



FSM-50S Fusion Splicer

The FSM-50S Fusion Splicer sets the standard for core alignment fusion splicers. The FSM-50S is the fastest field splicer available, and completes a splice and tube heat in a total of 44 seconds. Special features include its small size and weight - the smallest in the industry - and the legendary ruggedness Fujikura is known for. The FSM-50S also includes user-friendly features such as calibration-free arc adjustments, automatic fiber type identification and reduced operational steps. The FSM-50S also offers increased flexibility for various splicing tasks with user-selectable front and back monitor positioning.



Top and Front Monitor Positions



Changing Monitor Positions

Features

- Automatic core to core, low-loss splicing regardless of fiber quality or age
- 9-second splicing time
- 35-second heat time (60mm sleeve)
- Dual, user selectable monitor position
- Excellent visibility in bright sunlight with 5.6" TFT Color LCD display
- Automatic arc calibration
- Long life battery (up to 160 splice/shrink cycles per charge)

Specifications

PARAMETER	VALUE
Model	FSM-50S Fusion Splicer
Applicable Fibers	SM (ITU-T G.652), MM (ITU-T G.651), DS (ITU-T G.653), NZDS (ITU-T G.655)
Cladding Diameter	80µm - 150µm
Coating Diameter	100µm to 1000µm
Fiber Cleave Length	8 to 16mm with 250µm coating diameter. 16mm with 900µm coating diameter.
Typical Average Splice Loss	0.02dB with SM, 0.01dB with MM, 0.04dB with DS, 0.04dB with NZDS. Measured by cut-back method relevant to ITU-T and IEC standards.
Splicing Time	Typical 9 seconds with standard SM fiber
Arc Calibration Method	Automatic, using results of previous splice when in AUTO mode. Manual arc calibration function available.
Splicing Modes	40 user programmable modes and up to 60 modes for reference (factory predetermined setting).
Splice Loss Estimate	Based upon dual camera core alignment data.
Storage of Splice Result	The last 2000 results to be stored in the internal memory.
Fiber Display	X / Y, or both X and Y simultaneously. Front or rear monitor display options.
Magnification	295x for single X or Y view, or 147x for X and Y view.
Viewing Method	Dual cameras with 5.6 inch color LCD monitor.
Operating Condition	0 to 5,000m above sea level, 0 to 95%RH and -10 to 50°C respectively.
Mechanical Proof Test	2N
Tube Heater	Built-in tube heater with 30 heating modes.
Tube Heating Time	Typical 35 seconds with FP-03 protection sleeve.
Applicable Protection Sleeve Length	60mm, 40mm, micro
No. of Splice/heat With Battery	Typical 80 cycles with BTR-06(S) / Typical 160 cycles with BTR-06(L).
Power Supply	Auto voltage selection from 100 to 240V AC or 10 to 15V DC with ADC-11. 13.2V DC with BTR-06(S)/(L).
Terminals	USB 1.1 (USB-B type) for PC communication. Video terminal RCA video jack / NTSC.
Wind Protection	Max. wind velocity of 15m/s. (34 mph)
Dimensions	150W x 150D x 150H (mm) / 5.9W x 5.9D x 5.9H (inches)
Weight	2.8 kg (6.4 lbs.) including AC adapter ADC-11

FSM-50S Fusion Splicer

Ordering Information

DESCRIPTION	PART #
FSM-50S Fusion Splicer (Machine Only) Each FSM-50S Fusion Splicer comes with ADC-11 AC adapter/battery charger, AC cord, spare electrodes (pair), monitor cover, operation manual, and transit case.	S013510
FSM-50S Fusion Splicer Kit (includes cleaver) Each FSM-50S Fusion Splicer Kit includes: Fusion Splicer with ADC-11 AC adapter/battery charger, CT-30A Cleaver, AC cord, spare electrodes (pair), monitor cover, operation manual, and transit case.	S013512

Accessories Recommended for the FSM-50S

DESCRIPTION	PART #
Cleavers	
CT-30A Cleaver	S014080
Batteries & Power Cords	
ADC-11 AC Adapter/Battery Charger	S013516
BTR-06S Battery (80 splice/heating cycles)	S013520
BTR-06L Battery (160 splice/heating cycles)	S013528
DCC-10 Power Cord (connects ADC-11 to BTR-06S or BTR-06L)	S013524
DCC-12 Power Cord (connects ADC-11 to cigarette lighter socket)	S013552
DCC-13 Power Cord (connects ADC-11 to power source via alligator clips)	S013556
Miscellaneous	
ELCT2-20A Electrodes	S013532
ASW-02 Splicing Workstation	S010532
WT-6 Work Table	S013536
WTS-06 Work Table Support	S013544
JP-04 Splice Sleeve Cooling Tray	S013628
50S Set Plate "B" (allows 10mm cleave of 900µm) (includes installation)	S013564
Transit Case (50S)	S013540
One year extended warranty	S012996
Two year extended warranty	S013000