



# **S185EDV**

## **Revolutionary End-View Fusion Splicer**



Tailored for fiber with complex internal structure



Dual Mirror System-simultaneous view of both fiber ends



World's first Composite Image Technology - both fiber images overlapped for precise alignment

Compact, lightweight and portable

Highly accurate rotational alignment (0.1 degree)

Adjustable front & rear LEDs for sharper fiber Image

Alignment assistance using color filters

Side view mode for traditional fibers

Fitel present our newest addition to the S185 series. The S185EDV employs an End View system designed for splicing fiber with complicated internal structure such as Hollow Core, PCF and more. These fibers can be very difficult to align using a traditional Side View splicer.

Viewing the cross sections images of the fibers gives more detail about the internal structure providing more control to the user for precise splicing results.

Our Composite Image Technology overlays both End View fiber images into one picture, allowing the user to verify the alignment and fine tune to their exact requirements. The S185EDV can also be used to splice in traditional Side- View mode. All these features make the S185EDV a versatile, portable and precise splicing solution.

#### **Specification**

Description	S185EDV			
Applicable fibers*1	SM, MM, DS, NZDS, High-Index, EDF, LDF, PMF, MCF			
Cladding diameter	125 to 500 µm			
Coating diameter	160 to 1300 μm (In Fiber holder) 160 to 900 μm (Coating clamp splice)			
Fiber cleave length	3 to 4 mm (Coating clamp splice) 8 to 10 mm (Cladding clamp splice)			
Typical splice loss*2	SM (ITU-T G652): 0.014 dB			
Typical extinction ratio*2	PANDA: 40 dB*3 (Angle offset: 0.6 degree)			
Return loss	>60 dB			
Typical splice time*4	15 s (SM by cladding clamp splice) 50 s (PANDA by cladding clamp splice)			
Tension strength	1.96 N (+0% to +20%)			
Applicable protection sleeve length	10 to 60 mm			
Typical heat time	35 s (S922: 40 mm sleeve)			
Splice programs	Max. 200			
Heater programs	Max. 100			
Splice data storage	Max. 1000 including 4 images before and after splice			
Fiber image magnification on LCD	104 X, 278 X or 556 X (Side view) 64 X (End view)			
Dimension	210 W x 180 D x 165 H mm			
Weight (without Battery)	4.9 kg			
Monitor	4.3" wide color LCD with touch panel			
Data output	USB ver. 2.0 type A: 1 port USB ver. 2.0 mini B: 1 port			
Battery capacity (Optional)*5	Typical 60 splice / heat cycles			
Operating temperature	0 to 40°C			
Storage temperature	-40 to 60°C			
Humidity	0 to 90% (Non-condensing)			
Power source	AC input 100 to 240 V (50/60 Hz)			

<sup>\*1</sup> Fibers should be applied to ITU-T standard. In case of other fibers, depending on the type of fiber, the optimization of splice program may be needed or the splice result may not be satisfied.

#### Standard package

Item	P/N	Quantity S185EDV			
		-00	-01	-10	-11
S185EDV Main body	S185EDV-X-A-0001	1	1	1	1
Hard Carrying Case	HCC-12	-	1	-	1
Built-in Battery Pack	S947B	-	-	1	1
AC Adapter	S981A	1	1	1	1
AC Cable Cord	-	1	1	1	1
Z Stage Lock	ZL-01	1 pair	1 pair	1 pair	1 pair
Spare Electrode	ELR-03	1 pair	1 pair	1 pair	1 pair
Rear LED Cover for Small Diameter	_	1 pair	1 pair	1 pair	1 pair
Electrode Sharpener	D5111	1	1	1	1
Cleaning Brush	VGC-01	1	1	1	1
User Manual	_	1	1	1	1

### Optional components

Item	P/N	Quantity	
160 µm Coating Fiber Holder	S713S-160	1 pair	
250 µm Coating Fiber Holder	S713S-250	1 pair	
300 µm Coating Fiber Holder	S713S-300	1 pair	
400 µm Coating Fiber Holder	S713S-400	1 pair	
500 µm Coating Fiber Holder	S713S-500	1 pair	
550 µm Coating Fiber Holder	S713S-550	1 pair	
650 µm Coating Fiber Holder	S713S-650	1 pair	
900 µm Coating Fiber Holder	S713S-900	1 pair	
1300 µm Coating Fiber Holder	S713S-1300	1 pair	
550 µm Coating BW Fiber Holder	S713B-550	1 pair	
1000 μm Coating BW Fiber Holder	S713B-1000	1 pair	
Fiber Holder for Loose Tube	S713S-250LT	1 pair	
Customized Fiber Holder*5	S713X-XXX	1 pair	
USB Cable	USB-01	1	
Wi-Fi Dongle	WFD-01	1	
+0.4 " 0 "			

<sup>\*6</sup> Available Suitable size Fiber holder depending on the coating diameter of splicing fiber.



Fiber Holder



Standard Package



Hard Carrying Case

#### **Contact Us:**

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<sup>\*2</sup> These are references. Depending on the environment and condition, the number vary.

\*3 Extinction ratio 40 dB is measured in the condition that the initial extinction ratio is more than 50 dB and there is the splice with 0.6 degree of rotation offset.

\*4 This value is references. Depending on the type of fiber and condition of fiber on splicer, the number can vary.

\*5 This value can produce using fully charged brand new battery at room temperature 20 degree C. Depending on the condition of the battery and operation

<sup>\*</sup> Please understand that contents of this catalog may change without notice.