Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

YESWELDER YWM-160

YESWELDER YWM-160 Multiprocess Welder and LYG-L600A Welding Helmet User Manual

Model: YWM-160 Welder & LYG-L600A Helmet

Introduction

This manual provides essential instructions for the safe and effective operation and maintenance of your YESWELDER YWM-160 Multiprocess Welder and LYG-L600A Auto-Darkening Welding Helmet. Please read this manual thoroughly before use to ensure proper setup, operation, and to understand all safety precautions.

YWM-160 Multiprocess Welder Overview

The YESWELDER YWM-160 is a versatile 4-in-1 welding machine designed for various welding applications. It supports Flux Core MIG, Gas MIG, Stick, and Lift TIG welding processes. This unit features dual voltage compatibility (110V/220V) and a robust 160A output, making it suitable for automotive, construction, fabrication, and DIY projects.



Image: The YESWELDER YWM-160 Multiprocess Welder, showcasing its compact design and digital display.

Key Features:

- **4-in-1 Welding Capability:** Supports Flux Core MIG, Gas MIG, Stick, and Lift TIG (requires separate TIG torch).

- **Dual Voltage:** Operates on both 110V and 220V power supplies.
- **160A Output:** Provides reliable power for various welding tasks.
- **Synergic Control:** Automatically recommends voltage and wire feeding speed based on selected thickness or amperage, ideal for beginners.
- **Manual Control:** Allows experienced users to fine-tune wire feeding speed and voltage.
- **LED Digital Display:** Enhances visibility and operational efficiency.
- **Portability:** Weighs only 19.4 lbs (8.8 kg) with a carrying handle for easy transport.
- **IGBT Inverter Technology:** Ensures stable performance and reliable quality.



Image: Visual representation of the four welding processes supported by the YWM-160: MIG, Flux Core, Lift TIG, and Stick welding.

Welding Capacity:

The YWM-160 welder is compatible with 2LB and 10LB spools of 0.030" (0.8mm) and 0.035" (0.9mm) solid core wire and flux core wire. In Stick Welding mode, it performs effectively with most 6010, 6011, 6013, and 7018 rods.
It can be used to weld various materials including Mild Steel, Cast Iron, Square Pipe, Stainless Steel, Sheet Metal, and Carbon Steel.

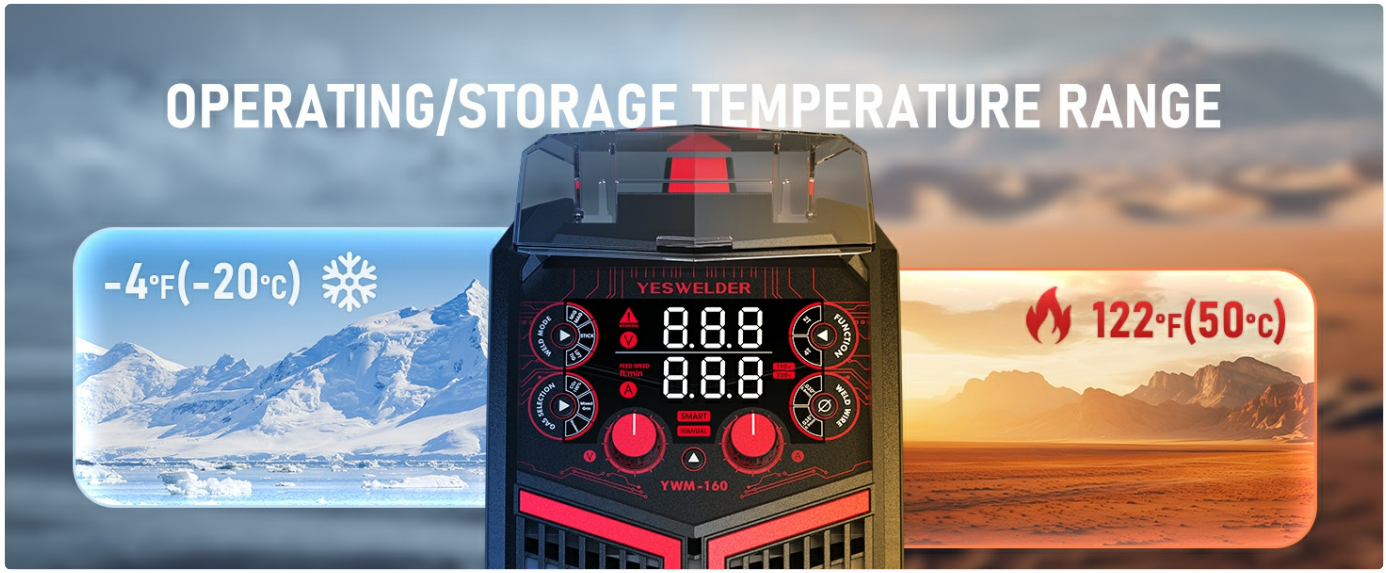


Image: A collage showing different types of metals suitable for welding with the YWM-160, such as mild steel, cast iron, stainless steel, and carbon steel.

LYG-L600A Auto-Darkening Welding Helmet Overview

The LYG-L600A welding helmet is designed to provide superior eye protection and clear visibility during welding operations. It features advanced blue light blocking technology and true color lens for enhanced safety and comfort.

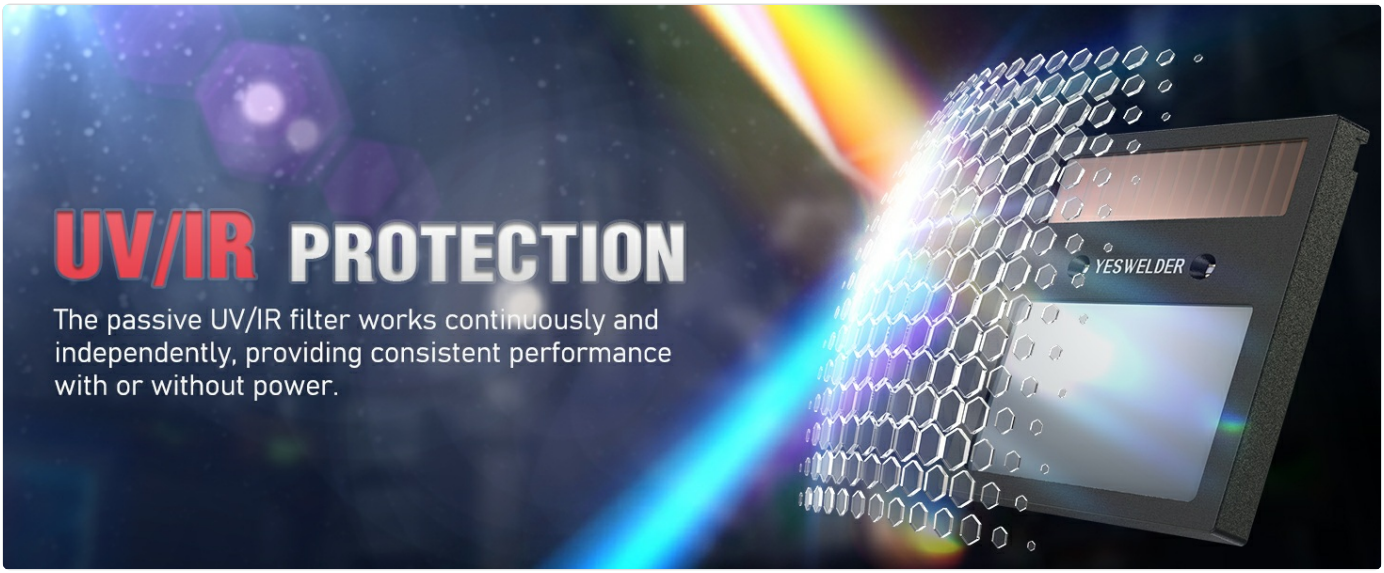


Image: The YESWELDER LYG-L600A Auto-Darkening Welding Helmet, highlighting its features like true color, fast darkening, PP-strong material, anti-blue ray, and replaceable battery.

Key Features:

- **Blue Light Blocking:** Outer lens filters harmful high-energy blue light rays, ensuring eye comfort and safety during extended welding sessions.
- **Versatile Shade Range:** Wide shade range of 3.5/9-13, suitable for TIG, MIG, MMA (Stick), and GRIND modes.
- **True Color & Clear View:** Standard 3.64" x 1.67" viewing area with upgraded 1/1/1/1 optical clarity for improved visibility and reduced eye strain.
- **Fast Auto-Darkening:** Two premium arc sensors trigger darkness in 1/30,000 seconds.
- **Adjustable Controls:** Features adjustable sensitivity and delay controls for optimal performance in various lighting and arc conditions.
- **UV/IR Protection:** Passive UV/IR filter provides continuous protection even without power.
- **Magnifying Lens Compatible:** Easily accommodates magnifying lenses for precision work.

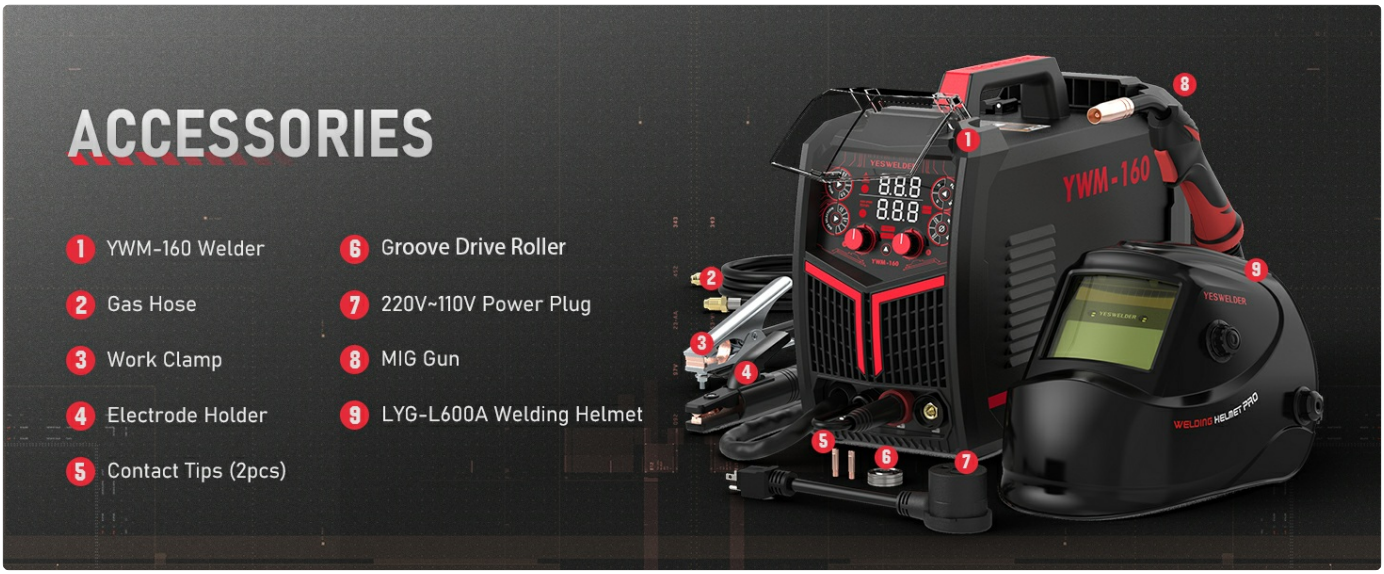


Image: A comparison illustrating the clarity and true color view provided by the LYG-L600A's lens technology versus traditional welding helmet lenses.

Safety Information

Always prioritize safety when operating welding equipment. The YWM-160 welder and LYG-L600A helmet are designed with several safety features, but proper handling and adherence to safety guidelines are crucial.



Image: Diagram illustrating the safety features of the YWM-160 welder: Overheating (automatic shutdown), Overload (automatic shutdown), Water Rating (IP21), and Electrostatic (unique coating to prevent shock transfer).

Welder Safety Features:

- **Overheating Protection:** Automatic shutdown if the unit overheats.
- **Overload Protection:** Automatic shutdown system to prevent damage from electrical overload.
- **Water Rating:** IP21 protection standard.

- **Electrostatic Protection:** Unique coating to prevent electric shock transfer.

Helmet Safety Features:

- **Blue Light Blocking:** Protects eyes from harmful blue light.
- **UV/IR Protection:** Continuous protection from ultraviolet and infrared radiation.
- **Fast Auto-Darkening:** Rapid response to arc ignition to prevent flash burn.

Operating Environment:

The recommended operating and storage temperature range for the YWM-160 welder is from -4°F (-20°C) to 122°F (50°C).

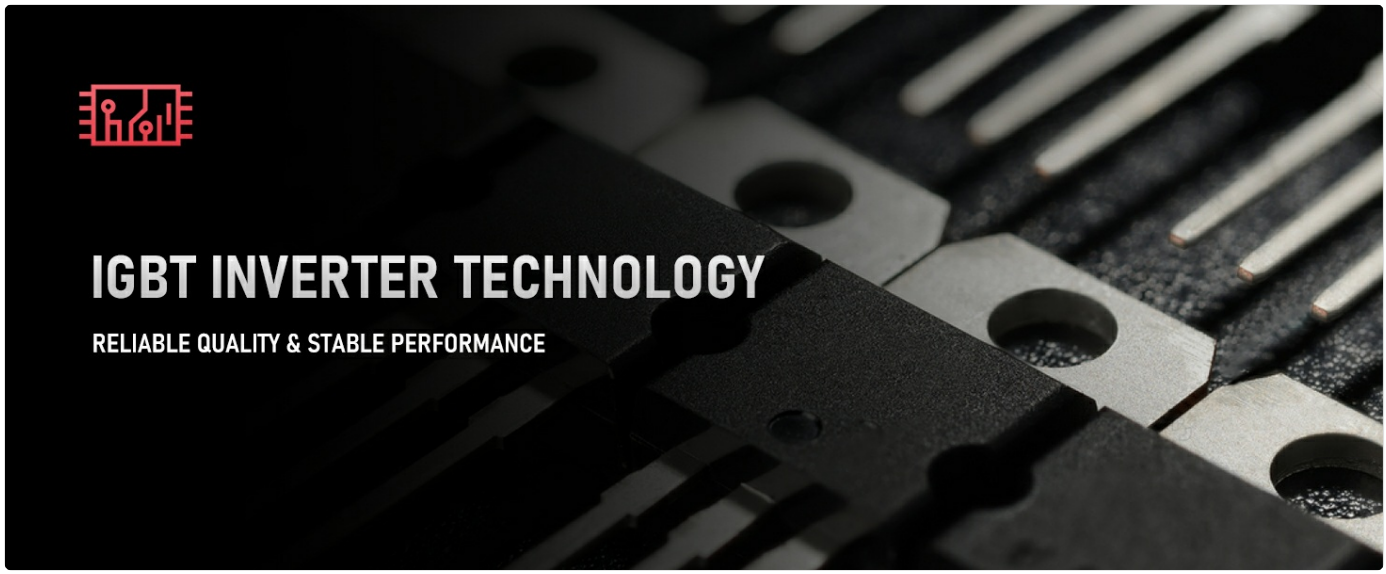


Image: Graphic illustrating the operating/storage temperature range for the YWM-160 welder, from -4°F (-20°C) to 122°F (50°C).

Setup

Included Components:

Your YESWELDER YWM-160 package includes the following items:

- YWM-160 Welder
- LYG-L600A Welding Helmet
- Gas Hose
- Work Clamp
- Electrode Holder
- Contact Tips (2 pcs)
- Groove Drive Roller
- 220V-110V Power Plug Adapter
- MIG Gun



Image: A visual guide to the accessories included with the YWM-160 welder and LYG-L600A helmet, numbered for easy identification.

Machine Overview (YWM-160):

Familiarize yourself with the main components and connections of the YWM-160 welder:

1. MIG Gun Connection
2. Wire Drive Polarity Lead
3. Positive Output Receptacle
4. Negative Output Receptacle
5. Gas Inlet (Front)
6. Gas Inlet (Rear)
7. Power Switch
8. Rating Plate
9. Ground Terminal
10. Cooling Fan

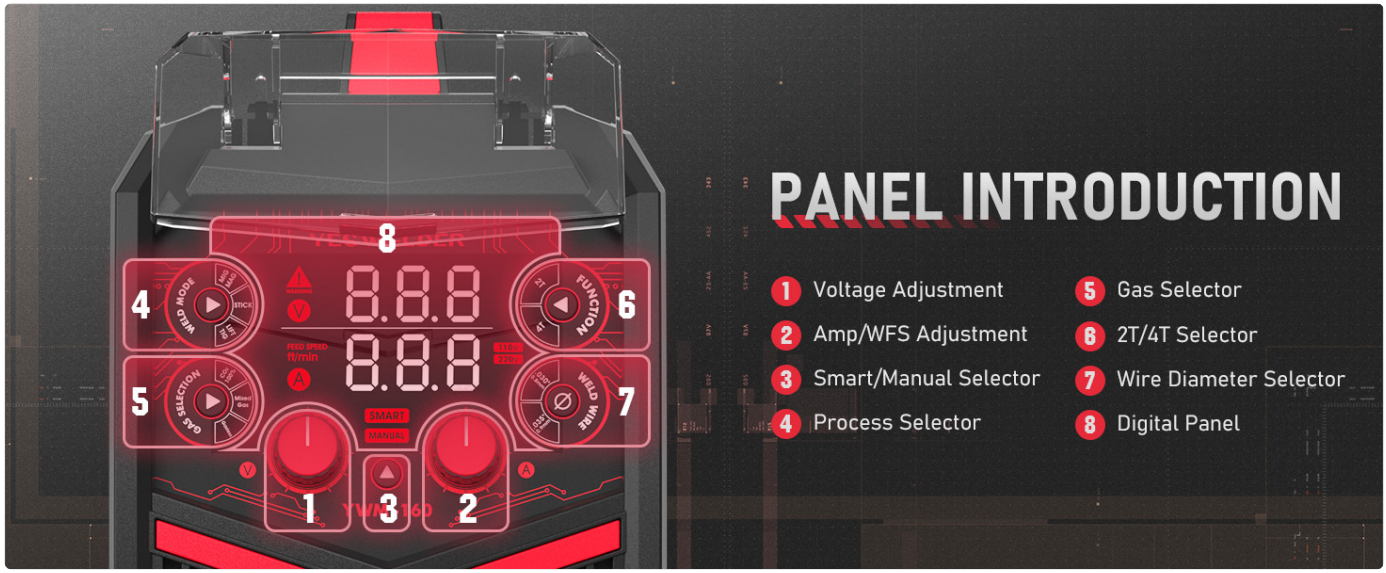


Image: Detailed diagram showing the various connection points and features on the YWM-160 welder, including MIG gun connection, gas inlets, and power switch.

Control Panel Introduction:

The front panel provides controls for adjusting welding parameters:

1. Voltage Adjustment
2. Amp/WFS Adjustment (Amperage/Wire Feed Speed)
3. Smart/Manual Selector
4. Process Selector (MIG, Flux Core, Stick, Lift TIG)
5. Gas Selector (for Gas MIG)
6. 2T/4T Selector
7. Wire Diameter Selector
8. Digital Panel (Displays settings)

Image: Close-up view of the YWM-160 welder's control panel, detailing the functions of each knob and button, including voltage adjustment, process selection, and the digital display.

Operating Instructions

YWM-160 Welder Operation:

The YWM-160 offers both Smart (Synergic) and Manual control modes to suit different user preferences and skill levels.



Image: The digital control panel of the YWM-160, highlighting the "Smart" and "Manual" control options for adjusting welding parameters.

- **Smart Control (Synergic):** When selecting different material thicknesses or adjusting the amperage, the recommended voltage and wire feeding speed will automatically be set. This mode simplifies setup and is highly beneficial for beginners.
- **Manual Control:** For experienced users, this mode allows for independent adjustment of wire feeding speed and voltage, providing greater control over the welding process.

2T/4T Function:

The 2T/4T function on the MIG gun provides flexibility in controlling the welding arc:

- **2T (Two-Touch):** Hold the trigger for a continuous arc. Releasing the trigger stops the arc. This is standard for short welds.

- **4T (Four-Touch):** Press and release the trigger to start the arc. Press and release again to stop the arc. This mode is useful for longer welds, reducing hand fatigue.



Image: A diagram explaining the 2T (Two-Touch) and 4T (Four-Touch) functions of the MIG gun trigger, showing how to hold or press/release for arc control.

LYG-L600A Welding Helmet Operation:

Before welding, ensure the helmet's sensitivity and delay settings are adjusted to your preference and the specific welding conditions. The helmet automatically darkens upon arc ignition and returns to a light state after welding ceases.



Image: Illustration showing the Grind Mode (DIN 3.5) and Welding Mode (DIN 9-13) settings on the LYG-L600A welding helmet, indicating different shade levels for various tasks.

Maintenance

Welder Maintenance:

- Regularly clean the exterior of the welder to prevent dust and debris buildup.
- Inspect cables and connections for wear or damage before each use.
- Ensure proper ventilation around the machine during operation to prevent overheating.

- Check the wire feed mechanism for smooth operation and clean any accumulated debris.

Welding Helmet Maintenance:

- Clean the helmet's outer and inner lenses regularly with a soft cloth and mild cleaner.
- Replace scratched or damaged lenses immediately to maintain optical clarity and protection.
- Check the battery regularly and replace it as needed (LYG-L600A uses replaceable batteries).
- Store the helmet in a dry, clean place away from direct sunlight and extreme temperatures.

Troubleshooting

This section provides general guidance for common issues. For detailed troubleshooting steps, refer to the complete product manual or contact customer support.

Common Welder Issues:

- **No Arc:** Check power supply, ground clamp connection, and ensure correct welding mode is selected.
- **Poor Weld Quality:** Verify wire feed speed, voltage settings, gas flow (for Gas MIG), and cleanliness of the workpiece.
- **Overheating Shutdown:** Allow the machine to cool down. Ensure adequate ventilation and check for blocked air vents.

Common Helmet Issues:

- **Lens Not Darkening:** Check battery level, ensure arc sensors are clean and unobstructed, and verify sensitivity settings.
- **Flickering Lens:** Adjust sensitivity and delay settings. Ensure stable arc conditions.

Specifications

YWM-160 Welder:

Manufacturer	YESWELDER
Part Number	YWM-160-1-WH
Item Weight	19.4 lbs (welder only); 29.6 lbs (package)
Product Dimensions	15.43 x 12.01 x 20.79 inches
Model Number	YWM-160-1-WH
Power Source	DC, 110V/220V Dual Voltage
Cooling Mode	Fan Cooling
Insulation Grade	F
Protection Standard	IP21S

LYG-L600A Welding Helmet:

Optical Clarity	1/1/1/1
Viewing Area	3.64" x 1.67"
Shade Range	DIN 3.5 (Grind Mode), DIN 9-13 (Welding Mode)
Switching Speed	1/30,000 seconds
Arc Sensors	2
Battery Type	Lithium Ion (included, replaceable)

Warranty and Support

For information regarding warranty coverage, technical support, or service, please contact YESWELDER customer service directly. Retain your proof of purchase for warranty claims.
You can typically find contact information on the manufacturer's official website or through the retailer where the product was purchased.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0FYCGZVXV

More documents and user manuals: **https://manuals.plus/**