

# THE FOURTH GENERATION TRUNK LINE OPTICAL FIBER FUSION SPLICER

AI-20

Built-in high precision
Delay return electric one-step fiber cleaver

10



# Full link integration design Highly integrated

The AI-20, the fourth generation fiber fusion splicer developed by Signal fire, is the latest generation of fiber fusion splicer designed for full link integration. It combines Signal fire's latest research and development of a delayed return electric one-step cleaver with fiber fusion splicing, while integrating OPM and VFL functions. Combined with a nine in one signalfire fiber stripper, a combinable workbench and worktable, it truly becomes a compact, lightweight, and easy to operate fiber fusion splicer, which will greatly improve your work efficiency.



SIX MOTORS



WITHIN OPM FUNCTION



FIBER CORE ALIGNMENT



WITHIN VFL FUNCTION



6S SPLICING



DELAY RETURN ELECTRIC ONE-STEP FIBER CLEAVER



803

SIGNAL FIRE STRIPPER

# **Humanized design meets different Construction environments**



Ø Can be used as a bench

Host support /protection console

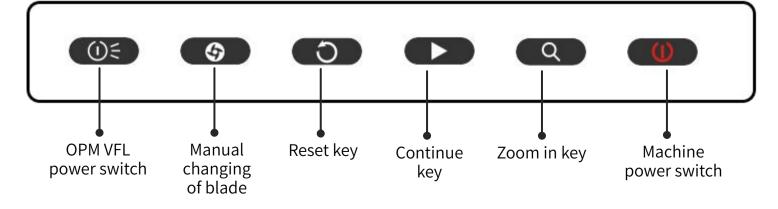
Equipped with signal fire stripper



Signal fire AI-20 fusion splicer applies multiple of the latest patented technologies of Signal fire, and adopts a more advanced central processing unit, more advanced algorithms, and higher precision cameras. The weight of bare machine,tool case and complete set of accessories only 4.5kg, size of tool case is 25.5cmx16.5cmx23cm. In such a compact and compact situation, the combination design of workbench and bench has been achieved simultaneously. 1 second startup, 6 seconds rapid fusion, 15 seconds heating, 5-inch color high-definition LCD screen, 320x magnification, 7800mAh large capacity lithium battery can fuse and heat 240 cores, still performs well in harsh environments such as high altitude, dry, and cold.

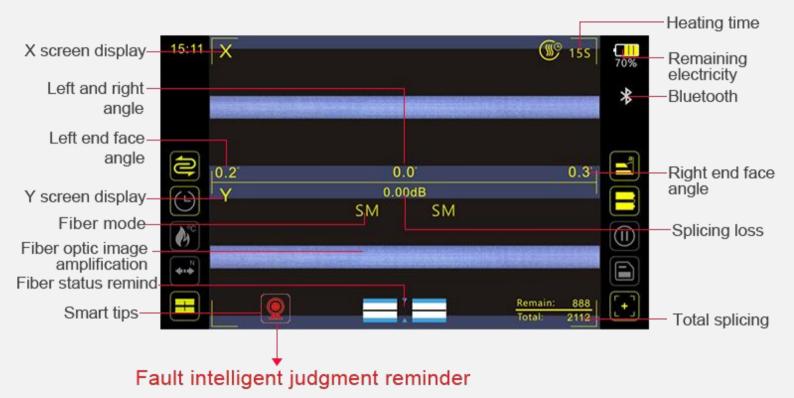


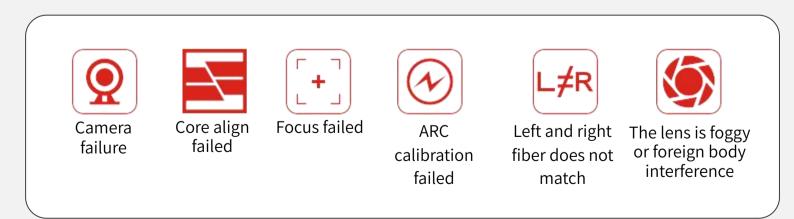
#### The buttons are clear and beautiful



## Display 5 inch TFT color display screen

320X (X or Y axis single display) 200X (X and Y axis dual display)





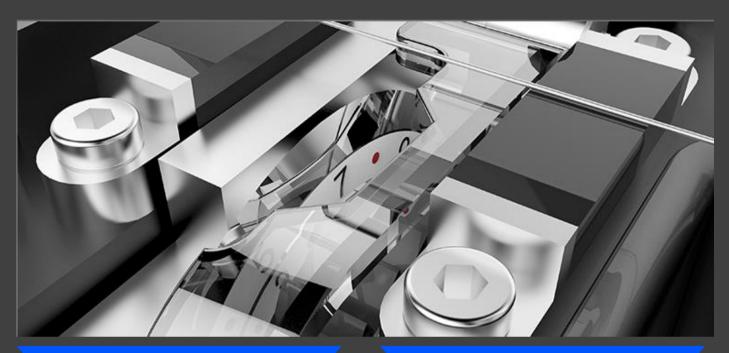
**OPTICAL FIBER FUSION SPLICER** 

# Built-in high precision delay return electric one-step fiber cleaver



Signal fire new generation fiber fusion splicer has significantly reduced the actual weight and volume of the entire equipment by reducing auxiliary tools and improving the automation level, ultimately achieving a true improvement in fusion quality and efficiency. This is the fourth generation fiber fusion splicer that we first launched, and the core is full link integration design, highly integrated.

### Blades surface automatically manually change delayed cleaver return



#### AUTOMATIC CHANGE

Cleaver blades surface automatically change when the current cutting point cut fiber more than 1000 times and continuously shown three times unqualified cutting results.

#### MANUAL CHANGE

Manual button operation, cleaver blades surface will change.Cleaver has 24 cutting points in total, current cutting point cut numbers, blades total cut numbers, Available within the APP.



AUTOMATIC DELAYED CLEAVER RETURN

Perfectly solves the problem of traditional mechanical one-step cleaver back cutting scratching the fiber end face. The factory standard delay time is set to 0.5 seconds, and the adjustable range is 0.2 seconds to 2 seconds.

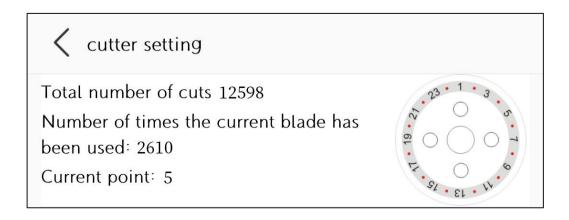


CLEAVER LED AUXILIARY LIGHTING Brightness can be adjusted through APP.

### **APP** Bluetooth connection

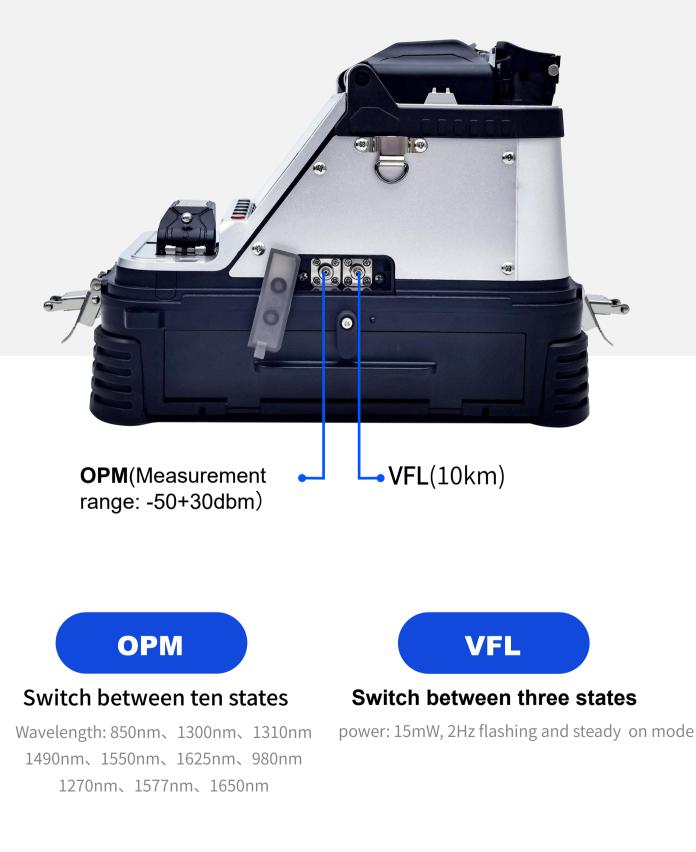
<b>〈</b> System parameter	S	Save
Blade change stroke	40	Value range 10 ~ 100
Cutter face change stroke	30	Value range 10 ~ 100
Cutting speed 1		Value range 1~5
Return blade delay 5	00 ms	Value range 200 ~ 2000ms

Blade usage details and rotati	ng blade face	>
Replace the blade		$\geq$
How to adjust blade height		>
LED brightness adjustment	20 40 60 8	0 100



### **Built-in VFL and OPM function**

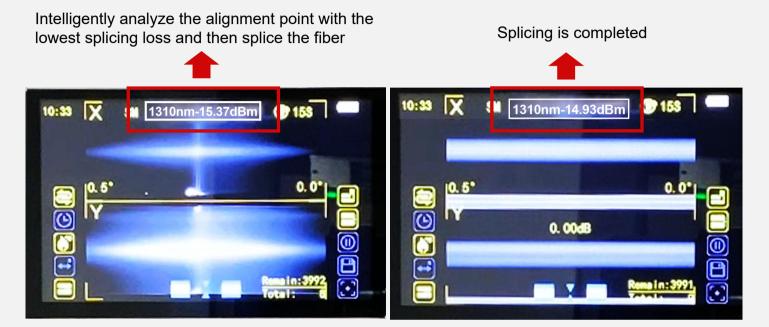
Measure fiber link loss/luminous flux Fiber line tracking, breakpoint/light leakage detection



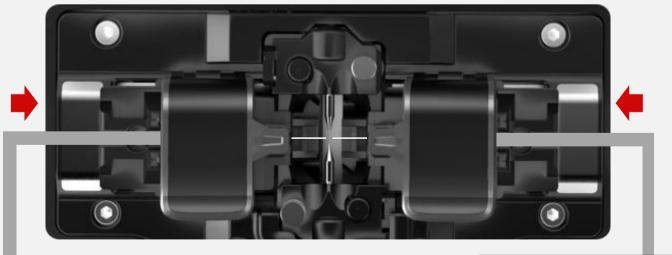


### Real-time luminous flux assisted alignment

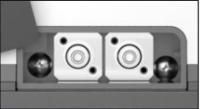
Only applicable to environments with stable optical signal link from front



Real-time luminous flux assisted alignment technology developed by Signalfire, which intelligently analyzes the alignment point with the least loss to minimize the fiber fusion loss.



Optical fiber on the left which is stable optical signal link



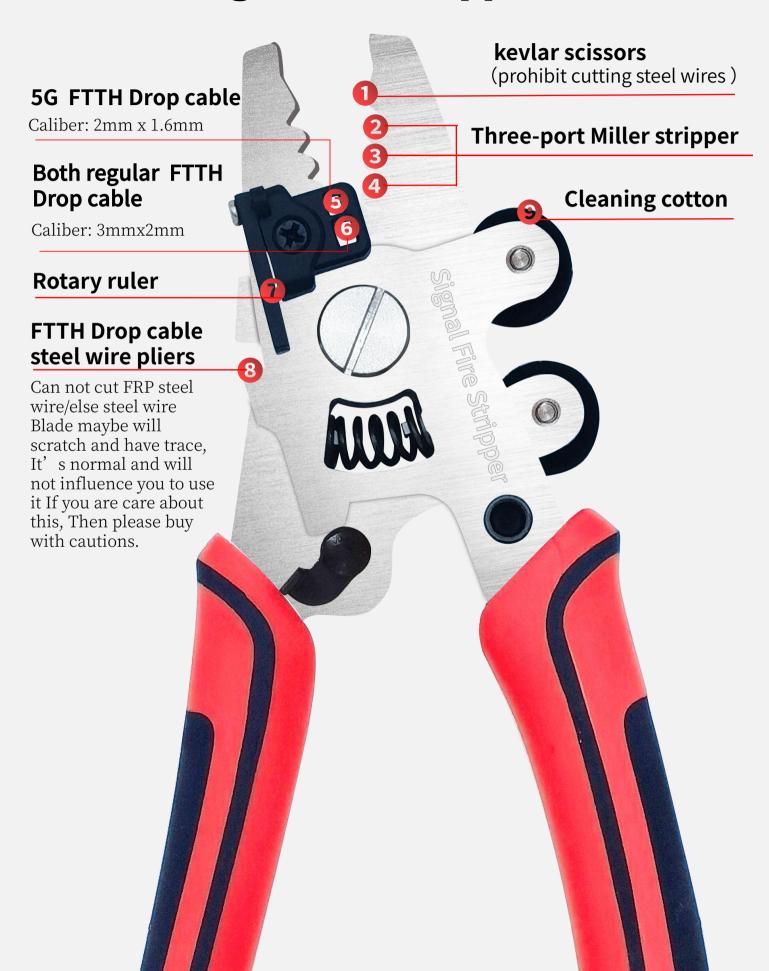
Optical Fiber on the right with fast connector which has pluged to OPM Port

### **Equipped with signal fire stripper**



### A GOOD STRIPPER NINE FUNCTIONS

kevlar scissors Three-port Miller stripper 5G FTTH Drop cable Both regular FTTH Drop cable FTTH Drop cable steel wire pliers Rotary ruler Cleaning cotton



### **7800mAh lithium battery**

#### **Dual charging path**

In full state, 240 cores can be continuously fused and heated



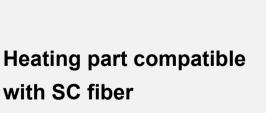
Charging time ≤3.5 hours

### **15S automatic heating**

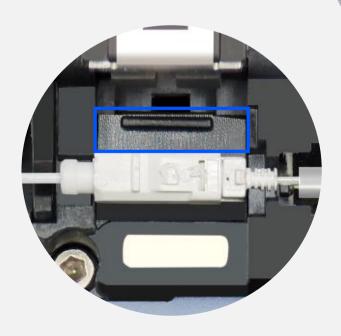
#### Preheating

Successful fiber spliced. When opening the windproof cover to take out the fiber, the machine turns on pre heating for up to 6 seconds

#### Heating part automatic lid closing



SC Fiber: Push up Ordinary fiber: Push down





#### **OPTICAL FIBER FUSION SPLICER**

#### AI-20



# **3-IN-1 UNIVERSAL** FIBER HOLDER

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





#### **EXQUISITE DETAILS**

THE BUTTONS ARE CLEAR AND BEAUTIFUL

### COOLING RACK EXPANDABLE AND CLOSABLE



### ULTRA THICK PROTECTIVE RUBBER PAD

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1 100

0

Thickened buffer structure provides maximum protection



**Bench+support platform** 



**Compact and portable** 



Combination hanging chain Climbing homework



Compact and easy to carry

#### **10 languages available**

Multilingual Settings, covering the global market

★** **				
Chinese	English	French	Russian	Italian
Portuguese	Polish	Spanish	Thai	Arabic

#### **Exported to nearly 100 countries and regions worldwide**

Get unanimous praise from customers!



### **Basic parameter**

Fiber alignment	Core/cladding; Real-time luminous flux assisted alignment (Only applicable to environments with stable optical signal link from front)
Motor number	6 motors Accurate of fiber alignment :0.1μm
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 optical fiber.
The cladding diameter	80-150µm
Splicing loss	0.02dB (SM) 、0.01dB (MM) 0.04dB (DS/NZDS)
Splicing mode	Automatic focusing core alignment, conventional/high precision splicing
Splicing way	Automatic, semi-automatic,manually
Fiber cleaver	High precision delay return electric one-step fiber cleaver
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
VFL	The machine comes with power: 15mW, 2Hz flashing and steady on mode
OPM	Wavelength: 850nm、1300nm、1310nm、1490nm、1550nm、1625nm、980nm、1270nm、1577nm、 1650nm/Measurement range: -50+30dbm Absolute error: <0.3dB (-50dbm ~+3dBm range)
Battery capacity	7800mAh large capacity lithium battery charging time ≤3.5 hours; It can continuously weld and heat about 240 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 splicing records, splicing time, loss, etc. through the mobile phone APP. The number of splicing 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

### Accessories in the tool box









Machine size 165mm x 255mm x 185mm Machine weight 3.09kg Toolbox size 165mm x 255mm x 230mm Weight of toolbox (complete set) 4.50kg

Total size 340mm x 255mm x325mm Total weight

**5.50**kg

### SERVICE COMMITMENT

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

*O1.* Except for the cleaver, Signal fire stripper, 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.

*O2.* 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.

*03.* Electrodes are consumables, the service life of each pair of electrode is 4000 times.



Establishing wireless communication through Bluetooth technology to achieve data transmission

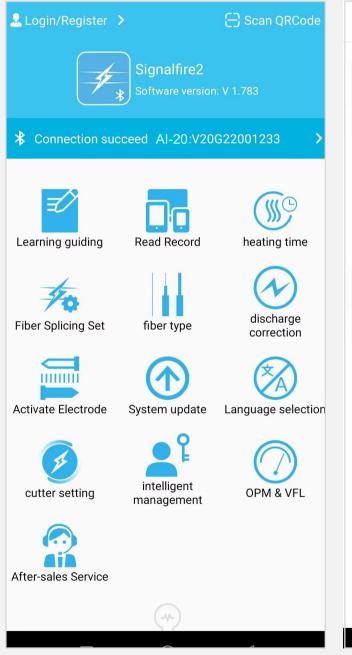


- Welding record can be read through mobile phone, and the data can be exported;
- You can set the parameters of the welding machine, such as selecting the machine language, changing the heating time, selecting the fiber optic alignment mode, etc;
- You can manage the welding machine, such as setting the use time of the machine, welding times, etc;
- Upgrade the phone APP, bluetooth connected to the machine to upgrade the machine software;

### 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

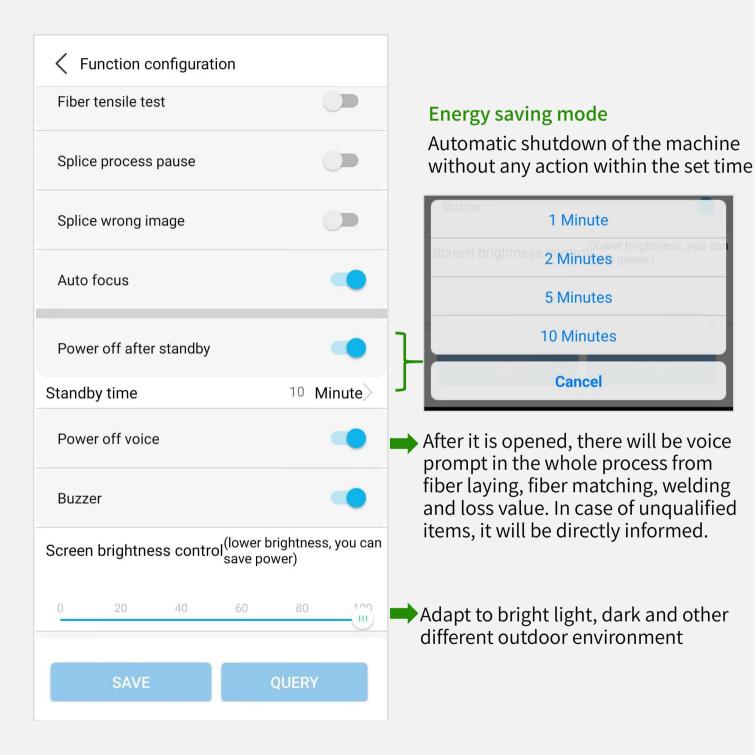
Learning guiding



#### > **APP Using Method** > **Cleaver Using Method** > Daily Clean and Maintain SC Fiber Fusion Method >Electrode change and activate > > Heating Oven Error Solution Button Stuck Solution >> **Red Lights Error Solution** >**Time Error Solution Fiber Dislocation Error Solution** >> **7CMOS Error Solution Charging Error Solution**

#### **APP main interface**

Learning guidance interface



Splicing	record		More
	(	Cumulative fusion tin	nes: 0 times
Machine	AI-20 : V2	~	
Specify user:	all		~
View by time	4 times		
2024	-09-01	- 2024-09	9-30
serial number	Splicing loss	Time	Weld imag
1	0.00	2024-09-30 18:43:39	
2	0.01	2024-09-30 18:42:33	
3	0.01	2024-09-30 18:41:25	

### Splicing records can be downloaded and exported

Unlimited storage of splicing records Can be viewed on mobile devices

Unconnected device	>
中文 (简体)	Auto-detection
English	English 🗸
Português	Русский
Français	Español
Русский	Italiano
Español	Português (Brasil)
Polski	Português
ไทย	Indonesia
عربي	Polski
Italiano	Français
	عربي

Fusion splicer language/ mobile app selection

#### **OPTICAL FIBER FUSION SPLICER**

A heating time	
Pre-heat model	-
Choose shrinkable tube	Customize
Set heating time	S

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

#### Heating time customization

Extreme cold/high temperature can be extended or shortened appropriately

<pre></pre> cutter setting	System parameters
Cutting length	13.0mm >
Cutting type	Automatic identification $>$
Automatic cutting	OFF 🔵 ON
Replace the blade	>
Tension automatic correctio This function can be turned off when automatic correction function is turn the ideal cutting length cannot be rea	ethe ON OFF
LED brightness adjustment	0 <u>111</u> <u>20 40 60 80 100</u>
Cutter usage tutorial	>
Common problems and solu	ations >
Clean cutter	>
Factory settings	
Cutting times:72	

Cleaver Parameter setting /adjustment

#### **OPTICAL FIBER FUSION SPLICER**



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.



#### **OPTICAL FIBER FUSION SPLICER**



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.



#### **OPTICAL FIBER FUSION SPLICER**





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**

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.

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