



## Some auto-darkening welding helmet related products list

### Optical Interference Filter

#### OPTICAL PERFORMANCE

Wavelength(nm)	Average Transmittance(%)
210-313	<0.001
313-380	<0.01
380-780(passband falls into this range)	45~55
780-1300	<0.1
1300-2000	<0.01

#### ENVIRONMENTAL AND ENDURANCE CHARACTERIZATIONS

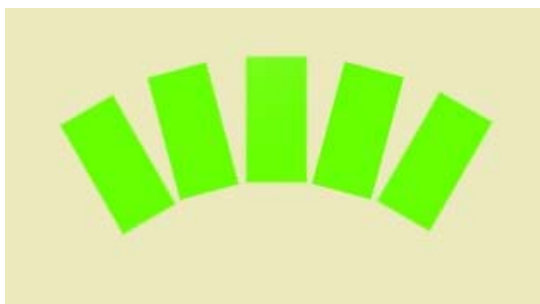
Tests	Conditions
Low Temperature Test	>8 hours @ -45 degree C
Humidity Test	>24 hours @ 40 degree C/90% RH
High Temperature Test	>200 hours @ 90 degree C
Immersion Test	>72 hours in pure water

#### SUBSTRATES SPECIFICATIONS

<b>Material</b>	<b>Schott B270</b>
Thickness(mm)	1.1, 0.7, 0.55
Surface quality	80/50

#### Dimension

Length × Width(mm × mm)	
101×46	96×48
94.5×36	103×47.5
103×54	106×54
114×54	103×45
103×38	104×52





## Auto-darkening Welding Helmets



### Model: 1

#### Main specifications

- Filter dimension : 110 X 90 X 8mm
- View field : 96 X 42mm
- Weight : 495g
- UV/IR protection : Up to DIN15
- Shade control : DIN 4/9-13
- Lens speed from light to dark : 1/10000sec
- Lens recover speed from dark to light : 0.1-0.5s
- Lens power : Solar cells
- Operation temperature : -5C°~ 55C°(23 F°~ 131 F°)

#### Features

- High quality LCD and multilayer optical interference filter for clear view and permanent UV/IR protection up to DIN 15
- Lens powered by solar cells with no need of battery changes
- Mask made of nylon 801 with high strength and light weight, and suitable for high welding operation temperature
- Ample mask space and very safe structure
- Standard 110x90x8mm filter suitable for other masks



### Model: 2

#### Main specifications

- Filter dimension : 110 X 90 x 8mm
- View field : 96 X 42mm
- Weight : 495g
- UV/IR protection : Up to DIN15
- Shade control : DIN 4/9-13
- Lens speed from light to dark : 1/10000 s
- Lens recover speed from dark to light : 0.1-0.5s
- Lens power : Solar cells
- Operation temperature : -5C° ~ 55C°(23 F°~131 F°)

#### Features

- High quality LCD and multilayer optical interference filter for clear view and permanent UV/IR protection up to DIN 15
- Lens powered by solar cells with no need of battery changes
- Mask made of nylon 801 with high strength and light weight, and suitable for high welding operation temperature
- Ample mask space and very safe structure
- Standard 110x90x8mm filter suitable for other masks
- Inner shade adjustment knob



**Model: 3**

**Main specifications**

- Filter dimension : 110 X 90 x 5mm
- View field : 96 X 42mm
- Weight : 475g
- UV/IR protection : Up to DIN13
- Shade control : DIN 3/10
- Lens speed from light to dark : 1/10000 s
- Lens recover speed from dark to light : 0.1-0.5s
- Lens power : Solar cells
- Operation temperature : -5C°~ 55C°(23 F°~131 F°)

**Features**

- High quality LCD and multilayer optical interference filter for clear view and permanent UV/IR protection up to DIN 13
- Lens powered by solar cells with no need of battery changes
- Mask made of nylon 801 with high strength and light weight, and suitable for high welding operation temperature
- Ample mask space and very safe structure
- Standard 110 x 90 x 5 mm filter suitable for other masks



**Model: 4**

**Main specifications**

- Filter dimension : 108 X 51 X 5mm
- View field : 90 X 33mm
- Weight : 380g
- UV/IR protection : Up to DIN13
- Shade control : DIN 3/10(11)
- Lens speed from light to dark : 1/10000 s
- Lens recover speed from dark to light : 0.1-0.5s
- Lens power : Solar cells
- Operation temperature : -5C°~ 55C°(23 F° ~ 131 F°)

**Features**

- High quality LCD and multilayer optical interference filter for clear view and permanent UV/IR protection up to DIN 13
- Lens powered by solar cells with no need of battery changes
- Mask made of special PP material with high strength and light weight, and suitable for high welding operation temperature
- Ample mask space and very safely structure
- Standard 108 x 51x 5mm filter suitable for other masks



**Model: 5**

**Main specifications**

- View field : 90 X 40mm
- Weight : 460g
- UV/IR protection : Up to DIN13
- Shade control : DIN 4/9-13
- Lens speed from light to dark : 1/10000 s
- Lens recover speed from dark to light : 0.1-0.5s
- Lens power : AAA battery 2x1.5V, Auto power ON/OFF
- Operation temperature : -5C°~ 55C°(23 F°~131 F°)

**Features**

- High quality LCD and optical interference filter for clear view and permanent UV/IR protection up to DIN 13
  - Mask made of special PP material with high strength and light weight, and suitable for high welding operation temperature
  - Ample mask space and very safely structure
  - Lens powered by batteries
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## Dark glass welding filters

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**Model: 6**

**Main specifications**

- Mask material : Special PP plastic
- Shade glass filter : 108 X 51 X 3mm, chamfered and tempered
- Filter frame : Lift
- Outer protection lens : PC
- Inner protection lens : PPM
- Weight : 470g



**Model: 7**

**Main specification**

- Mask material : Special PP plastic
- Shade glass filter : 110 X 90 X 3mm
- Filter frame : Lift
- Outer protection lens : PC
- Inner protection lens : PPM
- Weight : 495g



**Model: 8**

**Main specifications**

- Mask material : Special PP plastic
- Shade glass filter : 108 X 51 X 3mm
- Filter frame : Fixed
- Outer protection lens : PC
- Inner protection lens : PC
- Weight : 375g



**Model: 9**

**Main specifications**

- Mask material : Nylon
  - Shade glass filter : 108 X 51 X 3mm
  - Filter frame : Fixed
  - Outer protection lens : PC
  - Inner protection lens : PC
  - Weight : 470g
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**Model: 10**

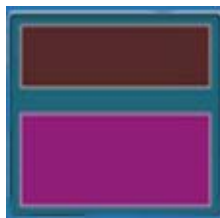
**Main specifications**

- Mask material : Nylon 801
  - Shade glass filter : 110 X 90 X 3mm
  - Filter frame : Fixed
  - Outer protection lens : PC
  - Inner protection lens : PC
  - Weight : 490g
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## Auto-darkening Welding Lenses

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Part No : RD-1001  
Dimension : 110 X 90 X9mm  
View field : 98 X 41mm  
Shade control : DIN 4/9-13

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Part No : XA-1002  
Dimension : 110 X 90 X 8mm  
View field : 96 X 42mm  
Shade control : DIN 4/9-13

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Part No : XA-1001  
Dimension : 110 X 90 X 8mm  
View field : 96 X 42mm  
Shade control : DIN 4/9-13

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Part No : XA-1003  
Dimension : 110 X 90 X 5mm  
View field : 96 X 42mm  
Shade control : DIN 3/11(12)

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Part No : XA-1004  
Dimension : 108 X 51 X 5mm  
View field : 90 X 33mm  
Shade control : DIN 3/11(12)

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Part No : XA-1005  
View field : 90 X 40mm  
Shade control : DIN 4/9-13

## Protection plates for Auto-darkening Lenses



**Inner protection lens**  
Part No : XA-2007  
Dimension : 110 X 90 X 2mm PPM

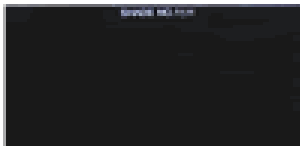


**Outer protection lens**  
Part No : XA-2002  
Dimension : 110 X 90 X 1mm PC



**Inner protection lens**  
Part No : XA-2003  
Dimension : 103.5 X 47 X 1mm PC

## Dark shade glass(USA standard)



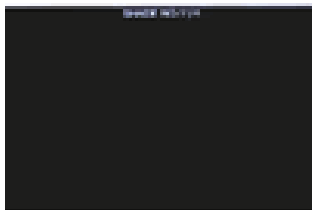
**Shade glass filter**  
Part No : XA-1007  
Dimension : 108 X 51 X3mm  
**Chamfered Edge and Tempered**  
Different shade number and size available upon request





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Shanghai Amerina Optoelectronic Co., Ltd.

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Part No : XA-1006

Dimension : 110 X 90×3mm

**Chamfered Edge and Tempered**

Different shade number and size available upon request

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## Parts for mask

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Head band

Part No : XA-2001

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NOTE: Different specifications available upon request. Amerina also can customize mask according to customer's requirements.