OPTICAL FIBER FUSION SPLICER

AI-8C

PRODUCT MANUAL

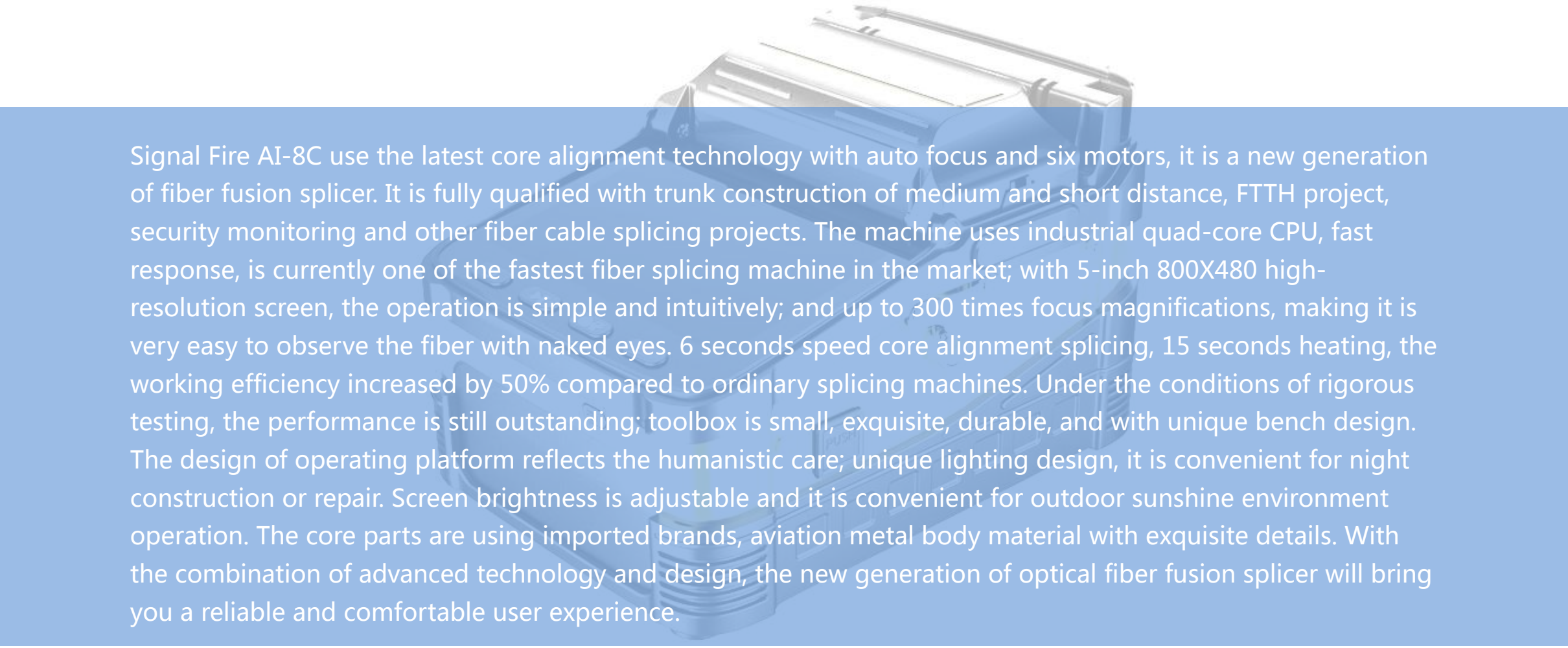
www.signalfiresplicer.com

SIGNAL FIRE TECHNOLOGY CO., LTD.

OPTICAL FIBER FUSION SPLICER

NEW PRODUCT LAUNCH
CLASSIC MASTERPIECE

OPTICAL FIBER FUSION SPLICER



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

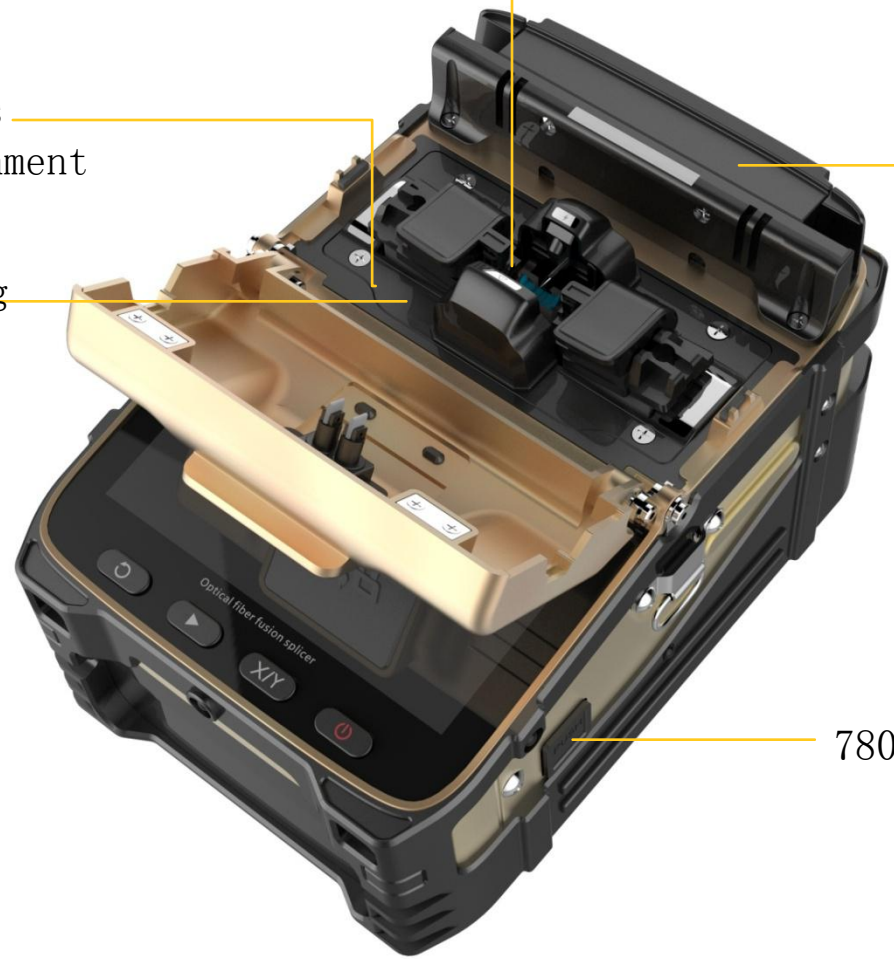
OPTICAL FIBER FUSION SPLICER

Disassembly free three-in-one fiber holder

Six motors
Core alignment

15 seconds fast heating

6 seconds fast splicing



7800mAh large capacity battery

METAL BODY

AESTHETIC DETAILS

- 26 patent results

Automatic heating

300 times magnification
auto focus

5 inch display Simultaneously
align fibers Loss display

Protective case

METAL BODY
AESTHETIC DETAILS

THE TOOLBOX

COMES WITH A STOOL TO FACILITATE THE CONSTRUCTION WORKERS.

Stool can bear 100KG

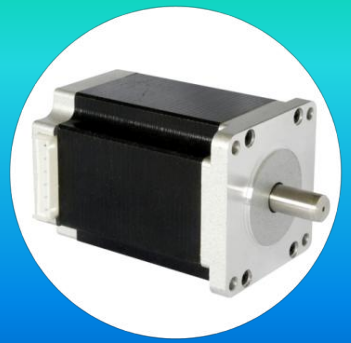
Remove the stool

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

Fiber cleave operator station

Two layers

CORE PARTS QUALITY ASSURANCE



Siemens stepper motor

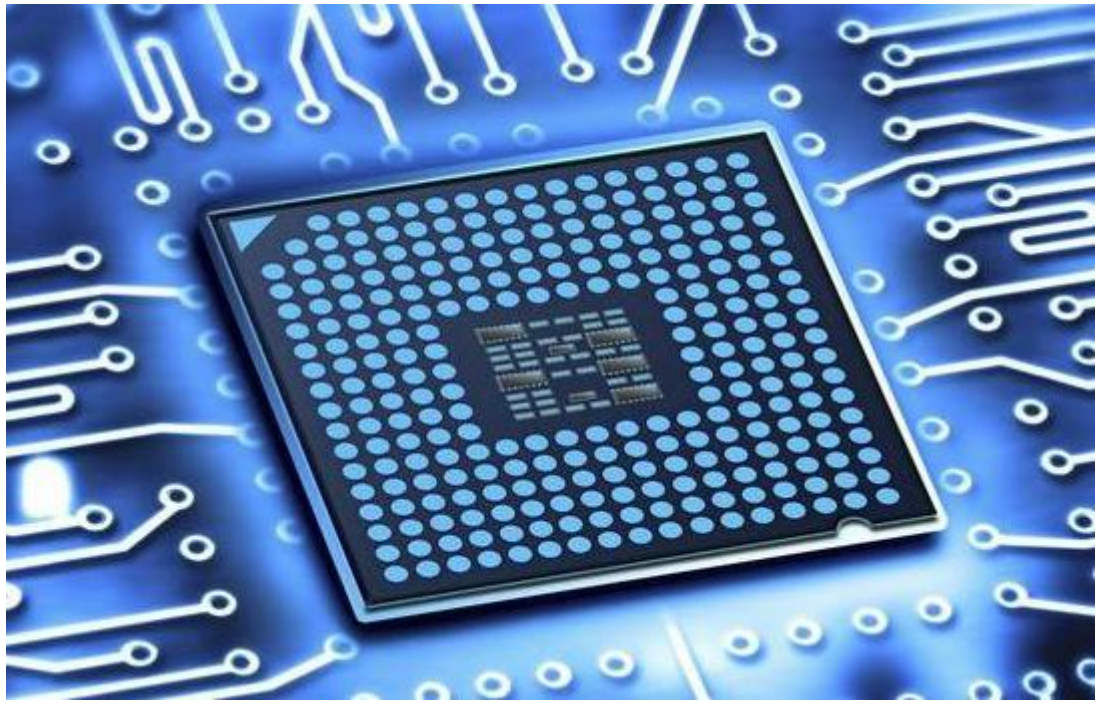
Roth ROUST linear guide

Sanyo lithium battery

Aviation metal material

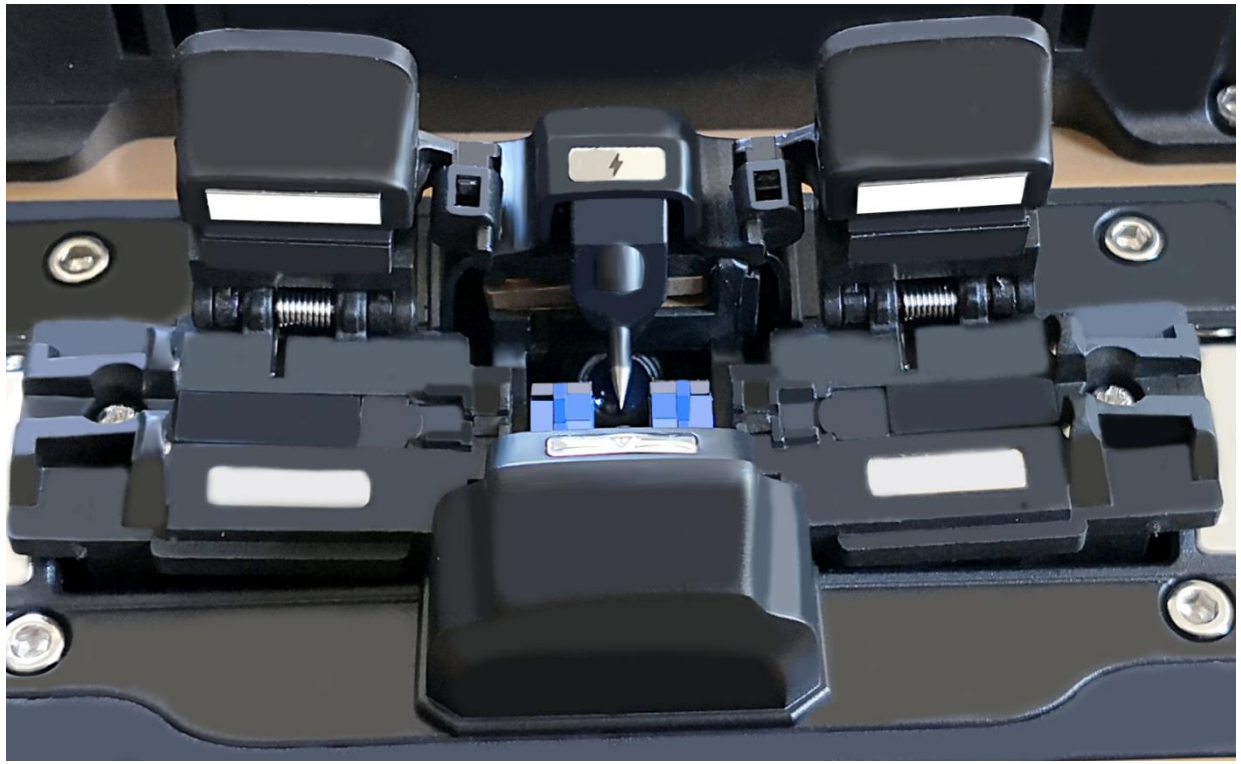
INDUSTRIAL QUAD-CORE CHIP CPU

Synchronous operation / speed response / no jammed / super experience



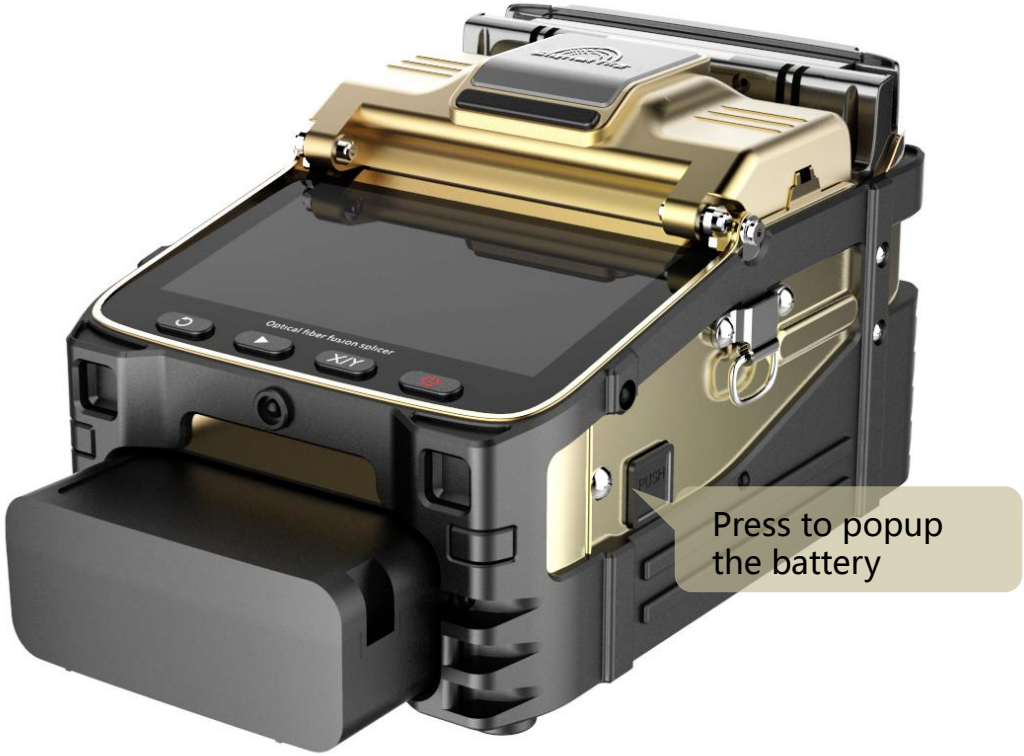
3 IN 1 FIBER HOLDER

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



7800mAh LARGE CAPACITY BATTERY

charging time ≤ 3.5 hours/continuous splicing and heating about 240 times



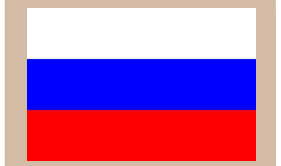
10 LANGUAGES TO SWITCH FREELY

Covers the global major user market

CHINESE

ENGLISH

FRENCH


RUSSIAN

ITALIAN

PORTUGUESE

POLISH

SPANISH

THAI

ARABIC

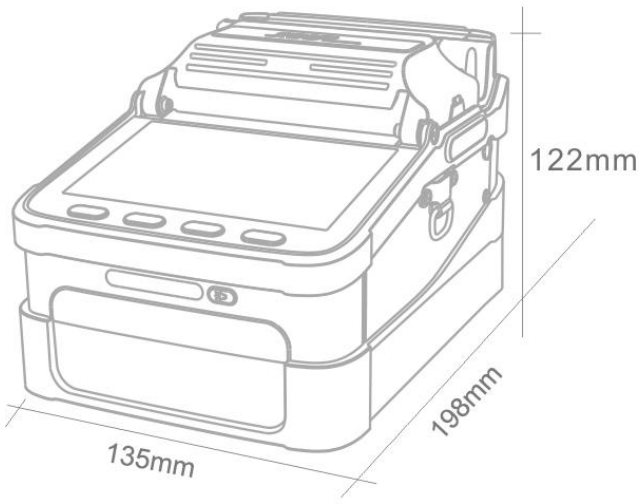
Show good performance in plateau, desert, and extreme cold environment

BASIC PARAMETER

Fiber alignment	Core/cladding alignment / Manual alignment
Splicing time	6S
Heating time	15S
Heating mode	Automatic heating (Preheating)
Focus mode	Six motors Auto focus
Applicable Fibers	SM(G.652&G.657)、MM (G.651) 、DS(G.657)、NZDS (G.655)
Splice Loss	0.025dB (SM) 、0.01dB (MM) 0.04dB (DS/NZDS)
Control technology	Real-time control and calibration of fusion ARC
Return loss	Better than 60DB
Fiber diameter	Cladding Diameter: 80-150μm Coating Diameter: 100-1000μm
Fiber Cleave Length	Coating less than 250μm: 8-16mm Coating less than 250-1000μm:16mm
Software updates Length	Automatically update、 Update by a key
Boot time	1 second

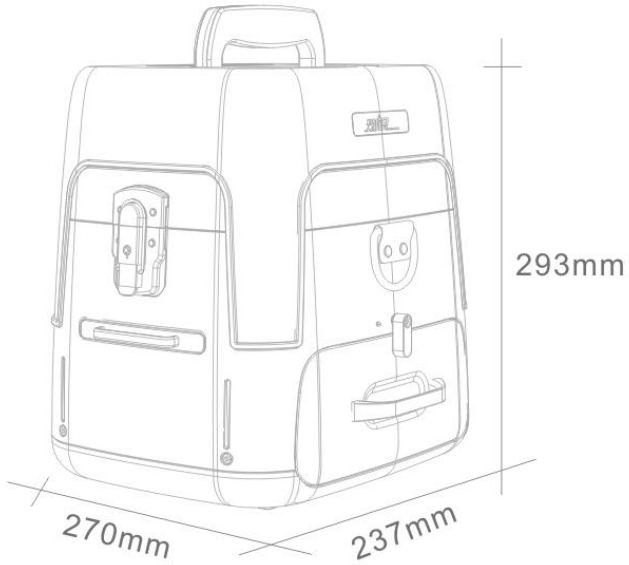
Language Setting	10 languages to switch freely
Tension Test	Standard 2N
Fiber holders	3 in 1 fiber holder, SM, MM, bare fiber, pigtail, rubber-insulated, multi fiber cable
Magnification	300 for X or Y view, 150 for X or Y view
Screen	5 inch TFT color display
Splicing Mode	Normal / high precision splicing
Splicing method	Fully automatic、Step by step splicing
Splicing record storage	Synchronize to the phone, the server to cloud storage unlimited
Built-in battery	7800 mA high-capacity lithium battery, charging time ≤ 3.5 hours, continuous splicing and heating about 240 times
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
Operating Conditions	Temperature -15 ~ +50 ℃, humidity: <95% RH (no condensation) Working altitude: 0 ～ 5000m. Resist max. wind speed: ≤ 15m / s
Shrinkable tube	60mm、50mm、40mm、25mm
Product	Waterproof, dust proof, shock-resistant

Size



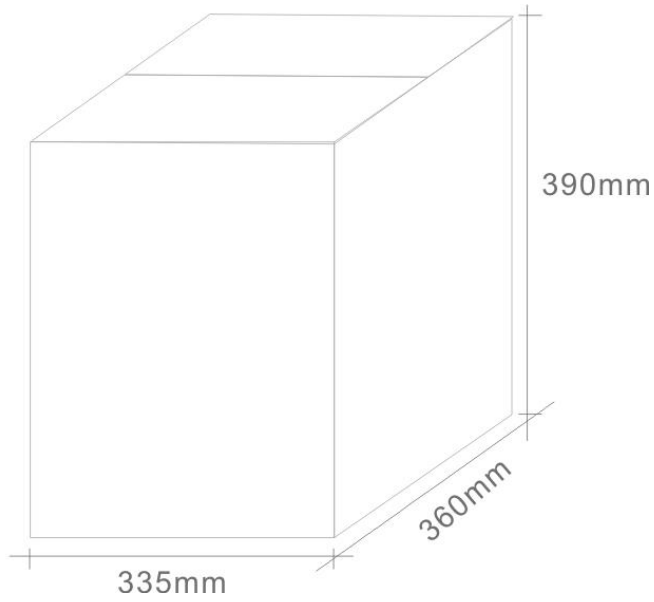
Machine weight

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



Toolbox weight

7.1kg (including machine and accessories)

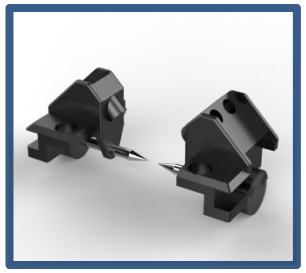


Total weight

8.40kg

Accessories in the tool box

Fiber Cleaver



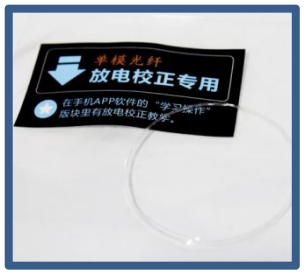
Spare electrode

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