



OPTICAL FIBER FUSION SPLICER

AI-8(WT-3429)

# PRODUCT MANUAL

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[www.signalfiresplicer.com](http://www.signalfiresplicer.com)

SIGNAL FIRE TECHNOLOGY CO., LTD.



OPTICAL FIBER FUSION SPLICER

# OPTICAL FIBER FUSION SPLICER




# NEW PRODUCT LAUNCH

## CLASSIC MASTERPIECE



OPTICAL FIBER FUSION SPLICER

A detailed view of the Signal Fire AI-8C optical fiber fusion splicer. The device is a compact, industrial-grade machine with a blue and silver finish. It features a large, high-resolution screen on the front, a control panel with various buttons and a joystick, and a fiber input/output mechanism on top. The machine is designed for precision and ease of use in field applications.

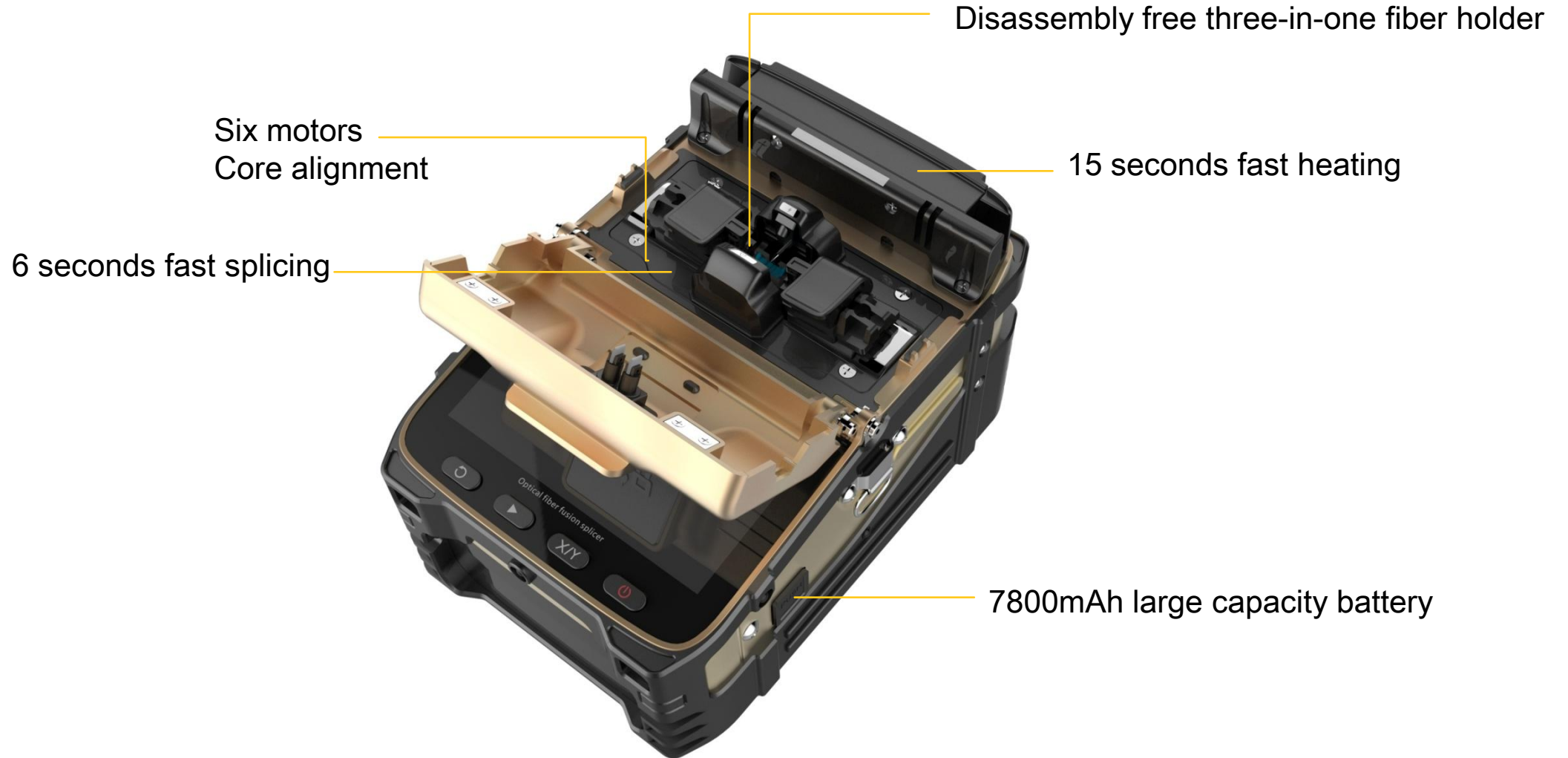
Signal Fire AI-8C use the latest core alignment technology with auto focus and six motors, it is a new generation of fiber fusion splicer. It is fully qualified with trunk construction of medium and short distance, FTTH project, security monitoring and other fiber cable splicing projects. The machine uses industrial quad-core CPU, fast response, is currently one of the fastest fiber splicing machine in the market; with 5-inch 800X480 high-resolution screen, the operation is simple and intuitively; and up to 300 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. Under the conditions of rigorous testing, the performance is still outstanding; toolbox is small, exquisite, durable, and with unique bench design. The design of operating platform reflects the humanistic care; unique lighting design, it is convenient for night construction or repair. Screen brightness is adjustable and it is convenient for outdoor sunshine environment operation. The core parts are using imported brands, aviation metal body material with exquisite details. With the combination of advanced technology and design, the new generation of optical fiber fusion splicer will bring you a reliable and comfortable user experience.

# MASTERPIECE

## HIGH-END LUXURY



OPTICAL FIBER FUSION SPLICER





# METAL BODY

## AESTHETIC DETAILS



OPTICAL FIBER FUSION SPLICER

- 26 patent results



# METAL BODY

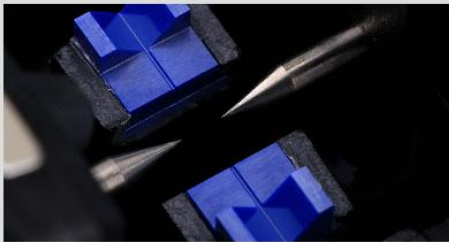
## AESTHETIC DETAILS



OPTICAL FIBER FUSION SPLICER

### PRODUCT DETAILS

Factory Address: Huili in Qingyang Zone, Jiaxing Industrial Park, Qingyang District, Chengdu, China. Factory Address: Huili in Qingyang Zone, Jiaxing Industrial Park, Qingyang District, Chengdu, China.



### EXQUISITE DETAILS

Factory Address: Huili in Qingyang Zone, Jiaxing Industrial Park, Qingyang District, Chengdu, China. Factory Address: Huili in Qingyang Zone, Jiaxing Industrial Park, Qingyang District, Chengdu, China.



# THE TOOLBOX

COMES WITH A STOOL TO FACILITATE  
THE CONSTRUCTION WORKERS.



OPTICAL FIBER FUSION SPLICER



Stool can bear 100KG

Remove  
the stool



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

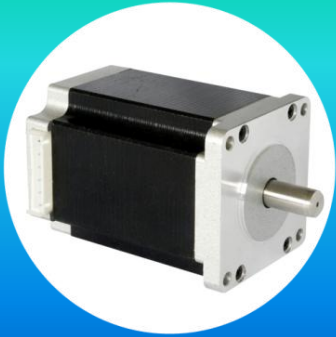
Fiber cleave  
operator station



Two layers

# CORE PARTS QUALITY ASSURANCE

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Siemens stepper motor



Roth ROUST linear guide



Sanyo lithium battery



Aviation metal material



# Lighting for splicer

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Convenient for night operation



# Can charge the phone

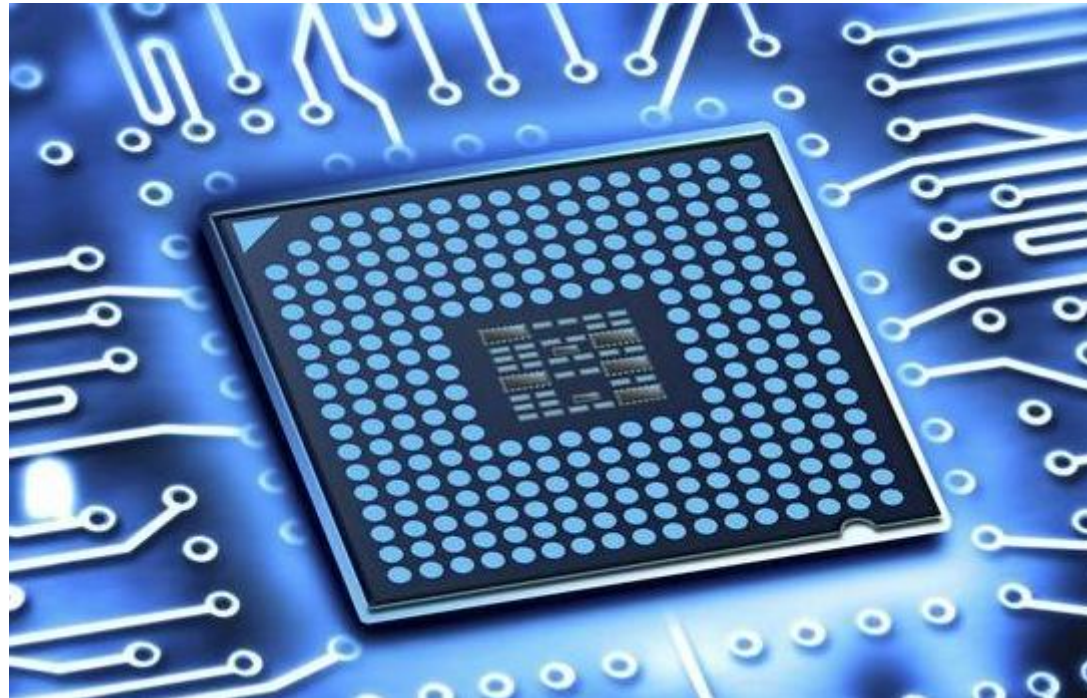
Avoid the use of outdoor construction mobile phones without electricity



# INDUSTRIAL QUAD-CORE CHIP CPU



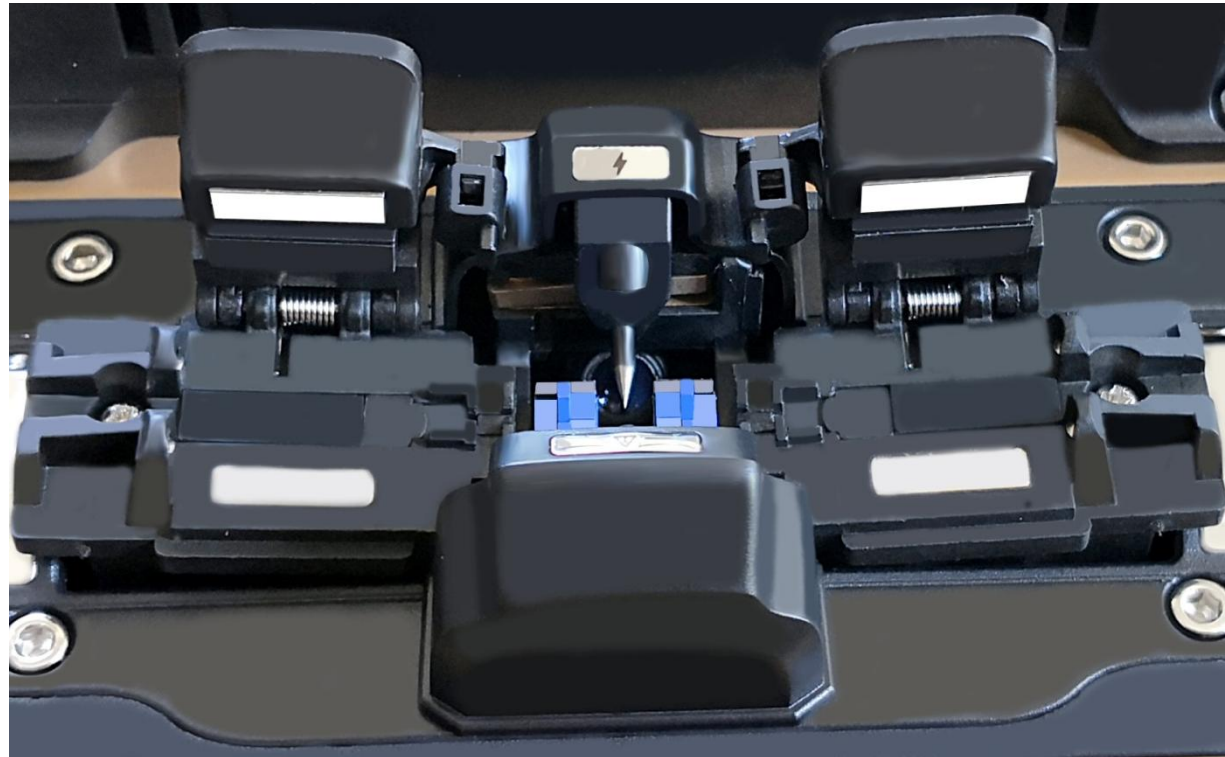
Synchronous operation / speed response / no jammed / super experience



# 3 IN 1 FIBER HOLDER



SM, MM, bare fiber, pigtail, rubber-insulated, multi fiber cable

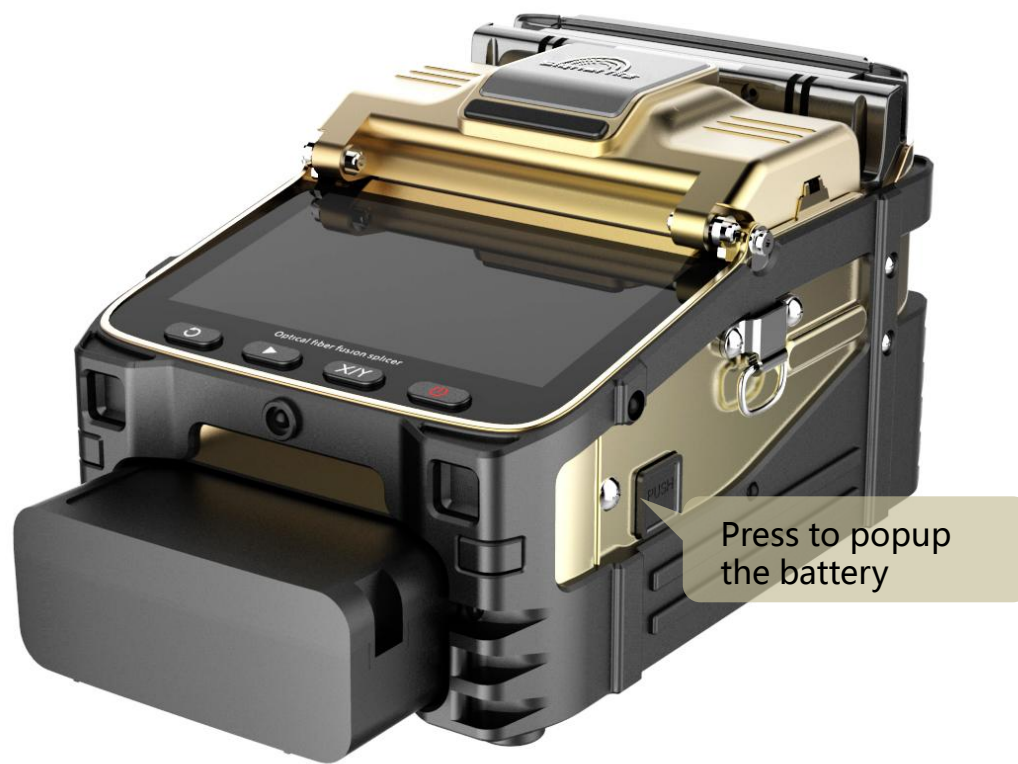




# 7800mAh LARGE CAPACITY BATTERY



charging time  $\leq$  3.5 hours/continuous splicing and heating about 240 times



# 10 LANGUAGES TO SWITCH FREELY

Covers the global major user market



CHINESE



ENGLISH



FRENCH



RUSSIAN



ITALIAN



PORTUGUESE



POLISH



SPANISH



THAI



ARABIC

# Show good performance in plateau, desert, and extreme cold environment

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OPTICAL FIBER FUSION SPLICER



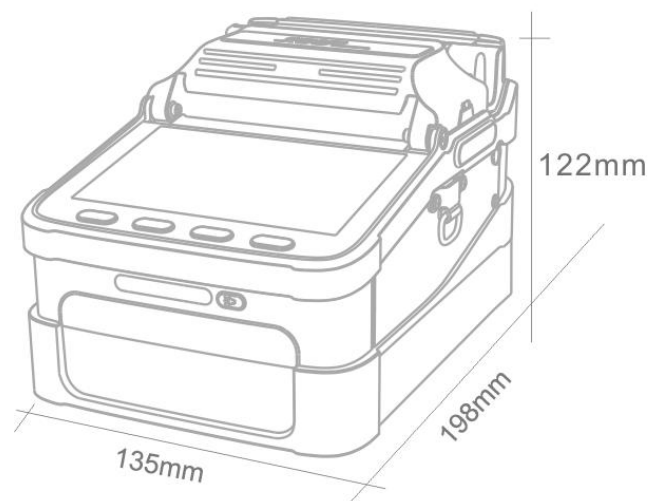
# BASIC PARAMETER



Fiber alignment	Core/cladding alignment / Manual alignment	Language Setting	10 languages to switch freely
Splicing time	6S	Tension Test	Standard 2N
Heating time	15S	Fiber holders	3 in 1 fiber holder, SM, MM, bare fiber, pigtail, rubber-insulated, multi fiber cable
Heating mode	Automatic heating ( Preheating )	Magnification	300 for X or Y view, 150 for X or Y view
Focus mode	Six motors Auto focus	Screen	5 inch TFT color display
Applicable Fibers	SM(G.652&G.657)、MM ( G.651 ) 、DS(G.657)、NZDS ( G.655 )	Splicing Mode	Normal / high precision splicing
Splice Loss	0.025dB ( SM ) 、 0.01dB ( MM ) 0.04dB ( DS/NZDS )	Splicing method	Fully automatic、 Step by step splicing
Control technology	Real-time control and calibration of fusion ARC	Splicing record storage	Synchronize to the phone, the server to cloud storage unlimited
Return loss	Better than 60DB	Built-in battery	7800 mA high-capacity lithium battery, charging time ≤ 3.5 hours, continuous splicing and heating about 240 times
Fiber diameter	Cladding Diameter : 80-150μm Coating Diameter : 100-1000μm	Power supply	Input AC100-240V 50 / 60HZ, output DC13.5V / 4.8A, the current power mode can be identified, real-time detection of battery power
Fiber Cleave Length	Coating less than 250μm : 8-16mm Coating less than 250-1000μm:16mm	Operating Conditions	Temperature -15 ~ +50 °C, humidity: <95% RH (no condensation) Working altitude: 0 ~ 5000m. Resist max. wind speed: ≤ 15m / s
Software updates Length	Automatically update、 Update by a key	Shrinkable tube	60mm、 50mm、 40mm、 25mm
Boot time	1 second	Product protection	Waterproof, dust proof, shock-resistant

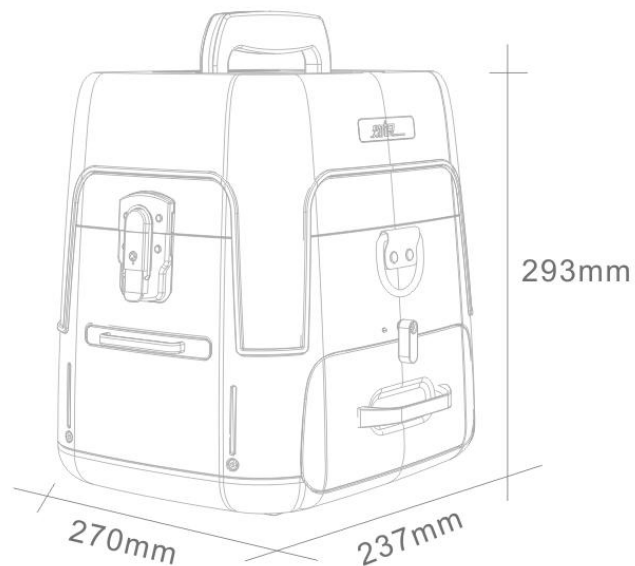


# Size



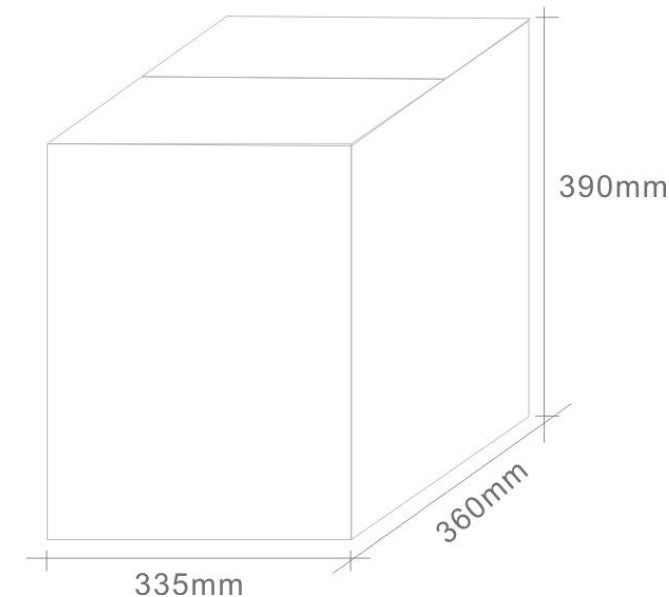
## Machine weight

2.08kg (with battery)  
1.60kg (without battery)



## Toolbox weight

7.1kg (including machine and accessories)



## Total weight

8.40kg

# Accessories in the tool box



Fiber Cleaver



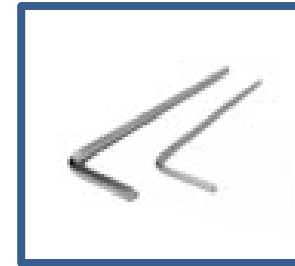
Spare electrode



Wire stripping pliers



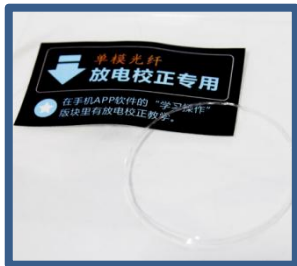
Miller stripper



Hex key



Carrying case

Fiber for  
ARC calibration

Strap



Power Adapter



Alcohol Bottle



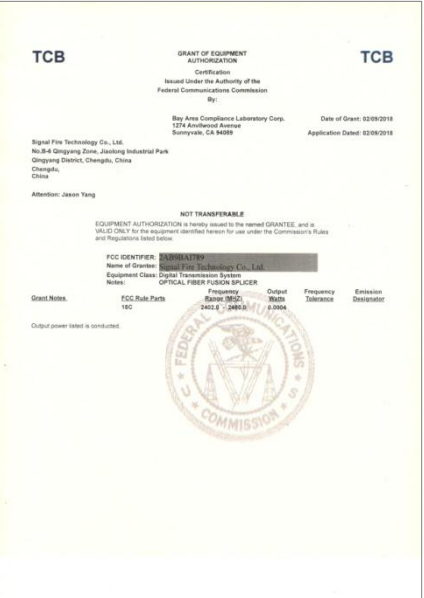
Brush

User's manual  
Quality Certificate  
Warranty Card



OPTICAL FIBER FUSION SPLICER

# INTELLECTUAL PROPERTY



# SERVICE COMMITMENT

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**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.