movable hinge
5. Nose pads
6. Head Strap
7. Eyeglass Frame
8. Pupil distance scale
9. Forehead pad

6. Product Components

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

7. Applicable Scope

This product is used to enlarge the operator's field of view, facilitating the observation of object details.

8. Specifications and Technical Parameters

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

9. Environmental Requirements

Operating Environment:

- 1) Temperature Range: 0°C to +40°C
- 2) Relative Humidity: $20\% \leq RH \leq 80\%$
- 3) Altitude: Not exceeding 4000m, 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 magnifier from the packaging box;
- 2) Connect the head strap to the end of the eyeglass frame;
- 3) Wear the medical magnifier, gently tighten the head strap fixation, Keep the [09] Forehead pad close to the forehead, adjust the head strap to a comfortable position.

Objects should be observed normally through the magnifier;

- 4) Adjust the lens height and Angle. Adjust the height of the magnifying lens and [4] Movable hinge to keep the lens and pupil height at the same level, so that the visual field is complete without shadow;

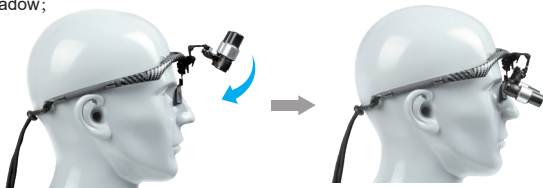


Figure 10.1

5) Adjust the nose pads. The nose pads is made of soft silicone and is comfortable to wear. Embedded pre-bent steel sheet and adjustable height, can fit the bridge of the nose;
If the glasses are too low, the nose pads can be pulled down to raise the lens height (see Figure 10.2).

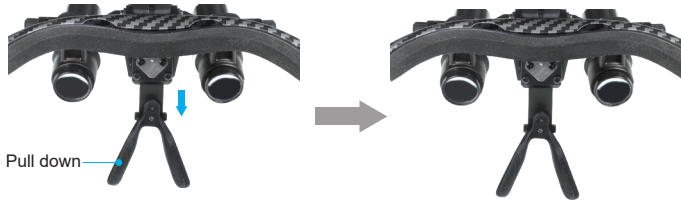


Figure 10.2

6) Interpupillary distance adjustment. Select a specific object according to the working distance marked by the purchased magnifying glass and observe it through the magnifying glass. If the object image seen by the left and right eyes cannot be combined, the adjustment knobs of pupil distance should be adjusted respectively [2] and [3] until the two complete objects seen by the two eyes are recombined into one;

As shown in Figure 10.3 below, the AB image partially overlaps, so the pupil distance needs to be further reduced. In Figure 10.4, the AB image is in a state of coincidence, which is the best observation state. As shown in Figure 10.5, it is in the state of over-coincidence. At this time, the pupil distance should be appropriately enlarged to make the object coincide to the state shown in Figure 10.4. After image combination, mark down your pupil distance according to the [8] pupil distance scale for quick use again.



Figure 10.3



Figure 10.4



Figure 10.5

7) Lens flip. If it is not necessary to enlarge the field of view temporarily during use, you can hold the tube part and rotate the secondary joint of the Movable hinge [4] to flip the lens up. When you need to enlarge the field of view, turn the lens down (as shown in Figure 10.6);

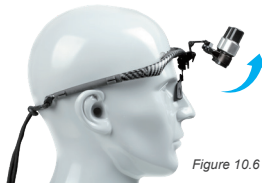


Figure 10.6

8) After Use:

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

11. Precautions

- 1) The medical magnifier should only be used by trained professionals (such as doctors or nurses) in hospitals or clinics.
- 2) The medical magnifier is a precision optical instrument. After use, please return it to the packaging box to maintain a clean environment.
- 3) 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.
- 4) When wearing the medical magnifier, ensure that the head strap is tightened to prevent the magnifier from falling and causing injury to patients.
- 5) Do not look directly at strong light sources while using the medical magnifier to prevent eye damage.
- 6) Do not use hard objects to wipe the lens to avoid scratching the lens surface.
- 7) The medical magnifier is not waterproof. Only wipe the surface of the medical magnifier with clean water.

Do not use the following operations.

- a. Water immersion cleaning.
- b. Ultrasonic cleaning.

a. High-pressure steam sterilisation.














8) 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 medical magnifier 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

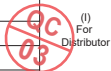
	Manufacturer's LOGO		Consult instructions for use
	Date of manufacture		Store in a dry place
	Manufacturer		Fragile items
	Serial number		Up
	Recycle		Storage humidity $10\% \leq RH \leq 83\%$
	CE marking		Storage temperature $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
	ISO 13485: 2016		

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		
Address Details		
Postal Code		
Tel		
Model		
Machine ID		
Purchase Date		
Contact Person		
Date	Maintenance Record	Repairer



Guilin Yikeshi Medical Instrument Co.,Ltd.

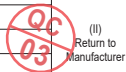
D-8,Guilin National High-tech Zone Information Industrial Park,
Chaoyang Road,Qixing District,Guilin,Guangxi,541004,P.R.China
Postal Code: 541004 Email: sales@xpediency.cn
Tel/Fax: 0086 0773 5805522 Website: www.xpedent-intl.com

Distributor:

Seal

Warranty Card

Name of Customer		
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 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.

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.

**SUNGO Europe B.V.**

Fascinatio Boulevard 522, Unit 1.7, 2909VA
Capelle aan den IJssel, The Netherlands

**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

Tel: 0086 0773 5805522

Fax: 0086 0773 5805522

Email: sales@xpediency.cn

Website: www.xpedent-intl.com