

Optrel 1010.200

Optrel Panoramaxx CLT Crystal Welding Helmet 1010.200 User Manual

MODEL: 1010.200

Introduction

This manual provides detailed instructions for the safe and effective use of your Optrel Panoramaxx CLT Crystal Welding Helmet 1010.200. This helmet features Crystal Lens Technology 2.0, offering shades 4-12, a wide panorama field of view, and the ISOFIT headgear system for enhanced comfort. Please read this manual thoroughly before operating the device.

Safety Information

Always wear appropriate personal protective equipment (PPE) when welding. Ensure the helmet is correctly fitted and all functions are checked before use. Do not modify the helmet. Replace damaged parts immediately. Protect the lens from scratches and impacts. Consult local safety regulations for specific requirements.

Product Overview

The Optrel Panoramaxx CLT Crystal Welding Helmet 1010.200 is designed to provide superior vision and protection during welding operations.

Key Features:

- Crystal Lens Technology 2.0 (Shades 4-12)
- Panorama Field of View (6x wider)
- ISOFIT Headgear System
- Soft Plastic Shell for enhanced durability
- Rechargeable Battery (Lithium Polymer)

Components:

- Welding Helmet Shell
- Auto-Darkening Filter (ADF) with Crystal Lens Technology 2.0
- ISOFIT Headgear
- External Cover Lens (installed)
- Spare External Cover Lens
- USB Charging Cable
- Nose Protection Pad
- Storage Bag



Figure 1: Front-side view of the Optrel Panoramaxx CLT Crystal Welding Helmet. This image displays the helmet's sleek black design, the wide viewing area of the Crystal Lens Technology 2.0, and the external adjustment knobs.

Setup

Initial Charging:

Before first use, fully charge the helmet's internal battery for 24 hours using the provided USB charging cable. The charging port is located inside the helmet. Ensure the rubber protector is in place when not charging to prevent debris entry.

Headgear Adjustment:

The ISOFIT headgear is designed for comfort and weight distribution. Adjust the top straps and the rear dial to achieve a snug and balanced fit on your head. The headgear allows for vertical adjustment of the helmet to align the lens with your eyes.

Nose Protection Pad Installation:

If the internal plastic makes contact with your nose, install the provided nose protection pad for added comfort.

Cover Lens Installation/Replacement:

The helmet comes with an external cover lens installed. A spare is included. To replace, carefully remove the old lens and snap the new one into place.

Operating Instructions

Mode Selection (Auto/Manual):

Locate the mode switch inside the helmet.

- **Auto Mode:** The helmet automatically adjusts the shade based on arc intensity. Use the fine-tune dial for minor adjustments within the auto-darkening range.
- **Manual Mode:** Flip the switch to manual. Use the dedicated dial to set the exact desired shade (4-12).

Delay Adjustment:

The delay dial controls the time it takes for the lens to return from dark to light after the arc extinguishes. Increase the delay for applications with intermittent arcs to prevent rapid flashing. Note: The transition from light to dark is always instantaneous.

Sensitivity Adjustment:

The sensitivity dial controls how readily the auto-darkening filter reacts to light. Adjust sensitivity based on ambient light conditions and welding process. For very bright environments, a lower sensitivity may prevent unwanted darkening. For low-amperage TIG welding, a higher sensitivity might be required.

Grind Mode:

Activate grind mode by pressing the button located on the side of the helmet. A blue indicator light will flash inside the helmet when grind mode is active, indicating that the auto-darkening function is disabled. Ensure grind mode is deactivated before welding.



Figure 2: Side view of the Optrel Panoramaxx CLT Crystal Welding Helmet, highlighting the external adjustment knobs and the grind mode button.

Maintenance

Cleaning:

Regularly clean the helmet shell with a soft, damp cloth. Clean the internal and external cover lenses with a soft cloth and a mild lens cleaning solution. Avoid abrasive materials.

Storage:

Store the helmet in the provided storage bag in a dry, clean environment away from direct sunlight and extreme temperatures.

Troubleshooting

Lens Not Darkening:

- Check battery charge.
- Ensure sensors are clean and unobstructed.
- Verify sensitivity settings are appropriate for the welding process.
- Confirm grind mode is not active.

Lens Flashing On/Off:

- Adjust delay setting.
- Increase sensitivity if welding at very low amperages.
- Ensure ambient light is not interfering with sensors.

Uncomfortable Fit:

- Re-adjust headgear straps and dial.
- Ensure nose protection pad is correctly installed if needed.

Specifications

Feature	Detail
Brand	Optrel
Model	1010.200
Material	Plastic
Item Weight	550 Grams (1.21 pounds)
Product Dimensions	14 x 14 x 10 inches
Battery Type	Lithium Polymer
Shade Range	4-12 (CLT 2.0)
Field of View	Panorama (6x wider)

Warranty and Support

This product comes with no stated warranty. For technical support or further assistance, please contact Optrel customer service.