

OFS-700

USER'S GUIDE Fusion Splicer

Warning

1.Do not use non-original battery or AC/DC adapter to power or charge the device.

2.Please remove the AC charging cable and shutdown the device when come across following malfunctions, otherwise will cause the

device damage, even person injury, death or fire.

- Smoke, odor, noise or abnormal heating
- Fluid or impurities inside the device
- Device broken

3. You are unauthorized to dissemble the device to do maintenance and repairment, any fault operation may cause the device failure to

fix up and make the device out of warranty range.

4.Do not use the splicer insurroundings of flammable liquid/gas. Otherwise maylead to fire, even explosion.

Note

1. The device is used to splice silica glass fiber, no other usage. Please read the manual carefully before operate the device.

2.Keep the device away from high temperature or humidity environment.

3.Please do avoid dust when using the device especially in dusty environment.

4. When moving device from lower to higher temperature, please leave device until condensation elimination.

5.Keep the device away from strong vibration and shocks, otherwise will be damaged. Please use a dedicated carrier to transport or

store the fusion splicer

* All is subjected to the physical products, the manual here is only for reference.

Standard Package



Introduction

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1	Clamp slot
2	V-groove
3	Electrode
4	Objective lens
5	Windshield cover
6	Optical fiber presser
7	LED
8	Electrode cover
9	Heater V-groove
10	Heater cover
11	Multi-functional clamp
12	Portable rope
13	5 inch LCD
14	Battery
15	USB connector
16	Power supply socket
17	Anti-collision batten

Operation Keyboard



Splicing Operation



Function





Splice Set

	6) 🔮 🚺 🕞	*	c	
A Back	SpliceSet			
	Fiber type	•	SM	▶⊷
Menu/Enter	Splice operate mode	•	Auto) •
*	Splice program No.	◀	SM-1) •
Next	Arc cleaning time	◀	120ms) •
10:33 03/07/2019	Surface angle threshold	◀	3.0°) •
	Fiber angle threshold	•	0.8°	•
	Align offset threshold	◀	0.4um) •
	Loss threshold		0.05dB) •
	Compensation arc time	◀	1000ms) •
	Fiber alignment mode	◀	core align) •
	Fast splice mode			•
	Force splice			•
	Edit splice program			>
2	Fiber standard	•	medium) •

Splice Set-Edit splice program



Heating Set



Help Info

User can check the explanation of function buttons in Help info interface.



History



Maintain

User can do some daily maintenance in Maintain menu, and operate as its prompts in device.



Maintain-Arccorrection

When coming across sudden changes of external environment, especially temperature, humidity or air pressure, and aging/dirty of electrode, continuous splicing failure or highloss, unused for a long time, over-used electrodes, or after cleaning/changing electrodes process...etc., then should do arc calibration to adjust the arc intensity, and autocalibrate to standard intensity to reach splicing with low loss and high stability.

1.In Maintain menu, select the "Arc correction".

2.Place prepared fiber, then close the cover or press "

3.If prompts "Arccurrent too high" or "Arc current too low", please doit again.

4.If prompts "Arccorrection failure", please exit and doit again .

5.If success, then press "

Note:

- a) The limit cutting angle for arc correction is set separately.
- b) Please doarc correction for several times and do as the prompts shows.



Maintain - Clean Electrodes

If unused for a long time, impurities will attach to the electrodes surface and affect the discharge, so should clean electrodes regularly.

1. Press the powerkey to turn on the device, then power indicator displays red.

2.Enter "Maintain" menuto select "Clean electrodes".

3. Press " events of the start auto discharge (5 times), and gasify the impurities through large discharge current in order to stabilize the current and clean the electrodes.

Note: During cleaning, do not touch the electrodes tip with a hard object to avoid damage to the electrodes and affect the splicing.



Maintain-Replace electrodes



Loosen screws



Tighten screws





Place the electrode cover

Remove the old electrode



Install the new electrode

Maintain- Detect system parameters

This function is to do self-diagnosistest and detect several key parameters related to the splicer. And toget better splicing result, we suggest do this operation after system upgrade, electrodes replacement or movement, long-distance transportation and strong vibration, continuous splicing failure or high loss and successive overshoot during alignment.

1. Clean the V-groove with a cotton swab dipped in alcohol, and clean the prepared fiber. This step is important, please ensure to operate as above.

2.Enter "Maintain" menu, then select "Detect system parameters" and press "

3.Place the prepared fiber and close the cover, then press "

4. Usually last 2 minutes, if fails, please follow the prompts

to correct, and repeat step 1 to self-detect again.

5.Press " S "key to exit system calibration if success.

	3	æ	1	₿		¢		
A Back	SysCa	alibrate						
¶∳ 1enu/Enter	1st:Clean the V-grove,place fiber and covering the wind cover. ⁷ 2nd:Press 'Menu' key and follow the prompts. This operation will last for a few minutes. Please wait patiently.							
10:33 03/07/2019								

Fusion Splicer Cleaning

V-groove



Fiber Presser



- When cleaning, keep the device off
- Use cotton swabsdipped in pure alcohol

Objective Lens



The Heater



- Do not touch the electrode tips
- Clean excess alcohol with dry cotton swabs

System



Battery Information

Battery information shows on the upper right of LCD, and will present different color and graphics in different battery capacity, and also can be checked in system menu.



Abnormal alignment

Graphics (X/Y axis)	Prompts	Possible reasons	Measures	
	Right fiber placement error	Right fiber is not placed in V-groove or cutting length is too short	Place and cut the fiber again	
	Left fiber placementerror	Left fiber is not placed in V-groove or cutting length is too short	Place and cut the fiber again	
	Alignment abnormal	Left/ right fiber is not placed in V-groove	Place and cut the fiber again	
	Reset the fiber	Left and right fibers are cleaved too short	Place and cut the fiber again	
	Reset the fiber	Left and right fibers are cleaved too long	Place and cut the fiber again	
	Optical fiber angle disqualification	Problems in fibercleaving (protruding tips, burrs, bevels, concave cores, etc.)	Cut the fiberagain	
	Fiber disqualification	Fiber end face has dust	Clean and place fiber again	

Troubleshooting

Abnormal working	Reasons	Measures		
Abnormal noise when discharging	Improper installation position of electrodes	Please re-install the electrodes strictly based on the requirements		
Disabarga dalayad arfailura	1.Improper installation position of electrodes	1.Please re-install the electrodes strictly based on the requirements		
Discharge delayed of failure	2.Electrode tips are with silicon oxide	2.Clean the electrode tips or replace the electrodes		
Device crashes when discharging	Wrong installation position of electrodes	Please re-install the electrodes strictly based on the requirements		
Arc calibration failure The current environment has a great impact on discharging		If continuously prompts high current, please decrease the "splicing current", then do "arc correction", and vice versa. If arc correction fails many times, please contact the after-sales service.		
E 11 1 2 1 6 1	1. There is dust on objective lens, LED or V-groove	Clean the objective lens, LED and V-groove, if cannot solve, please		
Fiber alignment failure	2.The fault offusion splicer powersystem	contact our after-sales service.		
	1. There is dust on the fiber	1.Re-prepare the fiber and splice again		
	2.Choose the wrong fiber type or splicing program	2.Choose the right fiber type and splicing program		
Poor quality of splicing point	3.Big changes of splicing condition	3.Do arc calibration to reach a proper arc intensity		
	4.The control motor failure	4.Do system self-detection		
o response after press eyboard Abnormal system operation		Restart the device		
No light or blurrod in LCD	1.Abnormal system operation	Restart the device, if cannot solve, please contact our after-sales		
No light of bluffed in LCD	2.LCD cable is loose or broken	service.		
Failure splicing after discharging	Abnormal discharge or system operation error	Please do arc correction, then continue the splicing, if still cannot solve, please restart the device		
	1.The fiber is placed outside the V-groove	1.Please place the fiber again to ensure it in the V-groove.		
Fiber is outof visibility during alignment process.	2.Abnormal system operation	2.Enter "Splice Set" → "Splice operate mode"menu, choose "Manual" mode, and selectleft/right fiber, user can controlleft/right fiber by direction buttons and move it to the center of visible field, then do system self-detection.		

EMP_C02#0002 Rev.200615