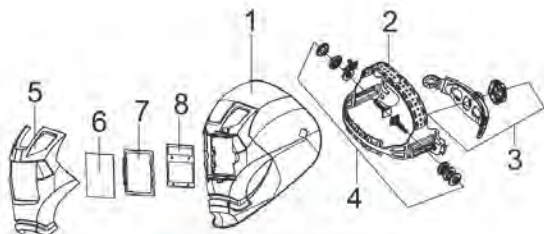


Technical specifications

Viewing Area(mm)	98X43
Cartridge Size (mm)	110X90X10
Light state	DIN 4
Dark state	Variable Shade .9-13
Switch time(s)	1/30,000S from Light to Dark
Dark to Light (s)	0.1~1.0S,by infinitely dial knob
Shade Control	Internal,Variable
Sensitivity Control	Infinitely adjustable from low to high
Power on/off	Fully Automatic
Power supply	Solar cell+1 Replaceable CR2450 lithium battery
UV/IR Protection	DIN.16
Arc Sensor	2
Low Amperage TIG	≥ 5 amp
Grinding Function	Yes
Low Volume Alarm	Yes
ADF self-check	No
Operating Temp.	-5℃~+55℃
Storing Temp.	-20℃~+70℃
Weight (g)	480
Box Sizes (mm)	340×230×230
Welding Processes	MMA, MIG, MAG/CO2, TIG and Plasma Welding. Arc Gouging & Plasma Cutting.

Helmet structural graph



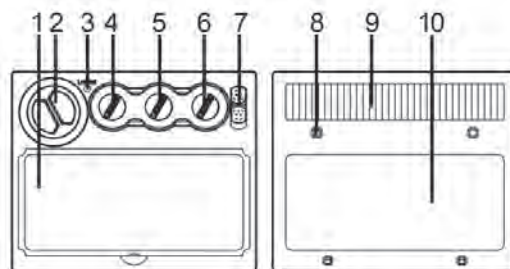
Revenge series

- | | |
|-----------------------------------|----------------------|
| 1. Helmet Body | 5. Front Cover Shell |
| 2. Headgear | 6. Protective Plate |
| 3. Headgear Adjusting Knobs | 7. Press card |
| 4. Headgear Angle Adjusting Knobs | 8. Fixed Plate |

Colour

- | | |
|--------|-----------|
| Red | FXADF700A |
| Blue | FXADF700B |
| Yellow | FXADF700C |

ADF guide



FXADF700CART

- 1.LCD
- 2.Lithium Battery
- 3.Low Voltage Indicator
- 4.Shade Number Control Knob
- 5.Sensitivity Control Knob
- 6.Delay Control Knob
- 7.Grind
- 8.Arc Sensor
- 9.Solar Panel
- 10.UV/IR Filter

Product guarantee

- If there is any quality problem within 12 months of purchase,manufacturers will provide free repair or replacement services.
- Damage as a result of improper use, or claims made after the warranty period may be subject to charges.

Technical support

For further product information and technical support please contact your local dealer

Peters House, The Orbital Centre
Icknield Way, Letchworth Garden City
Hertfordshire SG6 1ET
Tel. +44 (0) 845 130 7757

www.weldability-sif.com

sifLITE



AUTO DARKENING WELDING HELMET

User's Manual



SifLITE Revenge FXADF700



Approved

Please read this manual carefully before using

Abstract

Solar energy auto-darkening welding helmet is a set of spectral filtering technology, photoelectric inductive control technology, liquid crystal light control technology in one high-tech products. Auto darkening filter (ADF) works with the photoelectric induction principle, which makes the liquid crystal change from the bright state into a dark state in receiving the arc light, and automatic back to dark state when welding is finished, thereby protecting the user's eyes and face skin from the arc, splash and infrared / ultraviolet radiation.

Product features

- By the lithium/alkaline battery and solar battery power supply, without replacement, long service life of 5000 hours, 15-20 minutes with automatic closing function, low voltage indication.
- In the internal or external control knob, can be realized on the shading 9-13, sensitivity and delay time control, welding / grinding functions can be selected.
- Photoelectric sensor technology, high-quality dual LCD and filter, which provide the welder a clear field of view and effective protection, ultraviolet ray protection grade up to DIN16.
- Two arc sensing probe, constantly sense arc induction in using, that enable the filter switch time reach 1/25000s from light to dark state, so as to protect the eyes from arc damage.
- Filter bright state grade is DIN4, it takes 0.1-1.0s by preset from dark state to a bright state when arc disappear.
- Normal operation temperature is from minus 5 degrees to 55 degrees . broad scope of application, such as manual arc welding, gas shielded arc welding, argon arc welding and plasma cutting.
- Portable and balanced design, fully adjustable headgear, provides comfortable wearing and relieves fatigue.
- Products meets the safety and technical standard of EN379, ANSI Z87.1, CSAZ94.3

Operation guide

1. BEFORE WELDING

- Please check if the protective film is been removed from the internal and external screen.
- Please check if the power is sufficient before using.
- Please check if the filter display is normal.
- Please check whether the protect films are complete, solar cell is damaged or blocked by dust, especially check whether the arc sensor is polluted.
- Please check all operating parts are worn off or damaged. If any scratched or broken parts, should be replaced immediately. So as not to incur any personal injury.
- Please check light tightness before each using.
- According to the machine type and welding current to choose the right shade number.

2. SHADE NUMBER SELECTION

- Shade number can be manually set from 9-13., adjusting knob is outside/ inside the mask, by rotating the adjusting knob to set the proper shading number.
- Adjust the helmet to the correct shade for the welding process by referring to Table 1.

Welding Process	Arc Current(Ampere)																					
	1.5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600	
SMAW					8		9		10		11		12		13		14					
MAG						8	9	10		11		12		13		14						
TIG			8		9		10		11		12		13		14							
MIG(heavy)							9		10		11		12		13		14					
MIG(light)									10		11		12		13		14					
PAC									9	10	11		12		13							
PAW		4	5	6	7	8		9	10	11		12										
Note	★ SMAW-Covered electrodes ★ MIG(light)-MIG with light alloys ★ MAG-Metal arc Welding ★ PAC: Plasma jet cutting ★ TIG-Gas Tungsten Arc Welding ★ PAW-Microplasma arc welding ★ MIG(Heavy)-MIG with heavy metals																					

3. DELAY TIME

Delay time, it's for the helmet to switch back from full dark to full light, according to the welding current and power length, by the "DELAY" knob fast or slow.

- Choose the minimum, the delay time is set in 0.1-0.25s, suitable for spot welding, short welding or seam welding work.
- Choosing the maximum, the delay time is set in 0.85-1.0s. suitable for high current welding or prevent eye fatigue from the arc.
- Choosing the medium, suitable for the majority of indoor and outdoor welding operation.

4. SENSITIVITY

According to the welding process and the ambient light, through the regulation of "SENSITIVITY" knob for setting, default sensitivity is at the lowest state

- Choose the Min, suitable for high current welding or in bright light environment in welding, or from other sources interference environment.
- Choose the Max, suitable for low current welding or in low light environment in welding, especially low current argon arc welding.
- Mid-range selection, suitable for most in indoor and outdoor welding

5. WELDING / GRINDING SET

During the cutting or grinding, need to put the knob to the "Grind" position.
Note: some products without this feature, see the technical parameter table.

6. TEST

- Set the shading number at any place of 9-13, press the TEST button, check whether the LCD change from light to dark, and automatic return to bright state.
- For the filter without self-test function, please set the shading to any place between 9-13 before use, then use the ordinary incandescent light source more than 40W near to the arc sensor of filter, check whether the LCD becomes dark, and automatically returned to the bright state after removing the light source.

7. HEADBAND ADJUSTMENT

- Headband size can be manually adjusted to fit different people to wear. Press the rotary gear moderately and adjust the tightness to feel comfortable. The rotating gear has self-locking function, rotating forcibly is prohibited in order to avoid damaging the gear.
- There are positioning holes on the side of the helmet, through adjusting the fixed plate in lateral hole location, can change the angle of sight, adjusting the angle of view
- By adjusting the screw tightness, can change the face mask on angle, also it can be turned up or down. The ideal angle in welding is eyes and joints connected by straight line perpendicular to the filter.

8. BATTERY REPLACEMENT

- Part ADF use 2 pieces of 3V lithium battery, or 2 pieces AAA alkaline battery as a backup power supply, part ADF use non-changeable battery. **Note:** waste battery shall dump in accordance to local government laws and regulations filters should be in accordance with the electronic waste material processing.
- The battery can be used continuously for 5000 hours in normal condition. The low voltage lamp doesn't work when the power is sufficient and battery is required to be replaced when the low voltage lamp is on.
- Note:** some products have no alarm function of low voltage.

9. MAINTENANCE

- Please use tissues, lens paper or clean soft cotton cleaning the filter.
- Please use neutral detergent to clean welding helmet shell and sweat bands.
- Regularly replace of external and internal protection plate, sweat bands.
- Do not use corrosive solvent or gasoline to dilute detergent.

10. ATTENTION

- The auto-darkening welding helmet is not suitable to laser welding and oxygen acetylene welding.
- Do not put weld cap and filter near heat or damp place.
- Do not remove the filter from the welding cap or open the filter box without authorization.
- Before operation, please confirm the welding or grinding function selection is correct.
- The protective plate must be installed to protect the filter away from damage.
- Do not make any amend or replacement of weld cap or ADF without authorization.
- Stop using immediately if the filter can't change to dark and contact the dealer.
- Do not use alcohol, petrol or thinner to clean filler, do not immerse it in water.
- Operation temperature: -5°C - + 55 °C (23 '-131' F, F) the reaction of ADF will be slow down if the ambient temperature is too low. But it does not affect the protective performance.
- Replace protective films immediately if it's broken or scratched. Since it may affect view and seriously reduce the protective performance.
- Replace protector immediately if it's broken or scratched. Do not use hard objects to contact filter lens surface, in order to prevent damage to the filter
- Clean filter surface, sensors and solar cells regularly.
- Helmet can not prevent serious impact, explosive or corrosive liquid damage.
- Note:** serious personal injury will be incurred if users do not follow the above-mentioned attentions

11. TROUBLESHOOTING

FQA	REASONS	SOLUTIONS
Filters do not darken or flickers	Protector is polluted or damaged	To clean or replace it
	Arc sensor is not clear	To clean the surface of sensor
	Welding current is too small	To adjust sensitivity to the max
	Battery is low	To replace battery
React slowly	Ambient temperature is too low	Do not use below -5 degree
	Sensitivity setting is too low	To raise sensitivity properly
Filter is not clear	Protector is stained	To clean or replace protector
	Protective film is not removed	To remove the protective film
	Filter lenses have stains	To wipe the both sides of the filter lenses
	Ambient light is insufficient	To adjust the light of the workplace
Welding cap slips	Shade No. is not set correctly	To re-set the shading NO.
	Headband is not adjusted	To adjust the fixed nuts of the headgear