

OFS-100 Optical Fusion Splicer

Product Overview

The OFS-100 is a powerful fibre optic splicer designed for quick and reliable splicing in the field or workshop. It utilises advanced image processing and four high-precision motors to deliver fast, automatic splicing with exceptional quality.

Featuring a 5-inch LCD coupled with dual-CMOS sensors, it provides comprehensive X/Y and X+Y views, ensuring clear visualisation of the fibre splice throughout all stages. The OFS-100 is compatible with a wide range of fibre types, including SMF (G.652), MMF (G.651), DSF (G.653), NZ-DSF (G.655), BIF (G.657), CSF (G.654), and EDF.

Its compact, robust design supports extended outdoor operation, making it an indispensable tool for optical fibre installation and maintenance across diverse sectors such as telecommunications, broadcasting, railway, power, military, and scientific research.



Features

- Compact and Lightweight Design
- Four-Motor Clad alignment
- SMF (G.652), MMF (G.651), DSF (G.653), NZ-DSF (G.655), BIF (G.657), CSF (G.654), EDF splicing
- One-fit-all fibre holders for bare fibre, pigtails, patch cords and FTTH indoor fibre splicing
- Auto fibre end-face inspection, auto arc position adjustment, splice loss calculation, temperature and pressure compensation
- Auto splicing
- Rapid Splicing ($\leq 6s$) and Heating ($\leq 18s$)
- Arc counter prompts electrode change upon usage
- Auto arc optimisation
- Auto heating
- X/Y and X+Y display for clear fibre core image
- Quick mount battery with power indicator
- Built-in illumination
- Durable and Weather-Resistant
- User-Friendly Interface

Equipped with removable universal fibre holders (250 μ m/900 μ m/patch cord/FTTx indoor fibre etc.)



Specifications

MODEL	OFS-100
fibre Type	SMF (G.652), MMF (G.651), DSF (G.653), NZ-DSF (G.655), BIF (G.657), CSF (G.654), EDF
Protection Sleeve	40mm - 60mm
Splicing Principle	Arc
Alignment	4 Motors Alignment
Splice Control	Auto and Manual Splicing
Arc Optimisation	Yes
Splice Mode	240 groups
Heating Mode	60 groups
Display Mode	X, Y, X+Y
User Interface	Graphical interface, multiple language support
Splice Result	Auto Splice result (Loss) calculation and display
Data	≥10000 splice records (CSV format), ≥150 screenshots
Data Port	USB, Driver-free
fibre Diameter	Cladding: 80~150µm, Coating: 100~1000µm
Cleave Length	5mm~16mm
Splice Loss	MMF ≤ 0.01dB (Typical), SMF/BIF ≤ 0.02dB (Typical), DSF/NZDSF/EDF ≤ 0.04dB (Typical), CSF ≤ 0.02dB (Typical)
Return Loss	>60dB
Splice Time	≤6s (Fast mode), ≤9s (Auto mode);
Heating Time	≤18s, Adjustable
Zoom	360 x (X+Y) ; 280 x (X or Y)
Electrode Life	≥5000 splices
Tension Test	1.96N ~ 2.25N
Start-up Time	<10s
Power Supply	220V±10%, 50Hz AC/DC; Rechargeable Lithium Battery; support operation when charging
Battery Life	≥200 Splicing and Heating
Charging Time	≤4 hours
Size	131mm×79mm×200mm (L x W x H)
Weight	1.3Kg (With Battery)
Work Temperature	-20°C ~ +55°C
Storage Temperature	-40°C ~ +70°C
Humidity	≤95% (non-condensing)
Altitude	0 m ~ 5000 m
Wind Speed	≤15 m/s

