



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

8S SPLICING

18s

18S HEATING



5200mAh LITHIUM BATTERY



Comes with LED lighting

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



Jumper fiber
(pigtail)

Drop cable

Bare fiber

5200mAh lithium battery

Charging time ≤ 3.0 hours;

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

Charging channel

The battery can be removed and charged separately



Press to pop up the battery

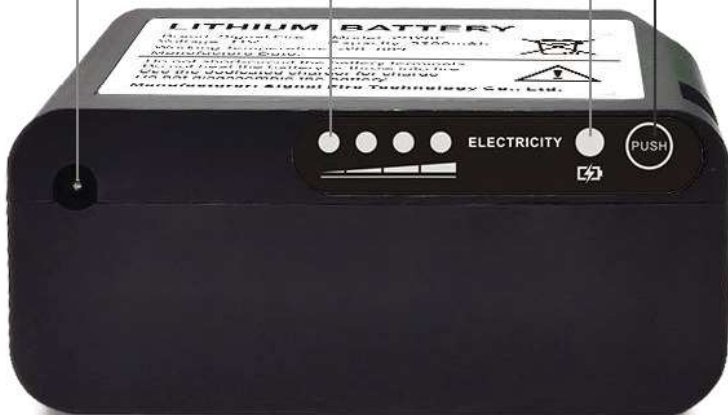
Charging mouth

Input voltage : $13.5 \pm 0.5V$
Input current : 4.8A

Power indicator light

Charge indicator light
Indicator light turns off when fully charged

Press to check the power level



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
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 ~ +50℃, humidity: < 95%RH (no condensation), working altitude: 0 ~ 5000m, maximum wind speed: ≤15m/s

RANDOM CONFIGURATION



- ① Toolkit
- ② Main engine
- ③ S07 Fiber Cleaver
- ④ Alcohol Bottle
- ⑤ Wire stripping pliers
- ⑥ Miller stripper
- ⑦ Belt
- ⑧ Toolbox strap
- ⑨ Power Adapter
- ⑩ Fiber for ARC calibration/User's manual/Quality Certificate/Warranty Card

Size and weight



Machine weight

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

Toolkit weight

3.50kg (including
machine and
accessories)



Total weight

4.05kg