



AI-6C/6C+
OPTICAL FIBER
FUSION SPLICER

PRODUCT MANUAL

AI-6C/6C+

OPTICAL FIBER FUSION SPLICER



six motors
Fiber core alignment



Suitable for splicing projects of about 10KM line constructions, server rooms, FTTH projects, security monitoring and other splicing projects.



8s splicing
18s heating



Industrial-grade CPU
1s startup



5-inch color touchscreen
Automatic focusing
core alignment



APP intelligent
interconnection

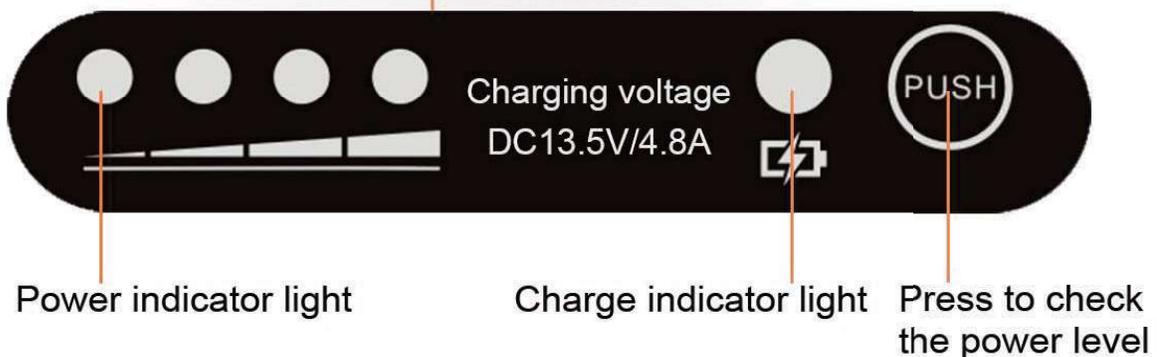
AI-6C/6C+

OPTICAL FIBER FUSION SPLICER



Signal Fire AI-6C/6C+ 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; 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-6C/6C+ will surely exceed your expectations!

Signal fire Intelligent Manufacturing



AI-6C/6C+

OPTICAL FIBER FUSION SPLICER

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



Language



Configuration



Calibration



Records

11 languages to switch freely

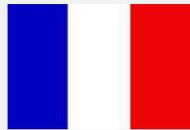
Multilingual Settings, covering the global market



Chinese



English



French



Russian



Italian



Ukrainian



Portuguese



Polish



Spanish



Thai



Arabic

AI-6C/6C+

OPTICAL FIBER FUSION SPLICER

5200mAh lithium battery

Dual charging channel

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



Press to pop up
the battery

Charging time ≤ 3.0 hours

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

3-in-1 universal fixture

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



Jumper fiber
(pigtail)



Drop cable



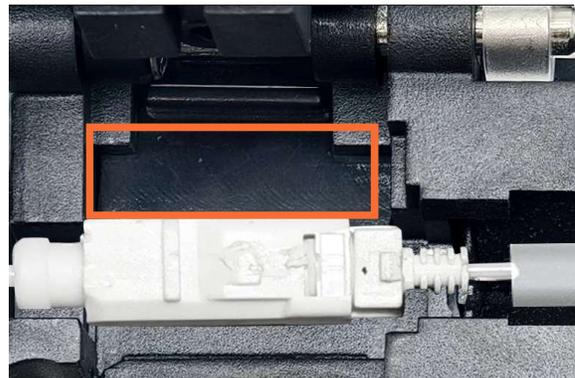
Bare fiber

EXQUISITE DETAILS



Activate preheating function in winter

The fiber fusion is successful. At the same time as opening the windproof cover, the heating tank automatically starts preheating for 6 seconds.



Heating part compatible with SC fiber

SC Fiber: Push up
Ordinary fiber: Push down



Heating part automatic lid closing



Cooling rack Expandable and closable

AI-6C/6C+

OPTICAL FIBER FUSION SPLICER

Lighting for splicer

Convenient for night operation



Built-in USB port

It can charge mobile phones and other mobile devices



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
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
External lighting	USB port can be connected with EXTERNAL LED light, convenient for night construction
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°C, humidity: < 95%RH (no condensation), working altitude: 0 ~ 5000m, maximum wind speed: ≤15m/s

AI-6C

Size / Weight / Standard configuration



Machine weight
1.99kg (with battery)
1.63kg (without battery)



Toolbox weight
4.70kg
(including machine and accessories)



Total weight
5.90kg



Toolbox



Fusion splicer



S07 Fiber cleaver



Alcohol Bottle



Brush



Signal fire stripper



Belt



Power Adapter



key



Inner hexagon



Toolbox strap



User's manual
Quality Certificate
Fiber for ARC calibration
Warranty Card

AI-6C+

Size / Weight / Standard configuration



Machine weight
1.99kg (with battery)
1.63kg (without battery)



Toolbox weight
6.95kg
(including machine and accessories)



Total weight
8.20kg



Toolbox



Fusion splicer



Spare electrode



S07 Fiber cleaver



Alcohol Bottle



Brush



Signal fire stripper



Belt



Power Adapter



key



Toolbox strap



Inner hexagon



User's manual
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