

FSM-03

Optical Fiber Splicing Machine

Engineered by FirstFiber Technologies, the FSM-03 high-performance optical fiber fusion splicer is designed for complex and demanding work environments. The device features exceptional shockproof, waterproof, and drop-proof capabilities, ensuring robust environmental adaptability. It is equipped with an all-in-one multi-function fixture that seamlessly accommodates all types of fiber optic splices. At its core, the FSM-03 offers 200 splicing modes and 80 heating modes, backed by a massive storage capacity for 10,000 splice records and 1,600 images for effortless data traceability. Powering the unit is a 5200mAh high-capacity lithium battery—which is independently removable and rechargeable—capable of completing over 340 splicing and heating cycles on a single charge.

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3s Quick Start

7s Fusion Splicing

18 Efficient Heating



Specification

Motor	Cladding Alignment (Quad Motors)
Image magnification	320x
Optional modules	OPM/VFL (10mW), split-wave
Fixture	Five-in-one multifunctional clamp
Illumination	LED lighting to aid night work
Applicable fiber types	Including G651, G652, G653, G655, G657
Fiber cutting length	8-16mm
Splice loss	SM:0.02dB,MM:0.01dB,NZ:0.03dB,NZDS:0.04dB
Discharge electrode	≥5000 times
Splice mode	200 welding program presets
Heating mode	80 preset heating programs
Automatic heating	Support
Welding time	Standard welding time is ≤7 seconds
Heating time	Standard heating time ≤18 seconds
Return loss	≥60dB
Heat shrink tubing	20~60mm
Pull test	1.96N~2.1N
Storage	store about 1,600 images and 10,000 sets of data
User Interface	GUI graphical operation interface, equipped with graphical maintenance navigation function
Battery capacity	5200mAh, typical operating times 340 times
Language	Multiple display languages available
Altitude	0 meters to 5000 meters above sea level
Temperature	-20°C~+50°C,
Humidity, wind speed	0~95% (no condensation), Wind speed 15m/s
Power supply mode	AC100~240V , DC12.6V
Boot time	Quick boot in 3 seconds
Display	4.3-inch high-definition capacitive touch screen
Port	Type-C, USB2.0 (can be used to export data)
Size	136x139x132mm



ORDERING INFORMATION

FSM-03 Fiber Splicing Machine

The Kit Includes: Splicer, carrying case, fiber cleaver, charging adapter, AC power cord, fiber stripper, drop cable stripper, instruction manual, calibration certificate, alcohol bottle, brush, air blower, spare electrodes, cooling tray, warranty card, handy hand strap, backpack strap, small table plate.