

AI-8C

PRODUCT MANUAL

Vector Illustration

Vector Illustration

M A P

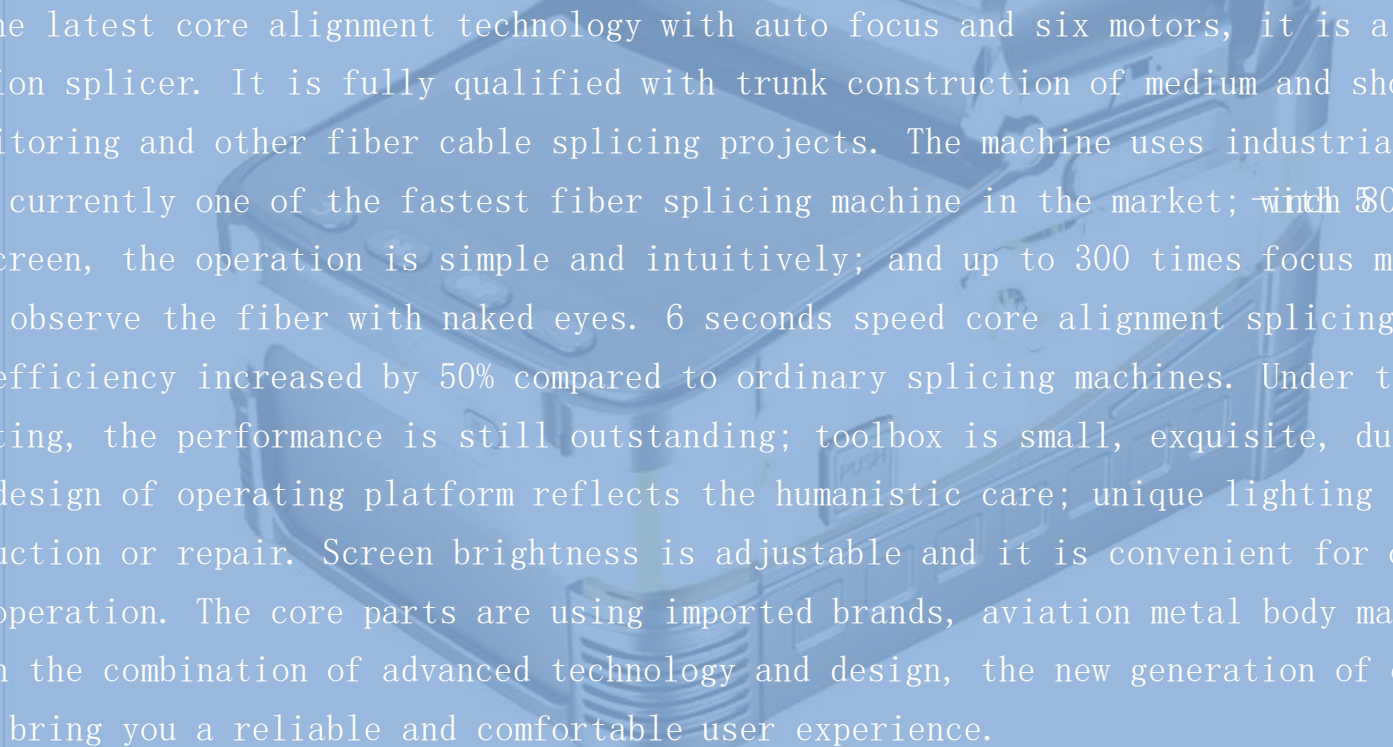
M A P

OPTICAL FIBER FUSION SPLICER



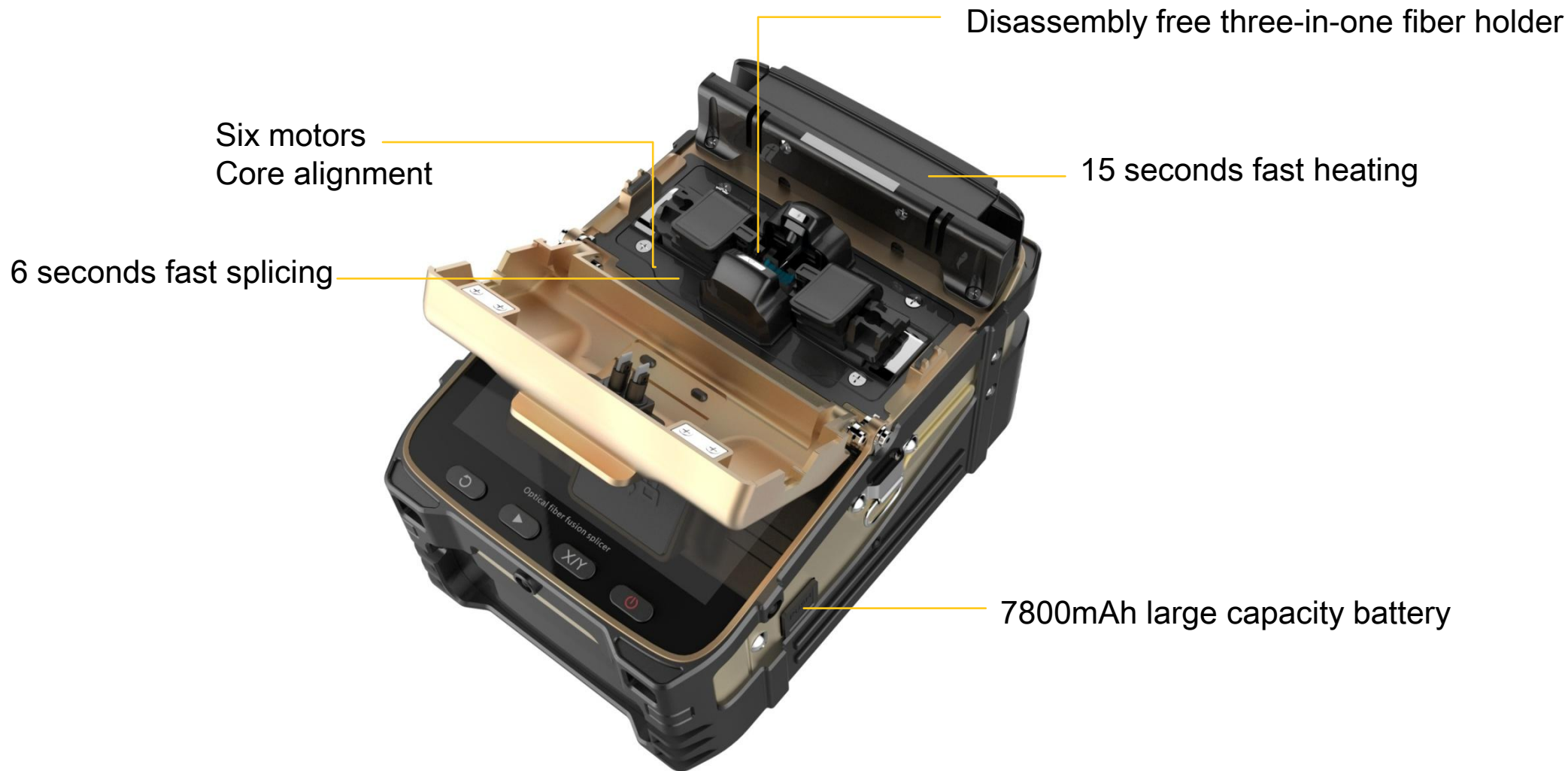
NEW PRODUCT LAUNCH

CLASSIC MASTERPIECE

The image shows a fiber fusion splicer, model AI-8C, which is a compact, rugged device used for joining optical fibers. It features a blue and black color scheme and is housed in a protective carrying case. The device has a large lens for viewing the fiber alignment and a control panel with various buttons and a small display. The background is a light blue gradient with a faint image of the splicer.

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-grade CPU, fast response, is currently one of the fastest fiber splicing machine in the market; with 300X480 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



METAL BODY

AESTHETIC DETAILS

• 26 patent results

Automatic heating

5 inch display Simultaneously align fibers Loss display

Protective case



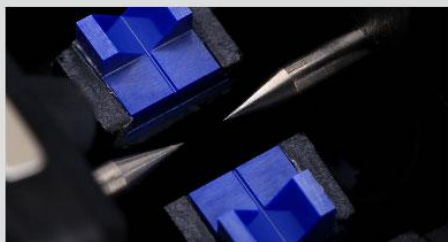
300 times magnification auto focus

METAL BODY

AESTHETIC DETAILS

PRODUCT DETAILS

Factory Address: No. 52 Gaoqiang Zone, Jiaxing Industrial Park, Qingsong District, Changshu, China. Factory Address: No. 52 Gaoqiang Zone, Jiaxing Industrial Park, Qingsong District, Changshu, China.



EXQUISITE DETAILS

Factory Address: No. 52 Gaoqiang Zone, Jiaxing Industrial Park, Qingsong District, Changshu, China. Factory Address: No. 52 Gaoqiang Zone, Jiaxing Industrial Park, Qingsong District, Changshu, China.



THE TOOLBOX

COMES WITH A STOOL TO FACILITATE THE CONSTRUCTION WORKERS.



Stool can bear 100KG

Remove the stool



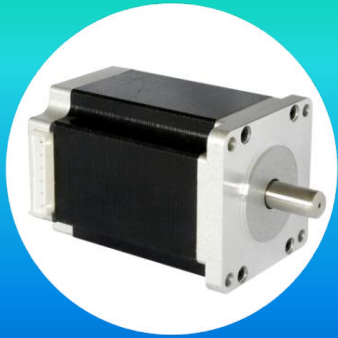
Do not need to take out the splicer machine from the toolbox while working.

Fiber cleave operator station



Two layers

CORE PARTS QUALITY ASSURANCE



Siemens stepper motor



Roth ROUST linear guide



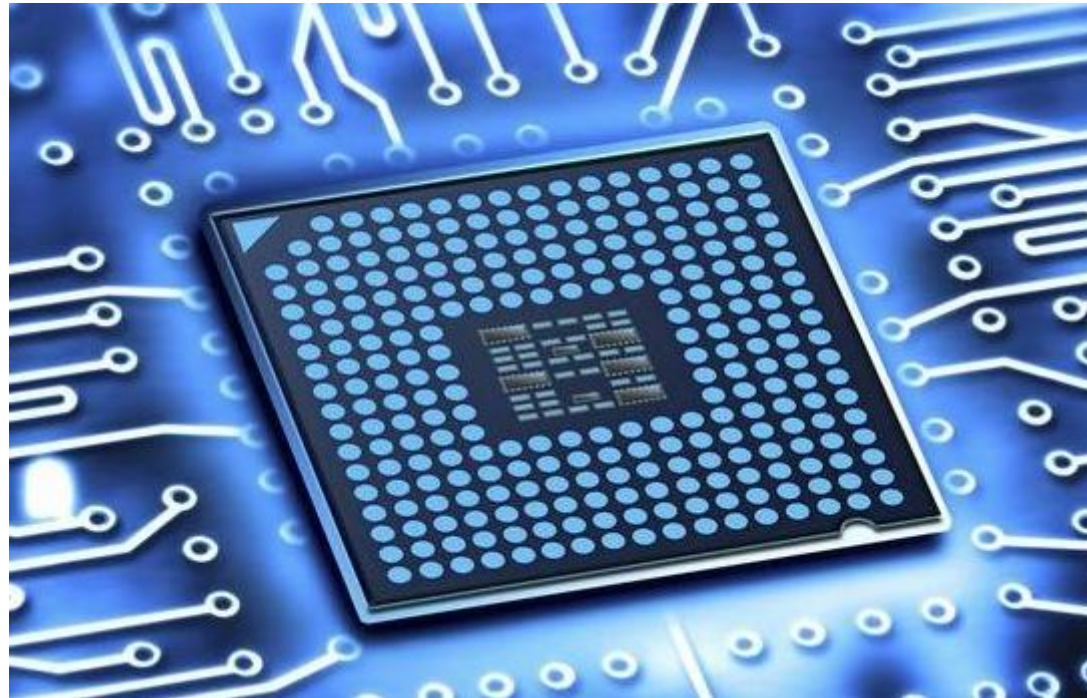
Sanyo lithium battery



Aviation metal material

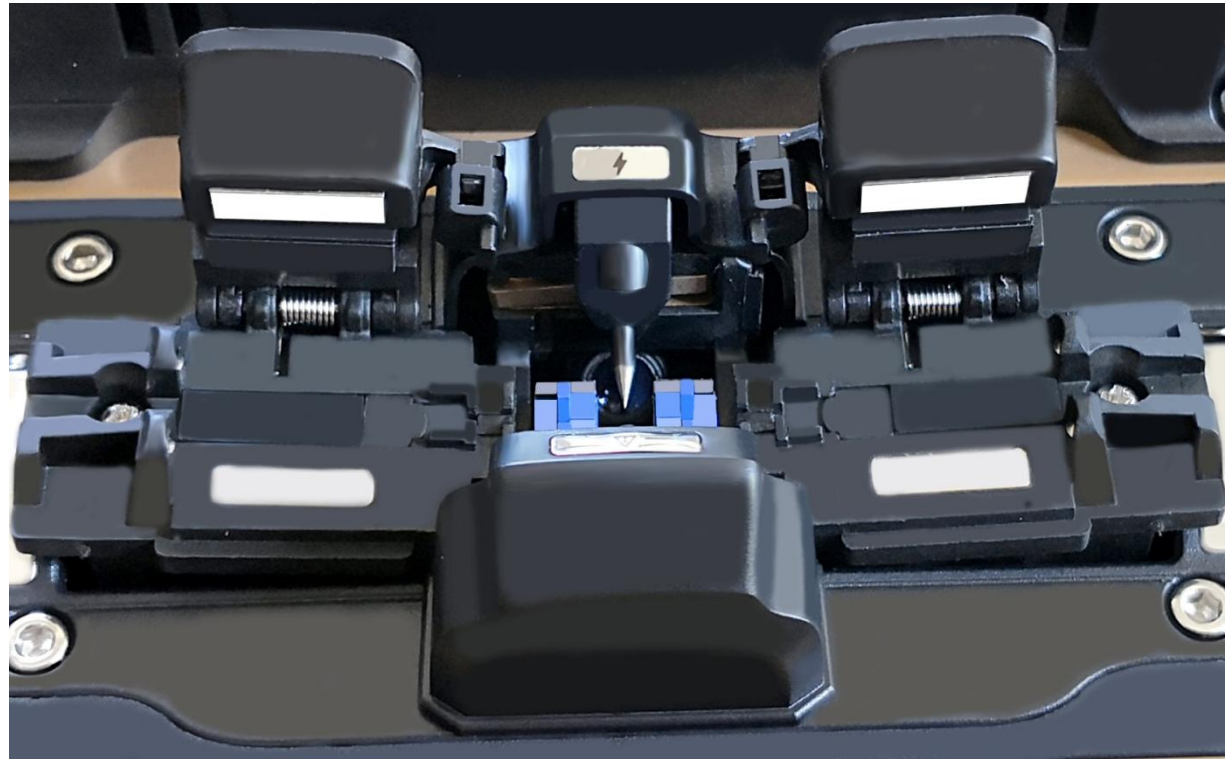
INDUSTRIAL QUAD-CORE CHIP CPU

Synchronous operation / speed response / no jammed / super experience



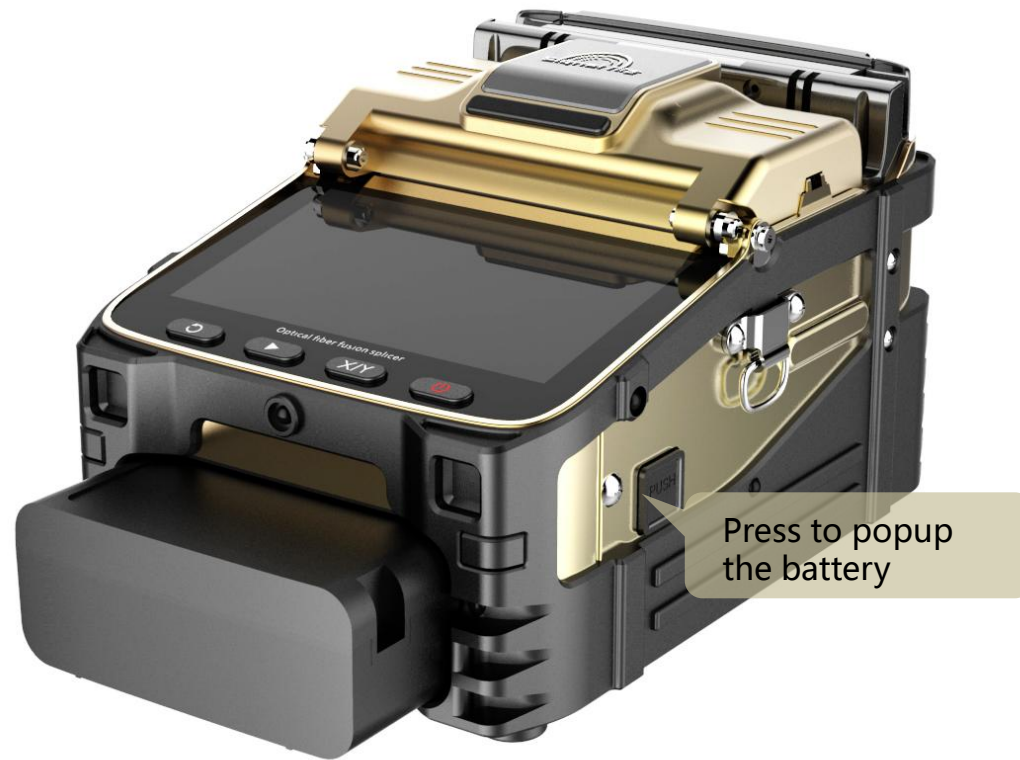
3 IN 1 FIBER HOLDER

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



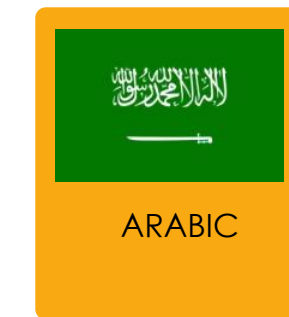
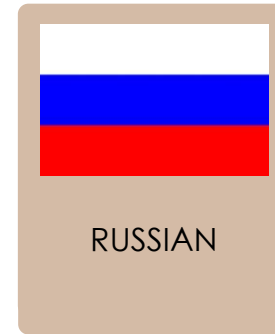
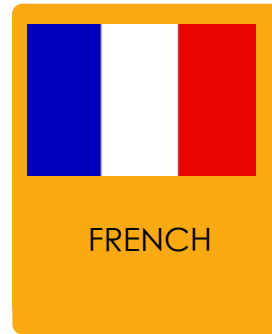
7800mAh LARGE CAPACITY BATTERY

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



10 LANGUAGES TO SWITCH FREELY

Covers the global major user market



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

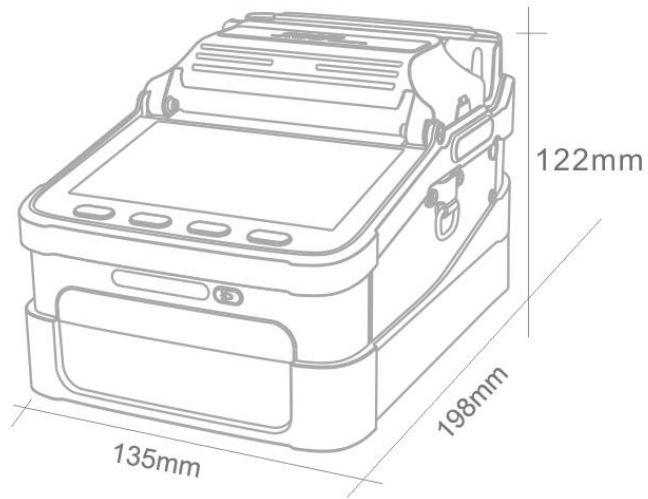


BASIC PARAMETER



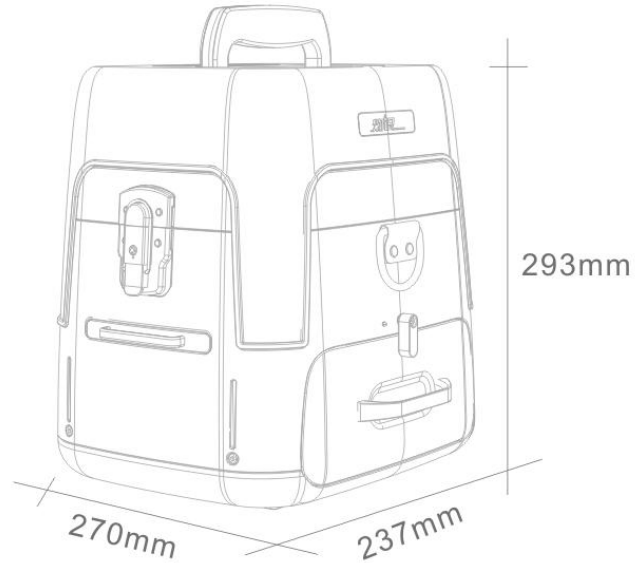
Fiber alignment	Core/cladding alignment / Manual alignment	Language Setting	10 languages to switch freely
Splicing time	6S	Tension Test	Standard 2N
Heating time	15S	Fiber holders	3 in 1 fiber holder, SM, MM, bare fiber, pigtail, rubber-insulated, multi fiber cable
Heating mode	Automatic heating (Preheating)	Magnification	300 for X or Y view, 150 for X or Y view
Focus mode	Six motors Auto focus	Screen	5 inch TFT color display
Applicable Fibers	SM(G.652&G.657)、MM (G.651) 、DS(G.657)、NZDS (G.655)	Splicing Mode	Normal / high precision splicing
Splice Loss	0.025dB (SM) 、 0.01dB (MM) 0.04dB (DS/NZDS)	Splicing method	Fully automatic、 Step by step splicing
Control technology	Real-time control and calibration of fusion ARC	Splicing record storage	Synchronize to the phone, the server to cloud storage unlimited
Return loss	Better than 60DB	Built-in battery	7800 mA high-capacity lithium battery, charging time ≤ 3.5 hours, continuous splicing and heating about 240 times
Fiber diameter	Cladding Diameter : 80-150μm Coating Diameter : 100-1000μm	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
Fiber Cleave Length	Coating less than 250μm : 8-16mm Coating less than 250-1000μm:16mm	Operating Conditions	Temperature -15 ~ +50 °C, humidity: <95% RH (no condensation) Working altitude: 0 ~ 5000m. Resist max. wind speed: ≤ 15m / s
Software update Length	Automatically update、 Update by a key	Shrinkable tube	60mm、 50mm、 40mm、 25mm
Boot time	1 second	Product protection	Waterproof, dust proof, shock-resistant

Size



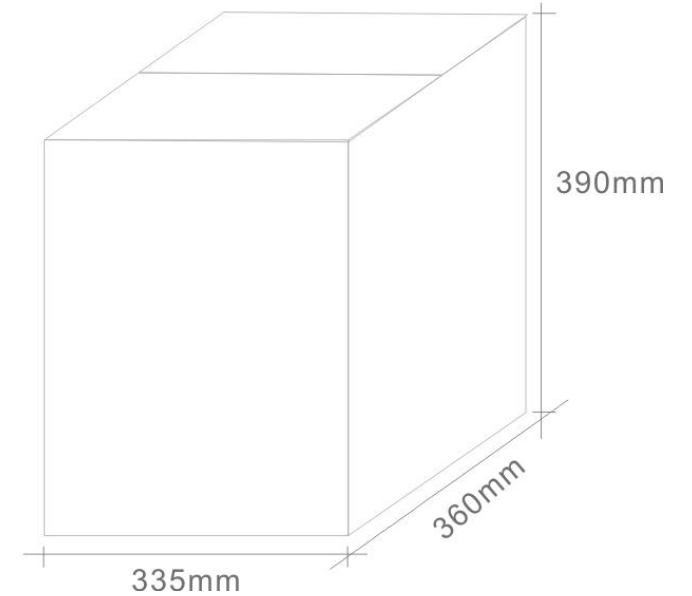
Machine weight

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



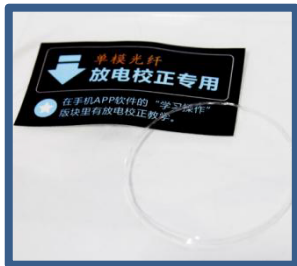
Miller stripper



Hex key



carrying case



Fiber for
ARC calibration



Strap



Power Adapter



Alcohol Bottle



Brush



User's manual
Quality Certificate
Warranty Card

INTELLECTUAL PROPERTY



ATTESTATION OF CONFORMITY

Attestation Number: ACDRCSC171128001-03
 Date of Issue: 2018-01-22
 Product: OPTICAL FIBER FUSION SPLICER
 Model(s): A1-8
 Brand: A1-7
 Manufacturer & Address: Signal Fire Technology Co., Ltd., No. 8-6 Qingyang Zone, Jiaolong Industrial Park, Qingyang District, Chengdu, China


Bay Area Compliance Laboratories Corp. (Chengdu) hereby declares that the submitted sample(s) of the above equipment has been tested for CE-marking and in accordance with the following European Directives and Standards:

Radio Equipment Directive 2014/53/EU

Essential Requirements	Harmonized Standards	Test Report Number
EMC	ETSI EN 301 489-1 V2.2.0 (2017-03) ETSI EN 301 489-17 V3.2.0 (2017-03)	RSC171128001-2
Radio	ETSI EN 300 328 V2.1.1 (2016-11)	RSC171128001-22
Safety	EN 60950-1 2006 + A11 2009 + A12010+ A12 2011 + A2 2013	RSC171128001-20
Health	EN 62479 2010	RSC171128001-3

CE Mark is permitted only after all applicable requirements are met in accordance with the European Union Rules, including the manufacturer's issuance of a Declaration of Conformity. The Declaration of Conformity is issued under sole responsibility of manufacturer. This attestation is specific to the standard(s) listed above and compliance with additional standards and/or European directives are applicable.

Attestation by: *Henry Ding*
 EMC Lead
 Signature



Bay Area Compliance Laboratories Corp. 171128001-03
 161001, International Plaza, No. 1, Singapore Road, China, Chengdu, Sichuan, China
 Phone: +86-28-85521129 Fax: +86-28-85521125
 85521125@bACL.com

TCB GRANT OF EQUIPMENT AUTHORIZATION TCB

Certification Issued Under the Authority of the Federal Communications Commission By: Bay Area Compliance Laboratory Corp. 1274 Amherst Street, Somerville, CA 94086 Date of Grant: 02/09/2018 Application Date: 02/09/2018

Signal Fire Technology Co., Ltd. No. 8-6 Qingyang Zone, Jiaolong Industrial Park, Qingyang District, Chengdu, China

Attention: Jason Yang



NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified herein for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: **2A9HATX**
 Name of Grantee: **Signal Fire Technology Co., Ltd.**
 Equipment Class: **Digital Transmission System**
 Notes: **OPTICAL FIBER FUSION SPLICER**

Grant Notes	FCC Rule Parts	Frequency	Output Power	Frequency Tolerance	Emission Designator
	15C	800-900 MHz	10W	±0.005%	F3D

Output power listed is constant.

TEST REPORT

REPORT No.: R25C180227F0061E Date: May 18, 2018 Page 1 of 26

Signal Fire Technology Co., Ltd. No. 8-6 Qingyang Zone, Jiaolong Industrial Park, Qingyang District, Chengdu, China

Report on the submitted samples said to be:


Sample Name: OPTICAL FIBER FUSION SPLICER
 Tested Style/ Items No.: A1-8
 Additional Style/ Items No.: A1-7
 Sample Receiving Date: February 27, 2018
 Testing Period: From February 27, 2018 to May 18, 2018
 Results: Please refer to next page(s).
 Remark: ① The tested Style/ Item No. is tested by the lab. ② The Additional Style/ Items No. declared in the applicant's declaration are not tested. Test materials are the same as the tested parts and the result of the test report is only responsible for the tested sample.

Summary of Test Results:

TEST REQUEST	CONCLUSION
Rohs Directive 2011/65/EU and its amendment directives -XRF screening test and wet A Chemical Testing (Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content)	Pass

Signed for and on behalf of BACL: *John*

Checked by: *Janis Xu* Technical Supervisor Approved by: *William Wei* Laboratory Manager



This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

This Test Report is issued by the Company subject to its Conditions of Issuance of Test Report printed overlaid or attached. The results shown in this Test Report are only for the equipment tested unless otherwise stated and such sample(s) are retained for 30days only. This Test Report shall not be reproduced, copied or used in any way without written approval of the Company.

Bay Area Compliance Laboratories Corp. (Chengdu)
 No. 8-6 Qingyang Zone, Jiaolong Industrial Park, Qingyang District, Chengdu, China
 Tel: +86-28-85520888 Fax: +86-28-85520889



Certificate

Certificate No.: 11417Q43162ROM

This is to certify that the Quality Management System of

SICHUAN ZHUOSHI TECHNOLOGIES CO., LTD.

Registered Production Address: No. B-6, Qingyang Park, Jiaolong Industrial Park, Qingyang District, Chengdu City
 Office Address: No. 404, Floor 4, Guancheng Garden (Tianxingge), NO.123, Xianxin Street, Chengdu CITY, Sichuan Province

Registered Social Credit Code: 9151010072411028D

Has been audited to conform to the following Quality Management System standard

GB/T 19001-2016/ISO 9001:2015

This Quality Management System is valid for the

Development and production of optical fiber splicer

Validated on: Aug. 22, 2017
 Date of issue: Aug. 22, 2017
 Date of expiry: Aug. 21, 2020

Issued by: *Wei Fanyun*



Beijing East Allright Certification Center Co., Ltd.





ISO 9001

Four 'T' Surveillance Certificate Mark
 One 'T' Surveillance Certificate Mark
 One 'T' Surveillance Certificate Mark

We obtained PCT patents, 8 invention patents, 16 utility model patents, and 2 appearance patents.



**专利合作条约
PCT
国际检索报告**

(PCT 第 18 条和规则 43 和 44)

申请人或代理人的档案号 LZP18005	发明名称 行 为	见 PCT/ISA220 类案 适用时, 见下面第 5 项
国际申请号 PCT/CN2016/096816	国际申请日 (日/月/年) 16.7.2016 (16.07.2016)	最早的优先权日 (日/月/年)
申请人 罗春晖 等		

按照第 18 条, 本国际检索报告由本国际检索单位发出并送交申请人。报告副本送交国际局。
本国际检索报告总计 5 页。
 它还有在本报告所引用的各现有技术文件的副本。

1. 报告的基础
a 关于语言, 进行国际检索基于:
 国际申请提交时使用的语言。
 该国际申请的_____语言译文, 为了国际检索的目的提供该种语言的译文(规则 13.2(a) 和 25.1(b))。
b 本国际检索报告考虑了本单元许可或被通知的检索细则中所做出的明显错误更正。(规则 43.6 之二 (a))
c 关于国际申请公开的任择性数据和/或数据序列(见第 1 栏)。
d 某些权利要求被认为不能检索的(见第 11 栏)。

2. 缺乏发明的单一性(见第 111 栏)。

3. 关于发明名称。
 同意申请人提出的发明名称。
 发明名称由本单元确定如下:

4. 关于摘要。
 同意申请人提出的摘要。
 根据细则 38.2(b), 摘要由本单元制定, 如第 IV 栏中所示。自本国际检索报告发文日起一个月内, 申请人可以向本单元提出意见。

5. 关于附图。
a 除摘要一起公布的附图是: 图 1
 按照申请人提交的。
 由本单元选择的, 因为申请人没有建议一幅图。
 由本单元选择的, 因为该图能更好地表示发明的特征。
b. 没有与摘要一起公布的附图。

PCT/ISA210 (规则 13E) (2015 年 1 月)

1/5

证书号第 3147253 号

实用新型专利证书

实用新型名称: 一种用于光纤熔接机的电极座

发 明 人: 罗春晖

专 利 号: ZL 2013 2 0219700.0

专利申请日: 2013 年 04 月 26 日

专 利 权 人: 罗春晖

授权公告日: 2013 年 09 月 04 日

本实用新型经过本局依照中华人民共和国专利法进行初步审查, 决定授予专利权, 颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。
本专利的专利权期限为十年, 自申请日起算。专利权人应当依照专利法及其实施细则规定缴纳年费。本专利的年费应当在每年 04 月 26 日前缴纳。未按照规定缴纳年费的, 专利权应当自缴纳年费期满之日起终止。
专利证书记载专利权登记的法律状况, 专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。

局长 **田力普**

第 1 页 (共 1 页)

证书号第 2046249 号

发明专利证书

发 明 名 称: 手机控制光纤熔接机的方法以及实现该方法的熔纤熔接机

发 明 人: 罗春晖

专 利 号: ZL 2014 1 0192764.5

专利申请日: 2014 年 05 月 08 日

专 利 权 人: 罗春晖

授权公告日: 2016 年 04 月 27 日

本发明经过本局依照中华人民共和国专利法进行审查, 决定授予专利权, 颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。
本专利的专利权期限为二十年, 自申请日起算。专利权人应当依照专利法及其实施细则规定缴纳年费。本专利的年费应当在每年 03 月 08 日前缴纳。未按照规定缴纳年费的, 专利权应当自缴纳年费期满之日起终止。
专利证书记载专利权登记的法律状况, 专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。

局长 **申长雨**

第 1 页 (共 1 页)

证书号第 3964676 号

外观设计专利证书

外观设计名称: 光纤熔接机工具箱

设 计 人: 罗春晖

专 利 号: ZL 2016 3 0402585.X

专利申请日: 2016 年 08 月 19 日

专 利 权 人: 四川均识科技股份有限公司

授权公告日: 2016 年 12 月 07 日

本外观设计经过本局依照中华人民共和国专利法进行初步审查, 决定授予专利权, 颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。
本专利的专利权期限为十年, 自申请日起算。专利权人应当依照专利法及其实施细则规定缴纳年费。本专利的年费应当在每年 08 月 19 日前缴纳。未按照规定缴纳年费的, 专利权应当自缴纳年费期满之日起终止。
专利证书记载专利权登记的法律状况, 专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。

局长 **申长雨**

第 1 页 (共 1 页)

SERVICE COMMITMENT

Five 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.