

***EQUIPOS DE FUSIÓN  
Y MEDICIÓN***



**BY FIBER SYSTEM**

**PRODUCT MANUAL**

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FUSION SLICER

# FUSION SPLICER

## 4106S

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# Product Overview

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Obtaining 16 patents of invention and 58 technical innovations, a brand-new product- 4106S Optical Fiber Fusion Splicer is launched, thanks to 5 years of painstaking research of 28 engineers. 4106S implements industrial-grade CPU+FPGA structure of high-performance, completely fresh HD optical fiber microscope, imported high-speed motor and aluminum-magnesium alloy materials extensively. Compared with JW4106, our start product, JW4106S lowers the size by 38%, the weight by 52%, the power consumption by 57%, but improves the speed by 60%, the environment adaptability by 80% and the reliability (MTBF) by 200%. You can get unprecedented fusion splicing experience.

# Main Characteristics

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- Precise cladding alignment, ultra-low fiber fusion splicing consumption 7s fast fusion splicing
- 18s highly efficient heating
- 320 times image magnification
- 5mm fusion splicing for fibers of ultra-short cutting length
- 300 groups of fusion splicing modes
- 100 groups of heating modes
- 10000 groups of fusion records

- 64 images storage Ceramic presser foot
- Dual-direction splicing, automatic splicing, intelligent pyrocondensation
- USB and SD card interfaces, U-disk automatic software upgrade
- Three Splicing modes: auto, half-auto, manual
- Built-in modular lithium battery, supports 220 times of splicing and heating cycles.

# Technical Specifications

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<b>Optical Specifications</b>	<b>4106S</b>
<b>Fiber heater</b>	Effective heating length: ≤60mm Heating time: 10s~255s, settable as required. Typical heating time: ≤25s(standard 40mm sleeve), ≤28s(standard 60mm sleeve).
<b>Power supply</b>	External DC power input Input voltage is 13.5±0.5V; input current≥4.4A; socket center is positive. Built-in lithium-ion battery for power supply. The lithium-ion battery is 11.1V, ≥5.2Ah, full charging time is approx. 2.5h.
<b>Dimensions and weight</b>	Dimensions: W×H×D=120mm×130mm×154mm(without vibration-free rubber pad) Weight: approx.1.95kg(with the lithium-ion battery), approx.1.75kg(without the lithium-ion battery).
<b>Environmental conditions</b>	Operating temperature: -10°C~+50°C Temperature limit: -20°C~+55°C Operating humidity: 95%RH and below(non-condensing) Max. wind speed: 15m/s Storage temperature: -40°C~+80°C, Storage humidity: 95%RH and below (non-condensing). Typical loss values of spliced points are: Single-mode fiber: 0.03dB Multi-mode fiber: 0.01dB Dispersion shifted fiber: 0.04dB
<b>Splice loss</b>	Non-zero dispersion shifted fiber: 0.04dB Typical splice time: 7s(FAST mode, typical) Monitor: with touch screen function, 4.3 inch TFT color LCD USB port: system update and data transmission Real-time display of remaining battery capacity Built-in lighting with high brightness, for convenient loading of fibers



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