



AI-7C

OPTICAL FIBER FUSION SPLICER

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

SIGNAL FIRE TECHNOLOGY CO., LTD.

MASTERPIECE High-end luxury



Signal Fire AI-7C use the latest core alignment technology with auto focus and six motors, it is a new generation of fiber fusion splicer. It is fully qualified with 20 km trunk construction, FTTH project, security monitoring and other fiber cable splicing projects. The machine uses industrial quad-core CPU, fast response, is currently one of the fastest fiber splicing machine in the market; with 5-inch high-resolution screen, the operation is simple and intuitively; and up to 320 times focus magnifications, making it is very easy to observe the fiber with naked eyes.6 seconds speed core alignment splicing, 15 seconds heating, the working efficiency increased by 50% compared to ordinary splicing machines.

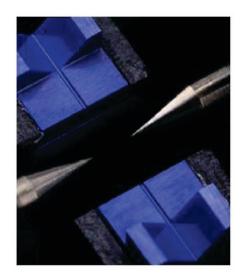
SIX MOTORS Core alignment



METAL BODY Aesthetic Details



EXQUISITE DETAILS









3 in 1 fiber holder

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



Jumper fiber (pigtail)



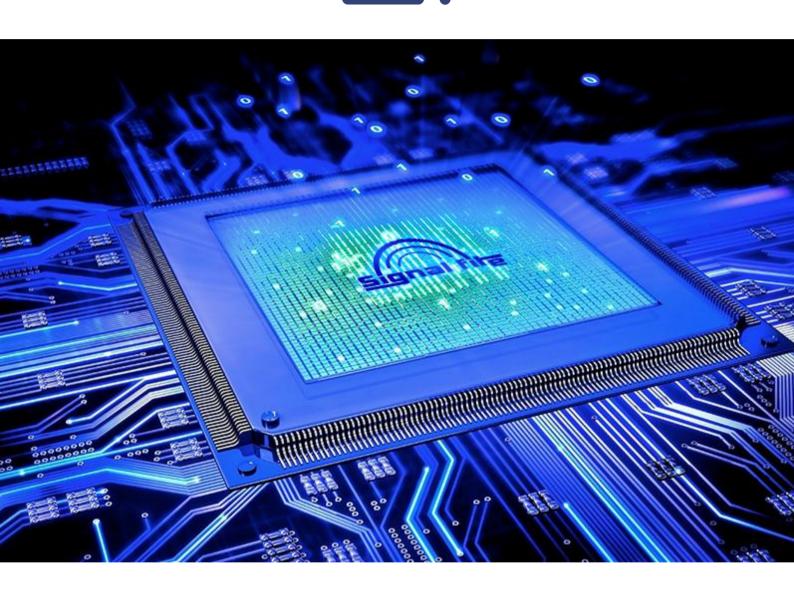
Drop cable



Bare fiber

Industrial quad-core chip CPU

1 second startup will enter the working state without waiting



Synchronous operation

speed response

no jammed

super experience

7800mAh lithium battery

Battery charging "New upgrade"

Dual charging path

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



Charging channel 2

Charging method III

The battery can be removed and charged separately





- Charging time ≤3.5 hours;
- In full state, 260 cores can be continuously fused and heated

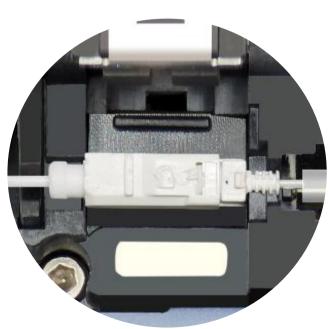


15s automatic heating



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 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!

Outstanding quality without fear of challenges

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







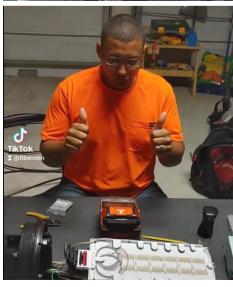


Exported to nearly 100 countries and regions worldwide

Get unanimous praise from customers!











THE TOOLBOX

comes with a stool to facilitate the construction workers



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

Patent no.ZL 2016 3 0402585.X

Basic parameter

Fiber alignment	Core/cladding
Motor number	6 motors (accurate of fiber alignment: 0.2μm)
Splicing time	6s
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
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°C, humidity: < 95%RH (no condensation), working altitude: 0 ~ 5000m, maximum wind speed: ≤15m/s

Signal fire stripper



SPLICER

Random configuration



TOOLCASE



fusion splicer



electrode



cleaver



signal fire stripper



Alcohol pump



belt



brush



Toolbox strap



power supply



inner hexagon



Warranty card certificate Instruction list list Distribution correction

SIZE AND WEIGHT



Machine weight

- 2.10kg (with battery)
- 1.68kg (without battery)



Toolbox weight

6.95kg (including machine and accessories)



370mm

Total weight

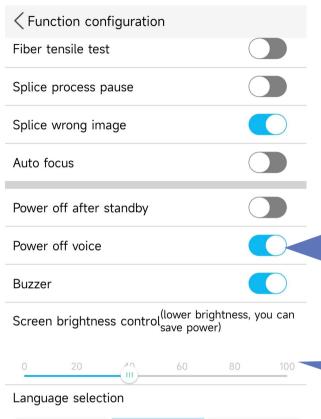
8. 20kg

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;



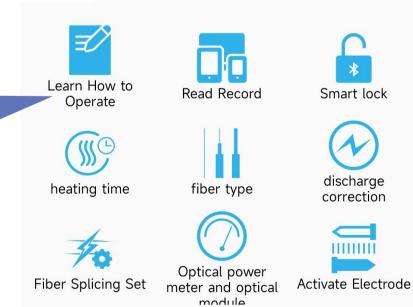
After it is opened, there will be voice prompt in the whole process from fiber laying, fiber matching, welding and loss value. In case of unqualified items, it will be directly informed.

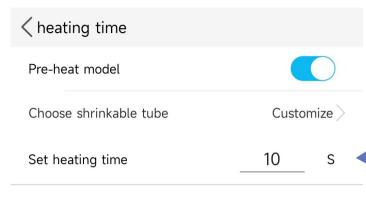
Adapt to bright light, dark and other different outdoor environment

中文 (简体)	English	Português
Français	Русский	Español
Polski	ไทย	عربي
Italiano		

Major global languages available

Learning operation: from cutting fiber, stripping fiber to welding machine operation have detailed tutorials



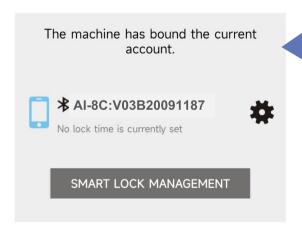


Heating time can be customized, extremely cold weather and hot summer can be appropriately extended or shortened

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.





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.

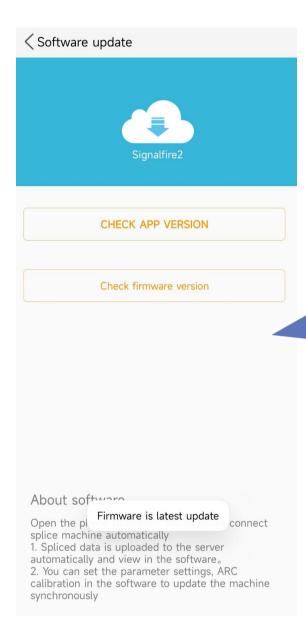
About smart locks?



It can be downloaded and exported

Mode/ Number	Splicing loss	Time	Pictures
1	0.01	2021-10-07 10:46:16	
2	0.01	2021-10-06 15:21:50	
3	0.01	2021-10-05 13:20:47	-
4	0.00	2021-10-05 13:19:04	
5	0.00	2021-10-05 13:04:43	
6	0.01	2021-10-05 13:02:22	
7	0.01	2021-10-05 12:50:01	
8	0.01	2021-10-05 12:49:14	
9	0.02	2021-10-05 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.





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





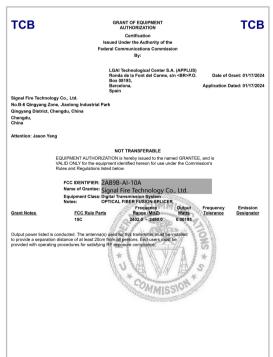
Exhibition photos



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

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 are cutting apparatus; Electric are welding apparatus; Electric serisors; Electric shearing machines; Electric welding machines; Electroic 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



Kothevine 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

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

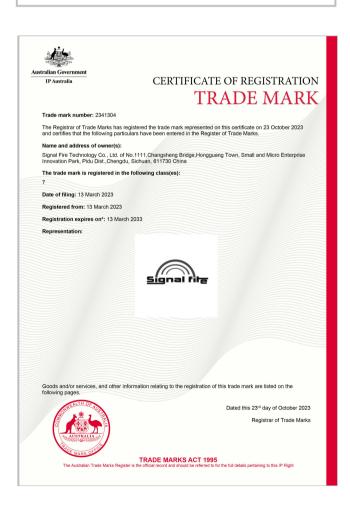
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Katherine Kuly Vidal
Director of the United States
Patent and Trademark Office













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

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

Registered Letter

For the Unitary Patent Protection Division

Patent Space*

Patent Space*

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**Pr

EPO Form 7030 01.22

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