

Q-BAIHE OWL-GG01

Q-BAIHE OWL-GG01 Laser Safety Goggles Instruction Manual

Model: OWL-GG01

1. PRODUCT OVERVIEW

The Q-BAIHE OWL-GG01 Laser Safety Goggles are designed to provide eye protection against specific laser wavelengths, including Blue UV light, 400-450nm (blue/violet) lasers, and 532nm (green) lasers. These goggles utilize a light absorption principle, offering non-selective protection against diffuse light and full protection for specific laser bands. Constructed from polycarbonate, they are designed for shock resistance and scratch resistance, ensuring continued safety even with minor surface wear.

Key Features:

- Protection against Blue UV light, 400-450nm, and 532nm laser wavelengths.
- Optical Density (OD): >5.0 (OD+4, OD+5).
- Visible Light Transmittance (VLT): Approximately 60%.
- Polycarbonate strengthen-eyeglasses construction for durability.
- Portable and comfortable design.

2. SAFETY INFORMATION

WARNING: Laser radiation can cause severe eye injury. Always wear appropriate laser safety goggles when operating or near laser systems. These goggles are designed to protect against specific wavelengths and power levels. Ensure the goggles provide adequate protection for the laser being used. Do not look directly into a laser beam, even with protective eyewear.

Always verify the laser's wavelength and power output against the specifications of these goggles before use. If you are unsure about the appropriate level of protection, consult a laser safety expert.

3. SETUP AND ADJUSTMENT

Before each use, inspect the goggles for any signs of damage, such as cracks, scratches, or discoloration on the lenses or frame. Do not use damaged goggles.

1. **Unpacking:** Carefully remove the goggles from their packaging.
2. **Fit Adjustment:** Place the goggles over your eyes. Ensure they fit snugly and comfortably, covering your entire field of vision without leaving gaps around the edges where laser light could enter. The earpieces may be adjustable to achieve a better fit.
3. **Visibility Check:** Once adjusted, ensure your vision is clear and unobstructed through the lenses. The green tint is normal for these protective goggles.



Image 1: Front view of the Q-BAIHE OWL-GG01 Laser Safety Goggles, showing the green tinted lenses and black frame.



Image 2: Angled view of the Q-BAIHE OWL-GG01 Laser Safety Goggles, highlighting the side protection.

4. OPERATING INSTRUCTIONS

These goggles are intended for use in environments where exposure to specific laser wavelengths (Blue UV, 400-450nm, 532nm) is possible. Always wear the goggles when operating or observing laser equipment that emits these wavelengths.

1. **Wear Correctly:** Ensure the goggles are worn correctly, covering your eyes completely and securely.
2. **Continuous Use:** Keep the goggles on for the entire duration of laser operation or presence in a laser hazard area.
3. **Do Not Modify:** Never attempt to modify or alter the goggles. Any modification may compromise their protective capabilities.
4. **Environmental Considerations:** Avoid using the goggles in conditions that could impair their function or your vision, such as extreme temperatures or high humidity, unless specifically designed for such environments.

5. MAINTENANCE AND STORAGE

Proper maintenance and storage will extend the lifespan and effectiveness of your laser safety goggles.

- **Cleaning:** Clean the lenses and frame regularly with a soft, lint-free cloth and a mild soap solution or lens cleaning spray. Avoid abrasive cleaners, solvents, or harsh chemicals, as these can damage the lens coating or material. Rinse with clean water and air dry or gently pat dry with a clean cloth.
- **Inspection:** Periodically inspect the goggles for any signs of wear, damage, or degradation. Pay close attention to the lenses for scratches or haziness that could affect visibility or protection.
- **Storage:** Store the goggles in a clean, dry, and cool place, away from direct sunlight, extreme temperatures, and corrosive chemicals. Use the provided case (if any) to protect them from dust and physical damage when not in use.
- **Disposal:** If the goggles become damaged or reach the end of their service life, dispose of them

according to local regulations for plastic waste.

6. TROUBLESHOOTING

If you encounter issues with your Q-BAIHE OWL-GG01 Laser Safety Goggles, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Reduced visibility / Hazy lenses	Dirt, smudges, or scratches on lenses.	Clean lenses as per maintenance instructions. If scratched, replace goggles.
Goggles do not fit securely	Improper adjustment or incorrect size.	Adjust earpieces for a snug fit. Ensure the goggles are suitable for your face size.
Discomfort during wear	Improper fit or prolonged use without breaks.	Re-adjust for comfort. Take short breaks if wearing for extended periods.
Visible laser light through lenses	Laser wavelength outside protected range, or damaged lenses.	Immediately cease laser operation. Verify laser wavelength against goggle specifications. Inspect for damage. Do not use if laser light is visible.

If problems persist or if you suspect the goggles' protective integrity is compromised, discontinue use immediately and replace them.

7. SPECIFICATIONS

Feature	Detail
Model Number	OWL-GG01
Protection Wavelengths	Blue UV light, 400-450nm (Blue/Violet), 532nm (Green)
Optical Density (OD)	>5.0 (OD+4, OD+5)
Visible Light Transmittance (VLT)	60%
Material	Polycarbonate (PC) Plastic
Color	Green lenses, Black frame
Dimensions (L x W x H)	Approx. 1.5 x 1 x 1 cm (Product dimensions as listed, actual wearing size approx. 13.5 x 5 x 9.5cm)
Weight	68 g (Product weight as listed, actual wearing weight approx. 27g)
Manufacturer Part Number	Goggle-400nm-450nm-GD

8. WARRANTY AND SUPPORT

Specific warranty information for the Q-BAIHE OWL-GG01 Laser Safety Goggles is not provided in this manual. For details regarding warranty coverage, duration, and claims, please refer to the product packaging or contact the retailer or manufacturer directly.

For technical support, product inquiries, or assistance with any issues not covered in this manual, please contact Q-BAIHE customer service through their official website or the point of purchase.