



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

PRODUCT INTRODUCE



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, outstanding performance in harsh environments such as high altitudes, deserts, and extreme cold.

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PRODUCT INTRODUCE



6 motors



Fiber core alignment

OPTICAL FIBER FUSION SPLICER

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PRODUCT INTRODUCE

5s
splicing

15s
heating

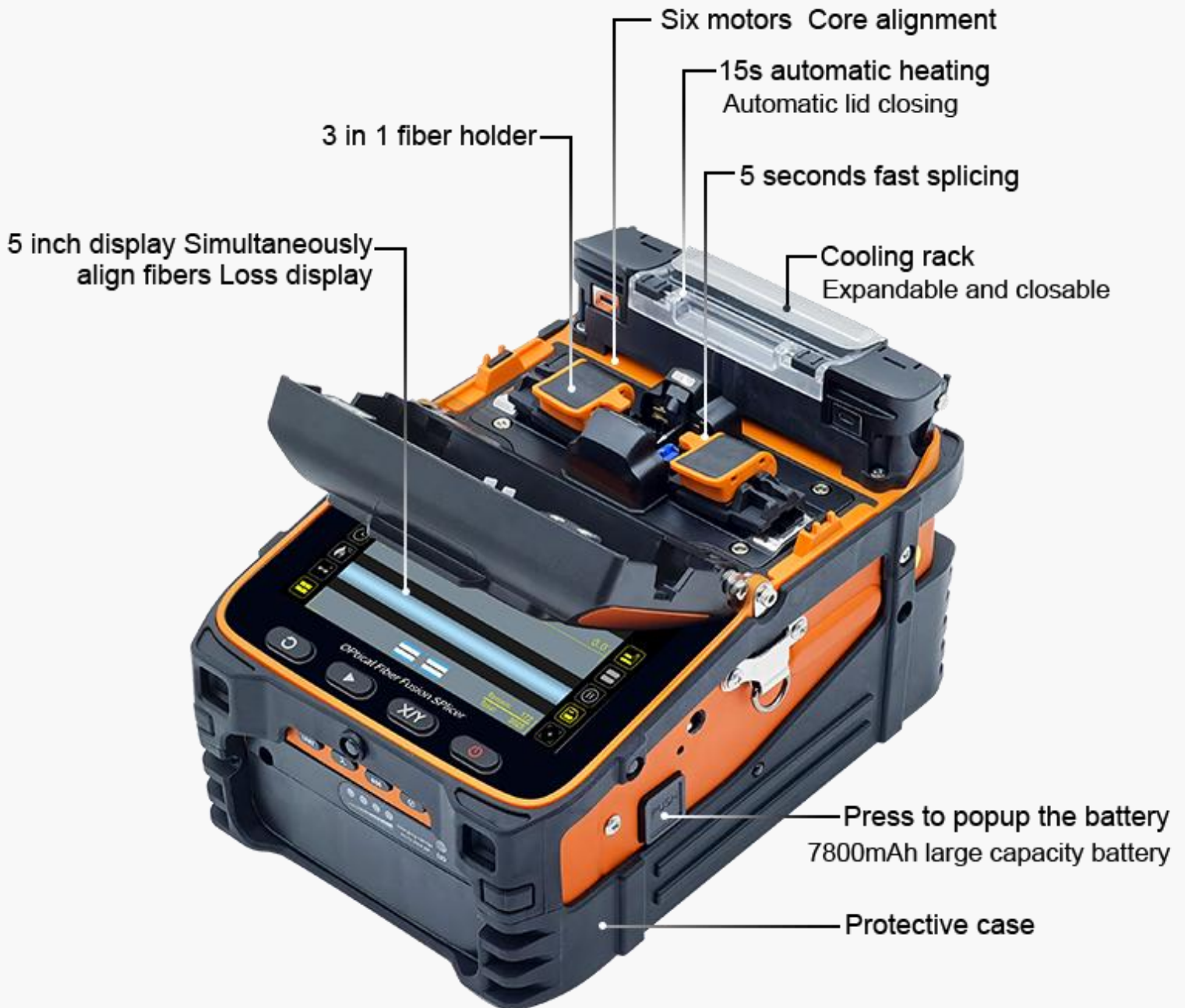
300X
focus
magnification



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

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MASTERPIECE HIGH-END LUXURY

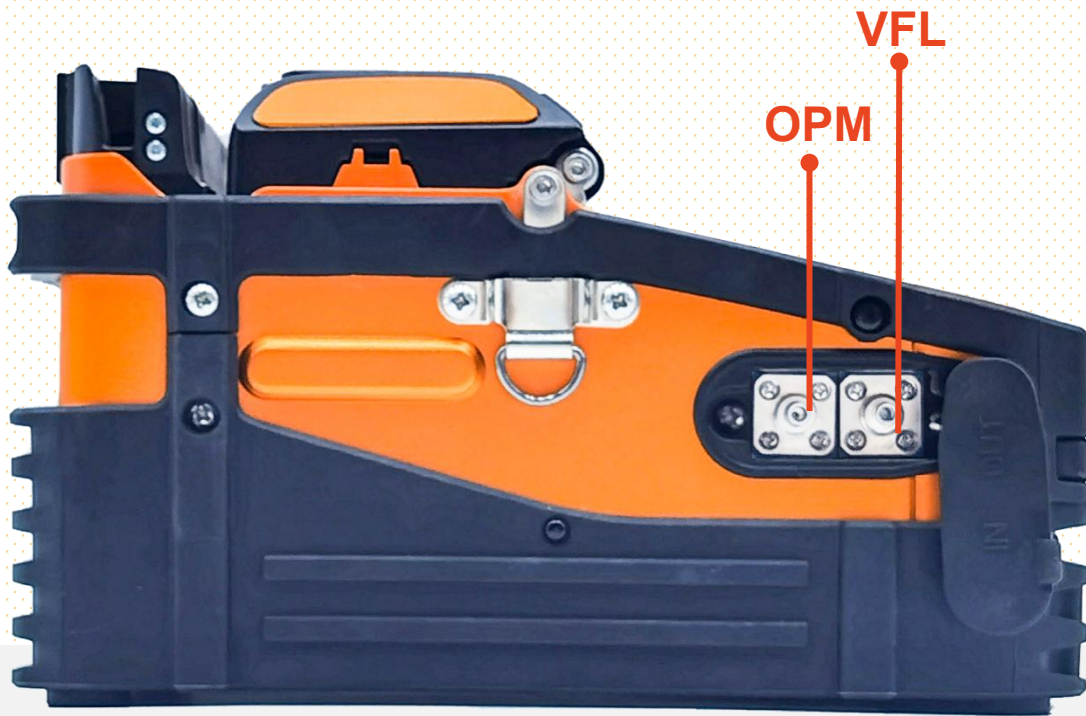


OPTICAL FIBER FUSION SPLICER

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MASTERPIECE
HIGH-END LUXURY

Within VFL and OPM function



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

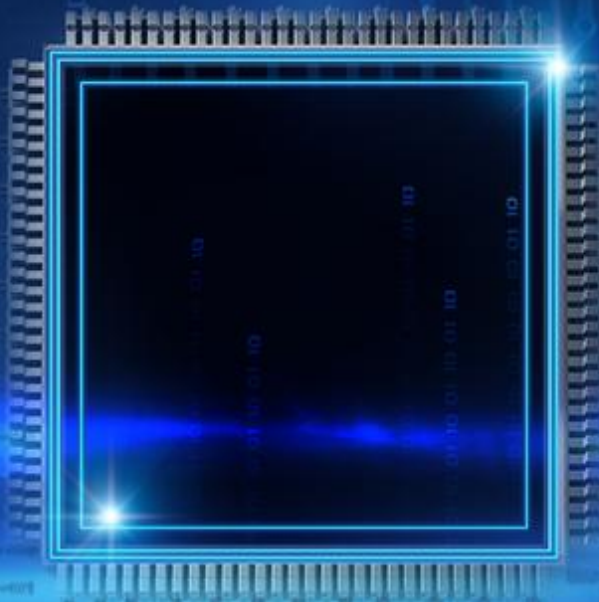
power: 15mW, 2Hz flashing and steady on mode

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Industrial quad-core chip CPU

1 second startup will enter the working state
without waiting



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3-IN-1 UNIVERSAL FIXTURE



Jumper
fiber
(pigtail)



Drop cable



bare fiber

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7800mAh lithium battery

Battery charging "New upgrade"

Dual charging

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



- 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 : $13.5 \pm 0.5V$

Input current :4.8A

Power indicator light

Charge indicator light

Press to check
the power level



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10 LANGUAGES AVAILABLE

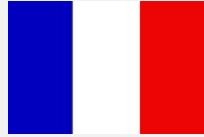
Multilingual Settings, covering the global market



Chinese



English



French



Russian



Italian



Portuguese



Polish



Spanish



Thai



Arabic

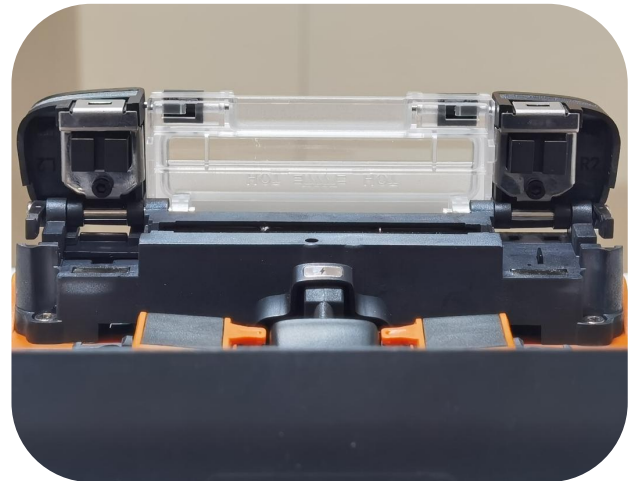
15s automatic heating



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

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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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MASTERPIECE
HIGH-END LUXURY

Outstanding quality without fear of challenges

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



OPTICAL FIBER FUSION SPLICER

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MASTERPIECE HIGH-END LUXURY

Exported to nearly 100 countries and regions worldwide

Get unanimous praise from customers!



OPTICAL FIBER FUSION SPLICER

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THE TOOLBOX

comes with a stool to facilitate the construction workers

Patent no.ZL 2016 3 0402585.X



Stool can bear: **100KG**

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

| | |
|------------------------|--|
| 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°C, humidity: < 95%RH (no condensation), working altitude: 0 ~ 5000m, maximum wind speed: ≤15m/s |

SIGNAL FIRE STRIPPER

ZSQ-08



①SCISSORS(prohibit cutting steel wires)

②③④THREE-PORT
MILLER STRIPPER

⑤WIRE
STRIPPING PLIERS

Caliber: 2mm x 1.6mm

⑥WIRE
STRIPPING PLIERS

Caliber: 3mmx2mm

⑦ROTATE
THE SCALE

⑧CLEANING COTTON

Wipe off the coating layer on
the optical fiber, rotatable and
replaceable (using 3mm hexagon
socket screws)

Free

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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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Machine weight

2.10kg (with battery)

1.68kg (without battery)



Toolbox weight

6.95kg

(including machine
and accessories)



Total weight

8.20kg



OPTICAL FIBER FUSION SPLICER

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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INTELLIGENT INTERACTION AVOID TEDIOUS

< Function configuration

- Fiber tensile test
- Splice process pause
- Splice wrong image
- Auto focus
- Power off after standby
- Power off voice
- Buzzer

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.

Screen brightness control (lower brightness, you can save power)

0 20 60 80 100

Adapt to bright light, dark and other different outdoor environment

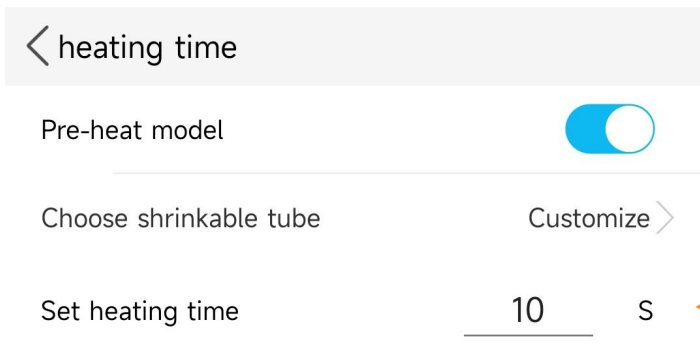
Language selection

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

Major global languages available

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

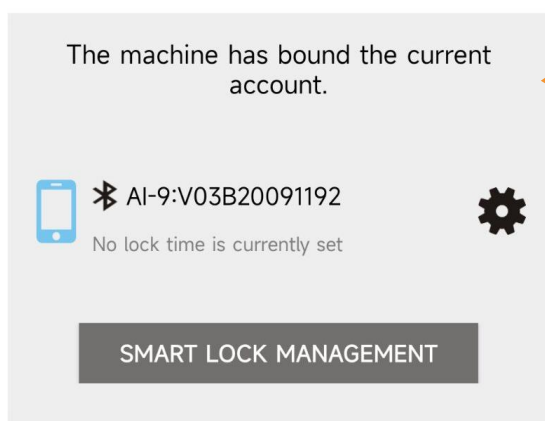
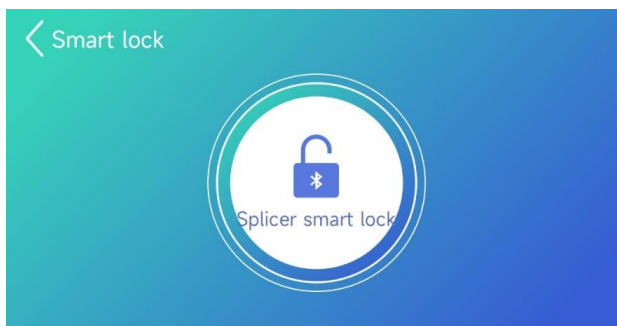
- Learn How to Operate
- Read Record
- Smart lock
- heating time
- fiber type
- discharge correction
- Fiber Splicing Set
- Optical power meter and optical module
- Activate Electrode



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

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.



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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INTELLIGENT INTERACTION AVOID TEDIOUS

< Splicing record

Machine number: AI-9:V03B20090244

Total splicing: 6957

Export EXCEL

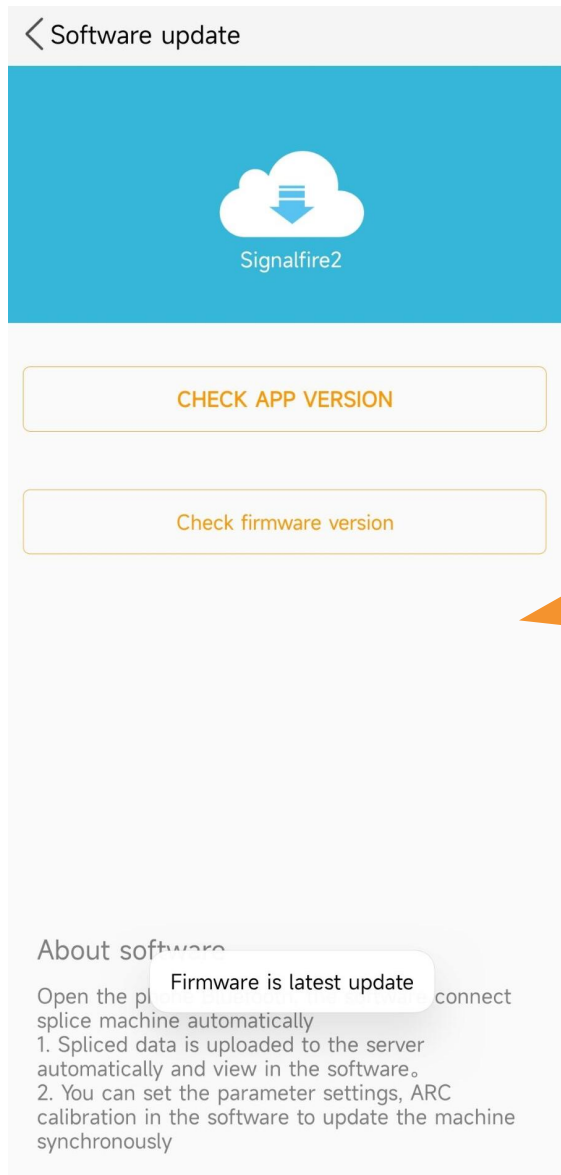
Export latest number

2020-02-10 - 2022-02-10

It can be downloaded and exported

| 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 | |

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



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!

SERVICE COMMITMENT

Five years warranty, but these circumstances are not within the scope of this provision.

01.Except for the cleaver, miller clamp, stripping pliers, fiber holders and other tools whose life depends on the frequency of use and the use of the environment. Also electrodes are consumption material which are not in the warranty.

02.Battery and power adapter are warranty for one year, it is in free warranty where it is damaged or can not be charged in one year.

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Signal Fire Technology Co., Ltd. is a high-tech joint-stock enterprise specializing in the research and development, production, and sales of communication equipment, with a registered capital of 10 million. It is a national high-tech enterprise. Our main products include fiber optic fusion splicers, electric fiber cleaver, OTDR (Optical Time Domain Reflectometer), and 8-in-1 optical fiber stripper. They are widely used in the construction, maintenance, emergency repair, security monitoring, and research and teaching of optical cable lines in telecommunications, mobile, China Unicom, radio and television operators, post and telecommunications, railway, engineering companies, and public institutions.

The factory is located in Chengdu High tech International Enterprise Port, with a modern production factory and standardized office buildings. We have passed the ISO9001 international quality management system certification, and our products have passed the EU CE, ROHS. International certifications such as FCC in the United States and UKCA in the United Kingdom have been passed by the National Institute of Quality Supervision and Inspection, China Academy of Information and Communications Technology.

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The qualified testing of Taier Laboratory has obtained nearly a hundred domestic and international patents at the same time. The "Signal Fire" series products have been sold to over 100 countries and regions including North America, South America, Europe, Africa, and Asia, and have received unanimous praise from customers.



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Operator winning bid brand



Telecom installation and maintenance skills competition, Signal fire fusion splicer excellent performance, won the group first prize





AI-9

INTELLECTUAL PROPERTY

Signal Fire Technology Co., Ltd. has passed the ISO9001 international quality management system certification. The product has passed international certifications such as the CE, RoHS, the United States FCC, and UKCA in the United Kingdom, and passed the qualified test through National Quality Supervision Institute, China Xintong Institute, and Tel Laboratory. At the same time, we obtained nearly 100 patents.

CERTIFICATE



CERTIFICATE
Of Conformity
Directive 2014/53/EU
On The Radio Equipment Directive

Certificate No.: AT18220WC202819

Certificate Holder: SIGNAL FIRE TECHNOLOGY CO., LTD.
Address: Building 18, Chengdu Hi-Tech International Enterprise Park, Liando U Valley, 1111 Changsheng Bridge, Pidu District, Chengdu China

Manufacturer: SIGNAL FIRE TECHNOLOGY CO., LTD.
Address: Building 18, Chengdu Hi-Tech International Enterprise Park, Liando U Valley, 1111 Changsheng Bridge, Pidu District, Chengdu China

Product Name: OPTICAL FIBER FUSION SPLICER

Model No.: AI-9, AI-6C, AI-6V, AI-7C, AI-8C, AI-8X, AI-7V, AI-X, S9

Trade Mark: Signal fire

Rating: Input: 13.5V/4.8A DC (with DC 11V, 7800mAh Battery inside)

| The radio equipment meets the following essential requirements | Complied |
|--|---|
| Article 3(1)(a) Safety | EN IEC 62368-1:2020/A11:2020 Yes |
| Article 3(1)(a) Health | EN 50663: 2017, EN 62479: 2010 Yes |
| Article 3(1)(b) EMC | ETSI EN 301 488-1 V2.2.3 (2019-11) Yes ETSI EN 301 488-17 V3.2.4 (2020-09) Yes |
| Article 3(c) Radio | ETSI EN 300 328 V2.2.2 (2019-07) Yes |

Note: The attached Annex forms part of this certificate which consists of 2 pages.

Certified by

Kingkong Jin

Jan. 03, 2023
Date



The CE Marking may only be used if all relevant and effective EU Directives are complied with



Shenzhen Anbotek Compliance Laboratory Limited
1/F, Building D, Sogood Science and Technology Park, Samwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China 518128
Tel: (86)755-26066440 Fax: (86)755-26014772
Http://www.anbotek.com Email: service@anbotek.com

CERTIFICATE



CERTIFICATE
Of Conformity
Radio Equipment Regulations 2017
(SI 2017 No. 1208)

Certificate No.: AT18220WC202820

Certificate Holder: SIGNAL FIRE TECHNOLOGY CO., LTD.
Address: Building 18, Chengdu Hi-Tech International Enterprise Park, Liando U Valley, 1111 Changsheng Bridge, Pidu District, Chengdu China

Manufacturer: SIGNAL FIRE TECHNOLOGY CO., LTD.
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| CHAPTER (General)(1)(a) Safety | BS EN IEC 62368-1:2020/A11:2020 Yes |
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| CHAPTER (General)(1)(b) EMC | ETSI EN 301 488-1 V2.2.3 (2019-11) Yes ETSI EN 301 488-17 V3.2.4 (2020-09) Yes |
| CHAPTER (General)(2) Radio | ETSI EN 300 328 V2.2.2 (2019-07) Yes |

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Certified by

Kingkong Jin

Jan. 03, 2023
Date



The UKCA Marking may only be used if all relevant and effective UK Regulations are complied with



Shenzhen Anbotek Compliance Laboratory Limited
1/F, Building D, Sogood Science and Technology Park, Samwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China 518128
Tel: (86)755-26066440 Fax: (86)755-26014772
Http://www.anbotek.com Email: service@anbotek.com

TCB

GRANT OF EQUIPMENT AUTHORIZATION

TCB

Certification
Issued Under the Authority of the
Federal Communications Commission

By:

Bay Area Compliance Laboratory Corp. Date of Grant: 02/09/2018
1274 Anhefeng Avenue Application Dated: 02/09/2018
Sunnyvale, CA 94089

Signal Fire Technology Co., Ltd.
No.84 Qingyang Zone, Jiaohang Industrial Park
Qingyang District, Chengdu, China
Chengdu, China

Attention: Jason Yang

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: 2A95AL779


Name of Grantee: Signal Fire Technology Co., Ltd.

Equipment Class: Digital Transmission System

Notes: OPTICAL FIBER FUSION SPLICER

| Grant Notes | FCC Rule Parts | Frequency Range (MHz) | Output Power | Modulation | Frequency Tolerance | Emission Designator |
|-------------|----------------|-----------------------|--------------|------------|---------------------|---------------------|
| | 15C | 2402.8 - 2485.0 | 0.3004 | | | |

Output power listed is conducted.





Certificate

Certificate No.: 11420Q43272R1M

This is to certify that the Quality Management System of
SIGNAL FIRE TECHNOLOGY CO., LTD.
Unified Social Credit Code: 91510100072411028D

Registered Address: No. 1111 Changsheng Bridge, Honggang Town, Small and Micro Enterprise Innovation Park, North Area of Chengdu Modern Industrial Park, Pidu District, Chengdu

Production Office Address: No. 2, Building 18, Chengdu High-tech International Enterprise Park, Liando U Valley, No.1111 Changsheng Bridge Road, Pidu District, Chengdu City, Sichuan Province, China

Has been audited to conform to the following Quality Management System standard
GB/T19001-2016/ISO9001:2015
The Applicable Scope
The production of optical fiber fusion splicer

Date of initial issuance: Aug. 22, 2017
Date of issuance: Jul. 21, 2020
Date of renewal: Jul. 21, 2021
Date of expiry: Jul. 21, 2023

Issued by: *Wu Fuyun*



Beijing East Allreach Certification Center Co., Ltd.







The certificate will remain valid only if the certified organization accepts surveillance visits at regular intervals and addresses the identified non-conformities and corrective actions as a condition of continued certification. IAF and CNAS - official bodies (www.cnas.gov.cn) and IAF - (www.iaf-cmc.com) are responsible for issuing the IAF Code of the Issued Right.

IAF Code address: 100, "No. 100 Building, No. 101, Zhongguo Road, Beijing, China. Telephone: 86-10-63701000. Fax: 86-10-63701001. E-mail: service@iaf-cmc.com

