



## SPERIAN WELDING PROTECTION TABLE OF CONTENTS

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Full Line SKU Listing

**⚠ WARNING!** Spierian welding equipment should be used only in conjunction with the manufacturer's instructions. Failure to follow such instructions could result in serious injury including diminution or loss of vision. Welding helmets and safety eyewear reduce the probability of injuries drastically and must be worn during all welding procedures.

## Sperian Welding Protection

### A COMPLETE AND COMPETITIVE PRODUCT SET DESIGNED TO ADDRESS ALL ARC WELDING APPLICATIONS

Sperian Protection delivers a broad selection of the most innovative, high-quality products to the welding market, providing welders with a robust selection to meet all of their welding needs. From our economical Optrel Sirius™ auto-darkening welding helmet, great for entry level welders or occasional users, to our Optrel Satellite™ helmet with a proven track record of success and reliability, we address the most demanding needs of the expert welder. Sperian® Welding Protection products absolutely cover all the bases.

#### The new Optrel p 250™ – clearly standing out from the crowd.

Designed for the professional welder, the Optrel p 250 welding helmet line marks the beginning of new generation of welding helmets and welding filters from Sperian Protection. Passive and active auto-darkening models offer a perfect solution for all general welding applications. A competitive mid-priced strategy targeted for the mainstream welder completes the package. Neither quality nor performance has been sacrificed, as the Optrel p 250 provides innovations such as the patented Light Guide™ sensing system that offers the largest arc detection area on the market. In addition, the variable model boasts the largest viewing area of any product in our current portfolio.

The Optrel p 250 is not just another welding helmet but rather an application and sales solution for the future.



## Auto-Darkening Welding Helmets

EYE & FACE PROTECTION

RESPIRATORY PROTECTION

INSTRUMENTATION

HAND & ARM PROTECTION

HEARING PROTECTION

FALL PROTECTION

HARLEY-DAVIDSON®



K604

### Optrel Satellite™

- Variable shades: 5-13
- Solar powered
- All adjustment controls on outside of helmet
- Dark-to-light delay switch – select fast or slow
- Push button for fixed shade grinding
- Patented telescoping headgear
- Long-life, easy-to-change cover plate design with seal
- Two-year warranty on ADF filter

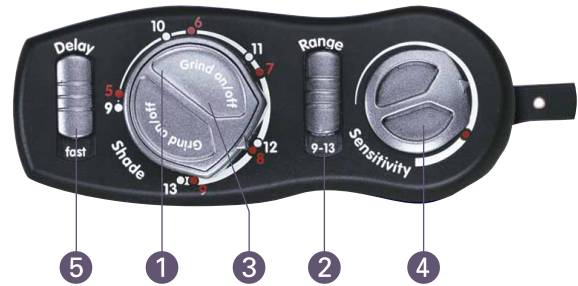
Item #	Description	Color
K600	Complete Optrel Satellite Helmet	Black
K601	Complete Optrel Satellite Helmet	Blue
K602	Complete Optrel Satellite Helmet	Silver
K603	Complete Optrel Satellite Helmet	Green
K604	Complete Optrel Satellite Helmet	Cosmic Copper

### Take control of your productivity.

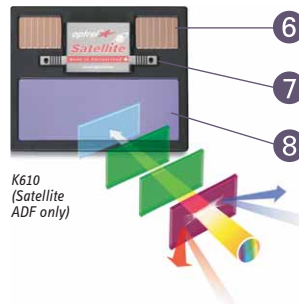
Remove your helmet only when you want to.

Auto-darkening filter technology, combined with easily accessible external controls, eliminates the need for helmet removal.

- Grinding** Simply press the oversized shade control button and the auto-darkening filter is locked in to a shade 4. This eliminates filter flickering while grinding or brazing. Both are now possible without helmet removal. Depress control button again to reset ADF.
- Shade Range Selection** This sliding switch can be used to select shade ranges of 5-9 and 9-13. Choose your range and then adjust to the appropriate shade using the shade level control knob.
- Shade Level Control** Adjust this control knob to select the shade within settings of 5-9 or 9-13. Selections can be made according to the welding process making this one of the most versatile helmets on the market.
- Sensitivity Control** Factory set at red dot for most procedures. Adjustable to meet different welding applications including micro plasma, plasma cutting, and low amperage TIG welding to name a few. Match the sensitivity level to your specific need.
- Delay Switch** By using the sliding switch, the time delay from dark to light can be adapted to your individual requirements.
- Solar Cells** Sperian's proven solar technology ensures a continuous power supply while also eliminating the need for on/off switches and untimely/costly battery changes.



- Adjustable Sensor Bar** Eliminate the effects of ambient light. Simply slide the sensor bar up and the angle of detection will open from 60 degrees to 120, which optimizes performance during low current and over-the-head welding. Keep the sensor bar down and reduce the chances of a nearby arc darkening your lens.
- Eye Protection** Several LCDs and special filters provide permanent Shade 14 protection from dangerous UV and IR radiation, even in the bright state.



K610 (Satellite ADF only)



K601

# Auto-Darkening Welding Helmets

## Optrel Orion™

- Variable shades: 9–13 (automatic and manual shade settings)
- Solar powered
- Shade level automatically adjusts as arc light intensity changes
- All adjustment controls on outside of helmet
- Dark-to-light delay switch – select fast or slow
- Patented telescoping headgear design
- Long-life, easy-to-change cover plate design with integrated seal
- Two-year warranty on ADF filter



K575



Item #	Description	Color
K570	Complete Optrel Orion Helmet	Unpainted Black
K575	Complete Optrel Orion Helmet	Blue Magic
K597	Optrel Orion ADF Only	N/A

## Optrel Helios™ (with Integrated Work Area Illumination Module™)

- Variable shades: 9–13
- Solar powered
- Shade level adjustment knob on outside of helmet
- Dark-to-light delay switch – select fast or slow
- Patented telescoping headgear design
- Rechargeable LED technology illuminates dark weld areas
- Lights switch off when welding begins and turn back on again when welding is complete
- Green light will not be absorbed by UV filters
- Two-year warranty on ADF filter



K560

Item #	Description	Color
K560	Complete Optrel Helios Helmet	Unpainted Black
K598	Optrel Helios LED Light Adaptor and Charger (No ADF)	N/A
K709	Optrel Helios ADF Only (No LED Adaptor or Charger)	N/A

## Optrel MiraPlus™

- Selectable shades: 10 and 11
- Solar powered
- Patented telescoping headgear
- Long-life, easy-to-change cover plate design with integrated seal
- Shade 10 and 11 selectable via non-contact toggle switch
- Two-year warranty on ADF filter



K352

Item #	Description	Color
K532	Complete Optrel MiraPlus Helmet	Blue
K533	Complete Optrel MiraPlus Helmet	Unpainted Black
K593	Optrel MiraPlus ADF Only	N/A

## Auto-Darkening Welding Helmets



K550

### Optrel OSC™

- Variable shades: 9–13
- Solar powered
- Shade level adjustment knob on outside of helmet
- Dark-to-light delay switch to select fast or slow
- Patented telescoping headgear
- Two-year warranty on ADF filter

Item #	Description	Color
K550	Complete Optrel OSC Helmet	Black
K595	Optrel OSC ADF Only	N/A

### Style, Versatility, Performance and Value

The Optrel p 250 welding helmet marks the beginning of a new generation of welding helmets and welding filters from Sperian.

Protection for the professional welder. The Optrel p 250 boasts great styling and a handsome metallic paint finish.



### NEW! Optrel p 250™

- Single shade: 10 or Variable shades: 9–13 with patented Light Guide™ sensing technology
- Front loading cover plate and auto-darkening cartridge
- Solar powered with replaceable lithium batteries
- Shade level and sensitivity adjustment knobs on back of filter cartridge
- Patented telescoping headgear
- Built in magnifying lens holder with available 1.0 to 4.0 magnification
- Two-year warranty on ADF filter



K2502

Item #	Description	Color
K2501	Complete Optrel p 250 Helmet (Single Shade: 10)	Metallic Red
K2502	Complete Optrel p 250 Helmet (Variable Shade: 9–13)	Metallic Red

### NEW! Optrel p 350™

- Variable shades: 9–13 with patented Light Guide sensing technology
- Front loading cover plate and auto-darkening cartridge
- Solar powered with replaceable lithium batteries
- Shade level and sensitivity adjustment knobs on back of filter cartridge
- Patented telescoping headgear
- Built in magnifying lens holder with available 1.0 to 4.0 magnification
- Two-year warranty on ADF filter



K3502

### The New Sperian Optrel p 350 welding helmet is a truly unique helmet design.

The bold futuristic narrow shape is perfect for those tight spaces and out-of-position applications.

The Optrel p 350 offers a one-of-a-kind radius profile with vertically curved cover plate which quickly channels away smoke and spatter. The Optrel p 350 is scheduled to launch mid-year 2008.

Item #	Description	Color
K3501	Complete Optrel p 350 Helmet	Metallic Blue
K3502	Complete Optrel p 350 Helmet	Metallic Red With Decal

## Auto-Darkening Welding Helmets

### Optrel Nova™

- Fixed shade: 10
- Solar powered
- Patented telescoping headgear
- Two-year warranty on ADF filter

Item #	Description	Color
K703	Complete Optrel Nova Helmet	Unpainted Black
K590	Optrel Nova ADF Only*	N/A

\*Fits most 2" x 4 1/4" helmet openings



K703

### Optrel Sirius™

- Fixed shade: 10
- Battery powered: utilizes lightweight, long-life replaceable batteries
- Economical way for an end-user to acquire ADF technology
- Patented telescoping headgear
- One-year warranty on ADF filter

Item #	Description	Color
K713	Complete Optrel Sirius Helmet	Unpainted Black
K580	Optrel Sirius ADF Only*	N/A

\*Fits most 2" x 4 1/4" helmet openings



K713

## Passive Welding Helmets

### NEW! Optrel p 250™

- Front loading cover plate and welding filter
- Patented telescoping headgear
- Built-in magnifying lens holder with available 1.0 to 4.0 magnification

Item #	Description	Color
K2500	Complete Optrel p 250 Helmet	Metallic Black



K2500

### NEW! Optrel p 350™

- Front loading cover plate and welding filter
- Patented telescoping headgear
- Built-in magnifying lens holder with available 1.0 to 4.0 magnification

Item #	Description	Color
K3500	Complete Optrel p 350 Helmet	Metallic Black



K3500

## Passive Welding Helmets

EYE & FACE PROTECTION

RESPIRATORY PROTECTION

INSTRUMENTATION

HAND & ARM PROTECTION

HEARING PROTECTION

FALL PROTECTION

HARLEY-DAVIDSON®



K700



K701



K702

### Optrel Galaxy® (with Stationary Filter Lens)

- Shade 10 passive filter and cover lens included
- 2" x 4 1/4" viewing area
- State-of-the-art headgear design reduces neck strain through balance and distribution of the helmet weight

Item #	Description	Color
K700	Complete Optrel Galaxy Helmet with Stationary Filter Lens	Unpainted Black

### Optrel Galaxy (with Flip-Up Filter Lens)

- Shade 10 passive filter and cover lens included
- 2" x 4 1/4" viewing area
- State-of-the-art headgear design reduces neck strain through balance and distribution of the helmet weight

Item #	Description	Color
K701	Complete Optrel Galaxy Helmet with Flip-Up Filter Lens	Unpainted Black

### Optrel Galaxy (with Wide View Filter Lens)

- Shade 10 passive filter and cover lens included
- 4" x 5 1/4" viewing area
- State-of-the-art headgear design reduces neck strain through balance and distribution of the helmet weight

Item #	Description	Color
K702	Complete Optrel Galaxy Helmet with Wide View Filter Lens	Unpainted Black



# Welding Parts & Accessories

SKU	Description	Optrel Satellite ADF	Optrel Orion ADF	Optrel Helios ADF	Optrel MiraPlus ADF	Optrel OSC ADF	Optrel p 250 ADF	Optrel p 350 ADF	Optrel Nova ADF	Optrel Sirius ADF	Optrel p 250 Passive	Optrel p 350 Passive	Optrel Galaxy K700 Passive	Optrel Galaxy K701 Passive	Optrel Galaxy K702 Passive
K1360	Inside Cover Lens (Set of 5)								•	•			•	•	•
K1361	Front Cover Lens (Set of 5)								•	•			•	•	•
K1362	Flip-Up Adapter Cover Lens (Set of 5)													•	
K1370	Wide-View Cover Lens (Set of 5)														•
K1400	Filter Plate, Shade 10, 2" x 4.25" (Set of 2)												•	•	
K1410	Filter Plate, Shade 10, 2" x 5.25" (Set of 2)														•
K2507	Auto-Darkening Welding Filter, Single Shade, Light 3/Dark 10						•								
K2508	Auto-Darkening Welding Filter, Variable Shade, Light 3/Dark 9-13						•	•							
K25102A	Outside Cover Plates, Optrel p 250						•				•				
K25112A	Inside Cover Plates						•	•			•				
K25122A	Intermediate Cover Plates						•	•			•				
K2513A	Headgear Complete w/Sweatband						•	•			•				
K2514A	Welding Filter, Passive, Shade 10						•	•			•				
K2516	Shell, Optrel p 250 Metallic Black w/Headgear						•				•				
K2517	Shell, Optrel p 250 Metallic Red w/Headgear						•				•				
K25182A	Sweatband						•	•			•				
K2519K	Lens Retainer Kit, Optrel p 250						•								
K35102A	Outside Cover Plates, Optrel p 350 (2 pc)							•				•			
K3511	Shell, Optrel p 350 Metallic Black w/Headgear							•				•			
K3512	Shell, Optrel p 350 Metallic Blue w/Headgear							•				•			
K3513	Shell, Optrel p 350 Metallic Red w/Decal, w/Headgear							•				•			
K3514K	Lens Retainer Kit, Optrel p 350							•				•			
K5811	Front Cover Lens (Set of 10)					•									
K5812	Inside Cover Lens (Set of 5)	•	•	•	•	•									
K5816	Magnifying Lens, +1.00	•	•	•	•	•									
K5817	Magnifying Lens, +1.50	•	•	•	•	•									
K5818	Magnifying Lens, +2.00	•	•	•	•	•									
K5819	Magnifying Lens, +2.50	•	•	•	•	•									
K5820	Potentiometer Knob			•		•									
K5821	Headgear	•	•	•	•	•			•	•			•	•	•
K5822	Sweatband (Set of 2)	•	•	•	•	•			•	•			•	•	•
K5823	Sensor Bar (Set of 10)			•	•	•									
K5825A	Magnifying Lens, +1.00						•	•							
K5826A	Magnifying Lens, +1.50						•	•							
K5827A	Magnifying Lens, +2.00						•	•							
K5828A	Magnifying Lens, +2.50						•	•							
K5829A	Magnifying Lens, +3.00						•	•							
K5834A	Magnifying Lens, +3.50						•	•							
K5835A	Magnifying Lens, +4.00						•	•							
K5910	Front Cover Lens (Set of 2)	•	•		•										
K5911	Front Cover Lens (Set of 5)	•	•		•										
K5920	1 Potentiometer Knob, 1 Back Cover, 1 Sensitivity Knob			•											
K5921	2 Cover Lens Connection Clips	•	•												
K5930	Hard Hat Adapter	•	•	•	•	•			•	•			•	•	•
K5931	Leather Chest Protector	•	•	•	•	•			•	•			•	•	•
K5932	Leather Head and Neck Protector	•	•	•	•	•			•	•			•	•	•

# Reference: Welding Protection

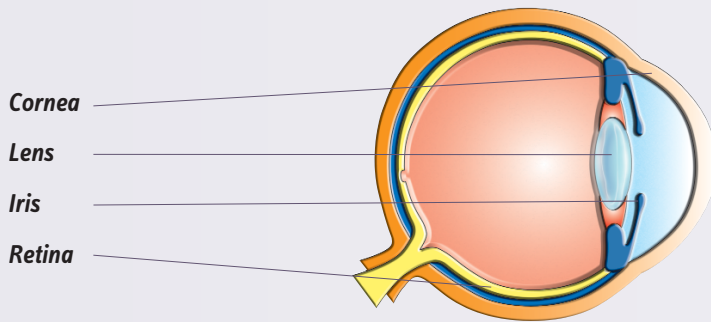
## The Eyes Are Particularly Vulnerable

The eye is a particularly sensitive organ that can suffer untreatable damage from welding accidents. It is essential that special attention be given to eye protection. Risks include:

- Mechanical injury caused by impact or particles
- Radiation injury from infrared, ultraviolet or laser radiation
- Electrical injury caused by electrical arc or short circuit
- Thermal injury from contact with hot liquid, molten metal or flames

### DIAGRAM OF THE HUMAN EYE

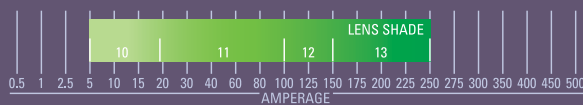
The cornea, lens, iris and retina of the eye are all subject to permanent damage during all welding procedures.



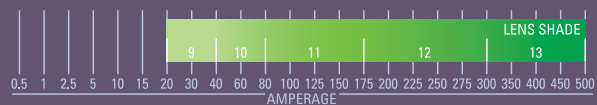
Welding helmets and safety eyewear drastically reduce the probability of any of these injuries and must be worn during all welding procedures.

## Welding Lens Shade Recommendations

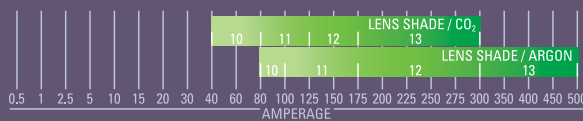
### TIG-WELDING



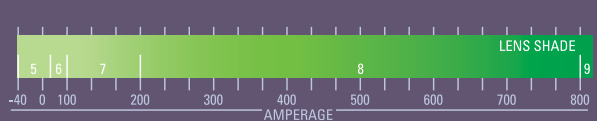
### STICK/ARC WELDING



### M.I.G./M.A.G. WELDING



### GAS WELDING



## Sperian Welding Protection

### Auto-Darkening Welding Helmets

#### Optrel Satellite™

Item #	Description	Color
K600	Complete Optrel Satellite Helmet	Black
K601	Complete Optrel Satellite Helmet	Blue
K602	Complete Optrel Satellite Helmet	Silver
K603	Complete Optrel Satellite Helmet	Green
K604	Complete Optrel Satellite Helmet	Cosmic Copper

#### Optrel Orion™

Item #	Description	Color
K570	Complete Optrel Orion Helmet	Matte Black
K575	Complete Optrel Orion Helmet	Blue Magic
K597	Optrel Orion ADF Only	N/A

#### Optrel Helios™

Item #	Description	Color
K560	Complete Optrel Helios Helmet	Unpainted Black
K598	Optrel Helios LED Light Adaptor, Charger (No ADF)	N/A
K709	Optrel Helios ADF Only (No LED Adaptor or Charger)	N/A

#### Optrel MiraPlus™

Item #	Description	Color
K532	Complete Optrel MiraPlus Helmet	Blue
K533	Complete Optrel MiraPlus Helmet	Unpainted Black
K593	Optrel MiraPlus ADF Only	N/A

#### Optrel OSC™

Item #	Description	Color
K550	Complete Optrel OSC Helmet	Black
K595	Optrel OSC ADF Only	N/A

#### Optrel p 250™

Item #	Description	Color
K2501	Complete Optrel p 250 Helmet (Single Shade: 10)	Metallic Red
K2502	Complete Optrel p 250 Helmet (Variable Shade: 9-13)	Metallic Red

#### Optrel p 350™

Item #	Description	Color
K3501	Complete Optrel p 350 Helmet	Metallic Blue
K3502	Complete Optrel p 350 Helmet	Metallic Red w/Decal

#### Optrel Nova™

Item #	Description	Color
K703	Complete Optrel NOVA Helmet	Unpainted Black
K590	Optrel NOVA ADF Only*	N/A

\*Fits most 2" x 4 1/4" helmet openings

#### Optrel Sirius™

Item #	Description	Color
K713	Complete Optrel Sirius Helmet	Unpainted Black
K580	Optrel Sirius ADF Only*	N/A

\*Fits most 2" x 4 1/4" helmet openings

### Passive Welding Helmets

#### Optrel p 250™

Item #	Description	Color
K2500	Complete Optrel p 250 Helmet	Metallic Black

#### Optrel p 350™

Item #	Description	Color
K3500	Complete Optrel p 350 Helmet	Metallic Black

#### Optrel Galaxy® (with Stationary Filter Lens)

Item #	Description	Color
K700	Complete Optrel Galaxy Helmet w/Stationary Filter Lens	Unpainted Black

#### Optrel Galaxy (with Flip-Up Filter Lens)

Item #	Description	Color
K701	Complete Optrel Galaxy Helmet w/Flip-Up Filter Lens	Unpainted Black

#### Optrel Galaxy (with Wide View Filter Lens)

Item #	Description	Color
K702	Complete Optrel Galaxy Helmet w/Wide View Filter Lens	Unpainted Black

### Welding Parts & Accessories

Item #	Description
K1360	Inside Cover Lens (Set of 5)
K1361	Front Cover Lens (Set of 5)
K1362	Flip-Up Adapter Cover Lens (Set of 5)
K1370	Wide-View Cover Lens (Set of 5)
K1400	Filter Plate, Shade 10, 2" x 4.25" (Set of 2)
K1410	Filter Plate, Shade 10, 2" x 5.25" (Set of 2)
K2507	Auto-Darkening Welding Filter, Single Shade, Light 3/Dark 10
K2508	Auto-Darkening Welding Filter, Variable Shade, Light 3/Dark 9-13
K25102A	Outside Cover Plates, Optrel p 250
K25112A	Inside Cover Plates
K25122A	Intermediate Cover Plates
K2513A	Headgear Complete w/Sweatband
K2514A	Welding Filter, Passive, Shade 10
K2516	Shell, Optrel p 250 Metallic Black w/Headgear
K2517	Shell, Optrel p 250 Metallic Red w/Headgear
K25182A	Sweatband
K2519K	Lens Retainer Kit, Optrel p 250
K35102A	Outside Cover Plates, Optrel p 350 (2 pc)
K3511	Shell, Optrel p 350 Metallic Black w/Headgear
K3512	Shell, Optrel p 350 Metallic Blue w/Headgear
K3513	Shell, Optrel p 350 Metallic Red w/Decal, w/Headgear
K3514K	Lens Retainer Kit, Optrel p 350
K5811	Front Cover Lens (Set of 10)
K5812	Inside Cover Lens (Set of 5)
K5816	Magnifying Lens, +1.00
K5817	Magnifying Lens, +1.50
K5818	Magnifying Lens, +2.00
K5819	Magnifying Lens, +2.50
K5820	Potentiometer Knob
K5821	Headgear
K5822	Sweatband (Set of 2)
K5823	Sensor Bar (Set of 10)
K5825A	Magnifying Lens, +1.00
K5826A	Magnifying Lens, +1.50
K5827A	Magnifying Lens, +2.00
K5828A	Magnifying Lens, +2.50
K5829A	Magnifying Lens, +3.00
K5834A	Magnifying Lens, +3.50
K5835A	Magnifying Lens, +4.00
K5910	Front Cover Lens (Set of 2)
K5911	Front Cover Lens (Set of 5)
K5920	1 Potentiometer Knob, 1 Back Cover, 1 Sensitivity Knob
K5921	2 Cover Lens Connection Clips
K5930	Hard Hat Adapter
K5931	Leather Chest Protector
K5932	Leather Head and Neck Protector