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> YOCTOSUN LED Head Mount Magnifier with 5 Lenses and Storage Case - Instruction Manual

YOCTOSUN YS-EGM-UGV1-C-SC

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Model: YS-EGM-UGV1-C-SC

1. PRODUCT OVERVIEW

The YOCTOSUN LED Head Mount Magnifier is designed to provide enhanced visibility for detailed tasks. It features multiple interchangeable lenses, adjustable LED lighting, and versatile wearing options for comfort and convenience.



Image 1.1: Overview of the YOCTOSUN LED Head Mount Magnifier and its components.

Key Features:

- **Interchangeable Lenses:** Includes 5 magnification lenses (1x, 1.5x, 2x, 2.5x, 3.5x) made from scratch-

resistant acrylic.

- **Rechargeable LED Light:** Integrated LED light with two adjustable brightness levels, powered by a built-in lithium battery.
- **Versatile Wearing Options:** Can be worn as traditional eyeglasses with arms or secured with an elastic headband for a more stable fit.
- **Comfort-Focused Design:** Features comfortable eyeglass frames with rubber nose-pads and forehead padding.
- **Protective Storage Case:** Comes with a durable case to keep the magnifier and lenses safe and clean.

2. SETUP AND ASSEMBLY

2.1 Unboxing and Initial Inspection

Carefully remove all components from the storage case. Verify that all parts are present: the main magnifier unit, 5 interchangeable lenses in their case, a USB charging cable, a cleaning cloth, and an elastic headband.



Image 2.1: All components neatly organized within the protective storage case.

2.2 Attaching Lenses

1. Select the desired magnification lens from the lens case.
2. Ensure the curved side of the lens is facing outwards.
3. Align the lens with the slot on the main magnifier unit and gently slide it in until it clicks securely into place.



Image 2.2: The main magnifier unit and the set of five interchangeable lenses.

2.3 Choosing Wearing Style (Arms or Headband)

The magnifier can be worn with traditional eyeglass arms or an elastic headband. To switch:

1. To remove the arms: Press the small button on the side of the main unit where the arm connects and pull the arm out. Repeat for the other side.
2. To attach the headband: Align the ends of the elastic headband with the slots on the main unit and push until they click into place. Adjust the headband for a snug, comfortable fit.
3. To attach the arms: Align the arms with the slots and push until they click into place.

VERSATILE & EASY TO USE



Detachable Lenses



Adjustable Light Angle



Adjustable Lens Angle



Interchangeable Headband

Image 2.3: Visual guide for interchangeable lenses, adjustable light, and interchangeable headband.

Your browser does not support the video tag.

Video 2.1: A short demonstration of assembling the magnifier, changing lenses, and wearing it for various tasks like sewing and watch repair.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off and Adjusting LED Brightness

The LED light is located on the front of the main unit. To operate:

1. Press the power switch on the top of the magnifier unit once for low brightness.
2. Press it a second time for high brightness.
3. Press it a third time to turn the LED light off.



Image 3.1: Location of the power switch and charging port on the magnifier unit.

3.2 Adjusting Light and Lens Angle

The LED light and the lens holder can be independently adjusted to optimize your viewing experience:

- **LED Light Angle:** The LED light module can be tilted up or down to direct illumination precisely where needed.
- **Lens Angle:** The lens holder can be angled up or down to align with your line of sight.
- **Lens Distance:** The entire lens assembly can be moved closer to or further from your eyes for optimal focus.

Your browser does not support the video tag.

Video 3.1: A detailed guide on unboxing, assembling, adjusting, and using the magnifier for various applications.

3.3 Common Applications

This magnifier is suitable for a wide range of activities requiring close-up vision:

- Hobby and crafts (e.g., model building, jewelry making, needlework)
- Reading fine print
- Electronic repair and soldering
- Beauty tasks (e.g., eyelash extensions, nail painting)



Image 3.2: Using the magnifier for detailed electronics work.



Image 3.3: The magnifier is ideal for various craft activities.

4. MAINTENANCE

4.1 Charging the LED Light

The LED light is powered by a rechargeable built-in lithium battery. To charge:

1. Locate the micro USB charging socket on the side of the main magnifier unit.
2. Connect the provided USB charging cable to the socket.
3. Plug the other end of the USB cable into a compatible USB power source (e.g., USB wall charger, power bank, computer USB port).
4. The battery recharges fully within approximately 40 minutes.



Image 4.1: The included USB charging cable.

4.2 Cleaning Lenses

To maintain optimal clarity, clean the lenses regularly:

- Use the provided soft cleaning cloth to gently wipe the lens surfaces.
- Avoid using abrasive materials or harsh chemicals, as these can scratch or damage the acrylic lenses.

5. TROUBLESHOOTING

5.1 LED Light Not Turning On

- Ensure the battery is charged. Connect the magnifier to a USB power source using the provided cable.
- Press the power button firmly. Try pressing it multiple times to cycle through brightness settings.

5.2 Blurred Vision or Difficulty Focusing

- Adjust the distance of the lens assembly from your eyes. The optimal focal distance varies with each lens and individual vision.
- Ensure the correct magnification lens is selected for your task. Higher magnification lenses require closer working distances.
- Clean the lenses with the provided cloth to remove any smudges or dust.

5.3 Magnifier Feels Uncomfortable or Slips

- If using the arms, ensure they are securely attached.
- If using the headband, adjust its tension for a snug but comfortable fit.
- The rubber nose-pads and forehead padding are designed for comfort; ensure they are positioned correctly on your face.

6. SPECIFICATIONS

Feature	Detail
Brand	YOCTOSUN
Model Number	YS-EGM-UGV1-C-SC
Magnification Strengths	1x, 1.5x, 2x, 2.5x, 3.5x
Lens Material	Acrylic
LED Light	Rechargeable, 2 Brightness Levels
Battery Type	1 Lithium Polymer battery (included)
Charging Time	Approx. 40 minutes
Product Dimensions	5.8"L x 3.5"W
Item Weight	1.04 pounds
Handle Material	Rubber
Color	White

Magnifier with Lens	With 1.0X Lens	With 1.5X Lens	With 2.0X Lens	With 2.5X Lens	With 3.5X Lens
Weight	2.67OZ(75.7g)	2.73OZ(77.4g)	2.78OZ(78.8g)	2.89OZ(81.9g)	3.07OZ(87g)

Lens Type	1.0X	1.5X	2.0X	2.5X	3.5X
Focal Length(View Length to Object)	19.7"(500mm)	13"(330mm)	9.8"(250mm)	7.9"(200mm)	5.5"(140mm)

The focal distance with eyeglass-style head-mounted magnifiers is not exactly the same for everyone, as it mainly depends on individual vision conditions, magnification, usage habits. Please slightly adjust the distance between the lens and the object to achieve the best clarity.

Max Brightness of LED Lights at Different Distance	4"(101.6mm)	8"(203.2mm)	12"(304.8mm)	16"(406.4mm)	20"(508mm)
Max Brightness	1500Lux	420Lux	210Lux	120Lux	60Lux

Image 6.1: Detailed specifications for focal distance and LED brightness per lens.

7. SAFETY INFORMATION

- Do not expose the magnifier to direct sunlight, as this may cause fire.
- Avoid looking directly at the sun or bright light sources through the lenses, as this can cause permanent eye damage.
- Keep out of reach of small children to prevent accidental ingestion of small parts or misuse.
- Do not disassemble the product; refer to qualified personnel for repairs.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official YOCTOSUN website. Keep your purchase receipt as proof of purchase.

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