



Active Clad Alignment fusion splicer

S1V

Powered by



NanoTune™
Enhanced splice experience



Compact, Easy, Tough



Proven field
toughness



High environmental
resistance



Smart and easy



Compact and light
1.2kg

Specifications

Items		S1V
Optical fiber requirements	Material	Silica glass
	Fiber count / Profile types	Single / SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655), BIF(G.657)
	Fiber diameter	Cladding diameter : 125 μm, Coating diameter : 250 ~ 1,000 μm
	Cleave length	5 to 16mm for single fiber
Standard performance	Splice loss (typical) ¹	SMF : 0.03dB, MMF : 0.01dB, DSF : 0.05dB, NZDSF : 0.05dB
	Return loss (typical)	60dB or greater
	Splice time (typical)	6sec (SM G652 Quick Mode)
	Heating time (typical)	17sec (FPS-61-2.6 sleeve, S60mm 0.25 Mode)
	Splice & Heat cycles per battery full charge ²	Approx. 250 (BU-17)
	Fiber view & magnification	2 CMOS cameras observation, 140X (zoom 370X) for X and Y axis view.
	Proof test	1.96 ~ 2.09N
	Applicable protection sleeve	60mm, 40mm & Sumitomo Nano sleeves
Programs	Splice programs	Max. 300, 16 are pre-optimised, 284 editable by user
	Heating programs	Max. 100, 23 are pre-optimised, 77 editable by user
Functions	Splice image capture / Splice data storage	200 images / 10,000 splice data (internal memory only), 50,200 / 20,000 (With 16GB SD card)
	Auto-start	Splice/Heating
	Multi clamp	Provided, 250 μm, 800 μm tight & loose buer fiber, 2 & 3mm jacket cord and rectangular drop cable,
	Heater clamp for splice on connector	3.5mm round drop cable Provided
	Automatic arc calibration	Automatically compensates for environmental condition changes
Size / Weight	Onboard user training video Size	Provided
	Weight	126(W) x 154(D) x 83(H) mm (without protrusion)
Terminals	Monitor	0.9kg (without Battery), 1.2kg (with Battery BU-17)
	USB port	4.3" color LCD display
Power supply	Storage media	USB 2.0 (mini-B type)
	AC input	SD / SDHC memory card Max 32GB
Operating condition	DC input	AC 100 ~ 240V, 50/60Hz (ADC-15)
	Battery pack	DC 10 ~ 15V
Storage condition		Li-ion 10.8V, 4,560mAh (BU-17)
Electrode life ³		Altitude : 0 ~ 5,000m, Temperature : -10 ~ +50°C, Humidity : 0 ~ 95%RH (non-condensing), Wind velocity : up to 15m/sec
Software updates		Temperature : -40 ~ +80°C, Humidity : 0 ~ 95%RH (non-condensing), Battery : -20 ~ +30°C (long term)
Data management		6,000 arc discharges Internet
		Can be stored, edited and analyzed by dedicated PC software

1 : Average value of the final inspection in room temperature with Sumitomo identical fiber. Measured by cut-back method relevant to ITU-T and IEC standards.

2 : Splice & Heat cycles may vary depending on the battery status and the operating environment.

3 : Achieved in lab condition. Electrode life may vary depending on the operating environment.

Environmental Durability

	Test details
Shock resistance	Drop from 76cm on 5 faces(excluding top face), 4 edges and corners (bottom face only)
Impact resistance	Protected against 2J impact, it is equivalent to a 500g force from 40cm
Water resistance	Equivalent to IPx2
Dust resistance	Equivalent to IP5x

Splicer operation after shock, water or dust tests, was confirmed under battery power, by Sumitomo.

Does not guarantee the product will not be damaged by these conditions.

Basic Accessories

Part name	Part No.	Qty.
AC adapter	ADC-15	1 pc
AC power cord	PC-AC<X> -2P	1 pc
Battery pack	BU-17	1 pc
Quick reference guide	—	1 pc
Carrying case	CC-18	1 pc
Working tray	WT-18	1 pc

X=2(USA), 3(EU), 5(UK/HK), 6(AUS), 8(CHINA), 9(INDIA), 10(BRAZIL)

Items listed in the table are typical contents included with the splicer body. Overall kit content may vary regionally. Please check with your local authorized reseller to confirm kit content in your region.

Accessories

	Part name	Part No.	Remarks
Accessories for Splicer	Battery pack	BU-17	Li-ion 10.8V, 4,560mAh
	Battery charger	BC-17	For BU-17
	Car battery cable	PC-V25	For car battery operation (cigarette socket type)
	V-groove cleaning brush	VGT-2	Brush for cleaning V-groove
	Electrode	ER-17	Kit for hanging tray around neck
	Working tray strap kit	WSK-18	For tripod use — —
	Tripod adapter	TA-18	Table-top type
	USB cable	—	Handheld type
	Shoulder belt	—	Jacket remover for single fiber — —
	Fiber cleaver	SFC-S	60mm, diameter after shrink approx. 3.2mm 40mm, diameter after shrink approx. 3.2mm 61mm, diameter after shrink approx. 2.6mm 60mm, For drop and indoor cables
Accessories	Jacket remover	JR-M03	
	Loose tube cutter	LTC-01	
	Alcohol dispenser	ASB-17	
	Fiber protection sleeve	FPS-1 FPS-40 FPS-61-2.6 FPS-D60	



AC adapter
ADC-15



Battery pack
BU-17



Carrying case
CC-18



Working tray
WT-18



Table top cleaver
SFC-S

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■ Specifications are subject to change without prior notice.

■ The fusion splicer and related accessories are not IT network equipments.

Designed in Japan
0S1V10_INDIA_EN001(2023.04.10)