Signal fire

AI-9

OPTICAL FIBER FUSION SPLICER

FOR TRUNK LINE CONSTRUCTION, FTTH
PROJECT, SECURITY MONITORING ETC.

www.sczhuoshi.com

SIGNAL FIRE TECHNOLOGY CO., LTD.

AI-9

AI-9 is a fully automatic, mainline fiber optical fusion splicer with six motors and fiber core alignment, capable of welding long-distance fiber optic lines. Also within VFL and OPM function. Adopting industrial grade CPU, with fast running speed, 5-second rapid fusion welding, 15-second rapid heating, 5-inch high-resolution LCD screen, 300x magnification; The work efficiency is increased by 50% compared to ordinary welding machines;Large-capacity lithium battery can be heated by fusion about 260 cores, out standing performance in harsh environments such as high altitudes, deserts and extreme cold.

Signal fire
OPTICAL FIBER FUSION SPLICER

15:11　　SM　　　1625nm -70.00dBm ●　　　　20S

X　　　　　　　　　　　　　　　　　　　Y

0.1°　　0.01dB　　0.3°

Remain:　172
Total:　3025

OPtical Fiber Fusion SPlicer

X/Y

6 motors　　　　**Fiber core alignment**

AI-9

PRODUCT INTRODUCE

5s splicing

15s heating
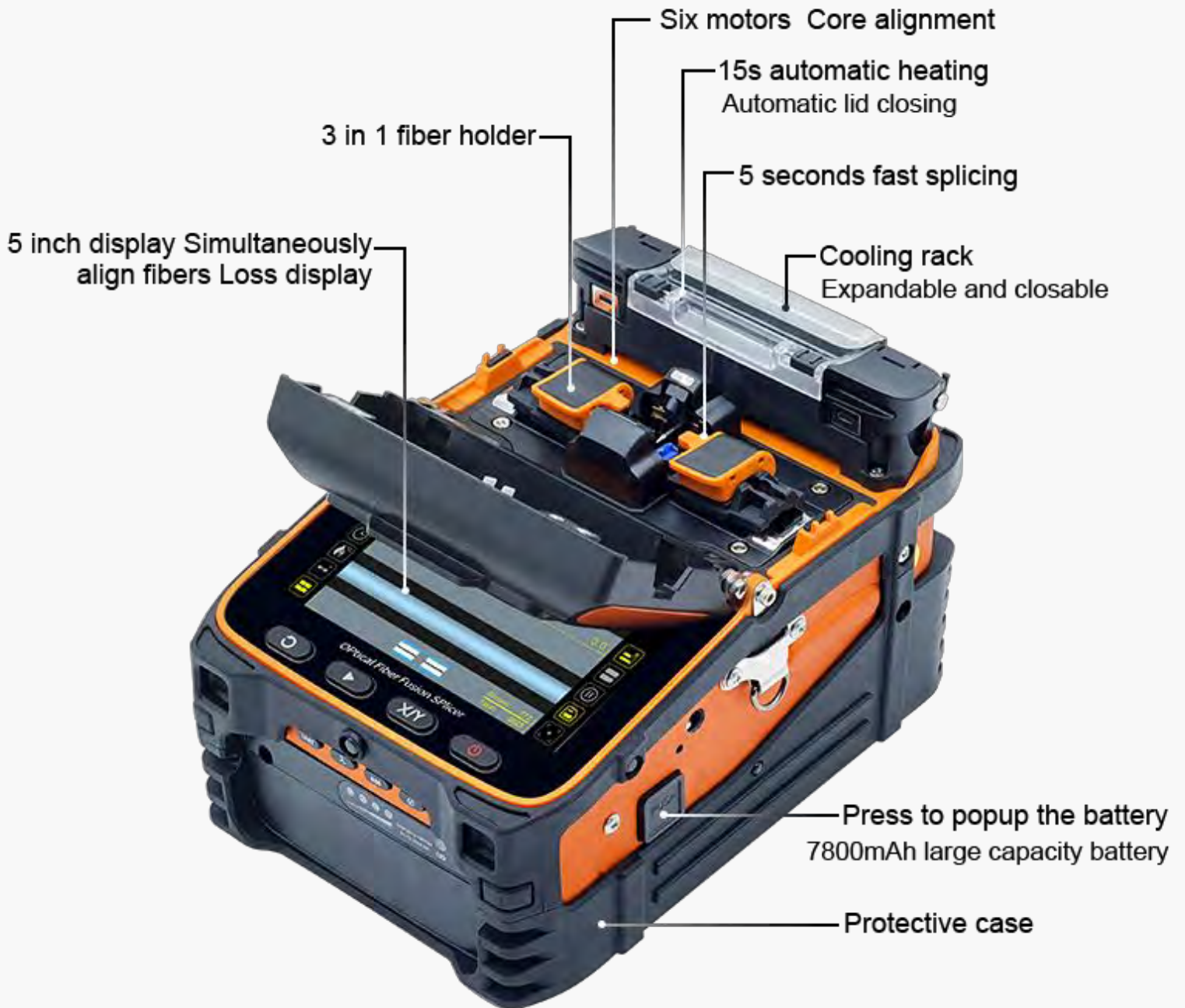
300X focus magnification

Industrial CPU, fast response, it is one of the fastest optical fiber welding machines on the market.

Use 5-inch 800X480 high-resolution screen, simple and intuitive operation graphics.

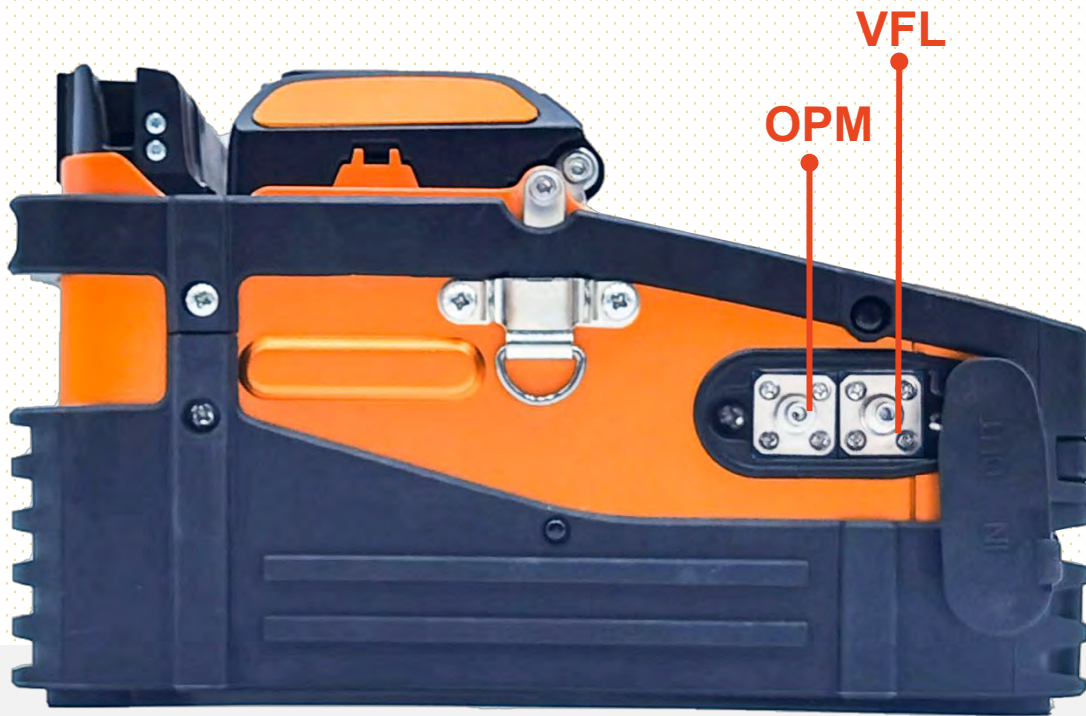Up to 300x focusing magnification makes it easy to observe the core with the naked eye.

OPTICAL FIBER FUSION SPLICER

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Six motors Core alignment

15s automatic heating
Automatic lid closing

3 in 1 fiber holder

5 seconds fast splicing

5 inch display Simultaneously
align fibers Loss display

Cooling rack
Expandable and closable

Press to popup the battery
7800mAh large capacity battery

Protective case

Optical Fiber Fusion Splicer

OPTICAL   FIBER   FUSION   SPLICER

Within VFL and OPM function

VFL

OPM

Effectively measure connection losses, verify continuity, and help evaluate fiber link transmission quality

OPM

Switch between six states
Wavelength: 850nm; 1300nm, 1310nm, 1490nm, 1550nm, 1625nm
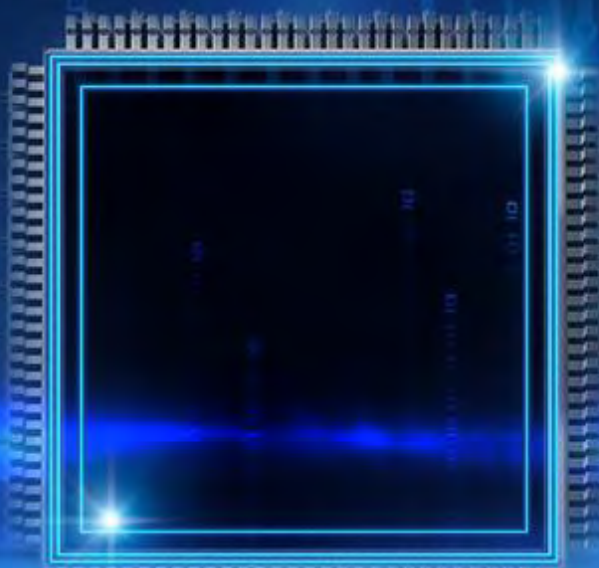
VFL

Switch between three states
power: 15mW, 2Hz flashing and steady on mode

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Industrial quad-core chip CPU

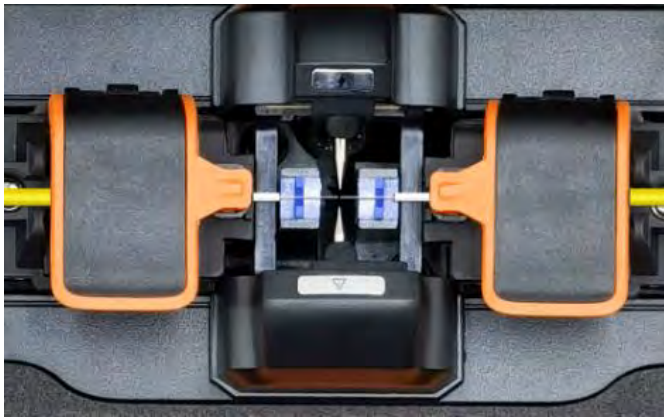1 second startup will enter the working state
without waiting

OPTICAL FIBER FUSION SPLICER

3-IN-1
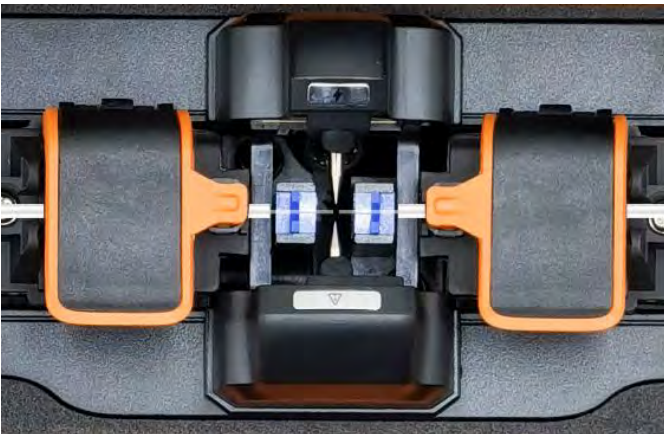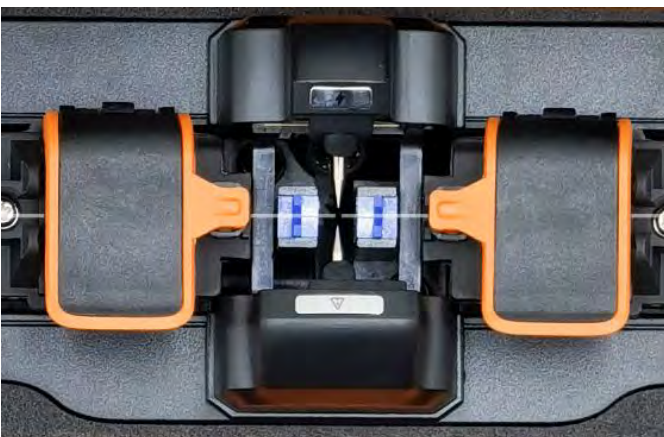## UNIVERSAL FIXTURE

Jumper fiber (pigtail)

Drop cable

bare fiber

AI-9

7800mAh lithium battery

Battery charging "New upgrade"

Dual charging

Even if a fault occurs, another channel can be used for charging

Charging channel ①

Charging channel ②

- Charging time ≤3.5 hours;
- In full state, 260 cores can be continuously fused and heated

Charging method III

The battery can be removed and charged separately

Press to popup the battery

Charging mouth

Input voltage :13.5±0.5V

Input current :4.8A

Power indicator light

Charge indicator light

Press to check the power level
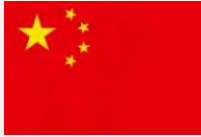
ELECTRICITY

PUSH

10 LANGUAGES AVAILABLE

Multilingual Settings, covering the global market
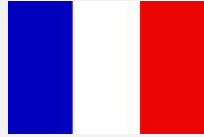
Chinese   **English**   **French**   **Russian**   **Italian**

Portuguese   **Polish**   **Spanish**   **Thai**   **Arabic**

18s automatic heating

Preheating

Successful fiber melting. When opening the windproof cover to take out the fiber, the machine turns on pre heating for up to 8 seconds

Heating part automatic lid closing
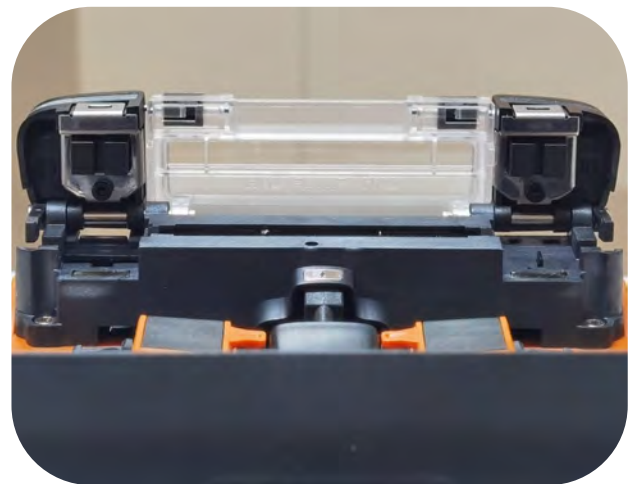
Heating part compatible with SC fiber

SC Fiber: Push up

Ordinary fiber: Push down

MASTERPIECE
HIGH-END LUXURY

COOLING RACK

Expandable and closable

Deployment status

Closed status

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DUST PREVENTION FALL PREVENTION
SHOCK PREVENTION

Thickened buffer structure

Don't be afraid to knock! Touch! Fall!

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Outstanding quality without fear of challenges

Adapt to harsh environments such as deserts, snow, high altitude, and high temperatures

THE TOOLBOX

comes with a stool to facilitate the construction workers

Stool can bear: **100KG**

Two layers

Do not need to take out the splicer machine
from the toolbox while working

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MASTERPIECE
HIGH-END LUXURY

RANDOM CONFIGURATION

TOOLCASE

fusion splicer

electrode

cleaver

signal fire stripper

belt

Toolbox strap

power supply

key

inner hexagon

Alcohol pump

brush

Warranty card certificate
Instruction list list
Distribution correction

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122mm

135mm

198mm

Welding machine weight

2.08kg (including batteries)

1.60kg (excluding batteries)

Tool box weight

7.10kg

(including machine and accessories)

293mm

270mm

237mm

OPTICAL FIBER
FUSION SPLICER

UK CA CE FC
ISO9001 RoHS

Silver
Champagne
Blue
Orange

MADE IN CHINA

OPTICAL FIBER FUSION SPLICER

MADE IN CHINA

370mm

330mm

310mm

Carton weight

8.40kg

OPTICAL FIBER FUSION SPLICER

Fiber alignment	Core/cladding
Motor number	6 motors
Splicing time	5s
Heating mode	15s，can be customized according to the external environment
Fiber type	Single-mode fiber (SMF/G.652), BIF/G.657); Suitable for single mode, multi-mode, bare fiber, tail fiber, drop cable, jumper, invisible fiber fusion;
The cladding diameter	80-150 μm
Splicing loss	0.02dB（SM）、0.01dB（MM）0.04dB（DS/NZDS）
Splicing mode	Automatic focusing core alignment, conventional/high precision welding
Splicing way	Automatic, semi-automatic
Fiber holder	Three in one fixture, no need to change, suitable for single/multi-mode, multi-core cable/bare fiber, tail fiber, jumper fiber,drop cable
VFL	The machine comes with: power: 15mW, 2Hz flashing and steady on mode
OPM	Wavelength: 850nm; 1300nm, 1310nm, 1490nm, 1550nm, 1625nm/Measurement range: -50+26dbm Absolute error: <0.3dB (-50dbm ~+3dBm range)
Battery capacity	7800mAh large capacity lithium battery charging time ≤3.5; It can continuously weld and heat about 260 cores
Magnification	300 (X or Y), 150 (X or Y)
Fiber diameter	Coating diameter: 80-150μm/Coating diameter: 100-1000μm
Cutting length	Coating layer 250μm below: 8-16mm/coating layer 250-1000μm: 16mm
Heat shrink tube	60mm、50mm、40mm、25mm
Tensile testing	standard 2N
display	5 inch TFT color display screen
External lighting	USB port can be connected with EXTERNAL LED light, convenient for night construction
Charge mobile device	The USB port can charge mobile devices such as mobile phones
Boot time	1s, boot can enter the working mode
Data is stored	Unlimited, machine storage 1000 groups, the excess part can be stored in the server, can export data.
Wireless communication	Based on bluetooth 4.2 protocol standard, the working band is 2.4GHz, the maximum transmission range is 60m
Software upgrade	Mobile phone APP Internet update, enable Bluetooth synchronization upgrade machine software
Management function	The equipment owner can be bound as the highest authority, and can remotely view the welding records, welding time, loss, etc. through the mobile phone APP. The number of welding times or working time of the equipment can be set. The manager can effectively manage a single or multiple equipment.
interface	USB2.0 (Type A) can be used to connect external LED lights and charge mobile devices
Return loss	Better than 60 db
Product protection	Waterproof, dustproof and fall proof
Power supply	Input AC100-240V 50/60Hz, output DC13.5V/4.8A, the current power mode can be identified, real-time monitoring of the current battery level
The work environment	Temperature: -15 ~ +50℃, humidity: < 95%RH (no condensation), working altitude: 0 ~ 5000m, maximum wind speed: ≤15m/s

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Intelligent interaction, avoid tedious

Scan the QR code of the welding machine startup
screen to download the Mobile APP
The phone connects to the splicer via Bluetooth

- Welding record can be read through mobile phone, and the data can be exported;
- You can set the parameters of the welding machine, such as selecting the machine language, changing the heating time, selecting the fiber optic alignment mode, etc;
- You can manage the welding machine, such as setting the use time of the machine, welding times, etc;
- Upgrade the phone APP, bluetooth connected to the machine to upgrade the machine software;

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Function configuration

- Fiber tensile test
- Splice process pause
- Splice wrong image
- Auto focus
- Power off after standby
- Power off voice
- Buzzer
- Screen brightness control (lower brightness, you can save power)

0   30   50   60   80   100

Language selection

中文 (简体)   English   Português
Français   Русский   Español
Polski   ไทย   عربي
Italiano

After it is opened, there will be voice prompt in the whole process from fiber laying, fiber matching, welding and loss value. In case of unqualified items, it will be directly informed.

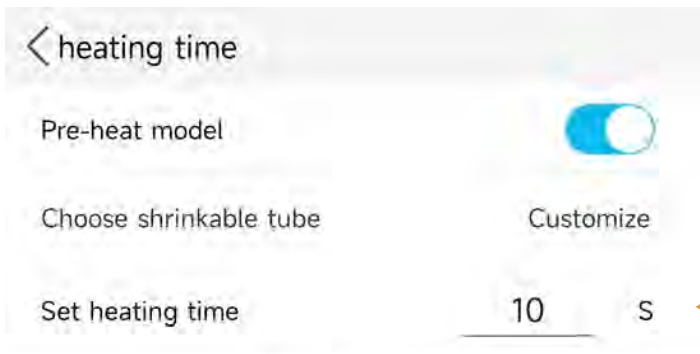Adapt to bright light, dark and other different outdoor environment

Major global languages available

Learning operation: from cutting fiber, stripping fiber to welding machine operation have detailed tutorials
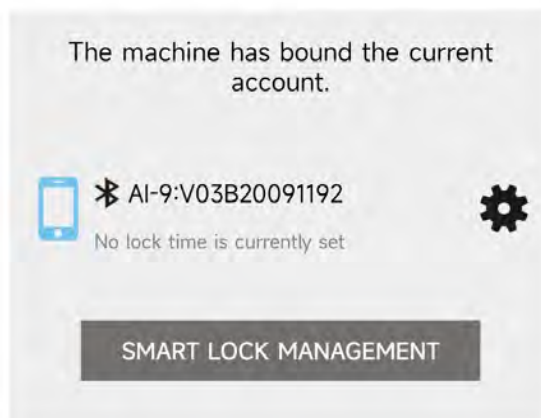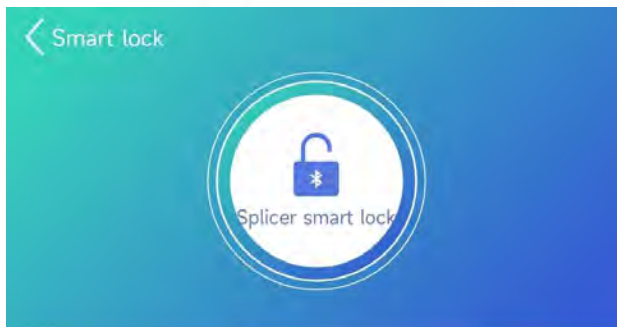
Learn How to Operate

Read Record

Smart lock

heating time

fiber type

discharge correction

Fiber Splicing Set

Optical power meter and optical module

Activate Electrode

heating time

Pre-heat model

Choose shrinkable tube   Customize

Set heating time   10   S

Preheating mode: The welding is completed. When the windshield is opened, the heater is heated in advance for 6 seconds. Turning on the preheating mode can appropriately reduce the heating time of the heat shrinkable tube to improve efficiency.

Note: In winter or low temperature, heating is not ideal, and the heating time can be extended appropriately.

Heating time can be customized, extremely cold weather and hot summer can be appropriately extended or shortened

Smart lock

Splicer smart lock

The machine has bound the current account.

AI-9:V03B20091192
No lock time is currently set

SMART LOCK MANAGEMENT

Rent mode: you can set the use time or welding times of the machine, the machine stops working when the expiry date expires, after the new machine is received, bind your mobile phone number and set as the highest management authority, you can control the device.

About smart locks?

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Splicing record

Machine number:

Total splicing: 6957

AI-9:V03B20090244

Export latest number

2020-02-10 — 2022-02-10

Mode/Number	Splicing loss	Time	Pictures
1	0.01	2021-10-07 10:46:16	
2	0.01	2021-10-06 15:21:50	
3	0.01	2021-10-05 13:20:47	
4	0.00	2021-10-05 13:19:04	
5	0.00	2021-10-05 13:04:43	
6	0.01	2021-10-05 13:02:22	
7	0.01	2021-10-05 12:50:01	
8	0.01	2021-10-05 12:49:14	
9	0.02	2021-10-05 12:47:26	

It can be downloaded and exported

Unlimited storage of welding records, can be synchronized to the mobile terminal view

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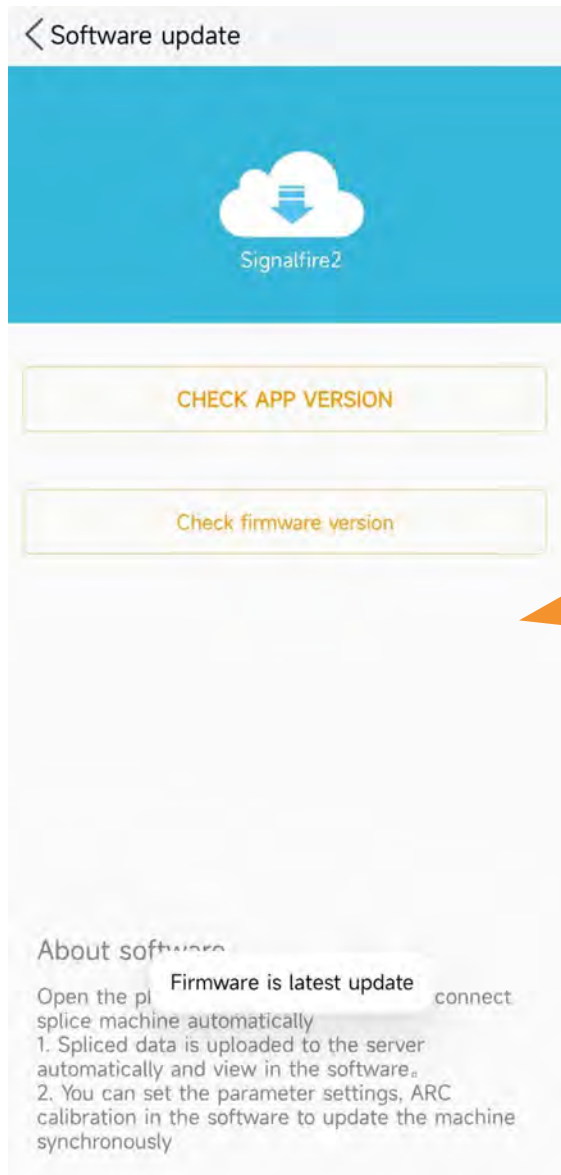
Mobile phone firmware upgrade, and then transmitted to the welding machine through Bluetooth, no data line, U disk
Make your welding machine software system never obsolete!