



AI-5 Pro

OPTICAL FIBER FUSION SPLICER

Suitable for security monitoring projects

SIGNAL FIRE INTELLIGENT MANUFACTURING



SIX MOTORS



CORE ALIGNMENT



8S SPLICING



18S HEATING

Signal Fire AI-5Pro is mainly suitable for security monitoring and other engineering projects. six motors、 core alignment, Adopting a 5-inch color screen, the operation graphics are simple and intuitive; Up to 320x focusing magnification, 8 seconds high-speed splicing, 18 seconds 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.

SUPER COST-EFFECTIVE



METAL BODY

BEAUTIFUL DETAILS



11 languages available

Multilingual Settings, covering the global market



Chinese



English



French



Russian



Italian



Ukrainian



Portuguese



Polish



Spanish



Thai



Arabic

5200mAh lithium battery

Charging time ≤ 3.0 hours

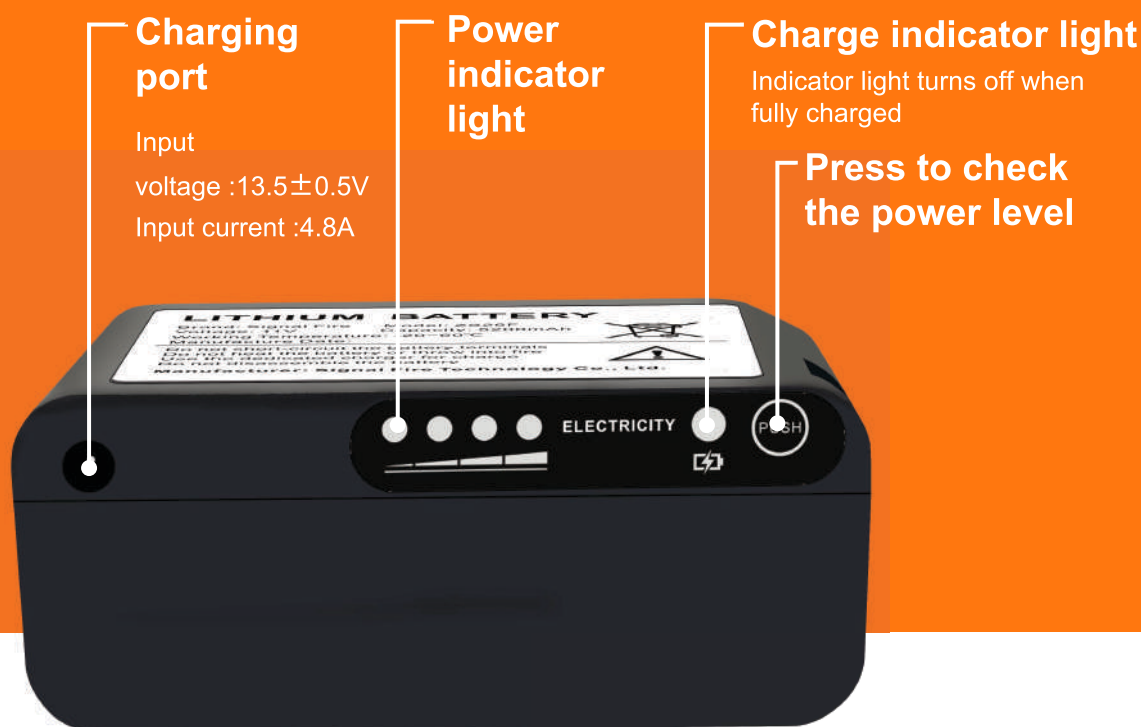
In full state, 160 cores can be continuously fused and heated

Charging channel

The battery can be removed and charged separately



Press to pop up the battery



Charging port

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

3 in 1 fiber holder

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



Jumper fiber
(pigtail)



Drop cable



Bare fiber

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	Six motors (accurate of fiber alignment: 0.5μm)
Splicing time	8s
Heating mode	18s, can be customized according to the external environment
Fiber type	Single-mode fiber (SMF/G.652), multimode fiber (MMF/G.651), dispersion-shifted fiber(DSF/G.653), non-zero dispersion-shifted fiber (NZ-DSF/G.655), and bend-insensitive fiber (BIF/G.657); suitable for splicing bare fiber, pigtail, drop fiber, patch cord, and invisible fiber.
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 ≤3.0 hours; 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
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

STANDARD CONFIGURATION



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

Size and weight



Machine weight

1.91kg (with battery)

1.55kg (without battery)



Toolkit weight

3.50kg

(including machine and
accessories)



Total weight

4. 20kg

SERVICE COMMITMENT

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

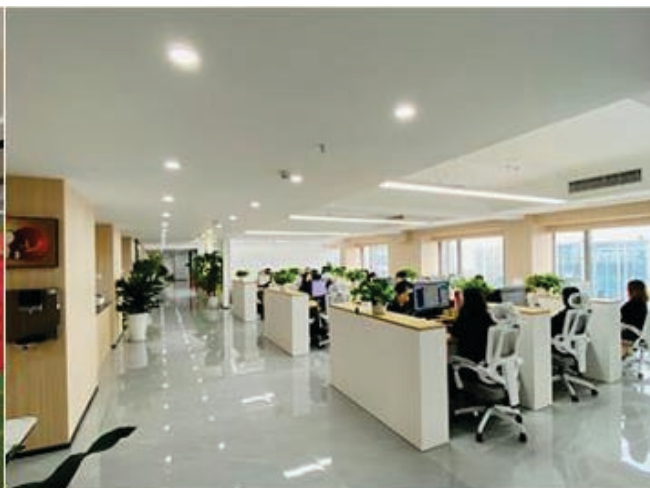
01.Except for the cleaver, miller clamp, stripping pliers, fiber holders and other tools whose life depends on the frequency of use and the use of the environment. Also electrodes are consumption material which are not in the warranty.

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.



Operator winning bid brand



Telecom installation and maintenance skills competition, Signal fire fusion splicer excellent performance, won the group first prize



Exhibition photos



International Patent



US Design Patent Certificate



European PCT Patent



European Unified Patent



EU design patent

International trademark



U.S. Trademark



EU trademark



Australian trademark



Russian trademark

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TRADE MARKS REGISTRY		REGISTRATION CERTIFICATE
Trade Marks Act 1994 of		Great Britain and Northern Ireland
I certify that the mark shown below has been registered under No. UK00003888005 effective as of the date 13/03/2023 and has been entered in the register on 12/01/2024		
Signed this day at my direction <i>Adam Williams</i>		
Adam Williams REGISTRAR		
Representation of Mark 		
The mark has been registered in respect of: Class 7: Cutting machines; Clippers (machines); Splicing machines; Knives, electric; Hand held tools, other than hand-operated; Electric arc welding apparatus; Electric arc cutting		
Intellectual Property Office is an operating name of the Patent Office		

Registered / Eintragungsnr. 21/04/2023

No. 018602832

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INTELLECTUAL PROPERTY
OFFICE

**RIIROP/CAN UNION INTELLECTUAL PROPERTY
CERTIFICATE OF REGISTRATION**

The Certificate of Registration is issued to the
applicant in recognition of the fact that the
concerning rights have been recorded in the
Register of European Union Intellectual Property.

**AMT DER EUROPÄISCHEN UNION FÜR GEISTIGE
EINTRAGSURKÜNDE**

Diese Eintragungsurkunde wird für die
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Anmeldung und in der angegebenen
Anmeldung erteilt.

ZHUOSHI

The Executive Director / Der
Eintragungsführer

[Signature]

Christian Achermann

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