

# 6481 Optical Fiber Fusion Splicer

## Product Overview

The rich functions and ultra-low splice loss make the splicer adaptive to fiber splicing in various environments. Multiple fusion modes and heating modes are available to meet various customers' demands. Fiber loading becomes more convenient and accurate thanks to the ceramic V-groove of high precision, which is easy for clean and maintenance. The splicer is capable of dual-directional fusion. The monitor is a touch screen with GUI for smooth operation. The modular pluggable lithium-ion battery with large-capacity ensures long-time field operations. The auto environmental compensation system greatly improves adaptability of the splicer to extreme environments to ensure your work smoothly and continuously.



## Main Characteristics

- Compact, light weight
- 7s fast splicing, 18s highly efficient heating
- 320 times image magnification, 5mm fusion for ultra-short cleave length
- 300 groups of splice modes, 100 groups of heating modes, 10000 groups of fusion records /64 images storage
- Ceramic presser foot, ceramic V-groove, all-in-one fixture

- Dual-directional fusion, auto fusion, intelligent heat shrink
- USB and SD card interface, auto update by USB
- Built-in modular lithium-ion battery, at least 220 times of splicing and heating
- GUI and touch screen, easy to operate
- Dust-resistant, water-resistant, shock-resistant

### Small and light

Min. 1.7 kg without battery



Lift by one hand

### Water-resistant, dust-resistant, shock-resistant, high-temp-resistant



Meet IP52 requirements

### All-in-one fixer

The all-in-one fixture meets fusion demands of multiple optical fibers, jumpers and rubber-insulated wires with a cladding diameter of 80~150  $\mu$  m.



All-in-one optical fiber fixture

### Graphical interfaces and touch screen

Operators can set up the splicer and get relevant information easily as 6481 has been designed by new GUI and touch screen.



Entirely new GUI and touch screen

### Intelligent heat shrink

The heater won't work until the fiber is detected by the embedded sensor to avoid scalding.





Hear and detection unit

### **Pluggable lithium-ion battery of large-capacity**

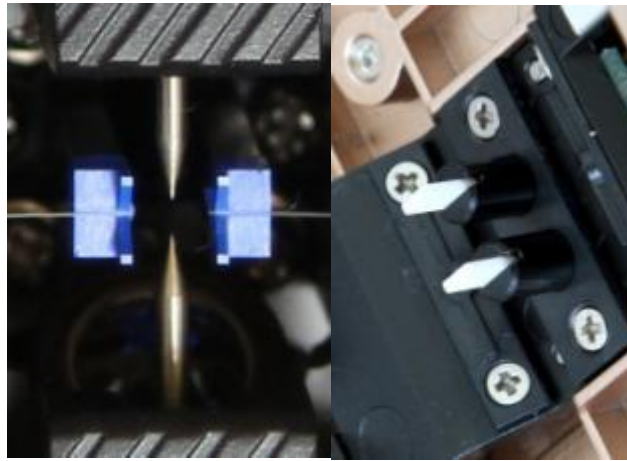
The built-in pluggable lithium-ion battery with large capacity can satisfy all working demands (normally 220 times of splicing and heating).



Built-in pluggable lithium battery with large-capacity

### **Ceramic V-groove and ceramic presser foot**

Ceramic V-groove makes the placement and cleaning of optical fibers more accurately and easily.



High-precision ceramic V-groove and presser foot

### Carrying case

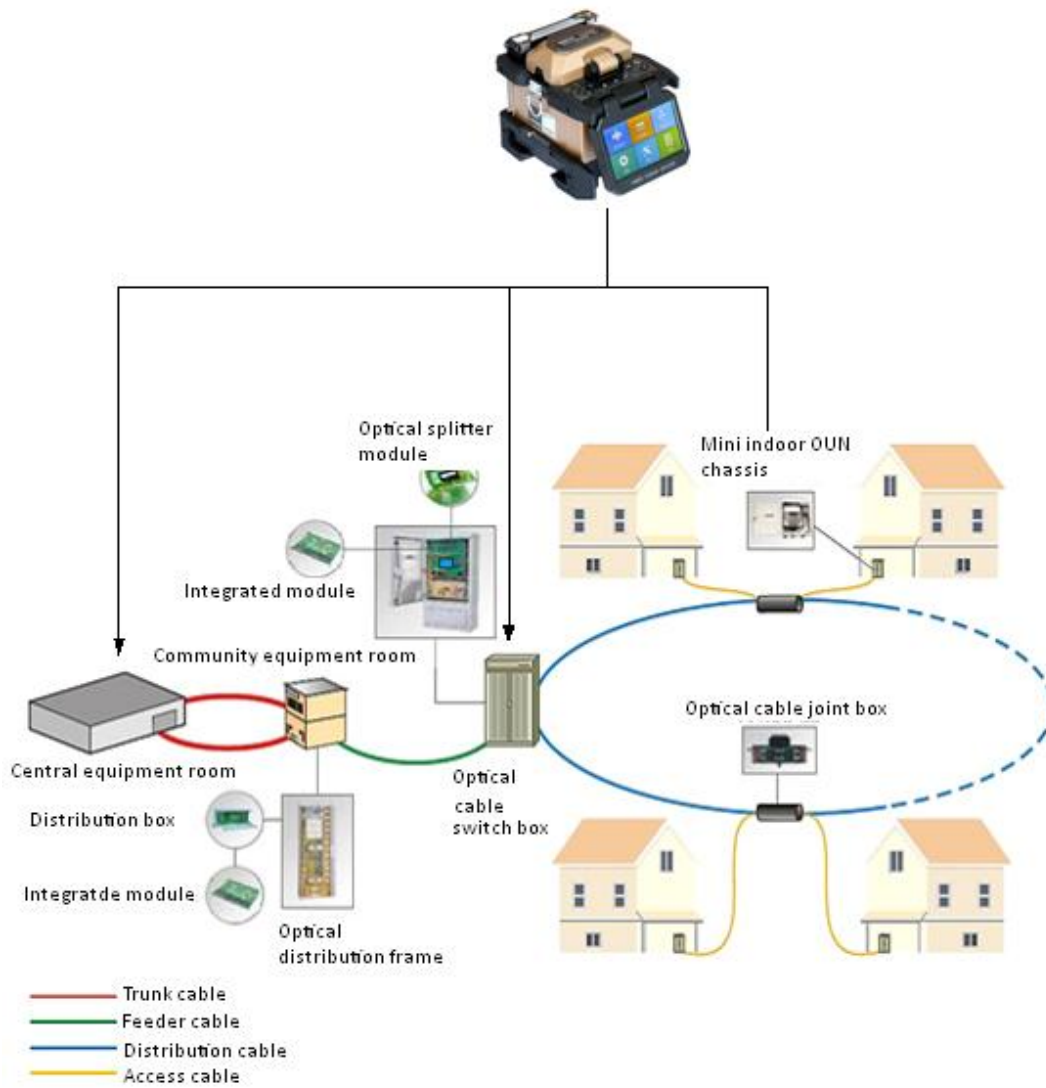
The carrying case is light and can be used as a working bench.



Carrying case

### Typical Applications

6481 Optical Fiber Fusion Splicer, just about compact design, easy operation and carrying as well as more ergonomic makes your work easier.



Typical applications of 6481 Optical Fiber Fusion Splicer

### Technical Specifications

Model	6481A Optical Fiber Fusion Splicer	6481B Optical Fiber Fusion Splicer
Motor qty.	6	4
Alignment method	Cladding alignment, Core alignment	
Applicable fibers	Any common optical fibers, rubber-insulated fibers and jumpers that meet requirements of ITU-TG.651~653, ITU-TG.655 and ITU-TG.657.	
Optical fiber diameter	Cladding: 80~150 $\mu$ m, coating layer: 0.1~3mm	
Cleave length	5~16mm (coated optical fiber diameter $\leq$ 250 $\mu$ m); 10mm (coated optical fiber diameter: 0.25~3mm)	
Splice loss (typical)	0.02dB (SMF); 0.01dB (MMF); 0.04dB (DSF); 0.04dB (NZDSF)	0.03dB (SMF); 0.02dB (MMF); 0.05dB (DSF); 0.05dB (NZDSF)
Return loss	Better than 60dB	
Splicing time (typical)	7s (Fast mode)	

Heating time (typical)	18s (60mm protection sleeve)	
Tension	1.96~2.25N	
Protection sleeve	60mm, 40mm and a series of protection sleeves	
Graphical display	High-performance 4.3 inch LCD	
Magnification time	320 times/88 times, 700 times	320 times/88 times
Fusion records	10000 groups/64 images	10000 groups
Battery capacity	11.1V, 6800mAh	
Battery operating life	Cycle charging: 300~500 counts, can be replaced by customers	
Electrode operating life	Typical: 4000 counts, can be replaced by customers	
Construction lighting	Built-in lights with high-brightness and wide lighting area	
Working environment	Temp:-10~50°C; Hum: 0~95%RH, height above sea level: 0~6000m	
Operation interfaces	GUI	
External power	AC: 100~240V, 60Hz, 0~1.5A; DC: 10~15V	
Port	USB / SD	
Dimensions	120mm (W)×130mm (H)×154mm (D) (without rubber anti-vibration pad)	
Weight	1.8kg (no battery), 2.1kg (with battery)	1.7kg (no battery), 2.0kg (with battery)

## Ordering Information

**Main Unit:** 6481 Optical Fiber Fusion Splicer

### Standard Package

No.	Description	Remarks
1	Power cord	Standard tri-prong cord: 1 pc; Adapter: 1 pc; Input: AC100~240V, 50/60Hz, 0~1.5A ; Output: DC13~14V, 0~4.44A
2	Primary coat stripper	1 pc
3	Jacket remover	1 pc
4	Spare electrode	1 pair
5	Cooling tray	1 pc
6	Cleanup set	1 set
7	User Manual	1 copy
8	Carrying case	1 pc

## Options

No.	Description	Functionality
6481-001	USB	For program update and splice data output
6481-002	Lithium-ion battery	Power supply of the main unit
6481-003	Power cord of cigarette lighter	Connect to on-board battery, for power supply of the main unit
6481-004	Fiber cleaver	To cleave fibers