

OPTICAL FIBER FUSION SPLICER

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

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, 320x 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.

AI-9

PRODUCT INTRODUCE



6 motors



Fiber core alignment

OPTICAL FIBER FUSION SPlicer

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PRODUCT INTRODUCE

5s
splicing

15s
heating

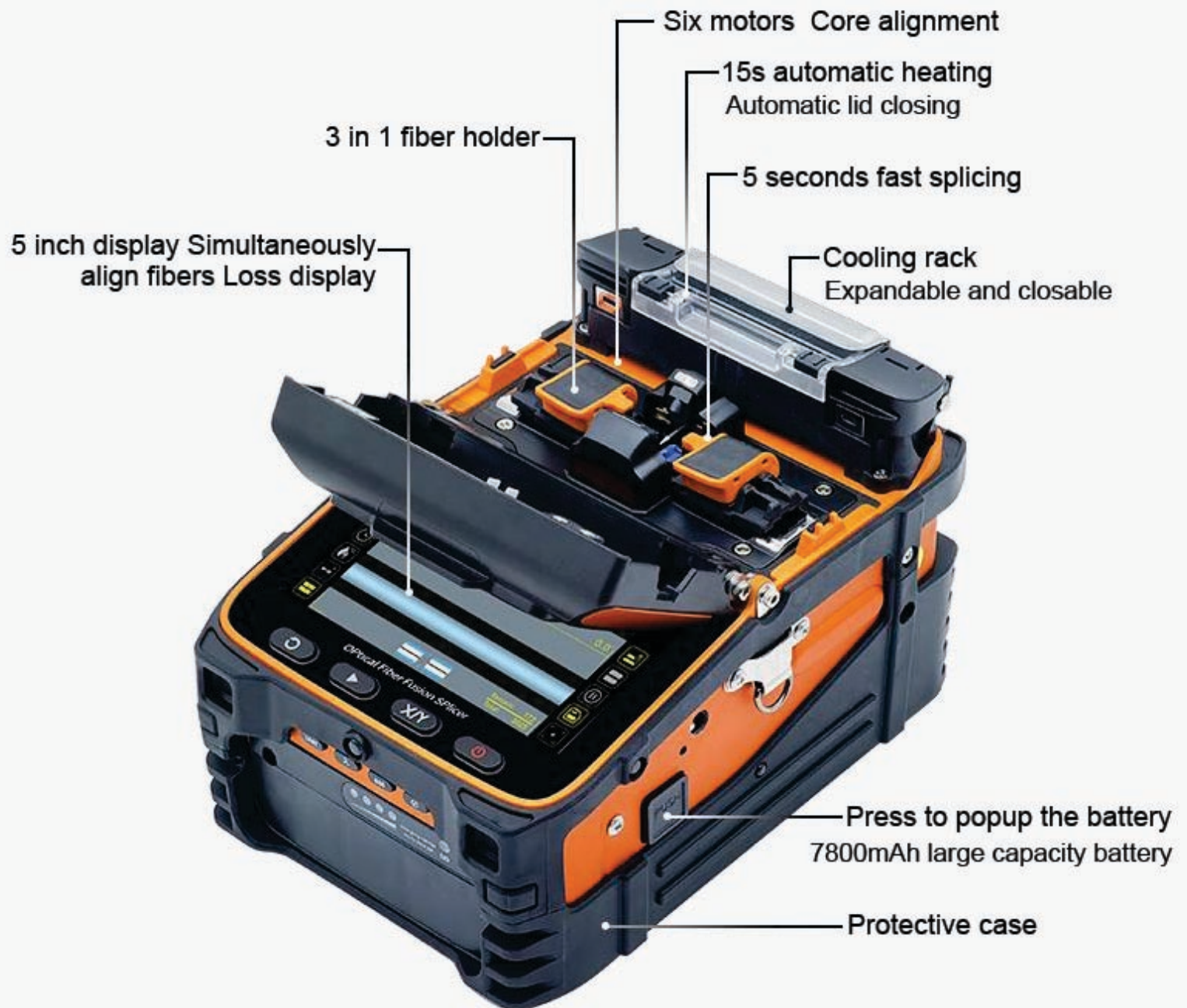
320X
focus
magnification



Industrial CPU, fast response,
It is one of the fastest optical fiber welding
machines on the market
Use 5-inch high-resolution screen, simple and
intuitive operation graphics
Up to 320x focusing magnification makes it
easy to observe the core with the naked eye

AI-9

MASTERPIECE HIGH-END LUXURY

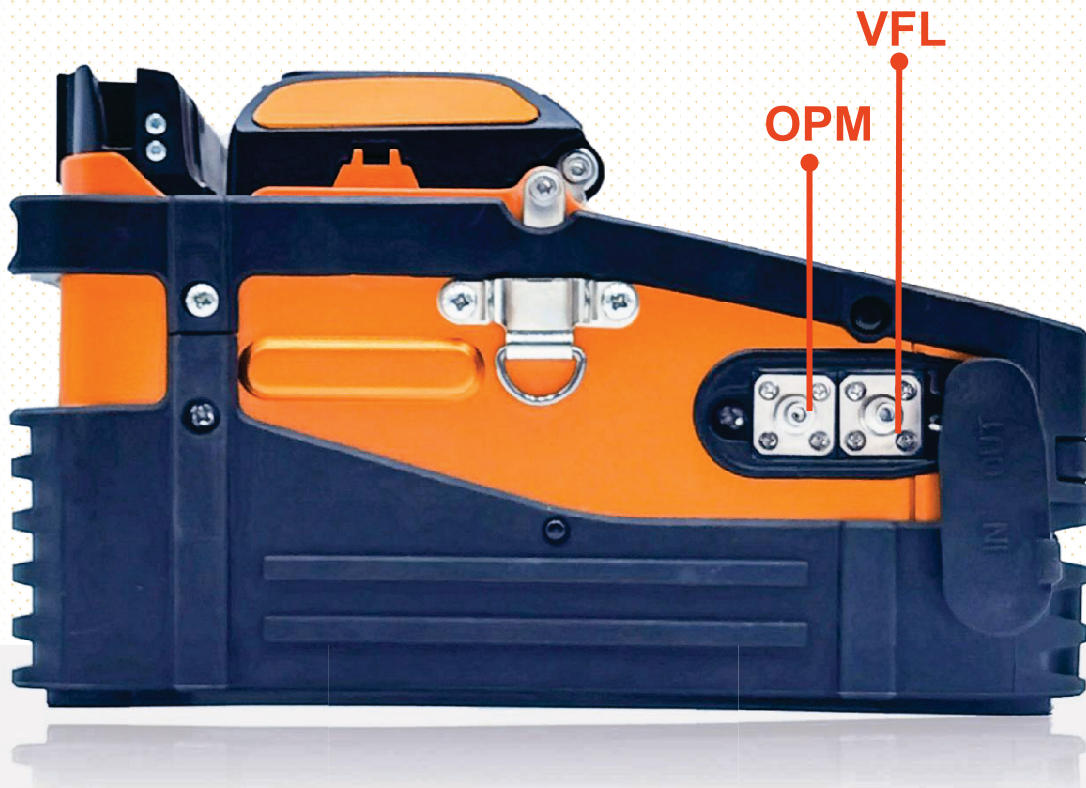


OPTICAL FIBER FUSION SPLICER

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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 ten states

Wavelength: 850nm、1300nm、1310nm
1490nm、1550nm、1625nm、980nm
1270nm、1577nm、1650nm

VFL

Switch between three states

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

The logo consists of a solid orange square to the left of the text "AI-9".

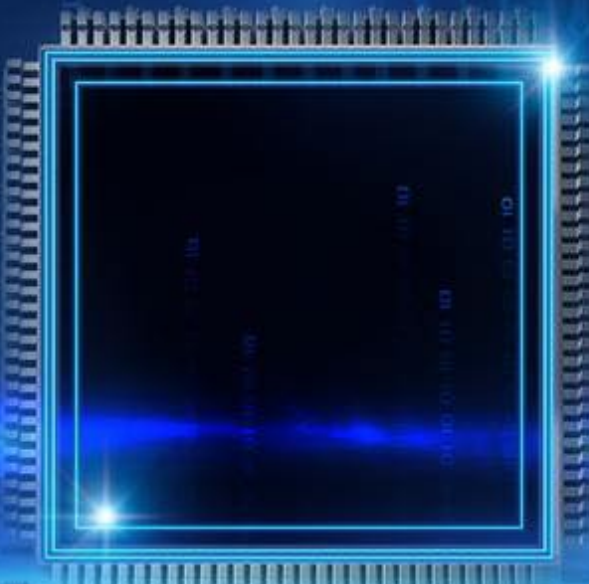
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Industrial quad-core chip CPU

1 second startup will enter the working state
without waiting

A detailed image of a square CPU chip with numerous pins on its sides, set against a background of glowing blue circuit lines and binary code (0s and 1s).

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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

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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

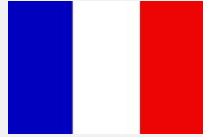
Multilingual Settings, covering the global market



Chinese



English



French



Russian



Italian



Portuguese



Polish



Spanish



Thai



Arabic

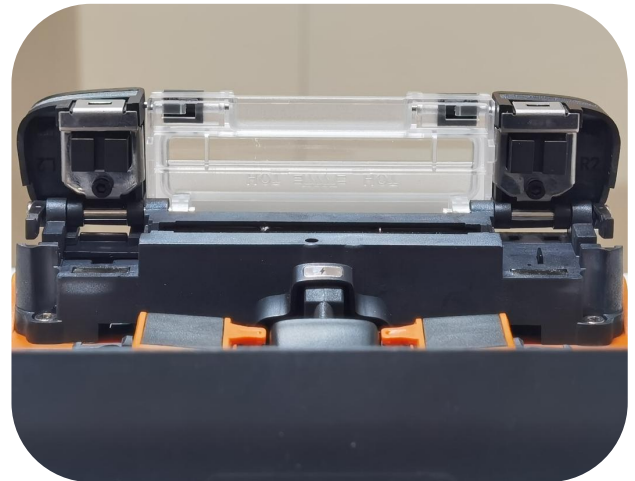
15s automatic heating



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
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Outstanding quality without fear of challenges

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



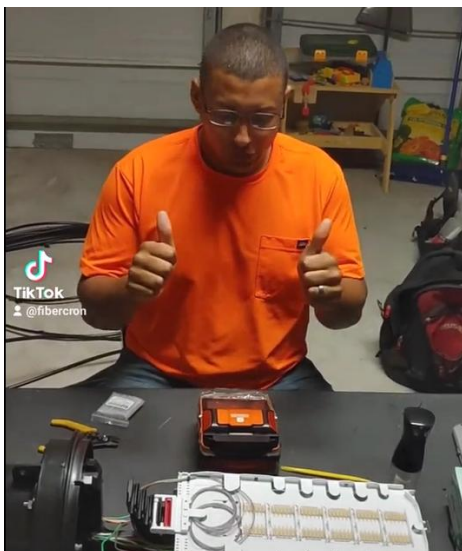
OPTICAL FIBER FUSION SPLICER

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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



Fiber cutting
table

Two layers

Stool can bear: **100KG**

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

OPTICAL FIBER FUSION SPLICER

Fiber alignment	Core/cladding
Motor number	6 motors (accurate of fiber alignment: 0.1μm)
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、980nm、1270nm、1577nm、1650nm/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	320x (X or Y axis single display) , 200x (x and Y axis dual display)
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
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.
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

SIGNAL FIRE STRIPPER

5G FTTH Drop cable

Caliber: 2mm x 1.6mm

Both regular FTTH Drop cable

Caliber: 3mmx2mm

Rotary ruler

FTTH Drop cable steel wire pliers

Can not cut FRP steel wire/else steel wire
Blade maybe will scratch and have trace,
It' s normal and will not influence you to use it
If you are care about this, Then please buy with cautions.

kevlar scissors

(prohibit cutting steel wires)

Three-port Miller stripper

Cleaning cotton



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- ① main engine ② Toolcase ③ Spare electrode ④ S09 Fiber Cleaver
- ⑤ Signal fire stripper
(Including a bag of cleaning cotton) ⑥ Alcohol Bottle ⑦ Brush ⑧ Toolbox strap
- ⑨ Belt ⑩ Power Adapter ⑪ key ⑫ Inner hexagon
- ⑬ User' s manual / Quality Certificate / Warranty Card / Fiber for ARC

OPTICAL FIBER FUSION SPLICER

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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;

< 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 20 40 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



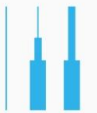
Read Record



Smart lock



heating time



fiber type



discharge correction



Fiber Splicing Set



Optical power meter and optical module



Activate Electrode

< heating time

Pre-heat model
☒

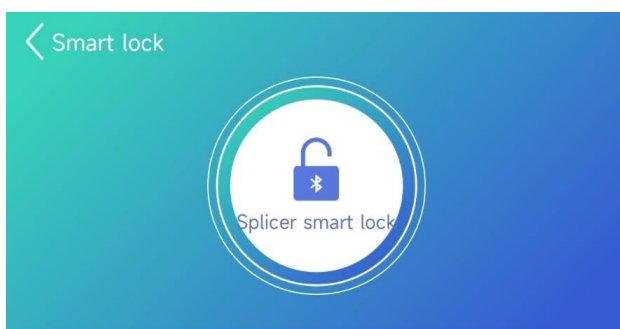
Choose shrinkable tube
Customize >

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



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?](#)

AI-9

INTELLIGENT INTERACTION AVOID TEDIOUS

< Splicing record

 Export EXCEL

Machine number:

Total splicing: 6957

AI-9:V03B20090244

Export latest number c

2022-02-10

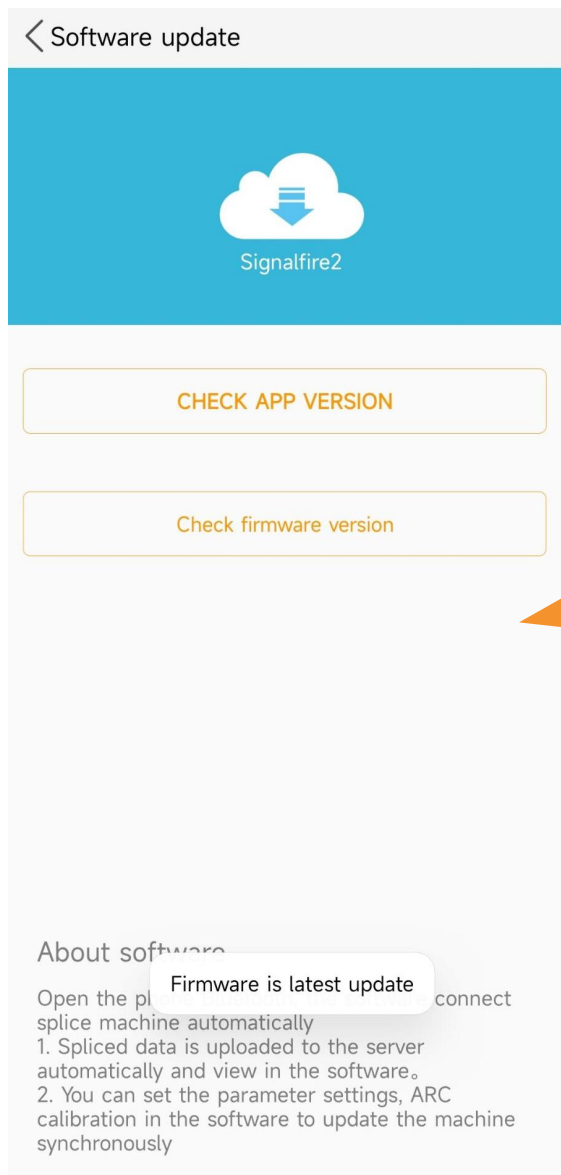
—

2023-06-08

It can be downloaded and exported

Mode/ Number	Splicing loss	Time	Pictures
1	0.01	2023-06-08 10:46:16	
2	0.01	2023-06-08 15:21:50	
3	0.01	2023-06-08 13:20:47	
4	0.00	2023-06-08 13:19:04	
5	0.00	2023-06-08 13:04:43	
6	0.01	2023-06-08 13:02:22	
7	0.01	2023-06-08 12:50:01	
8	0.01	2023-06-08 12:49:14	
9	0.02	2023-06-08 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.



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 9-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.



AI-9



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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OPTICAL FIBER FUSION SPLICER

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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.



Operator winning bid brand



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



AI-9

Exhibition photos



OPTICAL FIBER FUSION SPLICER

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INTELLECTUAL PROPERTY INSPECTION AND CERTIFICATION

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

Anbotek
Product Safety

**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, Lando U Valley, 1111 Changsheng Bridge, Pidu District, Chengdu China
Manufacturer: SIGNAL FIRE TECHNOLOGY CO., LTD.
Address: Building 18, Chengdu Hi-Tech International Enterprise Park, Lando 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
Article 3(1)(a) ■ Health	EN 50663: 2017, EN 62479: 2010
Article 3(1)(b) ■ EMC	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09)
Article 3(2) ■ Radio	ETSI EN 300 328 V2.2.2 (2019-07)

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

Jan. 03, 2023
Date

Certified by

Kingkong Jin

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

Shenzhen Anbotek Compliance Laboratory Limited
1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518128
Tel: (86)755-2606440 Fax: (86)755-26014772
http://www.anbotek.com Email: service@anbotek.com

CERTIFICATE

Anbotek
Product Safety

**CERTIFICATE
Of Conformity**
Radio Equipment Regulations 2017
(SI 2017 No. 1206)

Certificate No.: AT18220WC202820
Certificate Holder: SIGNAL FIRE TECHNOLOGY CO., LTD.
Address: Building 18, Chengdu Hi-Tech International Enterprise Park, Lando U Valley, 1111 Changsheng Bridge, Pidu District, Chengdu China
Manufacturer: SIGNAL FIRE TECHNOLOGY CO., LTD.
Address: Building 18, Chengdu Hi-Tech International Enterprise Park, Lando U Valley, 1111 Changsheng Bridge, Pidu District, Chengdu China
Product Name: OPTICAL FIBER FUSION SPLICER
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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
CHAPTER 1 (General)(1)(a) ■ Safety	BS EN IEC 62368-1:2020+A11:2020
CHAPTER 1 (General)(1)(a) ■ Health	BS EN 50663: 2017, BS EN 62479: 2010
CHAPTER 1 (General)(1)(b) ■ EMC	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09)
CHAPTER 1 (General)(2) ■ Radio	ETSI EN 300 328 V2.2.2 (2019-07)

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

Jan. 03, 2023
Date

Certified by

Kingkong Jin

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

Shenzhen Anbotek Compliance Laboratory Limited
1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518128
Tel: (86)755-2606440 Fax: (86)755-26014772
http://www.anbotek.com Email: service@anbotek.com

TCB

**GRANT OF EQUIPMENT
AUTHORIZATION**
Certification
Issued Under the Authority of the
Federal Communications Commission
By:

LGAI Technological Center S.A. (APPLUS)
Ronda de la Font del Carme, s/n
P.O.
Box 08193,
Barcelona,
Spain

Date of Grant: 01/17/2024
Application Dated: 01/17/2024

Signal Fire Technology Co., Ltd.
No.8-6 Qingyang Zone, Jiaolong 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: ZAB9B-AI-10A
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 Watts	Frequency Tolerance	Emission Designator
	15C	2402.0 - 2480.0	0.00193		

Output power listed is conducted. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons. End-users must be provided with operating procedures for satisfying RF exposure compliance.

EACC

**QUALITY MANAGEMENT
SYSTEM CERTIFICATE**

Certificate No.: 11423Q45347R2M
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, Hongguang Town, Small and Micro Enterprise Innovation Park, North Area of Chengdu Modern Industrial Port, Pidu District, Chengdu
Production Office Address: Building 18, Chengdu High-tech International Enterprise Park, Lando 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. 11, 2023
Date of expiry: Jul. 30, 2026

Issued by:
Beijing East Allreach Certification Center Co., Ltd.

EACC **IAF** **CNAS**

The certificate will remain valid only if the certified organization accepts surveillance audit at regular intervals and is entitled to be qualified. The information of this certificate is available at EACC website (www.eacc.com.cn) and CNCA's official website (www.cnca.gov.cn), and it is also available by scanning the QR Code in the lower right corner.
Address: 1st Floor, No. 121 Building, No. 17, Jingchengmen Street, Jingcheng Science & Technology Industrial Base, Tangshan Park of Zhongguancun Science & Technology Zone, Tangshan District, Beijing 101102

OPTICAL FIBER FUSION SPLICER

United States of America
United States Patent and Trademark Office



Reg. No. 7,197,549
Registered Oct. 17, 2023
Int. Cl.: 7
Trademark
Principal Register

Signal Fire Technology Co., Ltd. (CHINA limited company (Ltd.))
No.1111 Changsheng Bridge, Hongguang Town
Small and Micro Enterprise Innovation
Park, Pidu Dist., Chengdu, CHINA 611730

CLASS 7: Cutting machines; Electric arc cutting apparatus; Electric arc welding apparatus; Electric shearing machines; Electric welding machines; Electrodes for welding machines; Gear cutting and finishing machines; Knives, electric; Soldering apparatus, electric

FIRST USE 6-15-2014; IN COMMERCE 6-15-2014

The mark consists of the stylized wording "Signal fire" with a rainbow bridge above the stylized letters "signal fi".

SER. NO. 97-339,851, FILED 03-31-2022



Katherine Kelly Vidal
Director of the United States
Patent and Trademark Office



Registered / Eingetragen 04/12/2023
No 016680238



The Executive Director / Der
Exekutivdirektor
João Negro

EU IPO
EUROPEAN UNION INTELLECTUAL PROPERTY
OFFICE
CERTIFICATE OF REGISTRATION

The Certificate of Registration is hereby issued for the
European Union trade mark identified below. The
corresponding entries have been recorded in the
Register of European Union trade marks.

AMT DER EUROPÄISCHEN UNION FÜR GEISTIGES
EIGENTUM
EINTRAGSURKUNDE

Diese Eintragungsurkunde wird für die unten
angeführte Unionenmarke ausgestellt. Die betreffenden
Angaben sind in das Register der Unionenmarken
eingetragen worden.



www.euiipo.europa.eu


Australian Government
IP Australia

**CERTIFICATE OF REGISTRATION
TRADE MARK**

Trade mark number: 2341304

The Registrar of Trade Marks has registered the trade mark represented on this certificate on 23 October 2023 and certifies that the following particulars have been entered in the Register of Trade Marks.

Name and address of owner(s):
Signal Fire Technology Co., Ltd. of No.1111 Changsheng Bridge, Hongguang Town, Small and Micro Enterprise Innovation Park, Pidu Dist., Chengdu, Sichuan, 611730 China

The trade mark is registered in the following class(es):
7

Date of filing: 13 March 2023
Registered from: 13 March 2023
Registration expires on: 13 March 2033
Representation:



Goods and/or services, and other information relating to the registration of this trade mark are listed on the following pages.



Dated this 23rd day of October 2023
Registrar of Trade Marks

TRADE MARKS ACT 1995
The Australian Trade Marks Register is the official record and should be referred to for the full details pertaining to this IP Right

РОССИЙСКАЯ ФЕДЕРАЦИЯ



СВИДЕТЕЛЬСТВО
на товарный знак (знак обслуживания)
№ 991737



Правообладатель: Сигнал Файер Текнолоджи Ко. Лтд., №1111,
Чангшенг Бридж, Хонгуанг Таун, Смол энд Микро
Интерпрайз Инновейшн Парк, Пиду Дистрикт, Чэнду,
Сычуань, Китай (CN)

Заявка № 2023720455
Приоритет товарного знака 16 марта 2023 г.
Зарегистрировано в Государственном реестре
товарных знаков и знаков обслуживания
Российской Федерации 11 января 2024 г.
Срок действия регистрации истекает 16 марта 2033 г.

Руководитель Федеральной службы
по интеллектуальной собственности
Ю.С. Зубов



AI-9

INTELLECTUAL PROPERTY
INSPECTION AND CERTIFICATION

 **Einheitspatent | UNITARY PATENT**
Brevet unitaire

Hiermit wird bescheinigt, dass die einheitliche Wirkung für das nachstehende europäische Patent im Register für den einheitlichen Patentschutz eingetragen wurde.

It is hereby certified that unitary effect has been registered in the Register for unitary patent protection for the European patent indicated below.

Il est certifié que l'effet unitaire a été inscrit au Registre de la protection unitaire conférée par un brevet pour le brevet européen ci-dessous.

Europäisches Patent Nr.
European patent No.
Brevet européen n°

EP4024101

Tag der Eintragung
Date of registration
Date d'inscription

03.09.2024

Territorialer Geltungsbereich
Territorial scope
Champ d'application territoriale

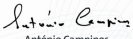
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT RO SE SI

Tag des Eintritts der Wirkung
Date of effect
Date de prise d'effet

14.08.2024

Patentinhaber | Proprietor(s) of the patent | Titulaire(s) du brevet

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Präsident des Europäischen Patentamts | President of the European Patent Office | Président de l'Office européen des brevets
München, den | Munich, | Munich, le **03.09.2024**

URKUNDE | CERTIFICATE | CERTIFICAT



EP4024101/2024

 **EUROPEAN UNION INTELLECTUAL PROPERTY OFFICE**
CERTIFICATE OF REGISTRATION

This Certificate of Registration is hereby issued for the Registered Community Design identified below. The corresponding design is registered in the Register of Community Designs.

AMT DER EUROPÄISCHEN UNION FÜR GEISTIGES EIGENTUM
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Registered / Eingetragen 17/03/2023

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Date **03.09.2024**

Reference **P4099EUEP** Application No./Patent No.
19945932.2 / 4024101

Proprietor
Signal Fire Technology Co., Ltd.

European patent with unitary effect

Communication of the date of registration of unitary effect pursuant to Rule 7(1) UPR

The request for unitary effect received at the EPO on 21.08.24 meets the requirements of Rules 5(2) and 6 UPR.

The unitary effect of European patent No. EP4024101 was registered in the Register for unitary patent protection on 03.09.24.

Date of effect

Under Article 4(1) Regulation (EU) No 1257/2012, the European patent with unitary effect takes effect in the participating Member States on the date of publication of the mention of the grant of the above European patent in the European Patent Bulletin, i.e. on 14.08.24.

Territorial scope

Pursuant to Article 18(2) Regulation (EU) No 1257/2012, by way of derogation from Articles 3(1), 3(2) and 4(1), a European patent for which unitary effect is registered has unitary effect only in those participating Member States in which the Unified Patent Court has exclusive jurisdiction with regard to European patents with unitary effect at the date of registration. For the above European patent with unitary effect, the participating Member States at the date of registration are:

AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT RO SE SI

For proprietor(s):
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The registration will be published in the European Patent Bulletin under Section IV.2(1).

Registered Letter
EPO Form 7030 01.22

page 1 of 2

Date _____ Application No./Patent No. **19945932.2 / 4024101**

For the Unitary Patent Protection Division



NOTES RELATING TO THE REGISTRATION OF UNITARY EFFECT

1. Unitary Patent Guide

This guide – available on the EPO website – provides useful information on European patents with unitary effect.

2. Payment of renewal fees for European patents with unitary effect

2.1 Under Rule 13(1) to (3) UPR, renewal fees for European patents with unitary effect and additional fees for their late payment are to be paid to the EPO. Those fees are due in respect of the years following the year in which the mention of the grant of the European patent which benefits from unitary effect is published in the European Patent Bulletin.

2.2 Under Rule 13(4) UPR, a renewal fee in respect of a European patent with unitary effect falling due within three months of the notification of the communication referred to in Rule 7(1) UPR may still be paid within that period of three months without an additional fee.

2.3 Moreover under Rule 13(5) UPR, a renewal fee for a European patent with unitary effect which would have fallen due under Rule 13(2) UPR in the period starting on the date of publication of the mention of the grant of the European patent in the European Patent Bulletin up to and including the date of the notification of the communication referred to in Rule 7(1) UPR is due on that latter date. This fee may still be paid within three months of that latter date without the additional fee referred to in Rule 13(3) UPR.

For further details you are recommended to consult the above-mentioned Unitary Patent Guide.

3. Effect of revocation or limitation of the European patent

Under Article 3(3) Regulation (EU) No 1257/2012, the unitary effect of a European patent is deemed not to have arisen to the extent that the European patent has been revoked or limited.

EPO Form 7030 01.22

page 2 of 2