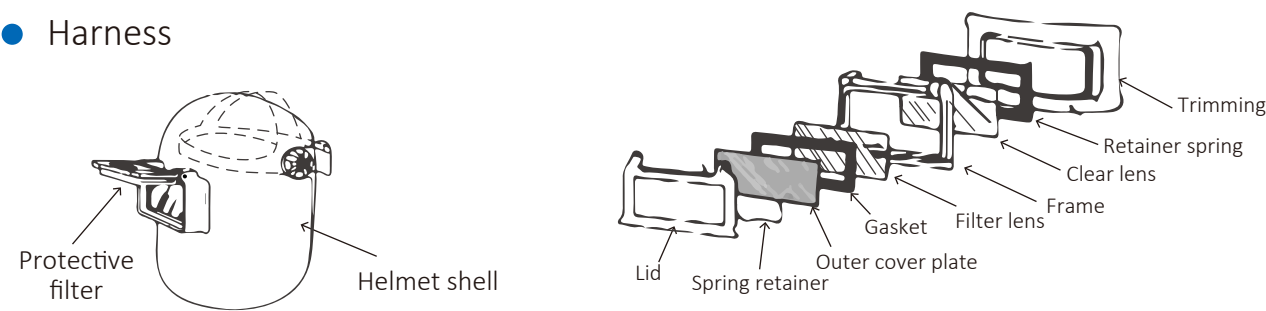


Components of Welding Face Shield and Welding Helmet

- Helmet shell
- Outer cover plate
- Filter lens
- Clear retainer lens
- Gasket
- Harness



Filter Shade Selection

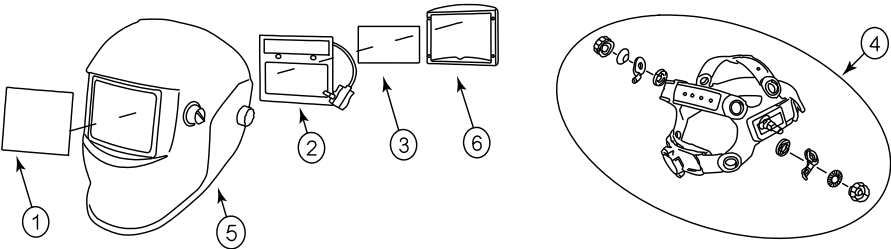
The suitable filter shade is selected according to welding process, wire diameter, welding current during welding.

Process	Electrode or wire diameter(mm)	Operation current(A)	Minimum Shade	Recommended Shade
MMA	<2.5	<60	7	-
	2.5-4	60-160	8	10
	4-6.4	160-250	10	12
	>6.4	250-550	11	14
MIG	0.6-1.6	<60	7	-
TIG	1.6-3.2	60-160	10	11
SUBMERGED ARC	1.6-2.4	160-250	10	12
FLUX-CORED	1.1-1.6	250-550	10	14
Air carbon	6-10	<500	10	12
Cutting	4-10	500-100	11	14

The recommended shade numbers for oxygen cutting:

Process	Metal thickness (mm)	Minimum Shade	Recommended Shade
Light	<25	3	4
Medium	25-150	4	5
Heavy	>150	5	6

STRUCTURAL GRAPH



1. Front cover lens
2. ADF cartridge
3. Inside cover lens
4. Headgear assembly
5. Helmet shell
6. ADF holder

PPE-Helmet-001/002



Features

- Premium Arc Sensors: This product builds two arc sensors inside, each sensor can work independently and detect welding arcs easily. The arc sensor focuses on the welding arcs without any interference from surroundings.
- Comfortable and Lightweight Welding Helmet: Adjustable headgear for maximum comfort. High-impact resistance material, lightweight and durable.
- Shade/Sensitivity/Delay Time Stepless Adjustment: Knob design with clear interface, you can easily adjust control knob to achieve shade, delay time from 0.1 to 1 seconds, sensitivity from low to high level.
- Pivot Headgear Design: Adjustable pivot headgear, well-balanced design, maximum comfortable feelings, lock function in upright state.

Modle	PPE-Helmet-001	PPE-Helmet-002
Optical Class	1/1/1/2 or 1/1/1/1	1/1/1/2 or 1/1/1/1
Cartridge Size	110mmx90mmx9mm	110mmx90mmx9mm
Viewing Area	92.5x42.5mm(3.64"x1.67")	92.5x42.5mm(3.64"x1.67")
Light State	DIN3.5	DIN3.5
Dark State	DIN9~13	DIN9~13
Shade Control	External & Stepless	External & Stepless
Switching Time	3/10000S+20%	3/10000S+20%
Sensitivity Control	Internal & Stepless	Internal & Stepless
Delay Time	0.1S~1S	0.1S~1S
Power supply	Li-battery & Solar	Li-battery & Solar
Rated Capacity Of Li-Battery	600mAh	600mAh
Replaceable Battery	No	Yes
Operating Temp.	-5℃~55℃	-5℃~55℃
Storing Temp.	-20℃~70℃	-20℃~70℃
Arc Sensor	2	2
Low Amperage TIG Rated	≥5amps	≥5amps
Helmet Material	PP Or PA	PP or PA
UV/IR Protection	DIN13	DIN13
Test	No	Yes
Low Battery	No	Yes
Grinding	No	Yes
Cutting	No	NO
LED	No	No

PPE-Helmet-003/004



Features

- Premium Arc Sensors: This product builds four arc sensors inside, each sensor can work independently and detect welding arcs easily.The arc sensor focuses on the welding arcs without any interference from surroundings.
- Comfortable and Lightweight Welding Helmet: Adjustable headgear for maximum comfort.High-impact resistance material, lightweight and durable.
- Shade Range 5-9/9-13: For most welding/cutting applications, also including grinding mode.
- Highest Optical Class 1/1/1/1: Top quality ADF lens, optical class: 1/1/1/1, which can provide ultra-clear view and best protection for users’ eyes.
- High Resolution Lens Technology: High resolution lens technology brings high-definition visual experience, increases eyes comfort, and reduces fatigue greatly, especially for long time welding job in Industrial field.

Modle	PPE-Helmet-003	PPE-Helmet-004
Optical Class	1/1/1/2 or 1/1/1/1	1/1/1/2 or 1/1/1/1
Cartridge Size	124.5mmx100.5mmx18mm	133mmx114mmx10mm
Viewing Area	92.5x42.5mm(3.64"x1.67")	100x59.5mm(3.94"x2.34")
Light State	DIN3.5	DIN3.5
Dark State	DIN5~9/9~13	DIN5~9/9~13
Shade Control	External & Stepless	Internal & Stepless
Switching Time	3/10000S+20%	1/10000S+20% or 1/25000S+20%
Sensitivity Control	External & Stepless	Internal & Stepless
Delay Time	0.1S /0.4S /1S	0.1S~1S
Power supply	Li-battery & Solar	Li-battery & Solar
Rated Capacity Of Li-Battery	1200mAh	1200mAh
Replaceable Battery	Yes	Yes
Operating Temp.	-5℃~55℃	-5℃~55℃
Storing Temp.	-20℃~70℃	-20℃~70℃
Arc Sensor	2	4
Low Amperage TIG Rated	≥5amps	≥5amps
Helmet Material	PA/PP	PA/PP
UV/IR Protection	DIN13	DIN13
Test	Yes	Yes
Low Battery	Yes	Yes
Grinding	Yes	Yes
Cutting	Yes	Yes
LED	No	No

PPE-Helmet-005/006



Features

- Premium Arc Sensors: This product builds four arc sensors inside, each sensor can work independently and detect welding arcs easily.The arc sensor focuses on the welding arcs without any interference from surroundings.
- Comfortable and Lightweight Welding Helmet: Adjustable headgear for maximum comfort.High-impact resistance material, lightweight and durable.
- Shade/Sensitivity/Delay Time Stepless Adjustment: Knob design with clear interface, you can easily adjust control knob to achieve shade, delay time from 0.1 to 1 seconds, sensitivity from low to high level.
- Shade Range 5-9/9-13: For most welding/cutting applications, also including grinding mode.
- Highest Optical Class 1/1/1/1: Top quality ADF lens, optical class: 1/1/1/1, which can provide ultra-clear view and best protection for users’ eyes.

Modle	PPE-Helmet-005	PPE-Helmet-006
Optical Class	1/1/1/2 or 1/1/1/1	1/1/1/2 or 1/1/1/1
Cartridge Size	133mmx114mmx10mm	133mmx114mmx10mm
Viewing Area	100x83mm(3.94"x3.27")	100x93mm(3.94"x3.66")
Light State	DIN3.5	DIN3.5
Dark State	DIN5~9/9~13	DIN5~9/9~13
Shade Control	External & Stepless	External & Stepless
Switching Time	1/10000S+20% or 1/25000S±20%	1/10000S+20% or 1/25000S+20%
Sensitivity Control	Internal & Stepless	Internal & Stepless
Delay Time	0.1S~1S	0.1S /0.4S /1S
Power supply	Li-battery & Solar	Li-battery & Solar
Rated Capacity Of Li-Battery	600mAh	600mAh
Replaceable Battery	Yes	Yes
Operating Temp.	-5℃~55℃	-5℃~55℃
Storing Temp.	-20℃~70℃	-20℃~70℃
Arc Sensor	4	4
Low Amperage TIG Rated	≥5amps	≥5amps
Helmet Material	PA/PP	PA/PP
UV/IR Protection	DIN13	DIN13
Test	Yes	Yes
Low Battery	Yes	Yes
Grinding	Yes	Yes
Cutting	Yes	Yes
LED	NO	NO

PPE-Helmet-007/008



Features

- Premium Arc Sensors: This product builds four arc sensors inside, each sensor can work independently and detect welding arcs easily.The arc sensor focuses on the welding arcs without any interference from surroundings.
- Comfortable and Lightweight Welding Helmet: Adjustable headgear for maximum comfort.High-impact resistance material, lightweight and durable.
- Shade/Sensitivity/Delay Time Stepless Adjustment: Knob design with clear interface, you can easily adjust control knob to achieve shade, delay time from 0.1 to 1 seconds, sensitivity from low to high level.
- Shade Range 5-9/9-13: For most welding/cutting applications, also including grinding mode.
- LED Lighting: In case of low ambient light, the welding helmet can automatically turn on the LED light.

Modle	PPE-Helmet-007	PPE-Helmet-008
Optical Class	1/1/1/2 or 1/1/1/1	1/1/1/2 or 1/1/1/1
Cartridge Size	153.5mmx120.5mmx42mm	133mmx114mmx10mm
Viewing Area	109.5x97mm(4.31"x3.82")	100x93mm(3.94"x3.66")
Light State	DIN3.5	DIN3.5
Dark State	DIN5~9/9~13	DIN5~9/9~13
Shade Control	External & Stepless	External & Stepless
Switching Time	1/10000S+20% or 1/25000S+20%	1/10000S+20% or 1/25000S±20%
Sensitivity Control	External & Stepless	External & Stepless
Delay Time	0.1S~1S	0.1S~1S
Power supply	Li-battery & Solar	Li-battery & Solar
Rated Capacity Of Li-Battery	300mAh Rechargeable	600mAh
Replaceable Battery	No	Yes
Operating Temp.	-5℃~55℃	-5℃~55℃
Storing Temp.	-20℃~70℃	-20℃~70℃
Arc Sensor	4	4
Low Amperage TIG Rated	≥5amps	≥5amps
Helmet Material	PA/PP	PA/PP
UV/IR Protection	DIN13	DIN13
Test	Yes	Yes
Low Battery	Yes	Yes
Grinding	Yes	Yes
Cutting	Yes	Yes
LED	yes	NO

PPE-Helmet-009



Features

- Premium Arc Sensors: This product builds four arc sensors inside, each sensor can work independently and detect welding arcs easily.The arc sensor focuses on the welding arcs without any interference from surroundings.
- Shade Range 5-9/9-13: For most welding/cutting applications, also including grinding mode.
- High Resolution Lens Technology: High resolution lens technology brings high-definition visual experience, increases eyes comfort, and reduces fatigue greatly, especially for long time welding job in Industrial field.
- Flip up Design: Easy to lift up for grinding function, safer and clearer.
- Side Window: Shade 5 lens on both sides, enhance surrounding vision, safer and securer.

Modle	PPE-Helmet-009
Optical Class	1/1/1/2 or 1/1/1/1
Cartridge Size	120mmx115mmx10mm
Viewing Area	100x59.5mm(3.94"x2.34")
Light State	DIN3.5
Dark State	DIN5~9/9~13
Shade Control	Internal, Digital Control
Switching Time	1/10000S+20% or 1/25000S+20%
Sensitivity Control	Digital Control
Delay Time	0.1S ~1S, Digital Control
Power supply	Li-battery & Solar
Rated Capacity Of Li-Battery	300mAh Rechargeable
Replaceable Battery	NO
Operating Temp.	-5℃~55℃
Storing Temp.	-20℃~70℃
Arc Sensor	4
Low Amperage TIG Rated	≥5amps
Helmet Material	PP or PA
UV/IR Protection	DIN13
Test	NO
Low Battery	Yes
Grinding	Yes
Cutting	Yes
LED	NO

PPE-Helmet-010



Overview

- Fashionable and Ergonomic Design.
- Fast and Easy Replacement of Lens.
- Protection From Sparks and Splash.
- High Impact Resistance PC Lens.
- Anti-scratch Lens.

Features

- High Intensity of PC Lens with Secure Feature: Non-deformation PC lens, with better optical performance, bringing high-resolution and vision experience.
- Excellent 3D structure design: Meeting ergonomically designed, to better fit face-line and optimize wearing comfort.
- Anti-scratch Lens: Effectively preventing excessive spark and splash damages.

Modle		PPE-Helmet-010
Size of Window (HeightxWidthxThickness)	Full-face Window	209x230x2mm
	Flip Window	
Dark State	Full-face Window	Transparent
	Flip Window	
UV/IR Protection	Full-face Window	
	Flip Window	
Grinding		Yes
Welding		No
Cutting		No
Weight		310g

PPE-Helmet-011/012



Overview

- Fashionable and Ergonomic Design
- Fast and Easy Replacement of Lens
- Protection From Sparks and Splash
- High Impact Resistance PC Lens
- Anti-scratch Lens
- Protection against UV/IR

Features

- High Intensity of PC Lens with Secure Feature: Non-deformation PC lens, with better optical performance, bringing high-resolution and vision experience.
- Protection against UV/IR: With superior feature of heat resistance and high-impact.
- Excellent 3D structure design: Meeting ergonomically designed, to better fit face-line and optimize wearing comfort.
- Anti-scratch Lens: Effectively preventing excessive spark and splash damages.

Modle		PPE-Helmet-011
Size of Window (HeightxWidthxThickness)	Full-face Window	209x230x2mm
	Flip Window	
Dark State	Full-face Window	DIN3
	Flip Window	
UV/IR Protection	Full-face Window	DIN3
	Flip Window	
Grinding		Yes
Welding		Yes
Cutting		Yes
Weight		310g

Modle	PPE-Helmet-012-A		PPE-Helmet-012-B	
Type	Laser Welding Helmet		Laser Welding Helmet	
Size of Window	209x230x3mm		209x230x3mm	
VLT	13% or 5% or 2%		13% or 5% or 2%	
Wavelength Range	190~380nm	900~1100nm	190~380nm	900~1100nm
Optical Density	OD8	OD8	OD8	OD8
Material	PC、ABS、PA、PE		PC、ABS、PA、PE	
Net Weight	470g		625g	
Aut-off Laser	NO		Yes	