

## YESWELDER ARC-125DS PRO

# YESWELDER ARC-125DS PRO Stick Welder and Auto-Darkening Welding Helmet User Manual

Model: ARC-125DS PRO

## INTRODUCTION

This manual provides essential instructions for the safe and effective operation, maintenance, and troubleshooting of your YESWELDER ARC-125DS PRO Stick Welder and the accompanying True Color Solar Powered Auto Darkening Welding Helmet. Please read this manual thoroughly before use to ensure proper functionality and safety.

## IMPORTANT SAFETY INFORMATION

Always prioritize safety when operating welding equipment. Failure to follow safety precautions can result in serious injury or death. Keep this manual for future reference.

- **Electric Shock:** Welding current can cause fatal electric shock. Ensure proper grounding and insulation. Never touch live electrical parts.
- **Fumes and Gases:** Welding produces fumes and gases that can be hazardous to health. Work in a well-ventilated area or use an approved respirator.
- **Arc Rays:** Arc rays can burn eyes and skin. Always use the auto-darkening welding helmet and appropriate protective clothing.
- **Fire and Explosion:** Welding sparks and hot metal can cause fire or explosions. Keep flammable materials away from the welding area.
- **Burns:** Hot metal and equipment can cause severe burns. Wear protective gloves and clothing.

## PRODUCT OVERVIEW

The YESWELDER ARC-125DS PRO is a compact and portable 125Amp stick welder designed for various welding tasks. It features an intelligent LED display for clear data readings and includes an auto-darkening welding helmet for eye protection.

### Key Features:

- **125Amp Stick Welder:** Capable of performing stick welding operations.
- **Large LED Display:** Provides clear readings for current, electrode dimension, function mode, and welding mode.
- **Automatic Hot Start:** Boosts current for easy, quick, and reliable arc starts.
- **Auto Adaptive Arc Force:** Minimizes electrode sticking without compromising arc stability.
- **Portable Design:** Compact (9.3"L x 3.7"W x 5.1"H) and lightweight (less than 5 lbs) with a carry strap.
- **110V Input:** Operates on standard 110V power supply.
- **Lift TIG Capability:** Offers an option for Lift TIG welding.
- **Auto Darkening Welding Helmet:** True Color technology with 1/1/1/1 optical clarity for improved visibility.
- **Fast Eye Protection:** Switches from light to dark in 1/30000 seconds.
- **Solar Powered Helmet:** Utilizes solar power for operation, with a replaceable battery backup.
- **Blue Light Blocking Technology:** Reduces harmful blue light exposure.

## Package Contents:

- YESWELDER ARC-125DS PRO Stick Welder
- Auto Darkening Welding Helmet
- Ground Clamp
- Electrode Holder
- Shoulder Strap
- User Manual

## SETUP

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### 1. Unpacking and Inspection:

Carefully remove all components from the packaging. Inspect for any shipping damage. If any damage is found, contact customer service immediately.



*Image: The YESWELDER ARC-125DS PRO Stick Welder and the included Auto-Darkening Welding Helmet.*

## 2. Welder Connection:

1. Ensure the welder is turned off and unplugged from the power source.
2. Connect the electrode holder cable to the positive (+) terminal on the welder.
3. Connect the ground clamp cable to the negative (-) terminal on the welder.
4. Ensure all connections are secure.



Image: Close-up view of the YESWELDER ARC-125DS PRO welder, showing the front panel with control knob and cable connection points.

### 3. Welding Helmet Preparation:

1. Remove any protective films from the helmet's viewing lens, both inside and out.
2. Adjust the headgear for a comfortable and secure fit.
3. Test the auto-darkening function by pressing the "TEST" button (if available) or exposing it to a bright light source (not the welding arc).





Image: The YESWELDER auto-darkening welding helmet, highlighting the protective films that must be removed before use.

# NEWLY UPGRADED LENS

3.64" × 1.67"

**SHADE  
CONTROL**

DIN 9~13



Image: Internal view of the welding helmet lens, showing sensitivity, delay controls, and the battery compartment.

## OPERATING INSTRUCTIONS

### 1. Welder Controls:

The ARC-125DS PRO features a user-friendly control panel with an LED display.



# PANEL INTRODUCTION

- |                  |                     |            |                 |            |
|------------------|---------------------|------------|-----------------|------------|
| <b>1</b>         | <b>2</b>            | <b>3</b>   | <b>4</b>        | <b>5</b>   |
| Parameter Button | Welding Mode Button | VRD Button | Digital Display | Value Knob |



Image: Detailed view of the welder's control panel, indicating the Parameter Button, Welding Mode Button, VRD Button, Digital Display, and Value Knob.

- **Parameter Button (1):** Used to cycle through adjustable parameters (e.g., Hot Start, Arc Force).
- **Welding Mode Button (2):** Selects between Stick and Lift TIG welding modes.
- **VRD Button (3):** Toggles Voltage Reduction Device (VRD) on or off for added safety.
- **Digital Display (4):** Shows current settings, error codes, and selected modes.
- **Value Knob (5):** Adjusts the amperage or selected parameter value.

# LATEST VERSION UPGRADED LARGE LED DISPLAY

Subvert the Traditional Visual Experience



Image: Close-up of the welder's LED display, showing indicators for Arc Force, Hot Start, 110V Input, VRD, Stick mode, and Lift TIG mode.

## 2. Welding Helmet Operation:

- **True Color View:** The helmet provides a clear, true-color view in the light state, improving visibility of the workpiece.
- **Auto Darkening:** Upon arc ignition, the lens automatically darkens within 1/30000 seconds to protect your eyes.
- **Sensitivity Control:** Adjusts how sensitive the sensors are to the welding arc, preventing unwanted darkening from ambient light.
- **Delay Control:** Adjusts the time the lens stays dark after the arc stops, preventing eye strain from afterglow.
- **Shade Control:** Typically DIN 9-13, adjustable to suit different welding processes and current levels.



# ADVANTAGE

## Auto Darkening Welding Helmet



Image: Diagram illustrating key features of the auto-darkening welding helmet, including True Color, Fast Darkening, PP-Strong Material, Anti-Blue Ray, and Replaceable Battery.

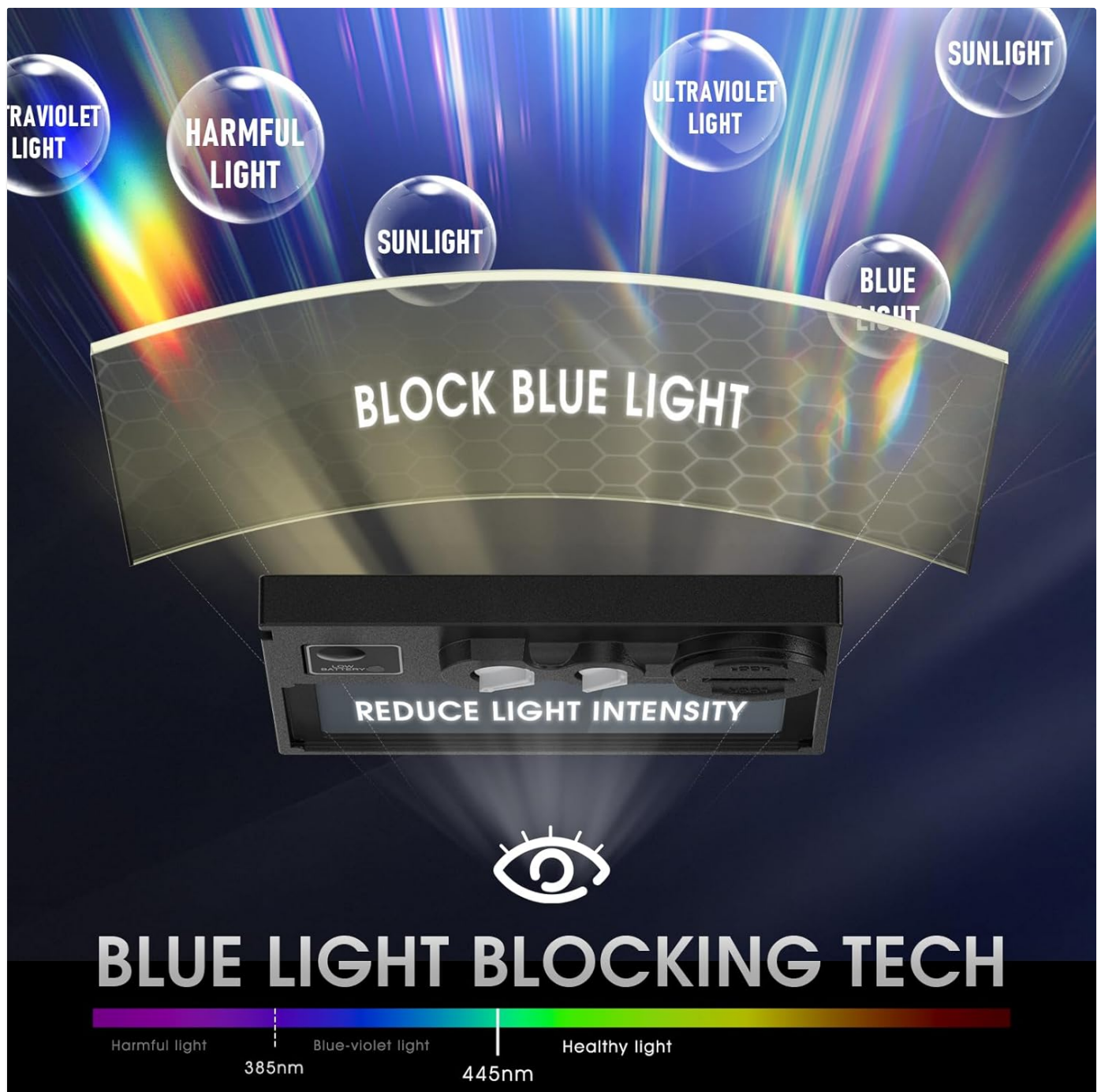


Image: Illustration of the helmet's blue light blocking technology, showing how it filters harmful light wavelengths.

### 3. Welding Process:

1. Ensure the workpiece is clean and properly grounded.
2. Select the appropriate welding mode (Stick or Lift TIG) and adjust the amperage using the Value Knob.
3. Wear all necessary personal protective equipment, including the welding helmet, gloves, and protective clothing.
4. Initiate the arc according to the chosen welding process. The welder's Automatic Hot Start and Auto Adaptive Arc Force features will assist in stable arc ignition and maintenance.
5. Maintain a consistent travel speed and arc length for optimal weld quality.





Image: A welder operating the YESWELDER ARC-125DS PRO, with callouts for Adjustable Hot Start, Anti-Stick, Advanced IGBT Technology, and Adjustable Arc Force.

## MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your welding equipment.

- **Cleaning:** Regularly clean the welder's exterior and ventilation openings to prevent dust buildup. Use a dry, clean cloth.
- **Cable Inspection:** Periodically inspect all cables for cuts, fraying, or damaged insulation. Replace damaged cables immediately.
- **Helmet Lens Care:** Clean the helmet's outer and inner protective lenses with a soft cloth and mild soap solution. Replace scratched or damaged lenses.
- **Battery Replacement (Helmet):** The welding helmet uses a replaceable battery. Refer to the helmet's internal diagram for battery type and replacement instructions.



- **Storage:** Store the welder and helmet in a dry, clean environment, away from extreme temperatures and moisture.

## TROUBLESHOOTING

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This section addresses common issues you might encounter. For problems not listed here, contact YESWELDER customer support.

### Welder Issues:

- **No Power:**
  - Check power cord connection.
  - Verify power outlet is functional.
  - Check circuit breaker.
- **Arc Not Starting / Weak Arc:**
  - Ensure proper ground clamp connection to workpiece.
  - Check electrode holder connection.
  - Verify correct amperage setting for the electrode size.
  - Ensure electrode is dry and suitable for the material.
- **Overheating Indicator:**
  - Allow the welder to cool down.
  - Ensure ventilation openings are clear.
  - Reduce duty cycle or welding current.

### Welding Helmet Issues:

- **Lens Not Darkening:**
  - Check battery level and replace if necessary.
  - Ensure sensors are clean and unobstructed.
  - Adjust sensitivity setting.
- **Lens Flickering:**
  - Adjust sensitivity and delay settings.
  - Ensure no other light sources are interfering with sensors.

## SPECIFICATIONS

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Feature	Specification
Brand	YESWELDER
Model	ARC-125DS PRO
Input Voltage	110 Volts
Welding Current Range	Up to 125 Amps




Feature	Specification
Welding Modes	Stick, Lift TIG
Welder Dimensions (L x W x H)	9.3" x 3.7" x 5.1"
Welder Weight	Less than 5 lbs (approx. 2 kg)
Helmet Optical Clarity	1/1/1/1
Helmet Switching Time	1/30000 sec
Helmet Power Source	Solar Powered, Replaceable Battery
Helmet Shade Control	DIN 9-13 (Adjustable)

## CUSTOMER SUPPORT

For further assistance, technical support, or warranty inquiries, please contact YESWELDER customer service. Refer to the product packaging or the official YESWELDER website for current contact information.



### Related Documents - ARC-125DS PRO

	<p><a href="#">YesWelder ARC-125DS PRO 125A Stick Welding Machine User Manual</a></p> <p>This manual provides essential information for the safe operation, installation, and maintenance of the YesWelder ARC-125DS PRO 125A Stick Welding Machine. Learn about safety precautions, setup procedures, and product specifications.</p>
	<p><a href="#">YESWELDER Auto Darkening Welding Helmet Instruction Manual</a></p> <p>Comprehensive instruction manual for the YESWELDER Auto Darkening Welding Helmet, detailing its features, operating principles, technical specifications, assembly, usage instructions, maintenance, warranty, and storage guidelines.</p>
	<p><a href="#">YESWELDER LYG-Q800D Series Auto-Darkening Welding Helmet Operator's Manual</a></p> <p>Operator's manual for the YESWELDER LYG-Q800D Series auto-darkening welding helmets, covering safety precautions, specifications, operating instructions, adjustments, maintenance, troubleshooting, and warranty information.</p>

