



FST-18S

High-Precision Fiber Fusion Splicer

PROFESSIONAL DEDICATED!
BEST SELLER GLOBALLY!



FST-18S High-Precision Fiber Fusion Splicer is a four-motor-driven fusion splicing device, specifically designed for FTTx fiber optic projects and daily maintenance, making it an ideal choice. The device is equipped with an industrial-grade true quad-core CPU (1.4GHz), featuring low power consumption and high performance, ensuring fast response and stable operation. The splicer comes with a 5-inch high-resolution color capacitive touchscreen, offering an intuitive interface and easy operation. It supports a fiber magnification of over 500x, allowing clear observation of fiber core alignment and improving splicing accuracy.

Equipped with a detachable 6800mAh high-capacity battery, a single charge supports approximately 300 splicing and heating cycles, meeting the demands of long-term outdoor operations. The built-in high-power LED white light and blue-backlit keypad buttons make nighttime work more convenient and hassle-free. The splicer features a no-mirror design, effectively reducing routine maintenance. The integrated alignment frame enhances structural stability, and the 3-in-1 detachable multi-function clamp is compatible with various fiber types. The FST-18S is capable of operating in harsh environments, with resistance to dust, wind, high temperatures, and high altitudes, making it a reliable choice for complex and challenging construction conditions.

FST-18S

OPTICAL FIBER FUSION SPLICER



5s Fast Splicing



15s Heating

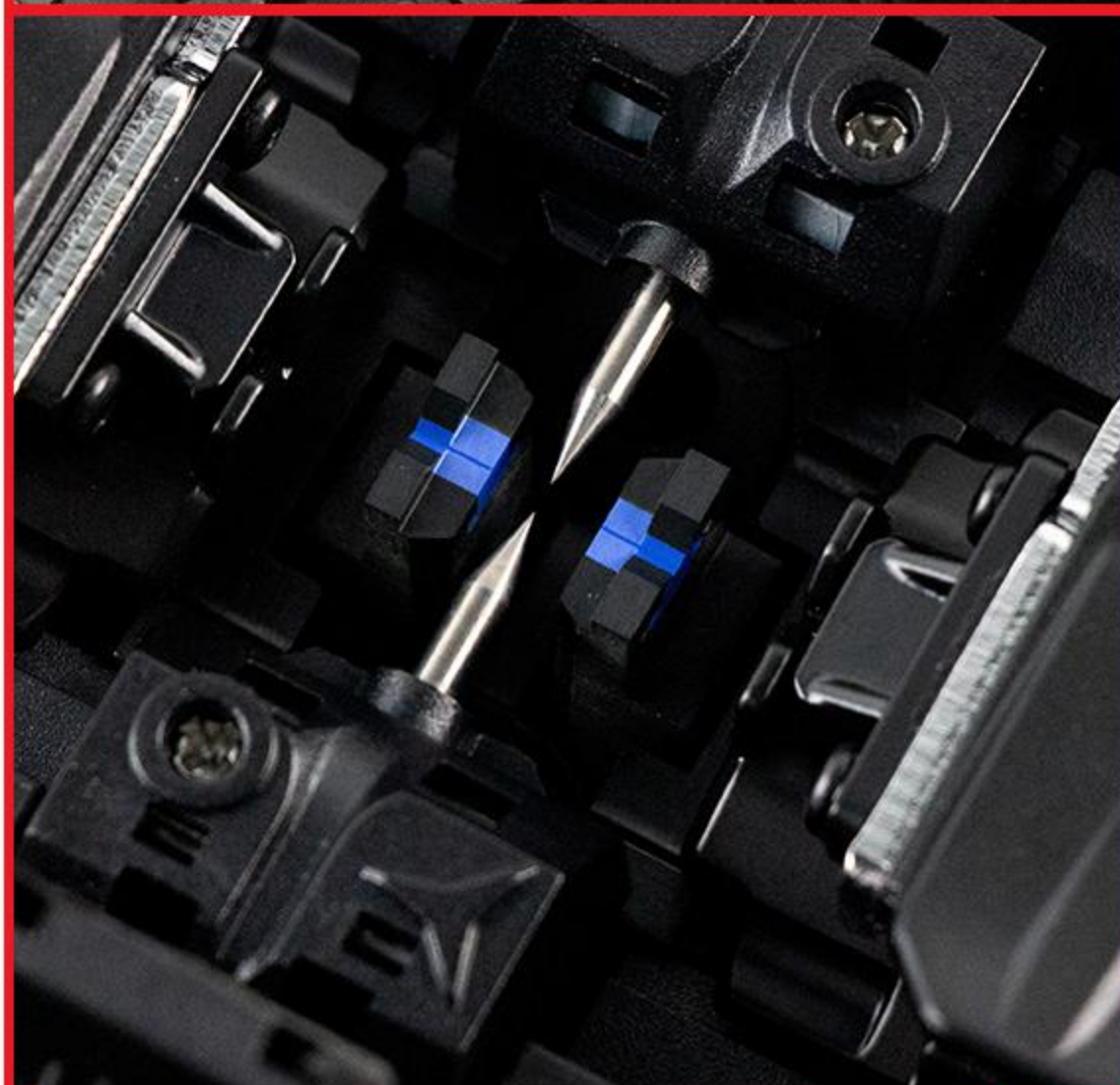


500X Magnification

FST-18S

OPTICAL FIBER FUSION SPLICER

EXQUISITE DETAILS

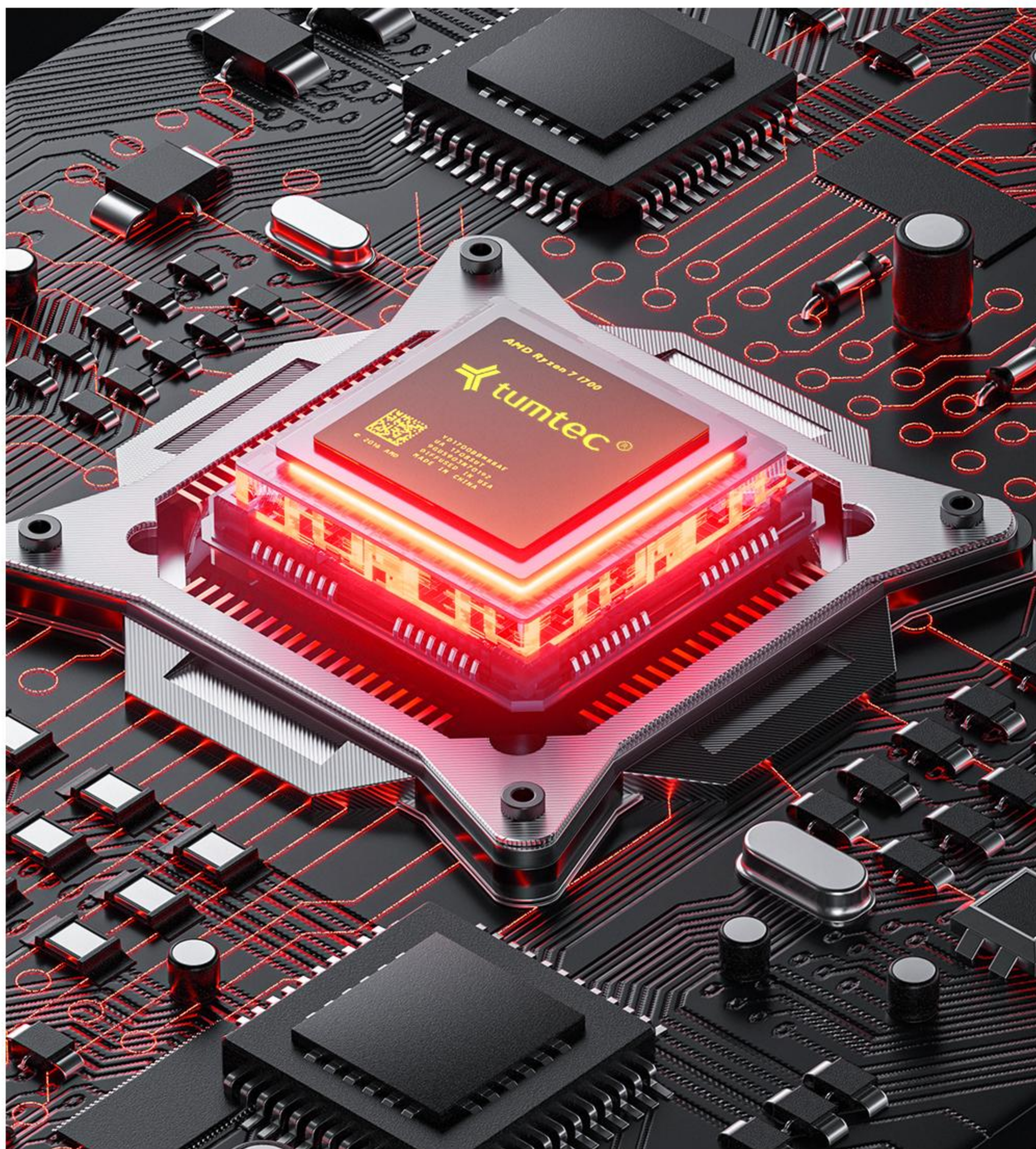


FST-18S

OPTICAL FIBER FUSION SPLICER

Industrial quad-core chip CPU

1s startup will enter the working state without waiting

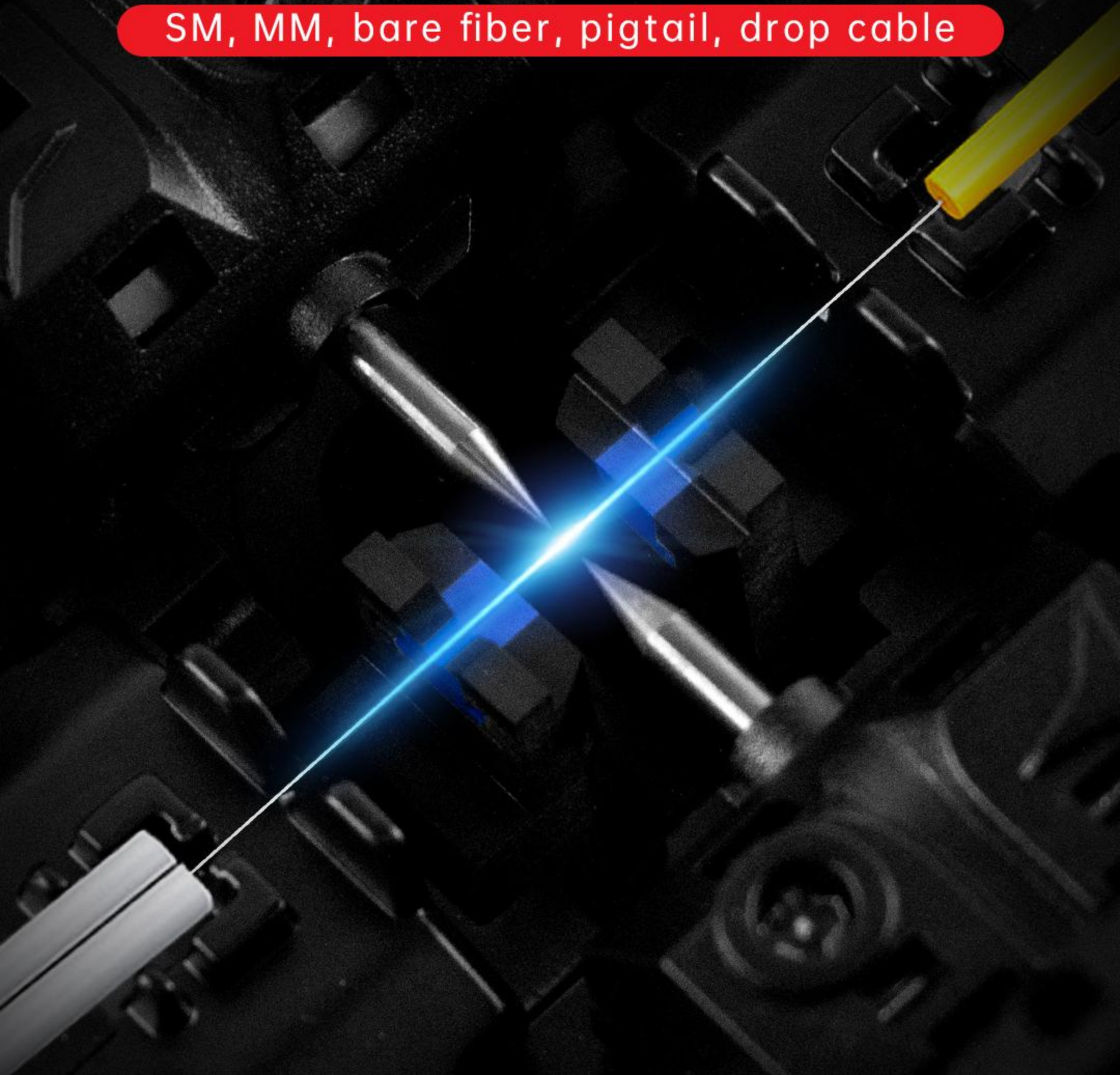


FST-18S

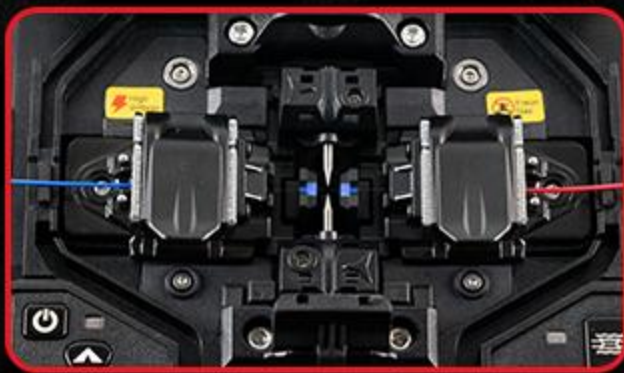
OPTICAL FIBER FUSION SPLICER

3 in 1 fiber holder

SM, MM, bare fiber, pigtail, drop cable



Pigtail fiber



Patch cord fiber



Drop cable fiber

FST-18S

OPTICAL FIBER FUSION SPLICER

Charging time $\leq$ 3 hours

Extended battery life, capable of continuous operation for 5 hours



The battery can be removed and charged separately

6800mAh
High capacity Li-battery



Real-time battery
level display



300 splicing
and heating cycles

15s automatic heating



Preheating

Successful fiber splicing. When opening the windproof cover to take out the fiber, the machine turns preheating for up to 5 seconds.



Compatible with various types of connectors, such as

LC / SC / FC / ST



Cooling rack

Expandable and closable

FST-18S

OPTICAL FIBER FUSION SPLICER

Innovative & Patented New Structure Heater with All-in-one Fiber Holder



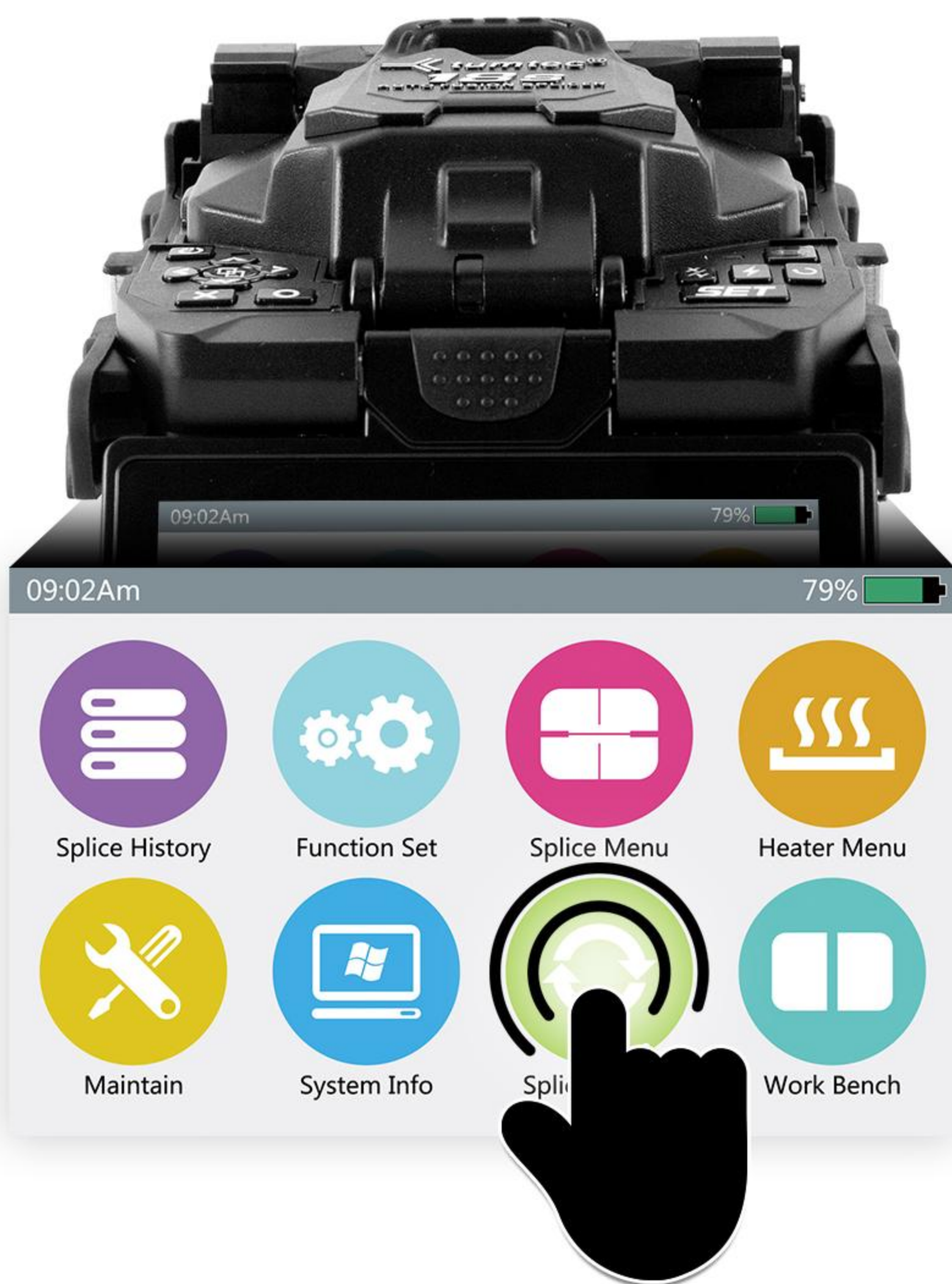
Upgrade for fast heating



The fixture can be removed and placed at the backside

High resolution capacitive touchscreen

5-inch LCD touchscreen featuring a humanized dual-operation interface



Basic parameter

Product Model	FST-18S
Compatible Fiber Types	SM(ITU-TG.652).MM(ITU-TG.651).DS(ITU-TG.653)NZ/NZDS(ITU-TG.655).BI(ITU-TG.657)/(ITU-TG.654E)
Compatible Fiber Cladding Diameter	0.25-3.0mm/Indoor Cable
Fiber Positioning & Cleave Length	Coating diameter: 0.125-1mm / Cleave length: 5-16mm
Splicing Modes	41 preset splicing modes, up to 100 user-storablemodes
Average Splicing Loss	SM: 0.02dB, MM: 0.01dB, DS: 0.04dB, NZ/NZDS:0.04dB, BI: 0.02dB, G.654E: 0.03dB (measured bycutback method according to ITU-T standards)
Return Loss	≥60dB
Illumination	3 high-power LED white lights
Splicing Time	SM FAST mode: 6 seconds
Splicing Loss Estimation	Yes
Splicing Length	20-60mm
Heating Oven /Heater Slot	5 preset heat shrink tube lengths:20/30/40/50/60mm
Heating Time	Heating time: adjustable 10-900s / Typical heatingtime: >15 seconds
Splicing Result Storage	10,000 latest storage records /1,000 images
Tension Test	≥1.96N
Display	Dual 90° cameras, 5.0-inch color high-resolutioncapacitive touchscreen
Fiber Magnification & Display	X, Y, X/Y double-click 500X magnification
Power Input	AC 100-240V, DC 12-15V
Battery Capacity	Battery capacity: 6800mAh
Heating Cycles (per charge)	Typical splicing & heating cycles: >300 times percharge
Operation Mode	Buttons and touchscreen
Adaptive Arc Discharge	Automatic adjustment based on air pressure andambient temperature
Electrode Life	Electrode life: 5,500 discharges
Ports /Interfaces	MiniUSB 2.0
Fiber Alignment	Cladding alignment, fine alignment
Weight	1905g (including battery)
Main Unit Dimensions	145x165x145mm (WxLxH)
Operating Conditions	Altitude: 0-5000m, relative humidity: 0-95%, -10to 50°C, max wind speed: 15m/s
Storage Conditions	Relative humidity: 0-95%, -40 to 80°C; batterystorage: -20 to 30°C for long-term storage

Accessories in the toolbox



SERVICE COMMITMENT

Two years Warranty , but these circumstances are not within the scope of this provision

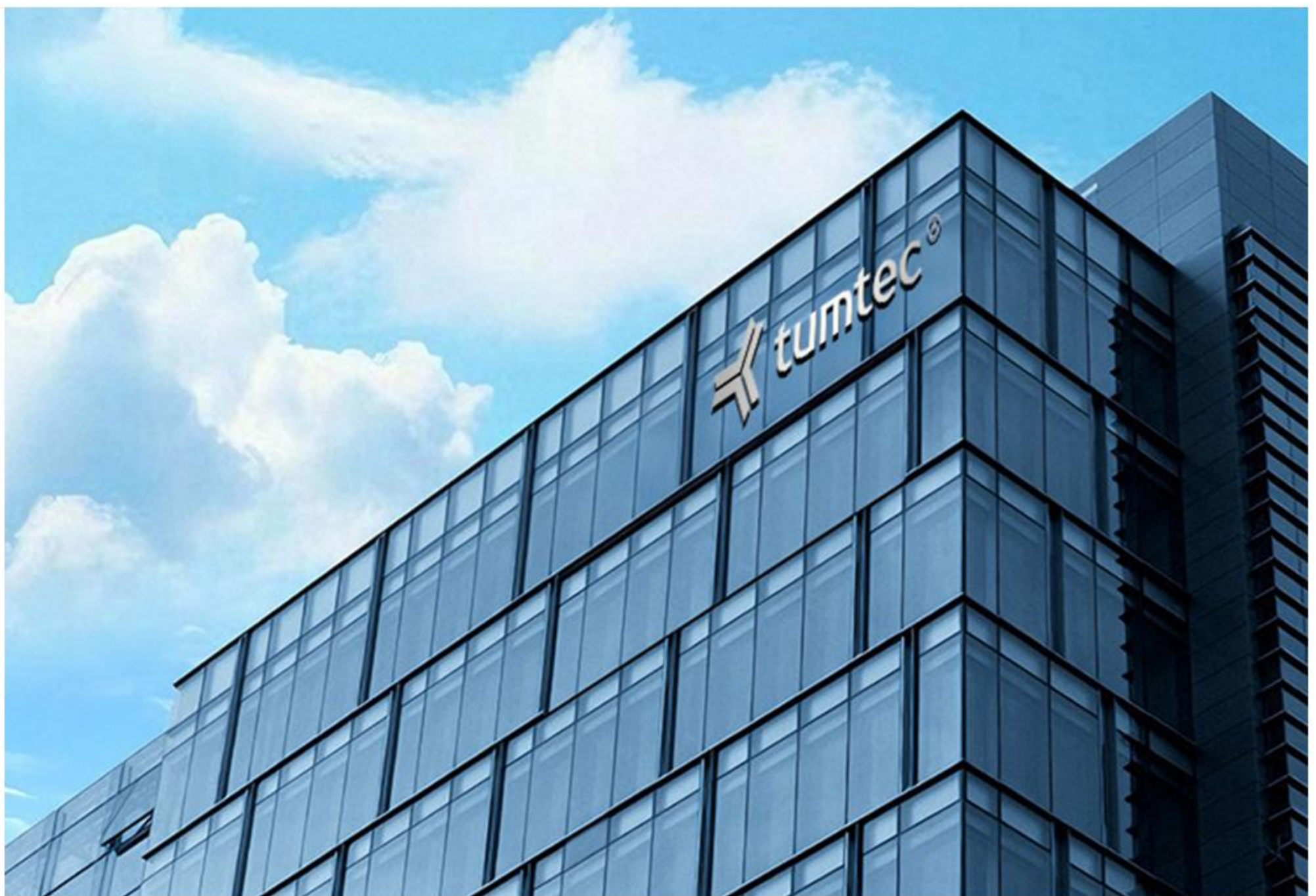
1

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.

2

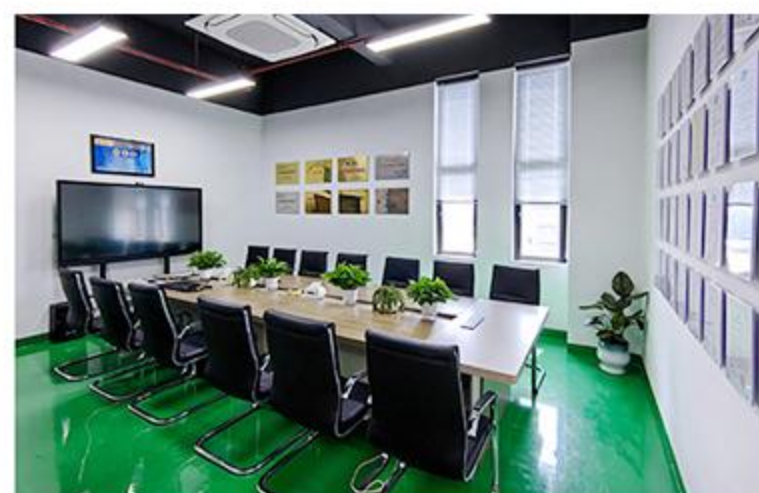
Battery and power adapter are warranty for 6 months, it is in free warranty where it is damaged or can not be charged in 6 months.

Guangdong Tumtec Communication Technology Co., Ltd. is a high tech enterprise specializing in the research, development, and production of equipment and instruments such as fiber optic fusion splicers and fiber optic cleavers. With two decades of commitment to the optical communications industry, our professional R&D expertise and high-quality production capabilities form the backbone supporting Tumtec extensive range of core products. Tumtec high-performance fiber optic fusion splicers cover a comprehensive series of models, including long-haul six-motor splicers, trunk fiber core alignment splicers, and FTTH-specific splicers. We continuously innovate and upgrade our products across multiple dimensions, such as response speed, suitability for ultra-long-distance trunk lines, nano-level alignment, high resolution touchscreens, and portable operation, positioning us as one of the world's most comprehensive manufacturers of fiber optic fusion splicers. As an industry benchmark and a well-known professional manufacturer in China, our business extends to over 70 countries worldwide. We consistently deliver high-quality services to tens of thousands of domestic and international enterprises, as well as numerous globally recognized manufacturers.





The factory is located at Runzhi science Park, Sanshan Avenue, Nanhai District, Foshan City, Guangdong Province. 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 "Tumtec" 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.



Exhibition photos



Intellectual Property Inspection and certification

Guangdong Tumtec Communication Technology Co., Ltd. is a high-tech enterprise specializing in the research, development, and production of equipment and instruments such as optical fiber fusion splicers and optical fiber cutters. With 20 years of dedication to the optical communication industry, the company boasts a strong independent R&D team and internationally advanced technologies. Our proprietary production facility spans an area of over 3,000 square meters and includes an independent R&D center, a CNAS-accredited laboratory, and an internationally standardized management system. The quality of our products meets Chinese national standards, American ANSI standards, German DIN standards, and European CE standards. We are committed to providing high-performance, high-quality, and cost-effective solutions to promote the nationwide development of FTTx.

Verification No.: CLO023030244633

GTS

DECLARATION OF CONFORMITY

Applicant: Tumtec Laser Technology (Guangdong) Co., Ltd.
Address of applicant: RM303-2 A3 Building Hantian Hi-Tech Zone 17th Shenzhen Rd. Guicheng Avenue Nanhai District Foshan City Guangdong China
Manufacturer: Same as the applicant
Product Description: Laser Level
Model No.: ZX, SX, BX, 12K, 16K
Sufficient samples of the product have been tested and found to be in conformity with
Test Standard: BS EN 60825-1:2014+A11:2021, BS EN IEC 61000-6-2:2019, BS EN IEC 61000-6-4:2019

As shown in the
Test Report Number(s): TLG023030244633, TEG023030244632
Date of issue: March 22, 2022
Date of expiry: March 21, 2028

This declaration applies to all specimens manufactured identical to the model submitted for testing/evaluation, in reference to the above listed standards and the Electrical Equipment (Safety) Regulations 2016 and Electromagnetic Compatibility Regulations 2016. The UK Conformity Assessed marking can be affixed on the product(s) according to the Great Britain regulations about its release and its use. This declaration doesn't imply assessment of the production of the product(s). The UK Conformity Assessed marking shown below can only be used under the responsibility of the manufacturer with the completion of declaration of conformity for all the relevant Directives. Shanghai Global Testing Services Co., Ltd. hereby acknowledges that the manufacturer has issued a DoC, only apply the UKCA marking in accordance with United Kingdom Rules.

Approved by: Remanue Weber
For and on behalf of: Global Testing Services Co., Ltd.

UK CA

GLOBAL TESTING SERVICES CO., LTD.

Global Testing Services Co., Ltd.
E-mail: info@gts-lab.com, help@gts-lab.com
Floor 2nd, Building D-1, No. 128, Xiangyin Road, Minhang District, Shanghai, China.

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Certificate No.: C00022090140907

GTS

Proof of Compliance under FCC Supplier's Declaration of Conformity

Proof of Compliance under FCC Supplier's Declaration of Conformity is hereby prepared to the named applicant and is valid only for the equipment identified below:

Applicant: Tianqi Optoelectronics Technology (Guangdong) Co., Ltd.
Address of Applicant: Unit 303-2, A3 Bld, Hantian Hi-tech Park, 17th Shenzhen Road, Guicheng Avenue, Nanhai district, Foshan, Guangdong, China.
Manufacturer: Tianqi Optoelectronics Technology (Guangdong) Co., Ltd.
Address of Manufacturer: Unit 303-2, A3 Bld, Hantian Hi-tech Park, 17th Shenzhen Road, Guicheng Avenue, Nanhai district, Foshan, Guangdong, China.
Product Description: Laser Level
Model/Item Number: BX, ZX, SX, 12K, 16K
Brand Name: N/A
Date of issue: September 13, 2022

The product, which has been tested in GTS laboratory and showed in GTS Report, is based on a single evaluation of one sample and confirmed to comply with the Requirements of following EMC standard:

Conforms to FCC Rules and Regulations under Part 15 (Subpart B) requirements. This product herewith complies with the requirements of the FCC Rules and Regulations as listed below:

Part 15.107: Conducted disturbance at mains terminals
Part 15.109: Radiated Spurious Emissions

Approved by: Remanue Weber
For and on behalf of: Global Testing Services Co., Ltd.

GLOBAL TESTING SERVICES CO., LTD.

Global Testing Services Co., Ltd.
E-mail: info@gts-lab.com, help@gts-lab.com
Floor 2nd, Building D-1, No. 128, Xiangyin Road, Minhang District, Shanghai, China.

Copyright of this certificate is owned by Global Testing Services Co., Ltd. and may not be reproduced other than in full and with the prior approval of the General Manager.

Certificate of Compliance

No. 0P141205-GTCQW25
Technical Construction File No. MD-TCF-161125-R594

Certificate's Holder: Guangdong Tumtec Communication Technology Co., Ltd.
Rm303 Zhiyuan Poly 11th Mansion Dengxue Road Foshan, China

Certification ECM Mark: 

Product: Fiber Optic Fusion Splicer
Model(s): FST-83A

Verification to: Standard: EN ISO 12100:2010, EN 60204-1:2006+A1:2009+AC:2010
related to CE Directive(s): 2006/42/EC (Machinery), 2014/35/EU (Low Voltage)

Remark: The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of ECM in reference to the above listed Standards. The above Compliance Mark can be affixed on the product(s) according to the ECM regulation about its release and its use. The regulation can be found at www.en.ecm.com.it. This Certificate of Compliance can be checked for validity at www.en.ecm.com.it. This verification doesn't imply assessment of the production of the product(s).

Additional information, clarification about the CE marking: We, after that a 10% for the CE marking process is in place, whereas the manufacturer is responsible to start the CE marking Certification Procedure and to perform of the necessary activities, as required by the Directive before placing the CE mark on the product(s).

CE

Date of issue 05 December 2016
Chief Manager: 
Expiry date 04 December 2021
Deputy Manager: 

Ente Certificazione Macchine Srl
Via Ca' Becca, 243 - Loc. Castello di Senigallia - 48033 Senigallia (BO) - ITALY

CC

MANAGEMENT SYSTEM CERTIFICATE

Certification No. 3911950032602R05

This is to certify **Foshan TUMTEC Communication Technology Co., Ltd.**
Unified Social Credit Code: 91440600MA4UJQABX5

Registered Address: No. 5, Luojingwei Industrial Zone, Pingnanxiang, Guicheng Street, Nanhai District, Foshan, Guangdong
Auditing Address: No. 5, Luojingwei Industrial Zone, Pingnanxiang, Guicheng Street, Nanhai District, Foshan, Guangdong / Unit 302-1, 3F, Building 5, Area A, Hantian Science and Technology City, No. 17 Qianhai Road, Guicheng Street, Nanhai District, Foshan, Guangdong

that has been assessed and registered as meeting the requirements of **ISO 45001: 2018**

Scope of Certification: Occupational Health and Safety Management Activities Related to R&D, Manufacture and Sale of Communication Equipment (Optical Fiber Welding Machine) and Cutting Knife

Registration Date: 29 Oct. 2019
Expiry Date: 28 Oct. 2022

Signed by: 


This certificate holder should get external of the supervisory audit at least once every year within the validity period, and the audit certified sign should be affixed to the designated location on the certificate to maintain validity of this certificate. The certificate information can be checked on the CNCA website (www.cnca.org.cn) or CCC website (www.ccc.org.cn).

Shenzhen Onelink Certification Center Co., Ltd.
Certification and Accreditation Administration of P.R.C. (CNCA) No. 2018-201
Add: Room 1113, Block 12th, 2nd phase Yantou, Lianhua Road, Nanshan District, Shenzhen, 518055 China
Tel: +86-755-22872212
Web: www.onelink.cc

GTS

Test Report

Report No.: GTS219010427EN
Job No.: 01908
Date: September 14, 2022

Applicant: Tianqi Optoelectronics Technology (Guangdong) Co., Ltd.
Address: Unit 303-2, A3 Bld, Hantian Hi-tech Park, 17th Shenzhen Road, Guicheng Avenue, Nanhai district, Foshan, Guangdong, China

Sample Name: Laser Level
Sample Model: ZX, SX, BX, 12K, 16K
Sample Receiving date: 2022-09-01
Test period: 2022-09-01 - 2022-09-14
Test Requirement: The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, RoHS Directive 2011/65/EU and its amendment Directive (EU) 2015/863

Test Method: Please refer to next page(s)
Test result: Please refer to next page(s)
Conclusion: Please refer to next page(s)
Note: Applicant address, sample name and model information have been provided by the customer. GTS is not responsible for its authenticity.

Tested by: 
Approved Signature: GTS5930

Without the written agreement of the company, the data is not allowed to copy the report in part or in full.

Shanghai Global Testing Services Co., Ltd.
Floor 2nd, Building D-1, No. 128, Xiangyin Road, Minhang District, Shanghai, China
Tel: (86-21) 3363 7884 Fax: (86-21) 3363 7819 E-mail: info@gts-lab.com Web Site: <http://www.gts-lab.com>

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UDEM

CERTIFICATE

ATTESTATION CERTIFICATE OF ELECTROMAGNETIC COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully.

2014/35/EU Low Voltage Directives have been taken as references for those processes

Company Name: Tianqi Optoelectronics Technology (Guangdong) Co., Ltd.

Company Address: Unit 303-2, A3 Bld, Hantian Hi-tech Park, 17th Shenzhen Road, Guicheng Avenue, Nanhai District, Foshan, Guangdong, China

Related Directives and Annex: 2014/35/EU Low Voltage Directive, 2014/30/EU Electromagnetic Compatibility Directive

Related Standards: EN 60825-1:2014+A11:2021, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019

Product Name: Laser Level

Report No and Date: TLG022090140906, TEG022090140906

Product Brand/Model/Type: ZX, SX, BX, 12K, 16K

Certificate Number: M.2022.204.C77218
Initial Assessment Date: 07.09.2022
Registration Date: 08.09.2022
Renewal Date/No: -
Expiry Date: 07.09.2027

The validity of the certificate can be checked through www.udem.com. The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of its Declaration of Conformity for all the relevant Directives. This certificate respects the property of UDEM International Certification Auditing Training Center and may be used for its own internal or external use only. The above content is not to be used in any of its certificate for its own internal or external use only. The certificate only covers the product(s) shown below and not the production process of the manufacturer. The certificate is not valid for the production of the product(s) shown below and not the production process of the manufacturer.

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Phone: +390521 643333 Fax: +390521 643334
E-mail: info@udem.com - www.udem.com

UDM International Certification Auditing Training Center Industry and Trade Inc. Co.