

ALIGN Master™ PFS-500

Comcore Universal PM Fiber Fusion Splicer

Basic Characteristics and Advantages

PFS-500 (S) Universal Polarization Maintaining (PM) Fiber Fusion Splicer is designed, developed, and manufactured by Comcore Optical Intelligence Technologies Co., Ltd. in Shanghai China. This innovative splicer crushes the traditional PM fiber fusion splicers' technical barrier. It divides the fiber



polarization axis angular orientation positioning and the fiber fusion splicing functions into two independent units, which greatly simplifies the PM splicer's structure and makes it easy to operate and maintain. The PFS-500 (s) fusion splicer uses a more intuitive end-face imaging technology than the traditional side vision imaging method. The fiber end-face images are directly displayed with high-resolution and high optical magnification on a gridded monitor. Therefore, the end users can carry out the


most critical angular positioning of the fiber polarization axis promptly with minimum efforts. The most significant advantage of PFS-500 is its capability of splicing various PM fiber combinations with identical or different stress structures, such as panda, elliptical core, “-”- type, and many others swiftly and precisely.

Main Technical Parameters for PFS-500 Universal PM Fusion Splicer

	Parameter	Unit	Specification	Note
1	Equipment Type	N/A	PM Fiber Fusion Splicer	
2	Equipment Model	N/A	PFS-500 PFS-500S	
3	Applicable Fibers	N/A	SM、MM, Panda、Bow-tie、"- "-type、Tiger, E-core, Elliptical	

			cladding, Multicore, Micro-structured fiber		
4	Typical Splicing Loss	dB	0.05dB for splicing identical fibers; 0.2dB for splicing different fibers	0.1 dB for splicing identical fibers;	Typical
5	Polarization Distinction Ratio	dB	>30		For Linear PM Fiber
6	Typical Time Required per Splicing	Sec.	150		For Skilled Operators
7	Fiber Cladding Diameter	um	80-150	60-80	Can position fiber with 40-60um cladding
8	Fiber Coating Diameter	um	100-400	100-250	
9	Shortest fusible pigtail length	mm	50		
10	Fiber End-face Image Magnification Factor	times	400		
11	Stripped Coating Length	mm	8-10		Standard
12	Splicing Data Storage Capacity		10000		
13	Optional		Download and edit fiber end-face image and measure fiber parameters		

The Part List of PFS-500 Universal PM Fiber Fusion Splicer

Item	Specs / model	Qty	Thumbnail
1 Splicing Unit	PFS-500 (S)	1 set	

2	Angular Alignment Unit	FAL-100	1 set	
3	Display Screen Size	9.7 Inch	1 unit	
4	Rotatable Fiber Clamps	RFH-250	1 Pair	
5	Fiber Optic Cleaver	FC-20	1 unit	
6	Power Supplier for Splicing Unit	GM85-135480-F (Input : AC100-240V , 1.8A , 50-60Hz ; Output : DC13.5V,4.8A)	1 unit	
7	Power Supplier for Display and Angular Alignment Unit	GM50-120300-F (Input : AC100-240V , 1.5A , 50-60Hz ; Output : DC12V , 3.0A)	1 unit	
9	Accessory Case	Including in one pair of spare electrodes, one spare ceramic ferrule, one plastic tweezers, one cleaning brush.	1 unit	
10	Fiber Coating Striper	FT-2	1 unit	
11	Carrying Case	Black \ Rugged	1 unit	
12	Instruction Material	Electronic Version and Hard Copy	1 set	