

# OPTICAL FIBER FUSION SPLICER





Six motors



Core alignment

**8**s

8 seconds fast splicing **18**s

18 seconds fast heating 320

320 times magnification auto focus



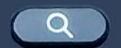
## **EXQUISITE DETAILS**



OPtical Fiber Fusion SPlicer



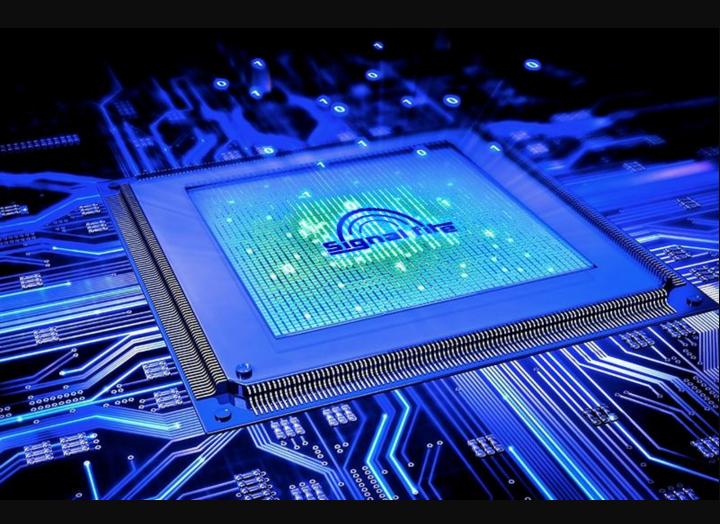






#### Industrial quad-core chip CPU

1 second startup will enter the working state without waiting

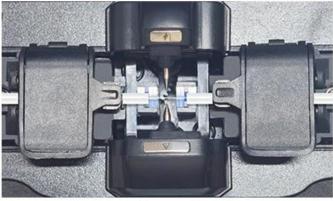


#### 3 in 1 fiber holder

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 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

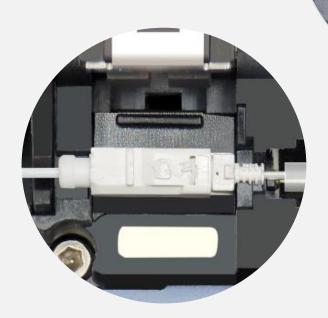


#### 18s automatic heating



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

#### Signal fire stripper



#### **Accessories in** the tool box



Toolcase



Main engine

Fiber Cleaver

Signal Fire Stripper

Brush

Belt



Power Adapter

Inner hexagon

key



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

#### **Size and wight**



熔接机重量

2.10kg (含电池)1.68kg (不含电池)







外包装总重量

5.50kg

#### **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.



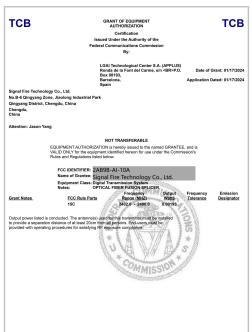
#### **Exhibition photos**



## 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.









#### 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 seisony; 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 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".

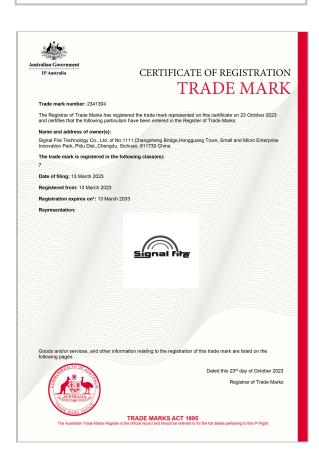
SER. NO. 97-339,852, FILED 03-31-2022



Katherine Kelly Vidal

Director of the United States Patent and Trademark Office













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

Registered Letter

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 failing 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 failen 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 for the communication referred to in Rule 7(1) UPR is we 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.

Date

Application No./Patent No. 19945932.2 / 4024101