

## EENOUR EN600G

# EENOUR EN600G Automatic Light-Shielding Welding Helmet User Manual

Model: EN600G

## 1. SAFETY INSTRUCTIONS

Always prioritize safety when using welding equipment. This welding helmet is designed to protect your face and eyes from harmful light and sparks during welding, cutting, and grinding operations. However, it is crucial to follow all safety guidelines to prevent injury.

- **Eye Protection:** The auto-darkening filter provides protection against harmful UV and IR radiation. Ensure the filter is clean and free from damage before each use.
- **Face Protection:** The helmet shell protects your face from sparks, spatter, and heat.
- **Additional PPE:** This product protects your face and eyes only. Always wear appropriate personal protective equipment (PPE) such as welding gloves, arm covers, and protective clothing to shield other exposed skin from welding hazards.
- **Ventilation:** Ensure adequate ventilation in your work area to avoid inhaling welding fumes.
- **Test Function:** Utilize the test function before starting any welding operation to confirm the auto-darkening feature is working correctly.
- **Battery Check:** If the battery indicator light illuminates, replace the battery promptly to prevent unexpected power loss during operation.

## 2. PRODUCT OVERVIEW

The EENOUR EN600G Automatic Light-Shielding Welding Helmet features advanced optical technology and user-friendly adjustments for a comfortable and safe welding experience. Its lightweight design and multiple modes make it suitable for various applications.

# EENOUR 自動遮光溶接面



Figure 2.1: EENOUR EN600G Automatic Light-Shielding Welding Helmet with highlighted features including full-color lens, solar and battery power, high-sensitivity arc sensor, and ultra-high-speed reaction.

## Key Features:

- **Optical Class 1/1/1/2 High-Definition Lens:** Provides a clear, true-color view of the welding area, enhancing resolution and color accuracy for precise work.
- **Ultra-High-Speed Auto-Darkening (1/30000s):** Protects eyes instantly upon arc ignition, faster than a human blink.
- **Dual Power Source:** Features a replaceable battery and solar assist charging to extend battery life and prevent sudden power loss.
- **Lightweight and Durable Design:** Constructed from high-durability PP material, weighing only 480g, reducing strain during prolonged use.
- **Adjustable Headgear:** Allows fine-tuning of viewing angle, lens-to-eye distance, and overall fit for

maximum comfort. Includes a removable sweat-absorbing cushion.

- **Multiple Operating Modes:** Supports Welding (DIN9-13), Cutting (DIN5-9), and Grinding (DIN4) modes, adaptable for various applications.
- **UV/IR Protection:** Effectively blocks harmful arc light, UV, and IR rays to safeguard eye health.

## 3. SETUP

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### 3.1 Headgear Adjustment

Proper adjustment of the headgear is essential for comfort and optimal viewing. The helmet offers multiple adjustment points:

- **Size Adjustment:** Use the dial at the back of the headgear to adjust the circumference for a snug fit (fits head sizes 53-65cm / 21"-25.6").
- **Viewing Angle Adjustment:** Adjust the angle of the helmet to reduce neck strain and improve work efficiency.
- **Lens-to-Eye Distance Adjustment:** Adjust the front-to-back position of the headgear to optimize the distance between your eyes and the lens, reducing eye strain.
- **Face Angle Adjustment:** Securely fix the face angle to prevent slippage and allow real-time confirmation of welding conditions.

# 直感的なワンタッチで こだわりの精密調節を実現



## 感度調節

溶接電流や周囲の明るさにお応じ  
て感光度を調節可能



## 遅延速度調節

遮光状態から非遮光状態へ戻る  
時間を「短」0.1秒―「長」1秒の範囲で調節可能



## 遮光度調節

モード切替ボタンを除いて、感光度調整  
ノブで最適な感光度を調整可能



Figure 3.1: Detailed view of headgear adjustments including viewing angle, sweat-absorbing pad, depth, size, face angle, and distance.

## 3.2 Battery and Solar Power

The helmet is powered by a replaceable battery and supplemented by a solar panel. The solar panel automatically charges the battery when exposed to light, extending its lifespan.

- **Battery Replacement:** When the battery indicator light turns on, it signals that the battery needs replacement. Simply twist the battery cover to access and replace the battery.
- **Solar Charging:** The integrated solar panel provides auxiliary charging, reducing battery consumption.



# 電池とソーラー併用給電



工具不要！カバーを外すだけで電池が簡単交換



ソーラー補助充電はバッテリーの使用時間を大幅に延長

Figure 3.2: Illustration of the replaceable battery and solar panel for dual power supply.

## 4. OPERATING INSTRUCTIONS

### 4.1 Auto-Darkening Function

The helmet features an ultra-high-speed auto-darkening function that activates within 1/30000 seconds of detecting a welding arc, protecting your eyes from harmful light.

# 超高速反応 目をしっかり守る

溶接前

1/300000S

溶接中



Figure 4.1: Visual representation of the helmet's ultra-high-speed auto-darkening feature, showing the clear state before welding and the darkened state during welding.

## 4.2 Mode Selection and Adjustment

The EN600G offers three distinct operating modes and adjustable settings to suit various tasks:

- **Welding Mode (DIN9-13):** Suitable for arc, TIG, and MIG welding.
- **Cutting Mode (DIN5-9):** Ideal for plasma cutting.
- **Grinding Mode (DIN4):** Provides clear vision for grinding tasks without darkening.

Adjustments for sensitivity, delay, and shade level can be made using the dials on the side of the helmet.

# 安全保護・自動警報

## 低電力警告灯

バッテリー残量が少なくなると、充電のタイミングをお知らせするため赤色警告灯が点灯します。電力切れによるレンズの不作動を回避し、目の安全を確実に保護します。

## テストボタン

使用前にテストボタンを押すだけで、遮光機能が正常に作動するか確認できます。これにより、回路の故障や異常によるアーク光から目を守り、損傷を防ぎます。



Figure 4.2: Control panel showing sensitivity, delay, and mode selection dials for precise adjustment.

## 4.3 Test Function

Before beginning any work, press the 'TEST' button on the control panel to verify that the auto-darkening function is operating correctly. This ensures your eyes are protected from unexpected arc flashes.

## 5. MAINTENANCE

### 5.1 Cleaning

- Regularly clean the outer and inner protective plates with a soft cloth and mild cleaning solution.
- Do not use abrasive cleaners or solvents that could damage the lens or helmet material.
- The sweat-absorbing cushion on the headgear is removable for easy cleaning.

## 5.2 Storage

Store the welding helmet in a dry, clean place away from direct sunlight and extreme temperatures. Protect the lens from scratches and impacts.

## 6. TROUBLESHOOTING

- **Lens Not Darkening:** Check the battery level and replace if necessary. Ensure the arc sensors are clean and unobstructed. Verify the sensitivity setting is appropriate for your welding current.
- **Poor Visibility:** Clean the protective plates and the auto-darkening filter. Adjust the shade level to a comfortable setting for your task.
- **Uncomfortable Fit:** Re-adjust the headgear settings (size, angle, distance) as described in Section 3.1.

## 7. SPECIFICATIONS

Specification	Value
Manufacturer	EENOUR
Part Number	EN600G
Product Weight	480 g
Product Dimensions	25 x 22 x 30 cm
Battery	1 Lithium Metal battery (included)
Included Components	Protective Plate
Battery Included	Yes
Battery Usage	Yes
Battery Type	Lithium Metal
ASIN	B0FKFVPR6Z
First Available Date	2025/7/30

## 8. USAGE EXAMPLE (EENOUR MIG120L WELDING MACHINE)

This video demonstrates the setup and use of an EENOUR MIG120L semi-automatic welding machine, which is often used in conjunction with a welding helmet like the EN600G. While the video focuses on the welding machine, it provides a visual context for welding operations where the EN600G helmet would be utilized.

Video 8.1: EENOUR Semi-automatic welding machine MIG120L in use. This video demonstrates welding operations, providing context for the use of a welding helmet.

## 9. WARRANTY AND SUPPORT

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



purchase.