

OPTICAL FIBER FUSION SPLICER

S177A Series Core-Alignment Fusion Splicer



DESCRIPTION

The new hand-held FITEC S177A incorporates an improved heating design that cuts splice-to-heat time by 40 percent, achieving a 9-second splice time and 37-second heat time. The unit's T-shaped body design is also 40 percent lighter, weighing only 4.85 pounds including battery. Ideal for fast field use, the S177A reduces the fiber length required for splicing by 30 percent. In addition, fiber magnification power is 608X, marking the industry's most powerful rating for a core alignment splicer.

SPECIFICATIONS

ITEM	DESCRIPTION
Splicing Method	Core-Alignment
Fiber Type(1)	SMF, MMF, DSF, NZDSF, EDF, TW, LF, HI1060, and many more
Cladding Diameter	80µm - 220µm
Coating Diameter	100µm - 1000µm
Average Loss (2)	SMF: 0.02dB, MMF: 0.01dB, DSF: 0.04dB
Splice Time	9 sec.
Heat Time	37-second (40mm), 51-second (60mm)
Applicable Sleeves	20 - 60mm
Cleave Length	150 - 200mm: 5mm, 250mm: 5 ~ 16mm; 400 / 900mm: 10, 16mm
Magnification	Up to 608X
Dimensions	130W x 260D x 137H (mm)
Power	AC Input: 85 to 264VAC (50/60Hz) DC Input: 11 to 17VDC, Battery: Li-ion
Battery	Internal Battery - 70 splice cycles External Battery (option) - 350 splice cycles
Splice Memory	2000 splices
Op. Environment	0 - 4,000m, -10 to +50 C and 90% at 38 C

(1) Applied to ITU-T Standard

(2) Testing done in a laboratory environment with similar fibers. Not guaranteed results.

FEATURES & APPLICATIONS

• Faster Splicing

The S177A has a lightening fast splice time of 9 seconds. Power up your production with the S177A!

• Multiple Splicing Programs

The S177A comes with 42 pre-installed splicing programs, providing optical component manufacturers with programs for specialty and dissimilar fiber splicing combinations (CS980, EDF, NZDSF, etc.).

• Built-in Battery

The S177A comes with an internal battery that automatically charges when the unit is plugged into AC Power - even while splicing!

• Transreflective LCD

The S177A comes equipped with a new transreflective LCD that allows for clear viewing of the splice even in direct sunlight.

• Large Data Memory Capacity

Data for up to 2,000 splices can be stored in the unit. All data can also be exported to a PC through USB connection to the splicer.

• Machine Self-Check

The S177A is equipped with a self diagnostic feature that can automatically verify the function of all motors, sensors, and cameras.

• Visual Guidance for Maintenance

The S177A is so advanced that it even offers visual step-by-step guidance for common maintenance procedures. Simply enter the maintenance menu and select the procedure you wish to perform and the unit will provide you step-by-step instruction with images.



• Available Fiber Holder System

The S707 series fiber holders are an option for the S177A to ease fiber preparation and transfer to the fusion splicer.





SEAMLESS SPLICING FROM TRUNK TO FTTX

The FITEC S177A ushers in a whole new range of applications for core-alignment splicing: It delivers the same precision, accuracy, and automated functionality of a conventional core-alignment unit, but with the speed, portability, and convenience of a hand-held splicer. The S177A becomes your versatile best choice for FTTx, LAN, backbone, or long-haul installations.



COMPACT, LIGHTWEIGHT BODY

At nearly half the weight and size of FITEC's standard core-alignment unit, the S177A weighs only 2.2 kgs (4.85 pounds) - making it the first hand-held and most compact, lightweight core-aligning splicer in the industry. The T-shaped body design, measuring just 5 inches across, easily accommodates short fiber lengths. The magnesium alloy canopy and top base provide the rugged strength required for field operations. Highly accurate, it easily handles diverse applications - from trunk splicing to FTTx.

PACKAGES

P/N	DESCRIPTION	S177A-01	S177A-01-KIT	S177A-02	S177A-02-KIT
S177-X-A-0001	Splicer Body	•	•	•	•
S177-X-S-0002	Spare Electrodes	•	•	•	•
S177-X-A-0003	Carrying Case	•	•	•	•
S177-X-S-0004	Manual	•	•	•	•
S177-X-S-0007	Fiber Holder Mounts			•	•
S177-X-S-0008	10mm Fiber Clamps	•	•		
S211B	Fiber Stripper		•		•
S325A	One-Action Precision Cleaver		•		•
S707-250	250µm Fiber Holders			•	•
S707-900	900µm Fiber Holders				•
S943	Internal Battery	•	•	•	•
S957B	AC Adapter	•	•	•	•
D5111	Electrode Cleaning Disk	•	•	•	•
FPF-01	Fiber Preparation Fluid		•		•
FW-01	Fiber Wipes		•		•

NEW GUI & LCD SCREEN

Featuring a new GUI (graphical user interface) and transreflective LCD screen technology, the S177A operation is a snap! Function keys are simple and information displays are crisp and clear even in direct sunlight. The LCD display shows the splicing process with simultaneous X and Y views. Fiber magnification is the highest available in the industry - 608X, and over 200 percent stronger than FITEC's previous model, the S176.



OPTIONAL ACCESSORIES

P/N	DESCRIPTION
S177-X-S-0005	Cooling Tray
S177-X-S-0006	USB Cord
S177-X-S-0007	Fiber Holder Mount
S177-X-A-0009	Loose Tube Holders
S177-X-A-0011	Work Stand
S177-X-A-0012	Work Table
S210	Furukawa Fiber Stripper
S707-080	80µm Fiber Holder
S707-400	400µm Fiber Holder
S945	Large Capacity External Battery

