



AI-6C

OPTICAL FIBER FUSION SPLICER



Six motors



Core alignment

8s

8 seconds fast splicing

18s

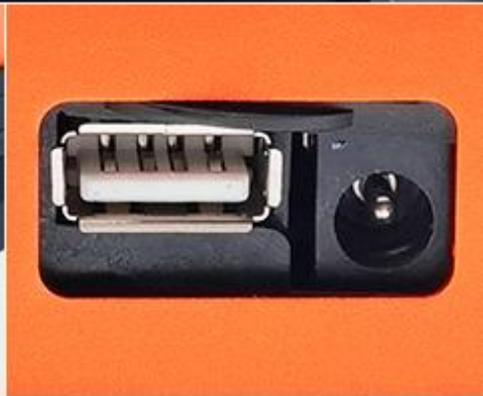
18 seconds fast heating

320

320 times magnification auto focus



EXQUISITE DETAILS

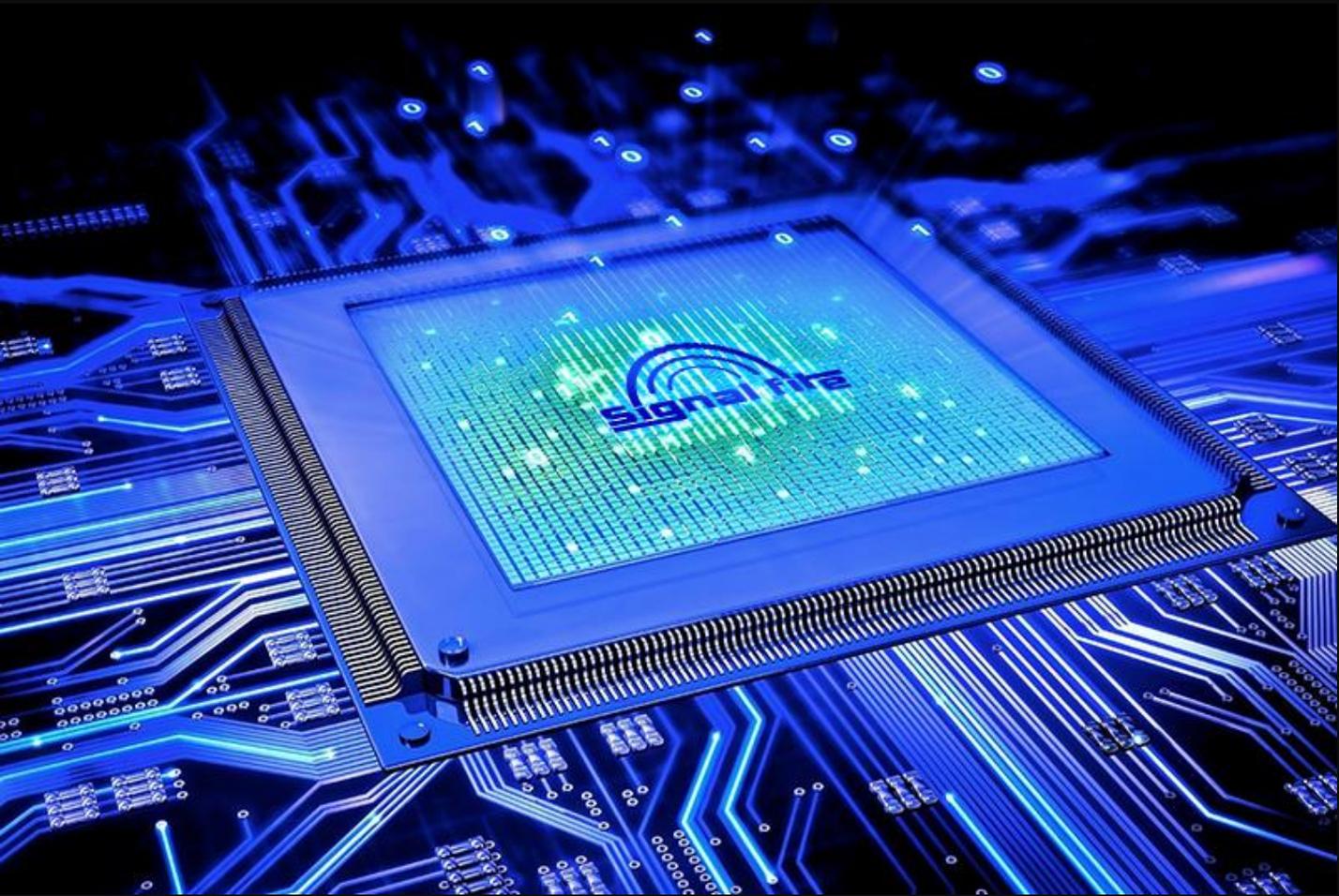


Optical Fiber Fusion Splicer



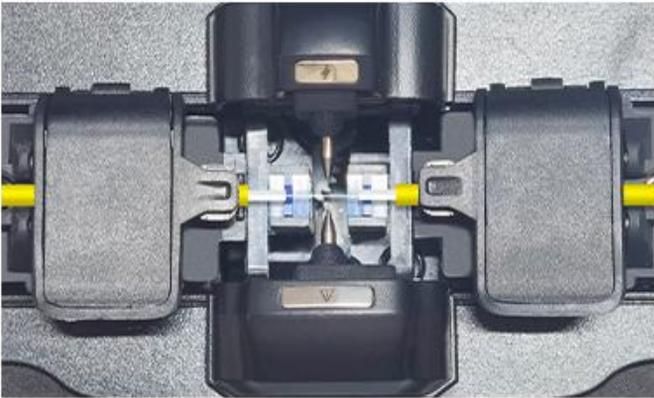
Industrial quad-core chip CPU

1 second startup will enter the working state without waiting

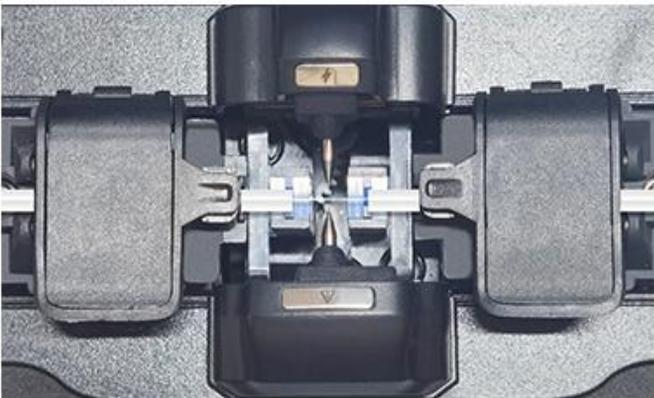


3 in 1 fiber holder

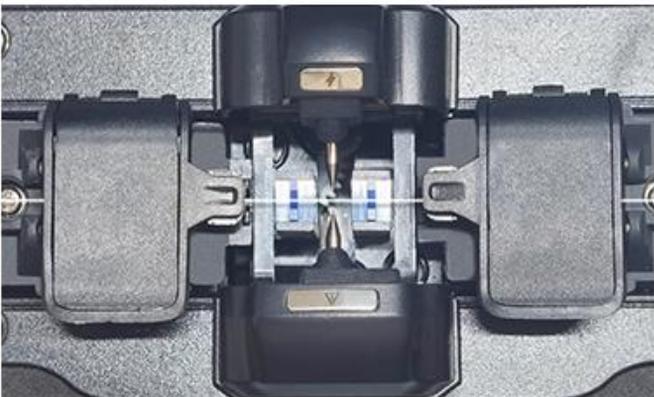
SM, MM, bare fiber, pigtail, Drop cable, multi fiber cable



**Jumper fiber
(pigtail)**



Drop cable



Bare Fiber

BATTERY CHARGING

"New upgrade"

5200mAh lithium battery

Dual charging path

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



Charging channel ①

Charging channel ②

Charging method III

The battery can be removed and charged separately



- Charging time ≤ 3.0 hours;
- In full state, 160 cores can be continuously fused and heated



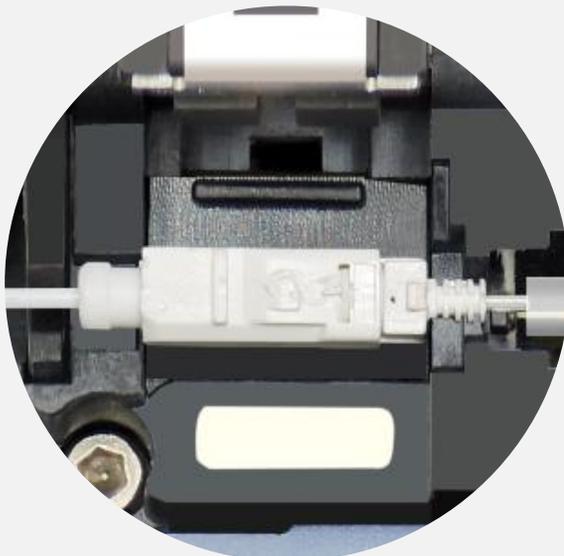
18s automatic heating



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

Cooling rack

Expandable and closable



Deployment status



Closed status

Dust prevention fall prevention shock prevention



Thickened buffer structure

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

Lighting for splicer

Convenient for night operation



Only AI-6C supports this function

Can charge the phone

Only AI-6C supports this function



Accessories in the tool box

Fiber alignment	Core/cladding
Motor number	6 motors (accurate of fiber alignment: 0.3μm)
Splicing time	8s
Heating mode	18s, 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
Battery capacity	5200mAh large capacity lithium battery charging time ≤3.5; It can continuously weld and heat about 160 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
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

Accessories in the tool box



Toolcase



Main engine



S07
Fiber Cleaver



Signal Fire
Stripper



Alcohol
Bottle



Toolbox strap



Brush



Belt



Power Adapter



key



Inner
hexagon



Fiber for ARC
calibration
User's manual
Quality Certificate
Warranty Card

Size and wight



Machine weight

2.03kg (with battery)
1.68kg (without battery)

Toolbox weight
6.95kg
(including machine and accessories)



Total weight

5.90kg

SERVICE COMMITMENT

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

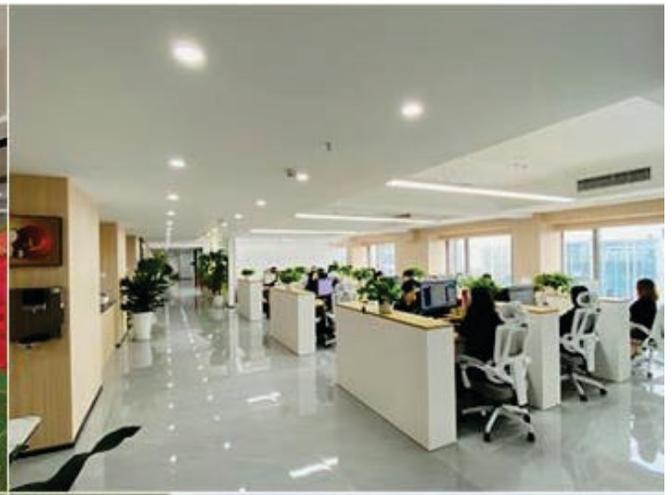
01.Except for the cleaver, miller clamp, stripping pliers, fiber holders and other tools whose life depends on the frequency of use and the use of the environment. Also electrodes are consumption material which are not in the warranty.

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.





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.



Exhibition photos



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



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-EV, 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	Yes
Article 3(1)(a) Health	Yes
Article 3(1)(b) EMC	Yes
Article 3(2) Radio	Yes

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



Certified by


 Kingkong Jin
 Approved



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)755-26066440 Fax: (86)755-28014772
 Http://www.anbotek.com Email: service@anbotek.com

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-EV, 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		
CHAPTER 1 (General)(1)(a) Safety	BS EN IEC 62368-1:2020+A11:2020	Yes
CHAPTER 1 (General)(1)(a) Health	BS EN 50663: 2017; BS EN 62479: 2010	Yes
CHAPTER 1 (General)(1)(b) EMC	ETSI EN 301 489-1 V2.3.2 (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
 Approved



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)755-26066440 Fax: (86)755-28014772
 Http://www.anbotek.com Email: service@anbotek.com

TCB

**GRANT OF EQUIPMENT
AUTHORIZATION**

Certification
 Issued Under the Authority of the
 Federal Communications Commission
 By:

LGA1 Technological Center S.A. (APPLUS)
 Ronda de la Font del Carme, s/n -4BR-PD.
 Box 08193,
 Barcelona,
 Spain

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

TCB

Signal Fire Technology Co., Ltd.
 No.8-6 Qingyang Zone, Jiaolong Industrial Park
 Qingyang District, 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: 2AB9B-AI-10A Name of Grantee: Signal Fire Technology Co., Ltd. Equipment Class: Digital Transmission System Notes: OPTICAL FIBER FUSION SPLICER	Frequency Range (MHz)	Output Power (Watts)	Frequency Tolerance	Emission Designator
FCC Rule Parts	2402.0 - 2489.0	0.06193		
Grant Notes	15C			

Output power listed is conducted. The antenna(s) used for the 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.



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/T19001-2016/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. 31, 2026

Issued by: *Wei Fergene* Beijing East Aitreach Certification Center Co., Ltd.





The certificate will remain valid only if the certified enterprise accepts surveillance audits at regular intervals and is audited by the 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 on the front page.

Address: The Floor, No. 12 Building, No. 11, Jiaolong Street, Jiaolong Science & Technology Industrial Base (Jiaolong Port of Jiaolong Science & Technology Zone, Tongshan District, Jiangsu 210122)

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 "ignal fr".

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



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



United States of America
United States Patent and Trademark Office



Reg. No. 7,197,550
Registered Oct. 17, 2023
Int. Cl.: 8

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 8: Nippers; Pliers; Scissors; Blades for manually-operated tools; Hand-operated cutting tools; Hand-operated shears; Hand tools, namely, graving tools; Hand tools, namely, scrapers; Hand tools, namely, wire strippers; Multi-tool knives

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 "ignal fr".

SER. NO. 97-339,852, FILED 03-31-2022



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



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, Pidū 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 Текнолджиз Ко. Лтд., №1111, Чаншенг Бридж, Хонгуанг Таун, Смол 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



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 the 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

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 der Eintragung
Date of registration
Date d'inscription

03.09.2024

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

**Signal Fire Technology Co.,
Ltd.**

No. B-6 Qingyang Zone
Jiaolong Industrial Park
Qingyang District
Chengdu, Sichuan 610015
CN

António Campinos

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



EP4024101/2020/0024

The Executive Director / Der
Exekutivdirektor

Christian Archambeau

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



EUROPEAN UNION INTELLECTUAL
PROPERTY OFFICE
CERTIFICATE OF REGISTRATION
This Certificate of Registration is hereby issued for the
Registered Community Design identified below. The
corresponding entries have been recorded in the
Register of Community Designs.

AMT DER EUROPÄISCHEN UNION FÜR
GEISTIGES EIGENTUM
ENTRAUGUNGSRUNDE

Das Eintragungsbuch und die Eintragungsergebnisse
eines Europäischen Gemeinschaftsdesigns sind
ausgegeben. Die entsprechenden Einträge sind in das
Register für Gemeinschaftsdesigns eingetragen.

www.euiipo.europa.eu



European Patent Office
80290 MUNICH
GERMANY

Questions about this communication?
Contact Customer Services at www.epo.org/contact



Lermer, Christoph
Nove Haus - Design Offices
Luise-Ullrich-Straße 14
80636 München
ALLEMAGNE

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:

Lermer, Christoph
Nove Haus - Design Offices
Luise-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 7030-01-02

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.