

**DO NOT REMOVE THIS SAFETY CARD FROM THE LIGHTWELD™**



**SAFETY QUESTIONS?**

1-508-506-2877

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GettingStarted.HandHeldLaserWelder.com



# LightWELD OPERATING SAFETY

## ALWAYS WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT

### IMPORTANT



Read & understand operator's manual & all safety instructions **BEFORE USING THIS EQUIPMENT**

#### WEAR LASER SAFETY EYEWEAR



Personnel must wear laser safety eyewear (PPE) to protect against laser radiation hazards.

#### WEAR WELDING MASK/HELMET



Personnel must wear the provided welding mask/helmet to protect their eyes and head. There may be hot flying particles, intense light and UV radiation from welding activity.

#### WEAR PROTECTIVE CLOTHING



Personnel must wear non-flammable protecting clothing.

#### WEAR PROTECTIVE GLOVES



Personnel must wear non-flammable protecting gloves.

## LASER SAFETY PRECAUTIONS

**! DANGER**

**CLASS 4 LASER PRODUCT**  
INVISIBLE LASER RADIATION  
Avoid eye or skin exposure to direct or scattered radiation  
IEC 60825-1:2014  
Please refer to the product labeling on the rear panel

**! CAUTION**

Device operation requires laser safe enclosure with safety interlocks

**! CAUTION**

Proper personal protective equipment required for all personnel in welding area

**! CAUTION**

Wear proper personal protective equipment to prevent exposure to direct and reflected beams

**! WARNING**

Never look into the gun or point the gun at others even when wearing full eye protection

SEE REVERSE FOR OPERATING INFORMATION



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## SAFE OPERATION REQUIRES

- 1 PROPER MODE SELECTION BASED ON MATERIAL & THICKNESS
- 2 PROPER NOZZLE SELECTION BASED ON JOINT GEOMETRY
- 3 PROPER ANGLE AND POSITION OF THE WELDING GUN

## NOZZLE SELECTION

Butt Joint	Corner Joint	Tee Joint	Lap Joint	Edge Joint

## WELDING GUN ANGLE AND POSITION

OPERATORS AND OBSERVERS MUST BE AWARE OF REFLECTIONS AT ALL TIMES. MORE REFLECTION IS LIKELY TO OCCUR IF LASER PARAMETERS ARE NOT SET CORRECTLY TO ACHIEVE MELTING OF THE TARGET PART

Lower power density scattered reflections can travel large distances and can be hazardous

High power density specular reflections can travel large distances and can be hazardous

Always maintain viewing position at least 12" (300 mm) from the weld seam and behind reflection zones

Always maintain a 30° to 70° angle of the gun

SEE REVERSE FOR SAFETY INFORMATION