



AI-5 OPTICAL FIBER FUSION SPLICER

Suitable for security monitoring special construction

SIGNAL FIRE INTELLIGENT MANUFACTURING

An effective balance between quality and cost-effectiveness



8S SPLICING





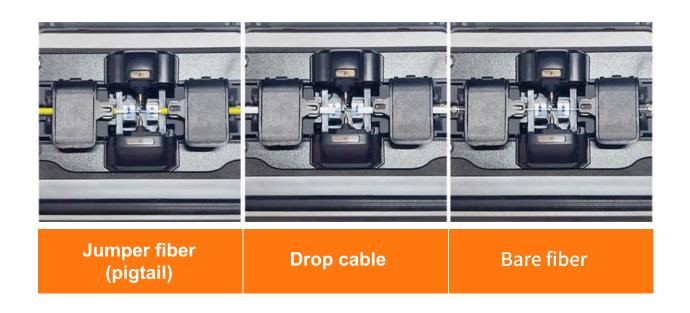
Signal Fire AI-5 is mainly suitable for security monitoring and other engineering projects. Adopting a 5-inch color screen, the operation graphics are simple and intuitive; Up to 320x focusing magnification, 8 second high-speed splicing, 18 second heating, with a 50% increase in work efficiency compared to ordinary fusion machines; The 5200mAh lithium battery can fuse and heat about 160 cells when fully charged. Its unique lighting design makes it convenient for night construction or emergency repairs.





3 in 1 fiber holder

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



5200mAh lithium battery

Charging time ≤3.0 hours;

In full state, 160 cores can be continuously fused and heated



Dust prevention fall prevention shock prevention



Thickened buffer structure

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

Lighting for splicer

Convenient for night operation



Basic parameter

Fiber alignment	Core/cladding
Motor number	Four motors (accurate of fiber alignment: 0.5µm)
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), 160x (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
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 \sim +50°C, humidity: < 95%RH (no condensation), working altitude: 0 \sim 5000m, maximum wind speed: \leq 15m/s

RANDOM CONFIGURATION



1 Toolkit 2 Main engine 3 S07 Fiber Cleaver 4 Alcohol

®Toolbox strap **9**Power Adapter **0**Fiber for ARC

calibration/User's manual/Quality Certificate/Warranty Card

Size and wight



Machine weight

2.05kg (with battery)1.68kg (without battery)

Toolkit weight
3.50kg (including
machine and
accessories)





Total weight
4. 05kg

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.



Operator winning bid brand







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





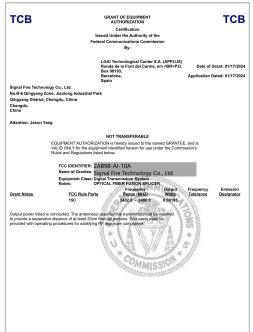
Exhibition photos



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.









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 Imnovation Park,Pidu Dist,Chengdu, CHINA 611730

CLASS 7: Cutting machines; Electric are cutting apparatus; Electric are welding apparatus; Electric serisors; Electric shearing machines; Electric welding machines; Electric 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 fi".

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 fi".

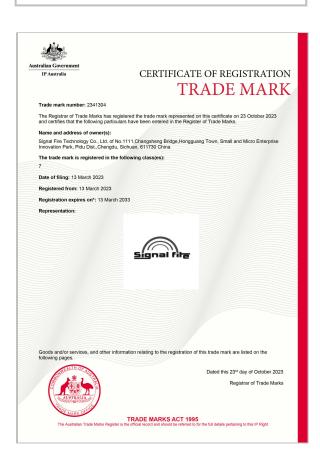
SER. NO. 97-339,852, FILED 03-31-2022



Katherine Kelly Vidal

Director of the United States Patent and Trademark Office













European Patent Office 80298 MUNICH

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

Proprietor Signal Fire Technology Co., Ltd.

03 09 2024

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 LIPR

Application No./Patent No. 19945932.2 / 4024101

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

Date of effect

Reference P9499EUEP

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

Signal Fire Technology Co., Ltd. For proprietor(s):

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

Represented by:

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

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

Registered Letter

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(6) UPR, a renewal fee for a European patent with unitary effect which would have faillen 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 monthis 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.

FPO Form 7030 01 22