



Fusion Splicer

SP-FS16S



Shenzhen SPEEDWOLF Technology Co., Ltd.

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Overview

Obtaining 16 patents of invention and 58 technical innovations, a brand-new product—SP-16S Optical Fiber Fusion Splicer is launched, thanks to 5 years of painstaking research of 28 engineers

SP-16S 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, SP-16S 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.

Product Features

- Precise fiber core 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 Parameters

Optical Specifications	SP-FS16S
Fiber heater	Effective heating length: ≤60mm Heating time: 10s~255s, settable as required. Typical heating time: ≤25s(standard 40mm sleeve), ≤28s(standard 60mm sleeve).

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

Standard Configuration

No	Name	Qty
1	Fusion Splicer (SP-FS16S)	1 set
2	Fiber Cleaver	1 pc
3	Fiber Stripper	1 pc
4	AC Adaptor	1 pc
5	Li Battery	1 pc
6	Charger	1 pc
7	Spare Electrodes	1 pair
8	Cooling Tray	1 pc
9	User Manual CD	1 pc
10	Carrying Case	1 pc
11	2G USB Flash Disk	



Important Notice

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