



# Fiber Optic Fusion Splicer

PSI-SPLICER-500

**Tough, rugged Core-to-Core Alignment Fiber Optic Fusion Splicer. Employs high-speed image processing and special positioning technology allowing the fusion splicing to be completed in as little as 7 seconds and can heat shrink in as little as 9 seconds. The splicer is compact, lightweight and ideal to work just about anywhere, including harsh outdoor environments, dark and remote worksites.**



- ❖ **FAST 7 Second Splicing (optional)**
- ❖ **ULTRA-FAST 9 Second Heat Shrinking (optional)**
- ❖ **Drop/Impact, Dirt/Dust and Water Resistant**
- ❖ **Core-to-Core, State-of-the-Art Fiber Profile Alignment System (PAS)**
- ❖ **Quick-change Rechargeable Lithium Battery**
- ❖ **3 Year USA, 1 Year International Warranty, with USA Service and Support**

## Fully automatic, Semi-automatic and Manual Operating Modes:

- Automatic detection of fiber cleaved face quality
- Automatic display of cleaved fiber and the offset angles
- Automatic analysis and estimation of splice loss
- Automatic detection of bad/faulty splice
- Automatic detailed data report record and memory storage for each splice (up to 10,000 splices)
- Automated 2N splice tension test



## Features:

- 5" Color HD LCD display and graphical interface
- User-selectable English, Spanish & French
- Up to 400x magnification
- High quality user-replaceable electrodes - up to 3,000+ splicing cycles (set of spares is included)
- Wide range of fusion and heating parameter options with automatic arc correction
- Enhanced windproof fusion area cover
- Built-in temperature, humidity & air pressure sensors
- Built-in heat-shrink heater: Easy to use, quick, customizable parameters
- USB interface for data export and firmware upgrades
- Built-in work lights for convenience at night or dark areas
- Auto power-off, replaceable battery pack
- Handy, easy-to-carry, durable, shock-resistant design
- Titanium Alloy Body/Frame
- High Performance Processor Board
- 5-direction Anti-shock
- 6 Motor Precision Mechanism

## Fiber Optic Fusion Splicer Kit Includes



- PSI-SPLICER-500 Fiber Optic Fusion Splicer
- Universal fiber optic fiber holder
- Precision Optical Fiber Cleaver
- Operating Manual on USB Thumb Drive
- Tweezers
- Fiber Stripper
- AC Adapter
- Spare Electrodes
- Heat Shrink Cooling Tray
- Heavy Duty Carrying Case

## PRODUCT SPECIFICATIONS

<b>Specification</b>	
Applicable Optical Fiber Types	SM (G.652/G.657), MM (G.651), DS (G.653), NZDS (G.655), EDF, BIF/UBIF
Applicable Optical Fiber Core Number	Single Core
Applicable Optical Fiber Diameter	Cladding Diameter: 80-150µm, Coating Diameter: 125~1000µm
Fusion Splice Model	Factory: 40 Groups, User Defined: 80 Groups
Average Fusion Splice Loss	0.02dB (SM), 0.01dB (MM), 0.04dB (DS), 0.04dB (NZDS)
Return Loss	Better than 60dB
Fusion Splice Time	10 Sec (Typical Mode), 7 Sec (Fast Mode)
Fusion Splice Loss Estimate	Displayed at completion of splice process
Heat Shrinking Time	2mm Splice Sleeve (10-15s Adjustable) 4mm Splice Sleeve (14-19s Adjustable) 6mm Splice Sleeve (17-22s Adjustable)
Heating Temperature	Below 230°C (446°F) (customizable)
Automatic Heating Mode	Automatic fiber identification & heat shrinking when cover is closed
Alignment Modes	Core alignment, Cladding alignment, Manual alignment
Applicable Optical Fiber Cable Diameter	2mm, 3mm, 4mm, 6mm
Applicable Sleeve Length	60mm, 45mm, 40mm (FP-03)
Tension Test	≥ 2N
<b>General</b>	
Display	5 inch Color LCD, English, Spanish, French (user selectable)
Working Aloft	With an optional side hook strap, you can hang the machine directly from the operator's neck by using a neck strap (not provided)
Optical Fiber Magnification	X/Y: 200 times, X or Y: 400 times
Data Storage	10,000 Records
Image Storage	10 Images
Data Interface	USB 2.0
Power Supply	11.1V Lithium Battery, 13.5V/5A AC Power Adapter
Battery	Typically 260+ Cycles (Splicing / Heating) Full charge: 3 Hours Recharge Cycle: 500 Times Quick-change, Plug-in, 6800mA Li-battery
Operating Environment	Elevation: 0 ~ 5000m Relative humidity: 0 ~ 95% Temperature: -20°C ~ 55°C Maximum wind speed: 15m/s
Storage Environment	Relative humidity: 0 ~ 95% Temperature: -40°C ~ 80°C (-40°F ~ 176°F) (without battery) -10°C ~ 40°C (14°F ~ 104°F) (with battery)
Weight	1.51kg / 3.3lb (without battery) 1.91 kg / 4.2 lb (with battery)
Corrosion Resistance	Equipment components, parts and materials meet composite anti-corrosion requirements, liquid/spill resistance
Size	145 × 143 × 158 (mm), 5.7" × 5.6" × 6.2" (LWH)
Warranty	3 Year - Domestic, 1 Year - International



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