

FFS-6100

Fusion Splicer

FFS-6100 offers low-cost, fast, light weight and ease-to-use industrial solution with high quality splice in all conditions including high workplace altitude. FFS-6100 adopts high-speed image processing technology and special precision-positioning technology and automatically finishes the whole process of fiber fusion in as short as 8 seconds typically. It is widely used for SM and MM optical fiber with diameter 80-150 μ m, coating layer diameter 0.1-1.0mm and bare fiber length 16mm more or less. FFS-6100 is an ideal tools for construction and maintenance of fiber and cable in field applications and also suitable for laboratory uses.



Key Features

- | High-resolution true color 5.7 inch LCD display - core of the fiber is clearly visible
- | The advanced core to core fiber profile alignment system (PAS)
- | Real time calibrating system – no need to adjust parameters.
- | X/Y axes are displayed and the magnification can go up to 304 times
- | Short splicing and shrinking time - 8 seconds splicing time and 30 seconds Heat-Shrinking
- | The new wind-cover design enhances the ability to prevent the dust & wind and the max. wind velocity to 15m/s
- | Long Electrode Lifetime - up to 4000 times
- | Three Splicing modes: auto, half-auto and manual
- | Built-in super high-brightness LED light - convenience for working at dark place
- | Built-in high capacity battery - support 220 times splicing and heating, to meet one days' work
- | Real-time display the battery capacity and status
- | Auto calculation of splicing loss
- | Support USB data interface & VGA
- | One button operation to upload results to PC or software update
- | Close shield splice and close heater lid heat automatically
- | Support multi languages.

Tech Specifications

Optical Specifications

Fiber Types	Single mode (G.652), Multimode (G.651), Dispersion Shifted Fiber (DSF, G.653), Non-Zero Dispersion Shifted Fiber (NZ-DSF, G.655)
Average Splicing Loss	0.02dB with G.652; 0.01dB with G.651 and 0.04dB with G.653 and G.655
Splicing & Heating Time	Typical splicing time: 8s; Typical heating time: 30s
Return Loss	60dB or greater
Fiber Coating	0.1 ~ 1.0mm
Fiber Cladding	80µm to 150µm
Fiber Cleave Length	8 ~ 16mm (coating diameter < 250µm), 16mm (coating diameter 0.25 ~ 1.0mm)
Program	Factory Preset Program: 10 sets of SM and 10 sets of MM User Definable Program: 30 sets of SM and 30 sets of MM
Align Mode	Advanced Profile Alignment System(PAS)
Storage	4000 results
Data Transmission	USB port & VGA
Heater	Auto Heat Mode and the typical heating time is 30 seconds
Heat-Shrinkable Tube	40mm, 60mm and a series of micro Heat-Shrinkable Tubing
Display	Two CMOS cameras, 5.7 inch 640 x 480 LCD
Illumination	Built-in super High-brightness LED light for working at dark place
Magnifications	Vertical: 152 times; Horizontal: 304 times
Work mode	Automatic, Half Automatic and Manual

Note: Specifications subject to change without notice

General Specifications

Power Supply	AC: 100-240V, 50Hz/60Hz, 30W; DC:13.5V/4.5A Built in 11.1V Li-ion battery charger and AC adaptor
Battery Life	> 220 times splicing and heating with fully charged battery (3.5hours)
Battery Lifetime	up to 300 ~ 500 times and replaceable
Tension Test	2N
Electrode Lifetime	>4000 times, replaceable
Operating Temperature	-25°C ~ 50°C
Storage Temperature	-40°C ~ 80°C
Relative Humidity	0 to 95% (non-condensing)
Work Altitude	0 ~ 5000 meters
Weight	2.3kg (no battery) and 2.8kg (including battery)
Dimensions (L x W x H)	160 × 150 × 140mm
Package G.W/N.W	8.0/7.0kg
Package (L x W x H)	500 × 350 × 400mm

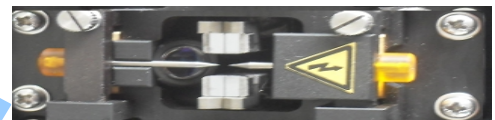
Top of the Fusion Splicer



Close heater lid heat automatically



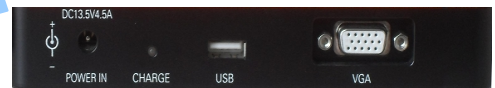
V-Groove and Electrodes



One button to finish results download



Battery Charge port and USB interface & VGA



One button to finish software update



Display X/Y Axes, Splicing Loss, Time, Battery Capacity, Temperature, Humidity



Standard Configuration

- | Instrument (Main Body)
- | Fiber Cleaver
- | Fiber Coat Stripper
- | Internal Battery
- | AC/DC Charger
- | 2GB USB Flash Disk
- | Spare Electrodes (one pair)
- | Cooling Tray
- | Alcohol Pump Bottle
- | Carrying Case
- | Carrying Belt
- | User's Manual

Related Products

- FFS-610K (Tool Kit)
- FFS-620K (Tool Kit)
- FFS-630K (Tool Kit)

Order Information

FFS-6100