## Single Fibre Fusion Splicer

## FSM-18S



## Faster – Smaller – Lighter – Tougher – Smarter

## **Features**

- Highly durable designed for tough environments
- Suitable for single fibre splicing
- Cladding alignment with fixed V-groove
- Auto-start tube heater
- Optional fibre clamping methods
- Splice image capture facility
- Software upgrade via Internet
- Includes multi-function worktable



SPECIFICATIONS			
Applicable fibres	SM (ITU-T G.652), MM (ITU-T G.651), DS (ITU-T G.653), NZDS (ITU-T G.655)		
Fibre Count	Single		
Cladding diameter	125µm		
Coating diameter	100 to 1000μm		
Fibre cleaved length	8mm to 16mm using Sheath Clamp A, B or C/ 10mm using FH-60-250, FH-60-900		
Actual average splice loss	0.05dB with SM, 0.02dB with MM, 0.08dB with DS, 0.08dB with NZDS.  Measured by cut-back method relevant to ITU-T standards.		
Splice time	Typical 11sec. with standard SM fibre.		
Return loss	60dB or greater		
Splicing modes	Total number available equals 100; for pre-set modes and user programmable modes		
Splice loss estimate	Several types of core deformations as well as core axis offset are taken into account for accurate loss estimate.		
Storage of splice result	The last 2000 results to be stored in the internal memory.		
Fibre display	X/Y, or both X and Y simultaneously		
Magnification	300x for single X or Y view, or 187x for X and Y view.		
Viewing method	By two CMOS cameras for fibre viewing and 4.1inches TFT colour LCD monitor		
Image change over	The fibre image is turned upside down automatically according to the monitor position.		
Operating condition	0-3660m above sea level, 0-95% RH and -10 to 50°C respectively.		
Mechanical proof test	2N (standard)		
Tube heater	Built-in auto-start tube heater with 10 heating modes and up to 20 for reference		
Tube heat time	Typical 30sec.with FP-03 protection sleeve.		
Applicable protection sleeve length	60mm, 40mm and a series of micro sleeves.		
No. of splice/heating with battery	160 cycles with BTR-08.		
Power supply	Auto voltage selection from 100 to 240Va.c. or 10 to 15Vd.c. with ADC-13. 13.2Vd.c. with BTR-08		
Terminals	USB1.1 (USB-Mini B) for data and video signal transfer to PC.		
Wind protection	Max. wind velocity of 15m/s.		
Dimensions	136(W) x 161(D) x 143(H) mm		
Weight	2.1kg, with ADC-13 AC Adaptor, 2.5kg, with BTR-08 Battery		

STANDARD PACKAGE				
Description	Model No.	Q'ty	Note	
Arc Fusion Splicer	FSM-18S	1pc.		
Sheath Clamp	CLAMP-S60A	1pc.	Installed	
Electrodes	ELCT2-20A	1 pair	Installed	
Wind Protector Mirror	WPM-08	2pc.	Installed, replaceable by user	
AC Adaptor/Battery Charger	ADC-13	1pc.		
AC Power Cord	ACC-xx	1pc.	ACC-16 UK Type	
Spare Electrodes	ELCT2-20A	1 pair		
USB Cable	USB-01	1pc.		
Quick Reference Guide	M-60S/18S-E	1pc.	English	
Video Instruction Manual	V-18S-E	1pc.	CD, English	
Warning & Cautions	W-60-E	1pc.	English	
Splicing Report	-	1pc.	English	
J-Plate	JP-05	1pc.		
Carrying Case	CC-24-18S	1pc.		



OPTIONAL ITEMS				
Description	Model No.	Note		
Fibre Holder	FH-60-250	For 250µm coating		
	FH-60-900	For 900µm coating		
Sheath Clamp	CLAMP-S60A	For coating diameter up to 250µm, 8mm to 16mm cleave		
		For coating diameter of over 250µm, 16mm cleave		
	CLAMP-S60B	For coating diameter up to 1000µm, 8mm to 16mm cleave		
	CLAMP-S60C	For 900µm loose tube fibre		
Battery Pack	BTR-08			
Battery Charge Cord	DCC-14	Use for connecting BTR-08 and ADC-13		
DC Power Cord	DCC-12	For ADC-13, cigarette lighter socket type		
	DCC-13	For ADC-13, alligator clamp type		
Magnifier	MGS-06	With bracket		
Electrodes	ELCT2-20A			
Wind Protector Mirror	WPM-08			



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