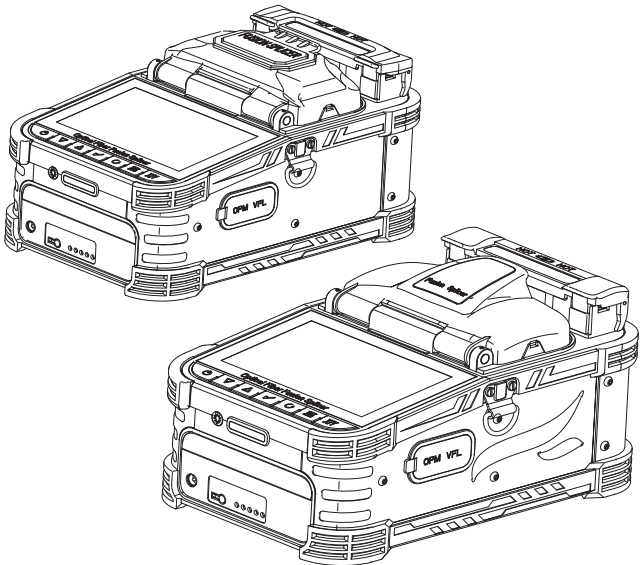




# Fiber optic fusion splicer

## --Operation manual--

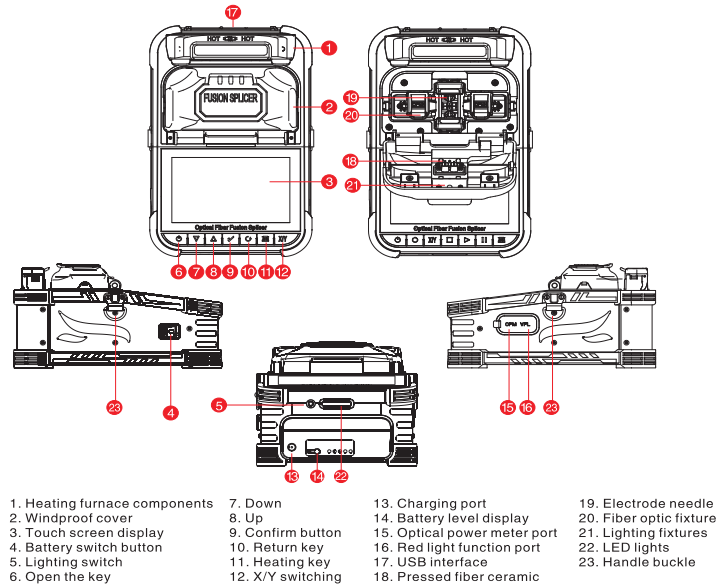
Note: The manual is for reference only, and everything is subject to the actual product!



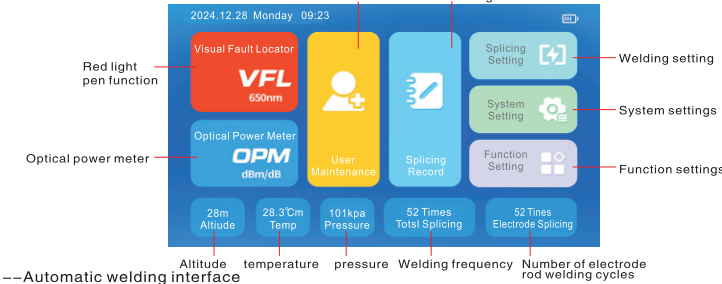
### --summary

The fiber fusion splicer adopts high-speed image processing technology, 6-motor autofocus, and special precision positioning technology, The entire process of fiber fusion can be automatically completed in about 8 seconds. The model is lightweight, easy to carry, and easy to operate Simple, fast welding speed, low welding loss, built-in optical power meter, red light testing, lighting function, especially suitable for Fiber optic cable engineering and maintenance in communication fields such as telecommunications, broadcasting and television, railways, petrochemicals, electricity, military, and public security Research and teaching. Mainly used for fiber optic splicing, it can splice optical cables, patch cables, jumper tails, and cladding diameters For various quartz based optical fibers ranging from 80 μ m to 150 μ m, including single-mode, multi-mode, and dispersion shifted. Attention should be paid during use Keep clean and avoid strong vibrations and impacts.

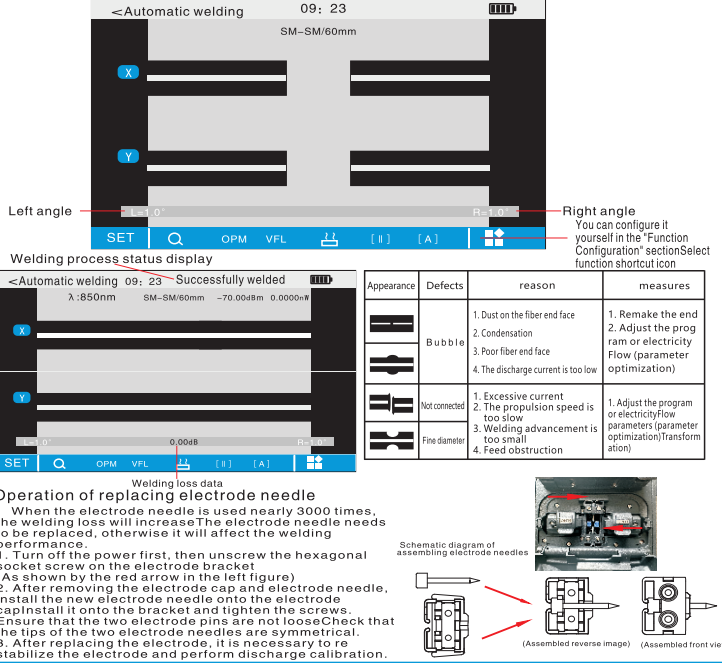
### --Function buttons and interface diagrams



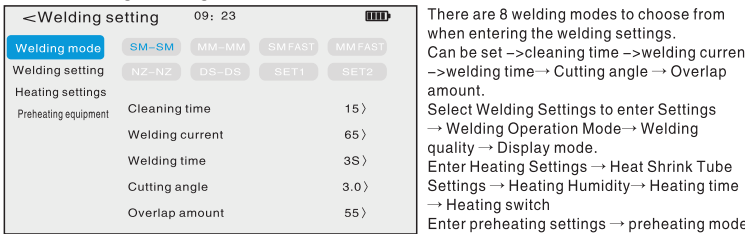
### --Operation interface functions and display



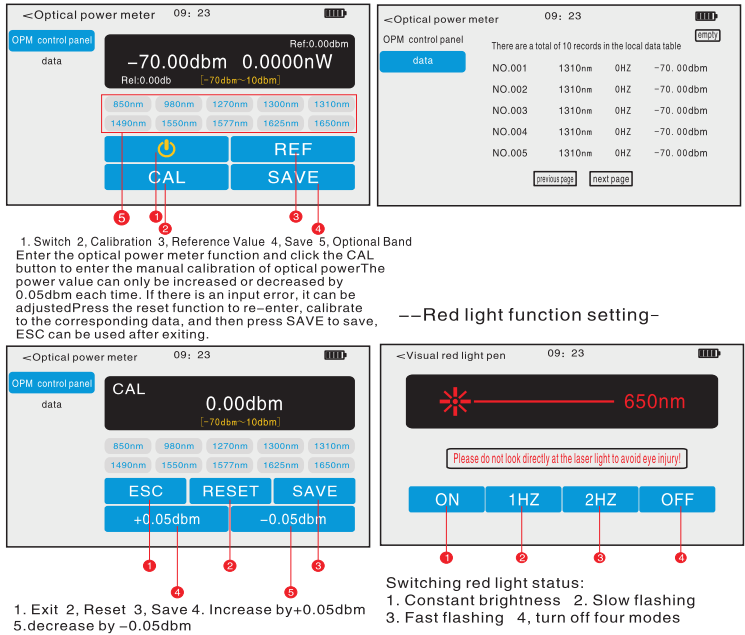
### --Automatic welding interface



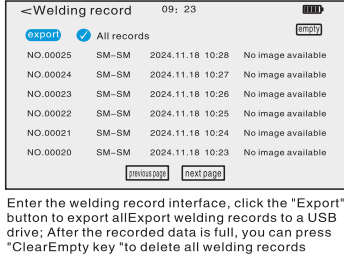
### --Welding setting



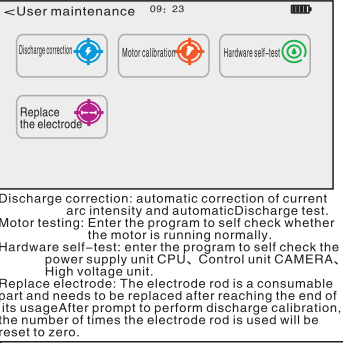
### --Optical power meter setting



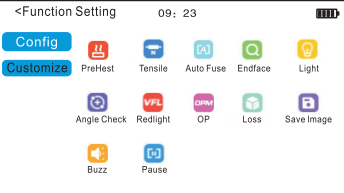
### --Welding record



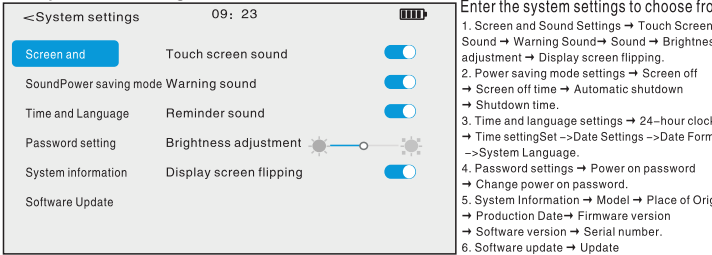
### --User maintenance



### --Function configuration



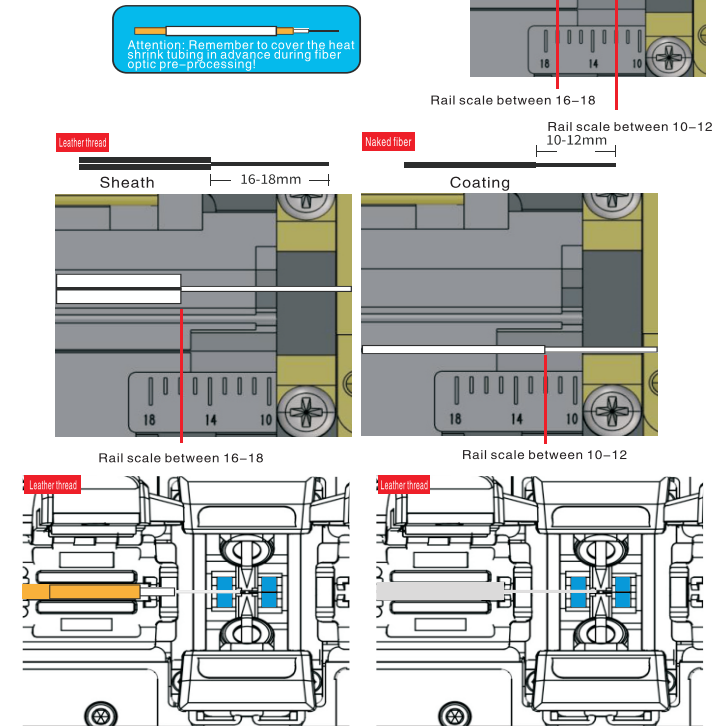
### --System settings



The rental function is optional, and the rental duration and password can be customized in a loop (note: the duration and password can be set differently each time), making machine rental more flexible and secure! To activate this feature, please contact the supplier or manufacturer.

### --Prepare fiber optic cables

1. Use a peeler to peel off the sheath, leaving at least 30mm of bare fiber, and then use Miller pliers to remove the coating layer.
2. Clean the fiber optic cable with cotton paper dipped in alcohol.
3. Use a high-precision cutting knife to cut the optical fiber, and the cutting length is described as follows:

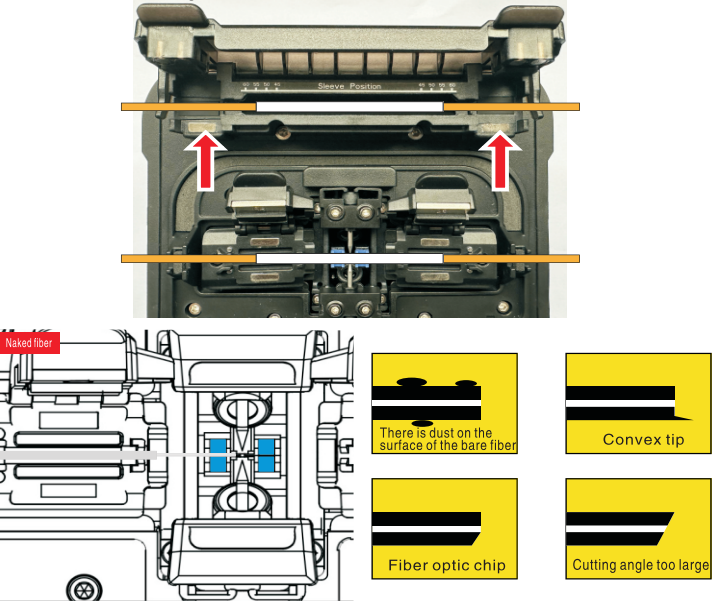


Operation steps:

1. Open the windproof cover and fiber optic cover.
2. Place the prepared optical fiber into the V-groove and ensure that the fiber end is between the edge of the V-groove and the electrode tip.
3. After placement, use a fiber optic cover to press down on the fiber optic cable.
4. Place the other end in the same way, close the windproof cover and start welding.
5. The "welding operation mode" is set to "automatic". After closing the windproof cover, welding will automatically begin.
6. The "welding operation mode" is "manual". After closing the windproof cover, press the prompt button to operate the welding.

### --Heating heat shrink tubing

- Operation steps:
1. Open the windproof cover and then open the heating cover of the heating tank.
  2. Open and place two fiber optic covers, hold the heat shrink tubing, remove the fiber optic cable, keep it tight, and move the heat shrink tubing to the fusion point position.
  3. Move the fiber optic cable with heat shrink tubing into the heating tank.
  4. Start heating. When heating, the upper left corner of the fusion interface will start counting down the heating time. After completion, it will prompt "Heating completed".
- When the "heating mode" is set to "automatic", heating will start automatically after closing the heating cover.
- When the "heating mode" is "manual", close the heating cover and press the heating button to start heating.



When the "end face detection" is turned on, the fusion splicer will automatically check whether the optical fiber is damaged and whether there are dust particles, such as detection. If the above situation exists in the fiber optic cable, please remove the fiber optic cable and prepare it again.

Attention:

When releasing the optical fiber, it should be placed in the blue V-shaped groove. The top of the fiber should be close to the center point of the electrode rod. If it is too far away or exceeds the center point of the electrode rod, an error will be prompted.

Note: The manual is for reference only, and everything is subject to the actual product!

### --technical parameter

Suitable for optical fiber	SM(G.652&G.657)、MM(G.651)、DS(G.653)、NZDS(G.655) And customizing fiber types
Fiber diameter	The diameter of the coating layer is 80-150 μ m, and the diameter of the coating layer is 100-1000 μ m
Splice loss	0.02dB (SMF)、0.01dB (MMF) 0.04dB (DSF/NZDS) Measurement using ITU-I shear method
Alignment method	Fiber core, cladding
Focusing method	Six motor automatic focusing
Welding method	Automatic/Manual
Welding time	8s (SMF typical value)
Tensile test	1.96N ~ 2.1N
Image display	5.0-inch high-definition capacitive touch screen, dual button/ touch operation, content can be flipped and operated in both directions
Magnification factor	300 times (X-axis/Y-axis)
Welding record	1000 sets
Typical heating time	18s
Heating mode	Heating time/temperature can be adjusted, supporting automatic or manual heating
Heat shrink tubing sleeve	20-60mm
OPM	Range (dBm): -70 to +10dBm/wavelength 850-1650nm (10 bands)
Red light(VFL)	≥15KW
Operation interface	GUI graphical user interface
System upgrade	USB(Export data, upgrade functions, power output)
Electrode lifespan	About 3000 times
Lighting method	LED
Battery capacity	7800mAh (Typical number of welding and heating operations 260 times )
Power supply	Built in lithium battery with 11.8V power supply, charging time of about 3.5 hours External adapter, AC100-240V, 50/60Hz output DC13.5V/4.81A
Work environment	Temperature: -15~+50 ℃/Humidity: ≤ 90% RH (non condensing)/altitude: 0-5000m/wind speed: ≤ 15m/m
Storage conditions	Temperature: -40~+50 ℃/Humidity: 0-95%
Welding machine size	Length x Width x Height(231 x 153 x 125mm)
Weight of fusion splicer	1928g (including battery), 1431g (excluding battery)

--The data is for reference only, please refer to the actual product!