



# AI-9

OPTICAL FIBER FUSION SPLICER

# Product Manual

### Suitable for medium to long-distance trunk fiber optic cable fusion projects

**6 motors**  
Fiber core alignment

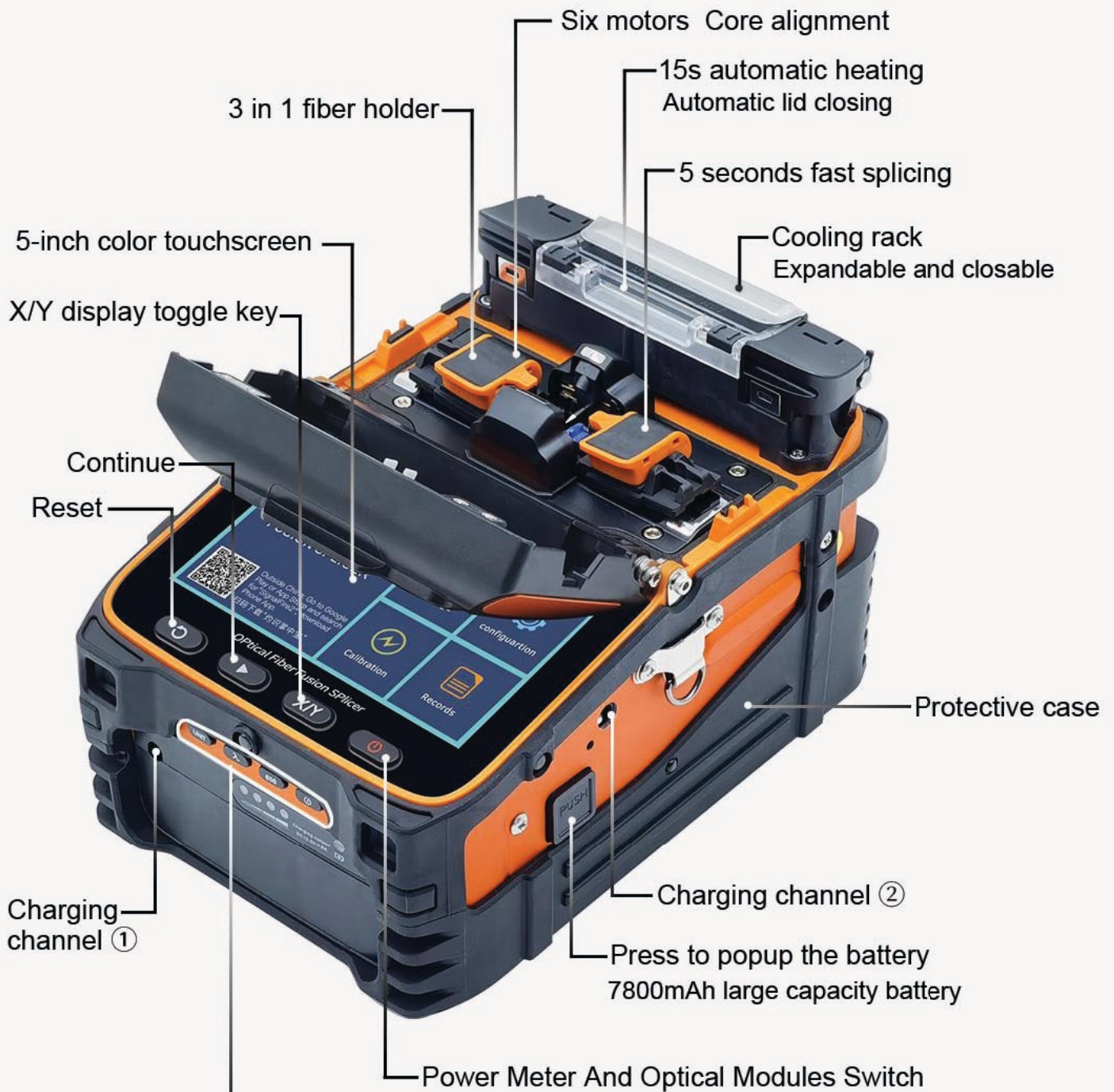


- ✓ 5s splicing/15s heating
- ✓ Built-in OPM&VFL

**0.1**  $\mu\text{m}$   
Fiber alignment accuracy

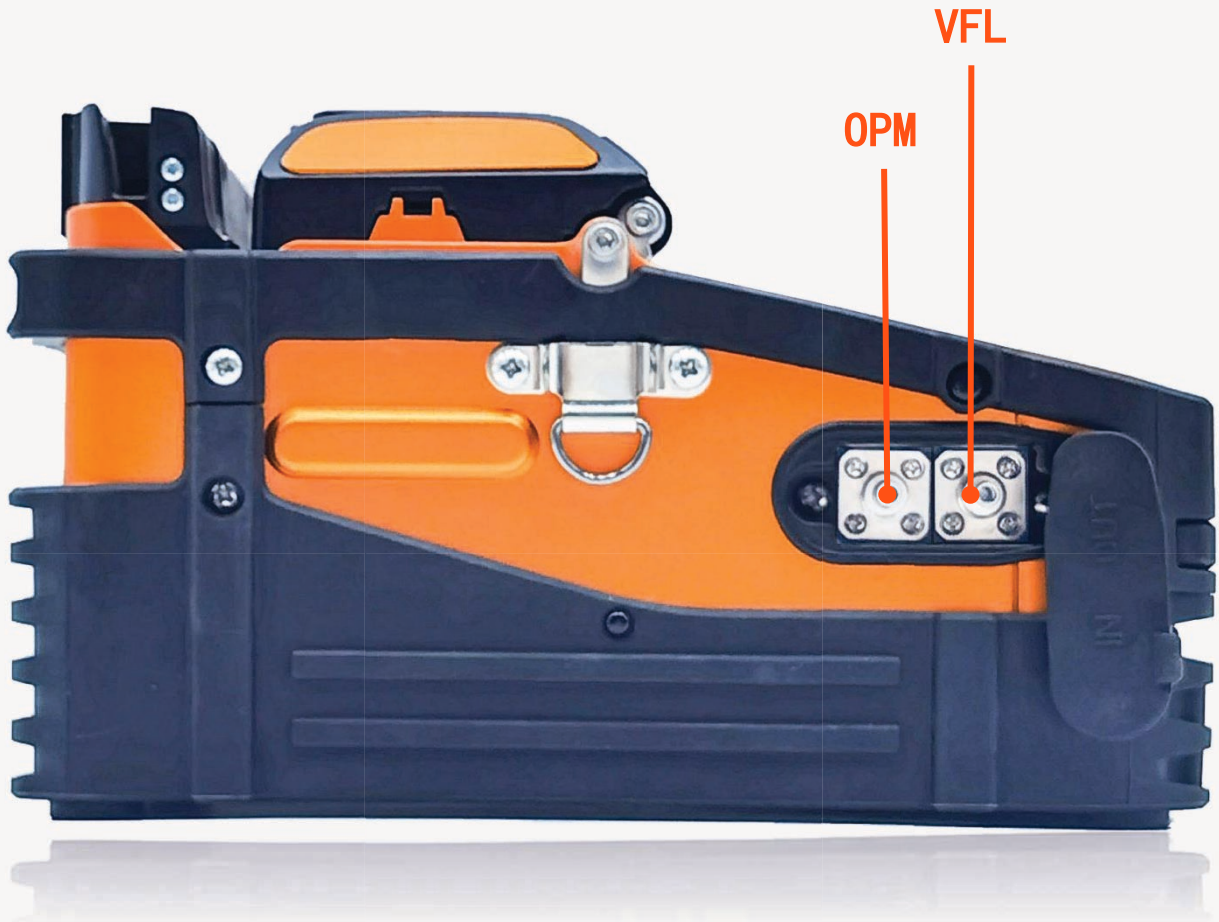


AI-9 is a fully automatic, mainline fiber optical fusion splicer with six motors and fiber core alignment, capable of welding long-distance fiber optic lines. Also within VFL and OPM function. Adopting industrial grade CPU, with fast running speed, 5S rapid fusion welding, 15S rapid heating, 5-inch color touchscreen, 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.



Key for OPM & VFL

## 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

### 5-inch color touchscreen

Intuitive operation, easily accessible with just one touch



### Industrial-grade CPU

1 second startup

Sensitive response/Smooth experience

# Touch screen menu



11 languages to switch freely

language

<input type="checkbox"/> 中文	<input checked="" type="checkbox"/> English	<input type="checkbox"/> Português
<input type="checkbox"/> Français	<input type="checkbox"/> Русский	<input type="checkbox"/> Español
<input type="checkbox"/> Polski	<input type="checkbox"/> ภาษาไทย	<input type="checkbox"/> عربي
<input type="checkbox"/> Italiano	<input type="checkbox"/> українська	

↶



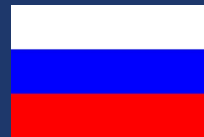
Chinese



English



French



Russian



Italian



Ukrainian



Portuguese



Polish



Spanish



Thai



Arabic



### Configuration

Fiber type

SM    MM    AUTO    G654E  
 BIF    80um    NZ    DS

Auto power off    15min  

Heating time    15S  

Heater Pre-heating  

Pause splicing process  

Auto-focus  

Activate battery  

Self test  

Angle check    3.0°  

Endface check     
 Basic    Standard    Precision

Tensile test  

Factory restoration  

Cleaver adjustment  

Replace blade assembly  

Screen brightness    10  

Help  

Whatsapp:+86 191\*\*\*\*\*  
Skype: live:.cid.2\*\*\*\*\*  
Email:technicalsupport@\*\*\*\*\*

This account only for after sales,technical support and Using guide.  
Refuse any questions about the selling, if you wanna buy machine,  
please ask your machine provider.

For more support:  
Go to Google Play or App Store and search for“SignalFire2”,download Phone  
App.

Firmware version: Main:v12 Fpga:V12 Ctrl:V12



### Records

No	Time	loss
000007	2025-11-10 14:26	0.00 dB
000006	2025-11-10 14:25	0.01 dB
000005	2025-11-10 14:24	0.01 dB
000004	2025-11-10 14:22	0.00 dB
000003	2025-11-10 14:22	0.02 dB
000002	2025-11-10 14:21	0.01 dB
000001	2025-11-10 14:20	0.00 dB



# 7800mAh lithium battery

**Dual charging channel**

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



**Charging channel ②**

**Press to popup the battery**

**Charging channel ①**

The battery can be removed and charged separately

# Charging time $\leq 3.5$ hours

In full state, 260 cores can be continuously fused and heated

### Charging mouth

Input voltage :  $13.5 \pm 0.5V$

Input current : 4.8A

### Power indicator light

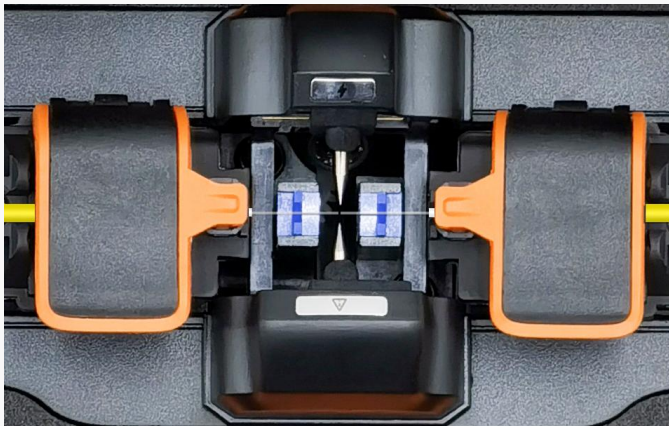
### Charge indicator light

Press to  
check the  
power level

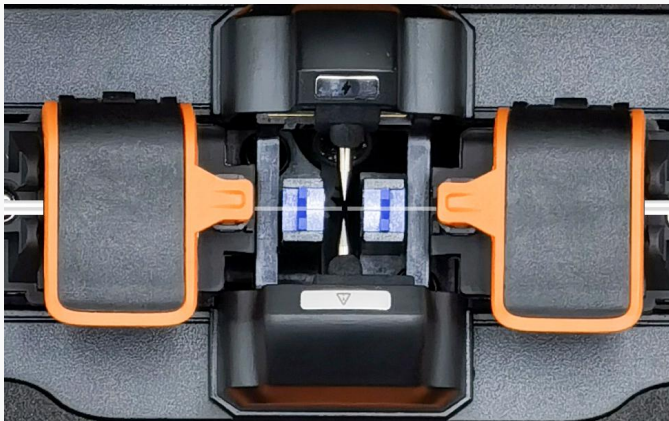


### 3-in-1 universal fixture

SM, MM, bare fiber, pigtail, Drop cable , multi fiber cable



Jumper  
fiber  
(pigtail)



Drop cable



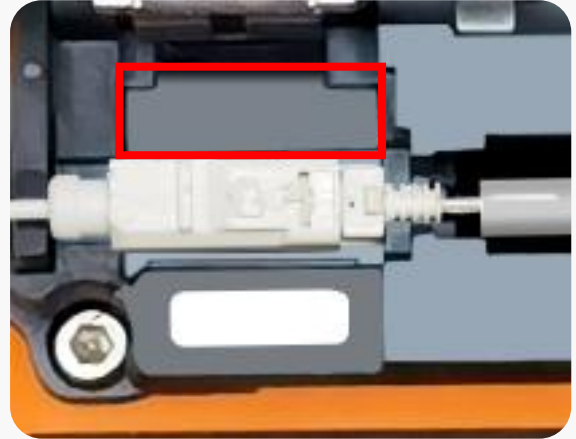
Bare fiber

- **Activate preheating function in winter**



The fiber fusion is successful. At the same time as opening the windproof cover, the heating tank automatically starts preheating for 6 seconds.

- **Heating part compatible with SC fiber**



SC Fiber: Push up  
Ordinary fiber: Push down

- **Heating part automatic lid closing**



- **Cooling rack Expandable and closable**



- **Dust prevention/fall prevention/shock prevention**



- **Metal machine body movement quality guaranteed**



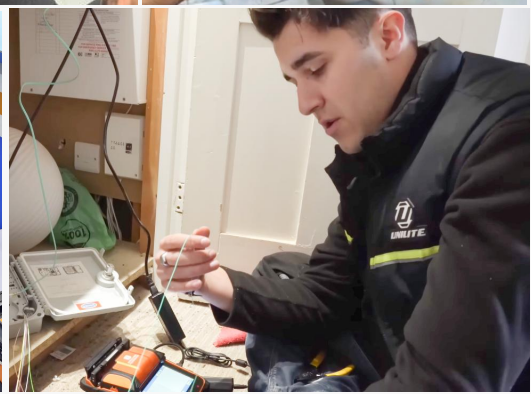
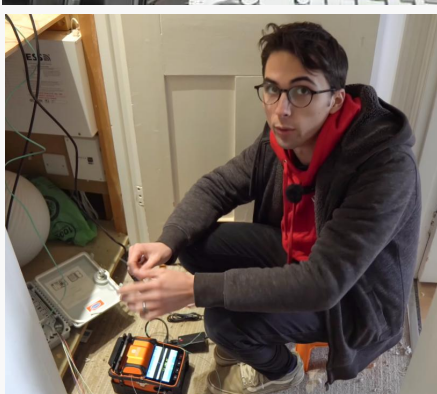
# Outstanding quality without fear of challenges

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



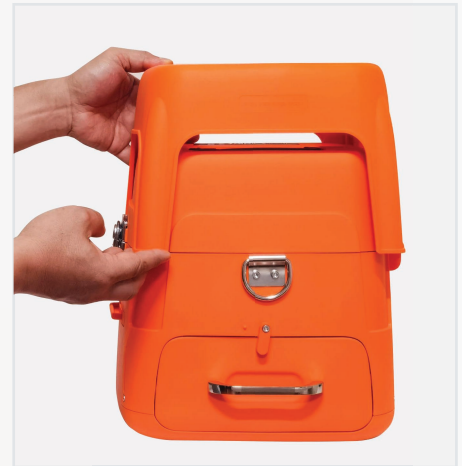
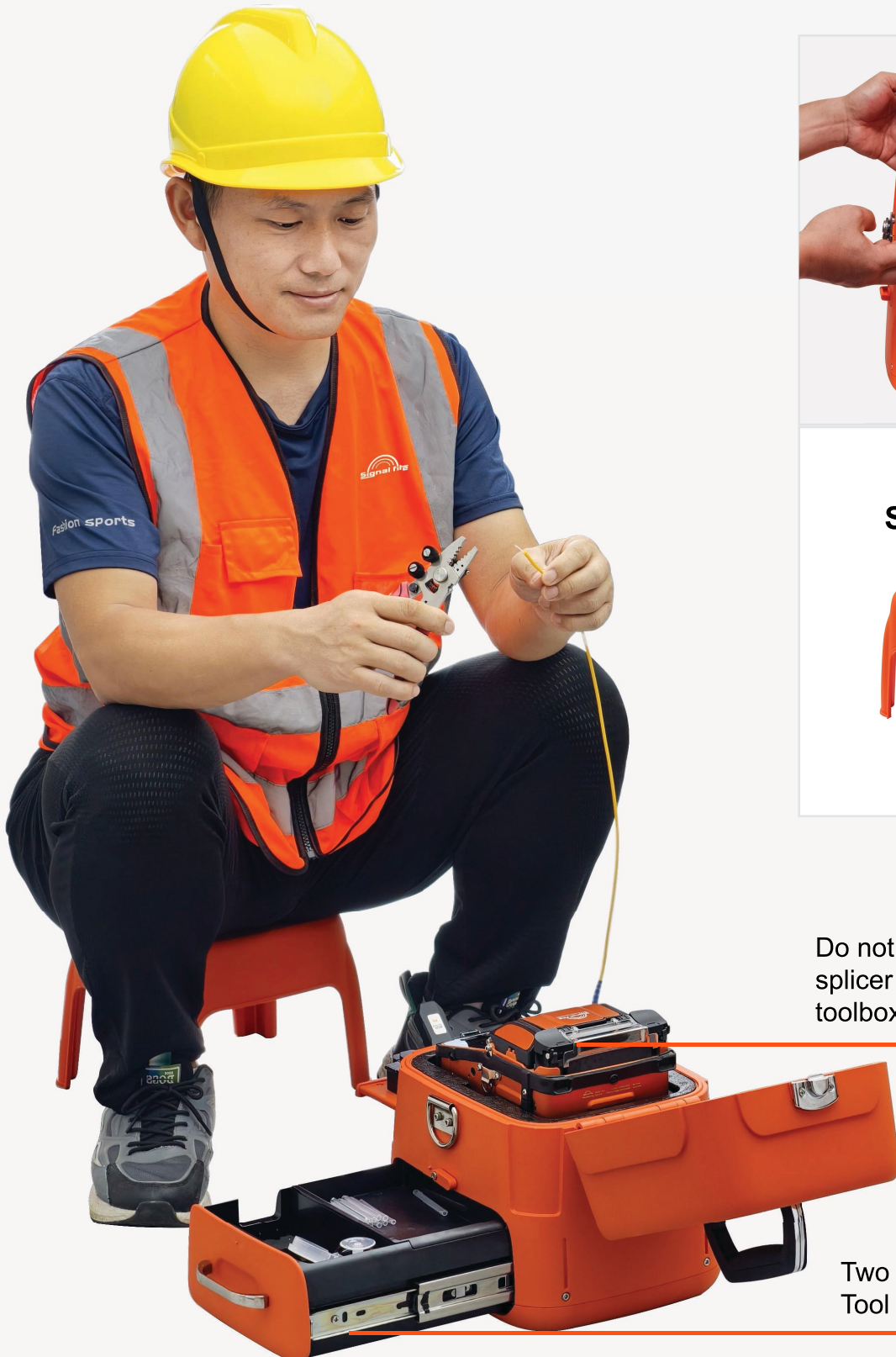
# Exported to over 100 countries and regions worldwide

Get unanimous praise from customers!



# Toolbox with stool

comes with a stool to facilitate the construction workers



**100KG**  
Stool can bear



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

Two layers:  
Tool layer&Accessory layer

### Size and weight



#### Machine weight

**2.10kg** (with battery)

**1.68kg** (without battery)



#### Toolbox weight

**6.95kg**

(including machine and accessories)



#### Total weight

**8.20kg**

# Basic parameter

<b>Fiber alignment</b>	Core/cladding
<b>Motor number</b>	6 motors (accurate of fiber alignment: 0.1 $\mu$ m)
<b>Splicing time</b>	5s
<b>Heating mode</b>	15s, can be customized according to the external environment
<b>Fiber type</b>	Single-mode fiber (SMF/G.652), multimode fiber (MMF/G.651), dispersion-shifted fiber (DSF/G.653), G.654 fiber, non-zero dispersion-shifted fiber (NZ-DSF/G.655), and bend-insensitive fiber (BIF/G.657); suitable for splicing bare fiber, pigtail, drop fiber, patch cord, and invisible fiber.
<b>The cladding diameter</b>	80-150 $\mu$ m
<b>Splicing loss</b>	0.02dB (SM) 、0.01dB (MM) 0.04dB (DS/NZDS)
<b>Splicing mode</b>	Automatic focusing core alignment, conventional/high precision welding
<b>Splicing way</b>	Automatic, semi-automatic
<b>Fiber holder</b>	Three in one fixture, no need to change, suitable for single/multi-mode, multi-core cable/bare fiber, tail fiber, jumper fiber, drop cable
<b>VFL</b>	The machine comes with: power: 15mW, 2Hz flashing and steady on mode
<b>OPM</b>	Wavelength: 850nm、1300nm、1310nm、1490nm、1550nm、1625nm、980nm、1270nm、1577nm、1650nm/Measurement range: -50+26dbm Absolute error: <0.3dB (-50dbm ~+3dBm range)
<b>Battery capacity</b>	7800mAh large capacity lithium battery charging time $\leq$ 3.5; It can continuously weld and heat about 260 cores
<b>Magnification</b>	320x (X or Y axis single display) , 200x (x and Y axis dual display)
<b>Fiber diameter</b>	Coating diameter: 80-150 $\mu$ m/Coating diameter: 100-1000 $\mu$ m
<b>Cutting length</b>	Coating layer 250 $\mu$ m below: 8-16mm/coating layer 250-1000 $\mu$ m: 16mm
<b>Heat shrink tube</b>	60mm、50mm、40mm、25mm
<b>Tensile testing</b>	standard 2N
<b>Display</b>	5-inch color touchscreen
<b>Boot time</b>	1s, boot can enter the working mode
<b>Data is stored</b>	Unlimited, machine storage 1000 groups, the excess part can be stored in the server, can export data.
<b>Wireless communication</b>	Based on bluetooth 4.2 protocol standard, the working band is 2.4GHz, the maximum transmission range is 60m
<b>Software upgrade</b>	Mobile phone APP Internet update, enable Bluetooth synchronization upgrade machine software
<b>Management function</b>	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.
<b>Return loss</b>	Better than 60 db
<b>Product protection</b>	Waterproof, dustproof and fall proof
<b>Power supply</b>	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
<b>The work environment</b>	Temperature: -15 ~ +50 $^{\circ}$ C, humidity: < 95%RH (no condensation), working altitude: 0 ~ 5000m, maximum wind speed: $\leq$ 15m/s

# Standard Configuration



- ① Fusion Splicer    ② Toolcase    ③ Spare electrode    ④ S12 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 / Fiber for ARC calibration / Warranty Card

### 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 )

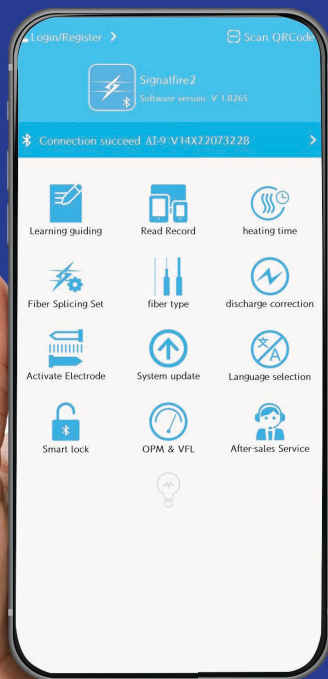
#### Three-port Miller stripper

#### Cleaning cotton



# Support bluetooth Bluetooth connection

Intelligent interaction, avoid tedious

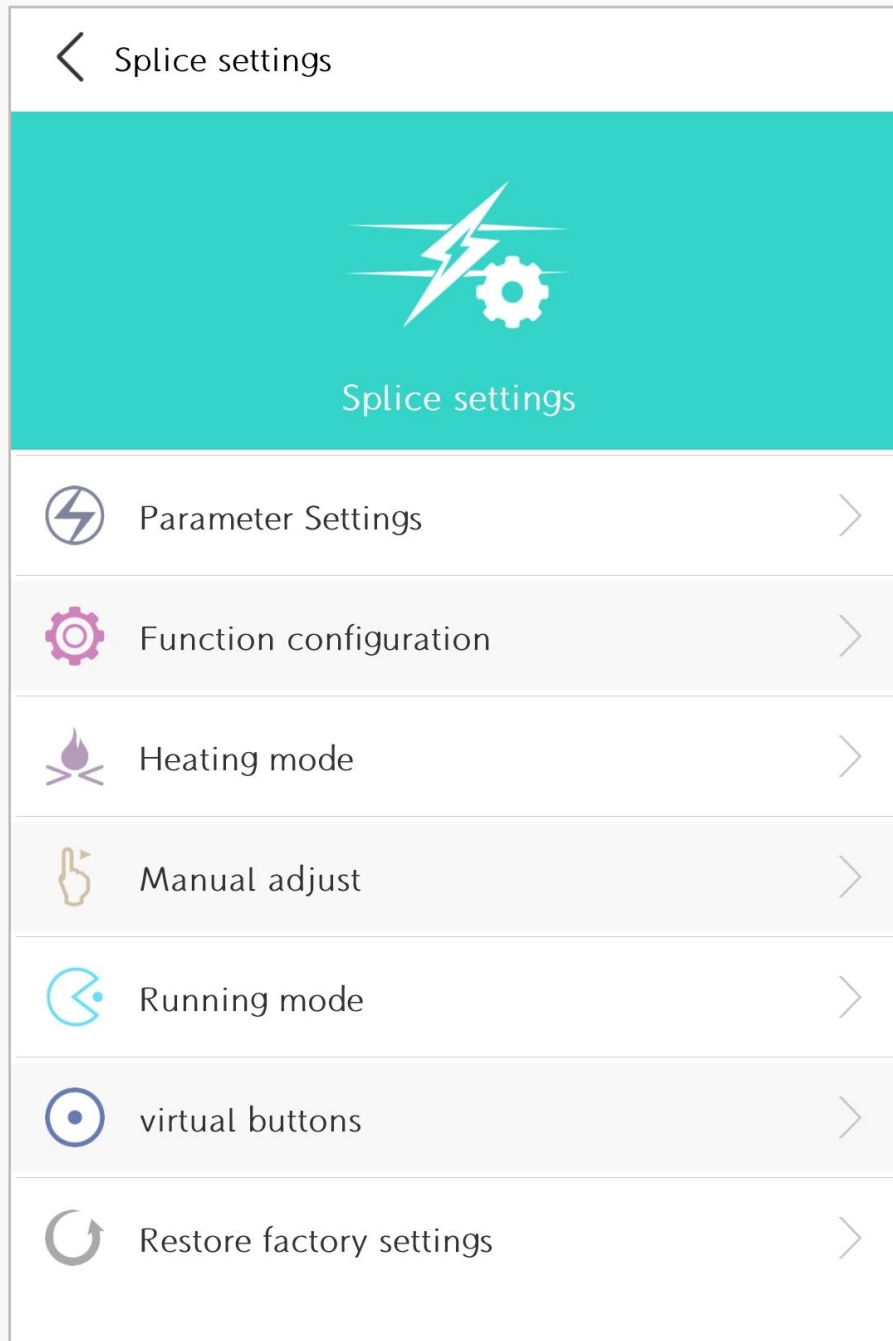


## Bluetooth™

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;



Most of the menu settings for the fusion splicer can be operated through touch screen on the device Okay, but the mobile app has more comprehensive applications. Please download it!

# SERVICE COMMITMENT

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

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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.





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.







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



### Exhibition photos



## Product testing certificate

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 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09)	Yes
Article 3(2) ■ 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

**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)755-26056440 Fax: (86)755-26014772  
Http://www.anbotek.com Email: service@anbotek.com

CERTIFICATE

CERTIFICATE



**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, 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  
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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)	Yes
CHAPTER 1 General(2) ■ 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

**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)755-26056440 Fax: (86)755-26014772  
Http://www.anbotek.com Email: service@anbotek.com

CERTIFICATE

TCB

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

LGAJ Technological Center S.A. (APPLUS)  
Ronda de la Font del Carme, s/n -080-970.  
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

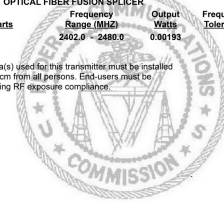
Attention: Jason Yang

**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:** 2AB98-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 200mm from all persons. End-users must be provided with operating procedures for satisfying RF exposure compliance.



TCB



**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, Hongqiang 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, 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/T19001-2015/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. 31, 2026

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






The certificate will remain valid only if the certified organization accepts surveillance audits at regular intervals and is audited for compliance. The maintenance of this certificate is available in ENCL. website (www.eacc.com.cn) and CNCA's official website (www.cnca.gov.cn), and it's also available by scanning the QR Code in the lower right corner.  
Address: 1st Floor, No. 121 Building, No. 17, Fengshengmen Street, Beijing Science & Technology Industrial Base, Tongshan Park of Changping Science & Technology Zone, Tongshan District, Beijing 101312



## International Patent



*United States of America*

*To Promote the Progress of Science and Useful Arts*

*The Director*  
of the United States Patent and Trademark Office has received an application for a patent for a new, original, and ornamental design for an article of manufacture. The title and description of the design are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the design shall be granted under the law.

*Therefore, this United States*

# Patent

grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the design throughout the United States of America or importing the design into the United States of America for the term set forth by law.

*Cole Morgan Smith*  
ACTING DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



**EUROPÄISCHES PATENT | EUROPEAN PATENT  
BREVET EUROPÉEN**

Hiermit wird bescheinigt, dass für die in der Patentschrift beschriebene Erfindung ein europäisches Patent für die in der Patentschrift bezeichneten Vertragsstaaten erteilt worden ist.  
It is hereby certified that a European patent has been granted in respect of the invention described in the patent specification for the Contracting States designated in the specification.  
Il est certifié par la présente qu'un brevet européen a été délivré pour l'invention décrite dans le fascicule de brevet, pour les États contractants désignés dans le fascicule.

Europäisches Patent Nr. / Tag der Bekanntmachung des Hinweises auf die Erteilung des europäischen Patents / Date of publication of the mention of the grant of the European patent / Date of publication of the mention of the délivrance du brevet européen  
European patent No. / München, den / Munich, | Munich, le / 14.08.2024  
Brevet européen n°

**EP4024101** **14.08.2024**

**OPTICAL FIBER FUSION SPLICER**  
Patentinhaber | Proprietor(s) of the patent | Titulaire(s) du brevet

Signal Fire Technology Co., Ltd.  
No. B-6 Qingyang Zone  
Jiaolong Industrial Park  
Qingyang District  
Chengdu, Sichuan 610015  
CN

*António Campino*  
António Campino  
Präsident des Europäischen Patentamts | President of the European Patent Office | Président de l'Office européen des brevets  
München, den / Munich, | Munich, le / 14.08.2024

URKUNDE | CERTIFICATE | CERTIFICAT



European Patent Office  
82280 MUNICH  
GERMANY

Questions about this communication?  
Contact Customer Services at [www.epo.org/contact](http://www.epo.org/contact)

Date: 03.09.2024

Reference: P9499EUEP / 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): Signal Fire Technology Co., Ltd.  
No. B-6 Qingyang Zone  
Jiaolong Industrial Park  
Qingyang District  
Chengdu, Sichuan 610015  
CN

Represented by: Lerner, Christoph  
Novo Haus - Design Offices  
Luisa-Ullrich-Strasse 14  
80636 München  
DE

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



Registered / Eingetragen 17/03/2023  
No 015014933-0001

*Christian Archambeau*  
The Executive Director / Der Exekutivdirektor

AMT DER EUROPÄISCHEN UNION FÜR  
EUROPÄISCHES  
EINTRAGUNGSPATENTURKUNDE

Diese Eintragungsurkunde wird für das unten genannte europäische Patent mit Einheitlicher Wirkung ausgestellt. Die entsprechenden Einträge sind in das Register für Gemeinschaftspatente mit Einheitlicher Wirkung eingetragen worden.


EUROPEAN UNION INTELLECTUAL  
PROPERTY OFFICE  
CERTIFICATE OF REGISTRATION

This Certificate of Registration is hereby issued for the corresponding entries listed below. The Registered Community Design identified below, the corresponding entries have been recorded in the Register of Community Designs.

www.euipo.europa.eu

## International trademark

**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 shears; 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 "ignif".

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 018660238



The Executive Director / Der  
Ezekutivdirektor  
*Joko Negrão*  
Joko Negrão

EU IPO  
INTELLECTUAL PROPERTY OFFICE

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

This 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  
angegabene Unionenmarke ausgestellt. Die betreffenden  
Angaben sind im Register der Unionenmarken  
eingetragen worden.

www.euipo.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):**  
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**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 23<sup>rd</sup> 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, Чангшэн Бридж, Хонгуанг Таун, Мал энд Микро Интерпрайз Инновейшн Парк, Пиду Дистрикт, Чэнду, Сычуань, Китай (СН)**

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*  
Ю.С. Зубов

