AI-6A+

OPTICAL FIBER FUSION SPLICER

PROFESSIONAL DEDICATED!

BEST SELLER GLOBALLY!

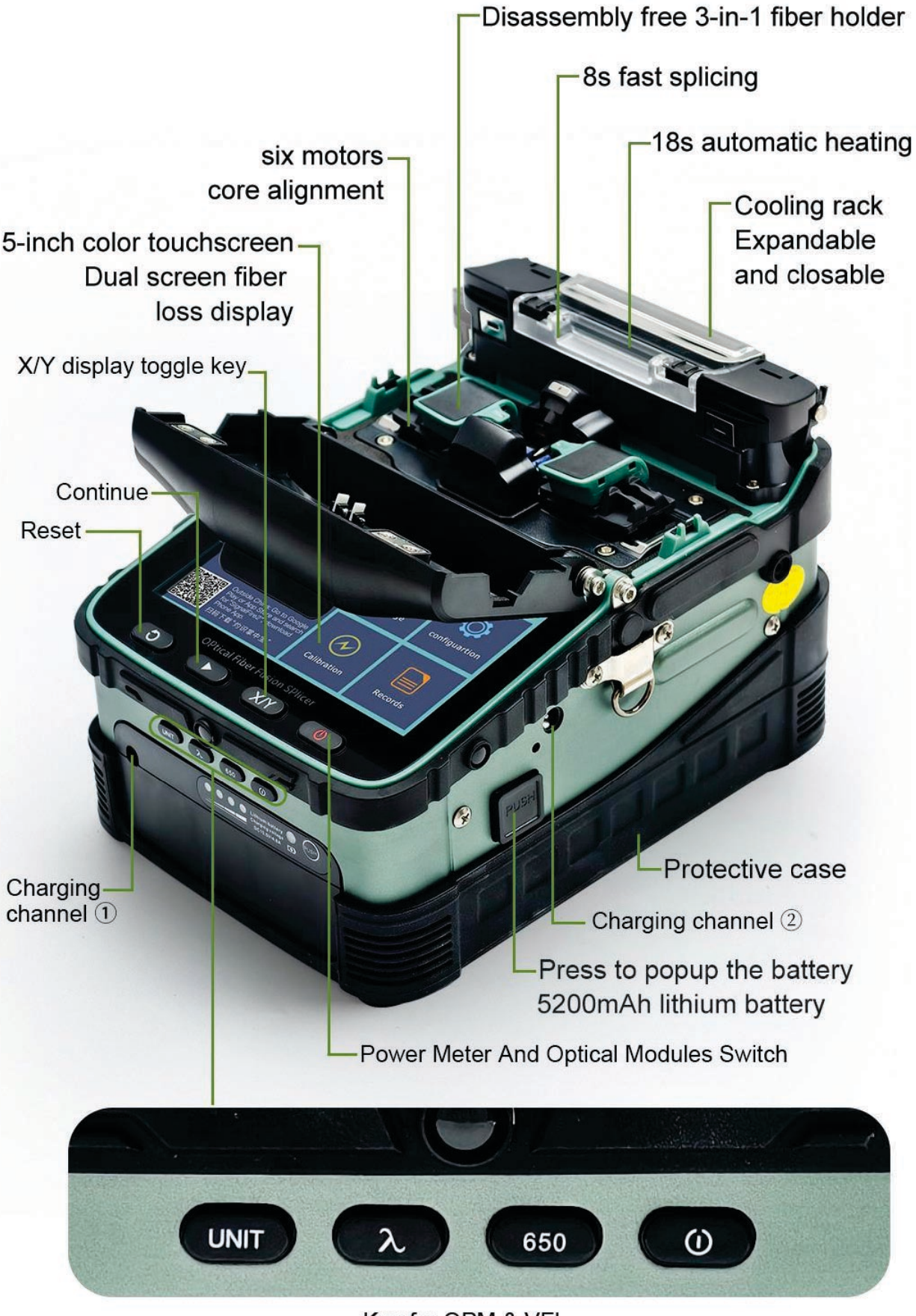
SIGNAL FIRE TRUSTWORTHY!

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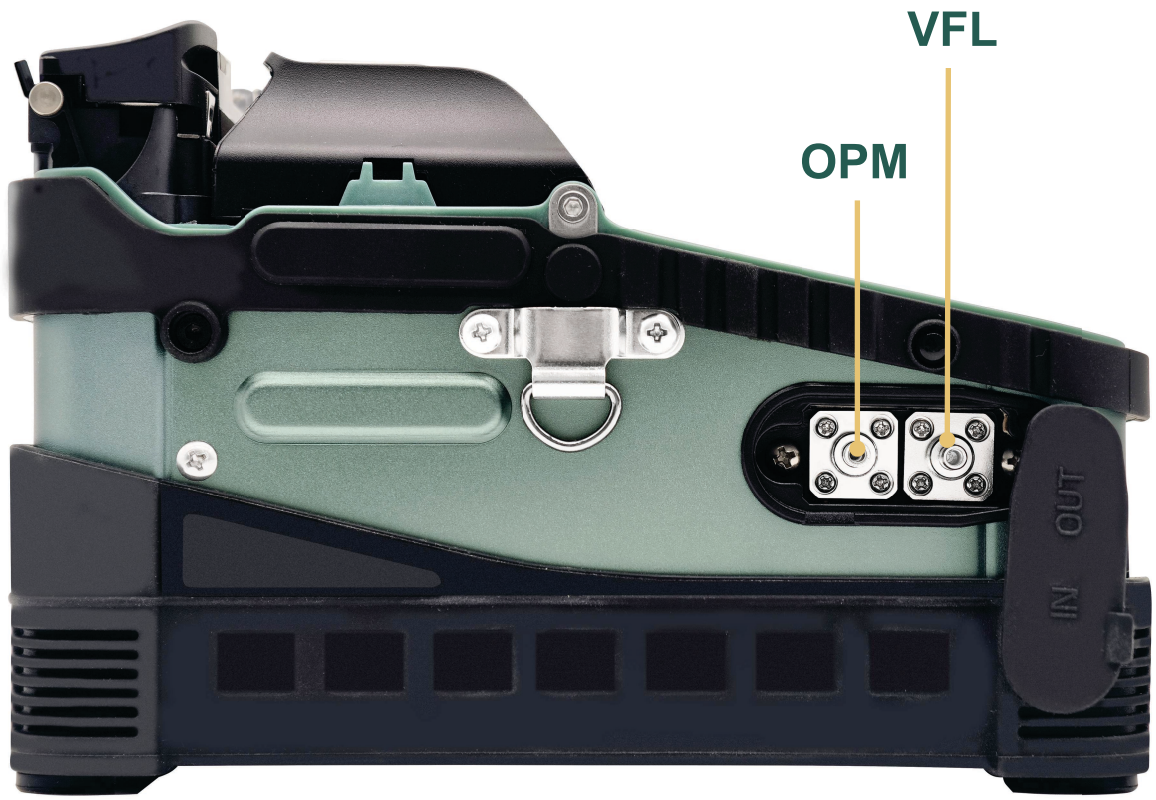


Signal Fire AI-6A+ optical fiber fusion splicer is an economical six motor machine, mainly suitable for security monitoring, FTTH entry, and short distance outdoor fiber fusion splicing. The machine adopts industrial CPU, which runs quickly; Adopting a 5-inch color touchscreen with a simple and intuitive interface, magnified 320 times, making it easy to observe the fiber core with the naked eye; 8 seconds high-speed splicing, 18 seconds heating; The machine comes with OPM and VFL functions, which make it more efficient compared to ordinary splicing machines; 5200mAh large capacity lithium battery, capable of splicing and heating around 160 cells, comes with a cooling rack that can be turned off or unfolded. The machine is equipped with 11 major global languages, allowing users to choose and remotely upgrade software systems. AI-6A+ will surely exceed your expectations!



Key for OPM & VFL

Within VFL and OPM function



Effectively measure connection losses, verify continuity, and help evaluate fiber link transmission quality

OPM

Switch between ten states

Wavelength: 850nm、1300nm、1310nm
1490nm、1550nm、1625nm、980nm
1270nm、1577nm、1650nm

VFL

Switch between three states

power: 15mW, 2Hz flashing and steady on mode

EXQUISITE DETAILS



5-inch color touchscreen

Intuitive operation, easily accessible with just one touch





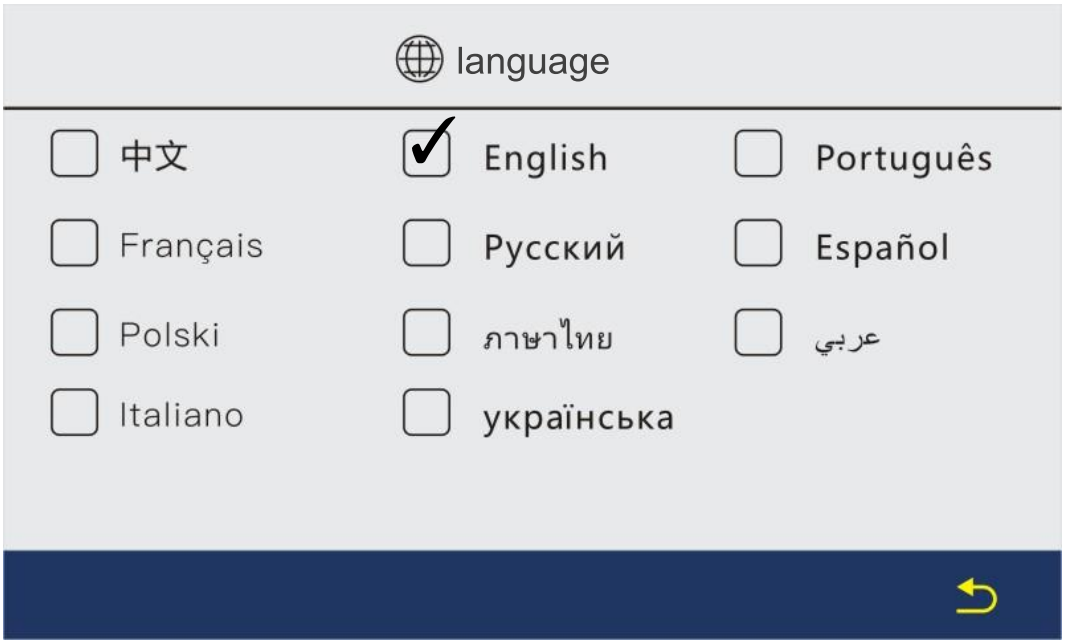
Industrial-grade CPU

1 second startup

Sensitive response/Smooth experience

Touch screen menu

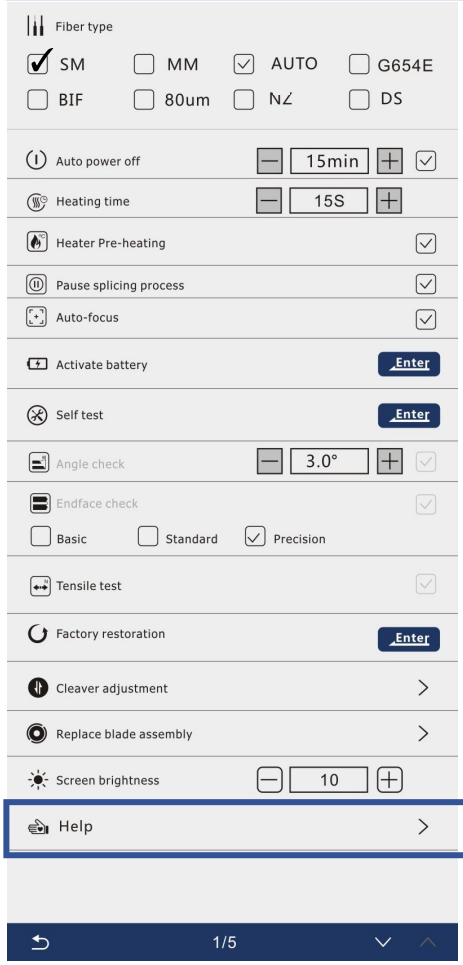
11 languages to switch freely



Chinese English French Russian Italian

Ukrainian Portuguese Polish Spanish Thai Arabic

Configuartion





Records

No	Time		loss
000007	2025-11-10	14:26	0.00 dB
000006	2025-11-10	14:25	0.01 dB
000005	2025-11-10	14:24	0.01 dB
000004	2025-11-10	14:22	0.00 dB
000003	2025-11-10	14:22	0.02 dB
000002	2025-11-10	14:21	0.01 dB
000001	2025-11-10	14:20	0.00 dB

1/5

5200mAh lithium battery

Dual charging channel

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



Charging time ≤3.0 hours

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





The battery can be removed and charged separately

Charging mouth

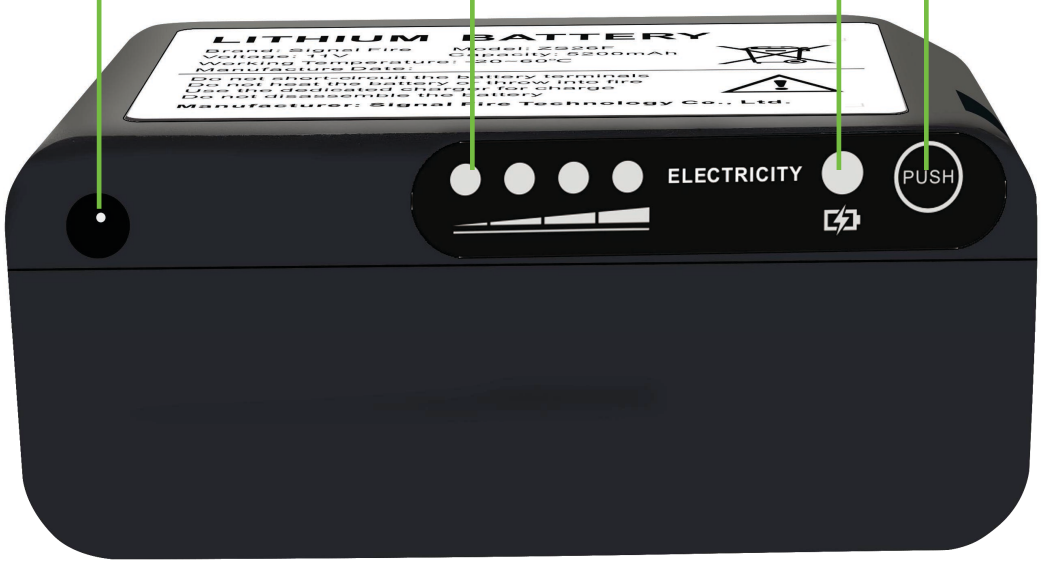
Input voltage :13.5±0.5V

Input current :4.8A

Power indicator light

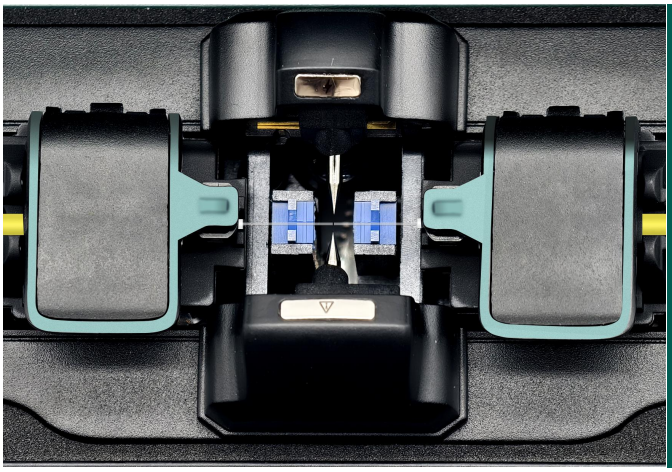
Charge indicator light

Press to check the power level

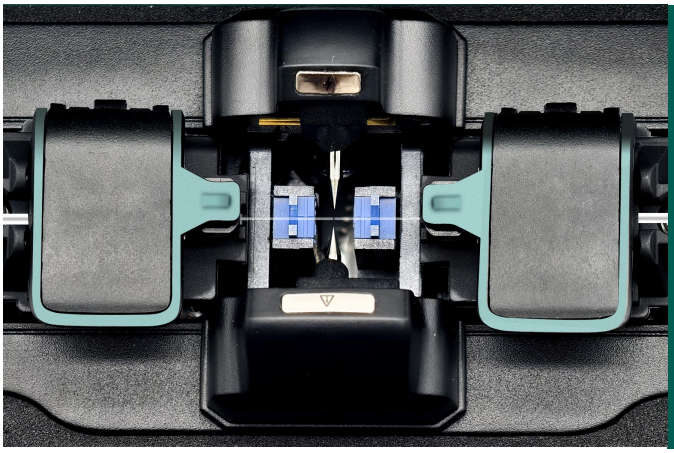


3 in 1 fiber holder

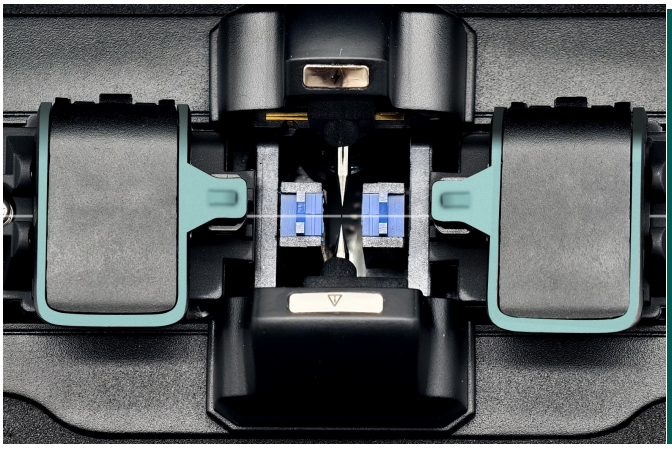
SM, MM, bare fiber, pigtail, Drop cable, multi fiber cable



Jumper(pigtail)

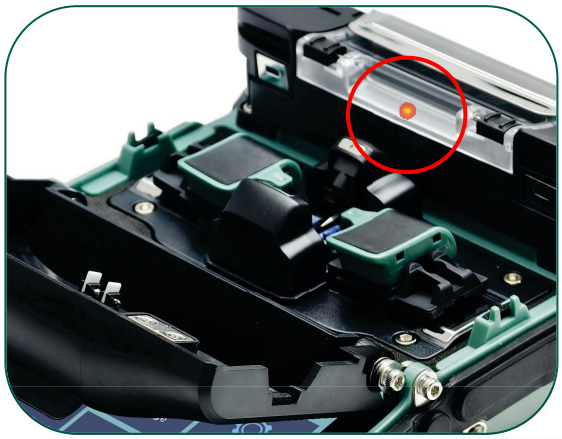


Drop Cable Fiber



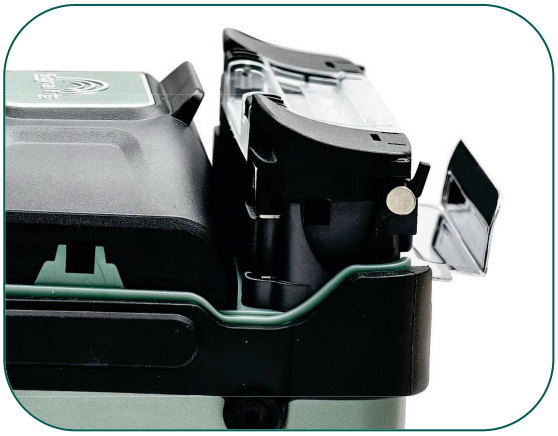
Bare Fiber

18s automatic heating



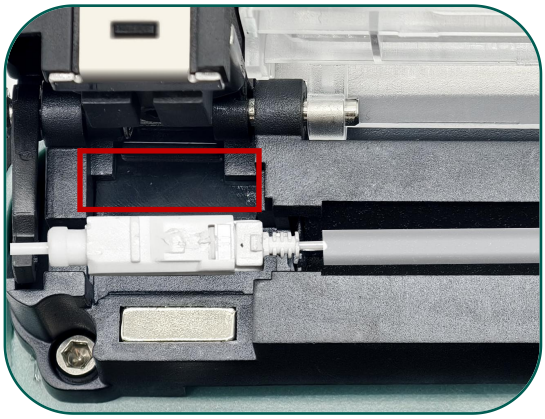
Preheating

Successful fiber melting. When opening the windproof cover to take out the fiber, the machine turns on pre heating for up to 8 seconds



Cooling rack

Expandable and closable



Heating part compatible with SC fiber

SC Fiber: Push up

Ordinary fiber: Push down

Dust prevention
Fall prevention
Shock prevention



Thickened buffer structure

Don't be afraid to knock! Touch! Fall!

Basic parameter

Fiber alignment	Core/cladding
Motor number	6 motors （accurate of fiber alignment：0.3μm）
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
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+26dbm Absolute error: <0.3dB (-50dbm ~+3dBm range)
Machine system languages	11 languages available（Chinese、English、French、Russian、Ukrainian、Italian、Portuguese、Polish、Spanish、Thai、Arabic）
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)， 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 color touchscreen
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℃, humidity: < 95%RH (no condensation), working altitude: 0 ~ 5000m, maximum wind speed: ≤15m/s

Standard Configuration





Fusion splicer



Fiber cleaver



Strap



User's manual
Quality Certificate
Warranty Card



wire stripping pliers



Miller stripper



Fiber for ARC calibration



Alcohol Bottle



Brush



Power Adapter

Size and weight



Machine weight

1.99kg (with battery)

1.63kg (without battery)



Toolbox weight

4.70kg

(including machine and accessories)



Total weight

5.90kg

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.