

Fusion Splicer



✓ Easy handling

✓ Long lifetime of electrode

✓ Weight: only 2.8 kg (incl. Battery)

✓ 2.0 USB data interface & VGA

Abstract

Fusion Splicer for Singlemode- and Multimode fibers

Features

- Easy handling
- Improved reliability of shock, dust and rain due to robust construction
- 142.24 mm LCD monitor with anti-reflective coating
- Advanced "core to core fiber profile alignment system" (PAS)
- ARC calibration FREE system
- X/Y axes displayed simultaneously, magnification up to 300 times
- 8 seconds splicing time, 28 seconds heat-shrinking
- Battery capacity is precisely displayed in real time
- Built-in high capacity battery, supports 220 cycles (splicing/tube heating)
- Long lifetime of electrode up to 4000 times
- New wind cover design, enhances the ability to prevent dust and wind; max wind velocity of 15 m/s
- Two splicing modes: Auto, manual
- Built-in super high brightness LED supply, convenience for night work
- Small bulk and light weight, only 2.8 kg (including battery)
- Storage of saving 4000 results
- 2.0 USB data interface & VGA
- Carrying case can act as work table to splice the fiber

Product Overview

The Fusion Splicer TCW-605S supports high speed image processing technology and special precision-positioning technology. It automatically finishes the whole process of fiber fusion in 8 seconds. The LCD monitor displays all steps of fiber fusion clear at a glance. For Singlemode and Multimode fibers with a diameter of 80-150 μm , coating layer diameter of 0.1 - 1.0 mm and bare fiber length of ± 16 mm. It is the ideal tool for construction and maintenance of fiber and cable in both field- and laboratory applications. Supports German, English, French, Italian, Spanish, Portuguese, Turkish, Russian, Chinese, Japanese, Korean, etc. The standard package includes the following components: Fusion splicer, carrying case, precision fiber cleaver, tri-hole fiber coat stripper, AC adapter/battery charger, battery charger cord, battery pack, spare electrodes (one pair), blower brush, v-groove cleaning, quick reference guide, video instruction material, cooling tray, alcohol dispenser, monitor coating, monitor cover, USB flash disk.

Optical Specifications

Fiber types	Singlemode (ITU-T G.652), Multimode (ITU-T G.651), dispersion shifted (ITU-T G.653), non-zero dispersion shifted (ITU-T G.655) and other SMF with ITU-T G.657 fibers
Average splicing loss	0,02 dB with G.652 and G.657; 0,01 dB with G.651 and 0,04 dB with G.653 and G.655
Typical splicing time	8 seconds
Typical heating time	28 seconds
Return loss	60 dB or higher
Fiber coating	100 µm to 1000 µm
Fiber cladding	80 µm to 150 µm
Fiber cleave length	8-16 mm (coating diameter < 250 µm), 16 mm (coating diameter 250-1000 µm)
Align mode	Advanced profile alignment system (PAS)
Storage	For up to 4000 test results
Data transmission	USB-Port & VGA
Heater	Built-in tube heater, AUTO heat mode
Heat shrinkable tube	40 mm, 60 mm and a series of micro heat shrinkable tubing
Screen display	Two CMOS cameras, 142,24 mm 640*480 LCD, core of the fiber is clearly visible
Lighting construction	Built-in super high brightness LED supply, convenience for night work
Magnifications	300x for single X or Y view; 300x for X and Y view (left/right); 150x for X and Y view (up/down)
Work mode	Automatic, manual

Technical Specifications

Power supply	Alternating current: 100-240, 50 Hz/60 Hz, 30W; Direct current: 13,5 V/4,5 A Built-in 1.,1 V Li.ion battery charger and AC adapter
Battery life	220 cycles (splicing and tube heating) on one charge (3.5 hours)
Battery lifetime	Up to 300-500x, replaceable
Tension test	2 N
Electrode lifetime	> 4000x, replaceable
Operating temperature	-25 °C up to +50 °C
Storage temperature	-40 °C up to +80 °C
Relative humidity	0 to 95% (non-condensing)
Work altitude	0 up to 5000 meters above sea level
Weight	2.3 kg (without battery) with AC/DC Adapter; 2.8 kg (with battery)
Dimensions (HxWxD)	145x150x160 mm
Packing dimensions (HxWxD)	360x420x620 mm
Package (gross weight/net weight)	10.0/9.0 kg

Product Images



Product Number Information

A-FO-SD-TCW-605S Fusion Splicer for Singlemode- and Multimode fibers, 8 sec. splicing time, 28 sec. heat-shrinking, colored LCD monitor, USB & VGA

Accessories (included in delivery content)

A-FO-FC-305 High precision fiber cleaver, with trash bin
A-FO-ADC-13S AC Adapter/Battery charger
A-FO-BTR-08S Battery pack
A-FO-BR-09 Blower brush
A-FO-USM-605S Quick reference guide
A-FO-CLT-05 Cooling tray
A-FO-MCT-11 Monitor coating
A-FO-USB-01 USB flash disk
A-FO-CCA-605S Carrying case color yellow
A-FO-TFS-03 Tri-hole fiber coat stripper
A-FO-BCC-14 Battery charger cord
A-FO-ELC-02S Spare electrodes
A-FO-VGC-06 V-groove cleaning
A-FO-COM-605S Video instruction manual
A-FO-ALD-04 Alcohol dispenser
A-FO-MCV-12S Monitor cover

Accessories (available in request)

A-FO-CSC-15 Cigar-socket cord
A-FO-BOC-18 Blade of cleaver
A-FO-PTS-1 Protection sleeve