OFS-100 adopts high-speed image processing technology and 4-motor precise positioning technology, which help realize fast automatic fiber splice and high-quality splice performance. The perfect combination of 5-inch LCD and dual-CMOS, X/Y and X+Y display give full picture of fiber splice at all stages. It supports SMF (G.652), MMF (G.651), DSF (G.653), NZ-DSF (G.655), BIF (G.657), CSF (G.654), EDF splicing.

The compact body also supports long-time outdoor operation, making it a favorable tool in optical fiber installation, maintenance in field of Telecommunications, Broadcasting, Railway, Power, Military, as well as scientific research.



- Compact and light: 1.3Kg with battery
- 4 motors clad alignment for precise high-quality splicing
- SMF (G.652), MMF (G.651), DSF (G.653), NZ-DSF (G.655), BIF (G.657), CSF (G.654),
 EDF splicing
- One-fit-all fiber holders for bare fiber, pigtails, patch cords and FTTH indoor fiber splicing
- Auto fiber end-face inspection, auto arc position adjustment, splice loss calculation, temperature and pressure compensation
- Auto splicing
- Splicing≤6s, heating≤18s (time and power adjustable)
- Arc counter prompts electrode change upon usage
- Auto arc optimization
- Auto heating
- X/Y and X+Y display for clear fiber core image
- Quick mount battery with power indicator
- Built-in illumination
- Wind dust rain shock proof
- Graphical user interface for easy understanding and operation

Equipped with removable universal fiber holders (250µm/900µm/patch cord/FTTx indoor fiber etc.)



Splicing Principle Arc Auto and Manual Splicing Auto Splice Mode 240 groups Auto splice Auto spl		
Frote triple (G.654), EDF		
Arc Alignment And Motors Alignment Splice Control Auto and Manual Splicing Arc Optimization Yes Splice Mode Leating Mode Splice Result Auto splice result (Loss) calculation and display Data Lough Splice result (Loss) (CSV format), ≥150 screenshots Data Port Splice Loss Data Port Cladding: 80~150µm, Coating: 100~1000µm Splice Loss MMF ≤ 0.01dB (Typical), SMF/BIF ≤ 0.02dB (Typical), DSF/NZDSF/EDF ≤ 0.04dB (Typical), CSF ≤ 0.02dB (Typical) DSF/NZDSF/EDF ≤ 0.04dB (Typical), CSF ≤ 0.02dB (Typical) Splice Time Selse (Fast mode), ≤9s (Auto mode); Splice Time Splice Splices Splices Splices (Tanmar Splices) Splices (Topical Manual Splice	Fiber Type	(G.654), EDF
Alignment Splice Control Auto and Manual Splicing Arc Optimization Yes Splice Mode 240 groups Display Mode Display Mode Display Mode Splice Result Splice Result Splice Result Auto splice result (Loss) calculation and display Data ≥10000 splice result (Loss) calculation and display Data Data Data Data Display Mode Display Mode Splice Result Auto splice result (Loss) calculation and display Data ≥10000 splice records (CSV format), ≥150 screenshots Data Port Display Mode Data Data Data Data Data Data Data Dat	Protection Sleeve	40mm - 60mm
Splice Control Auto and Manual Splicing Arc Optimization Yes Splice Mode 240 groups Heating Mode 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 Fiber Diameter Cladding: 80~150μm, Coating: 100~1000μm Splice Loss MMF ≤ 0.01dB (Typical), SMF/BIF ≤ 0.02dB (Typical), DSF/NZDSF/EDF ≤ 0.04dB (Typical), CSF ≤ 0.02dB (Typical) Splice Loss Splice Time ≤6s (Fast mode), ≤9s (Auto mode); Heating Time ≤18s, Adjustable Zoom 400 x (X+Y); 320 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 Chanrging Time ≤4 hours Size 131mm×79mm×200mm (L x W x H) H.3Kg (With Battery) Work Temperature -40°C ~+70°C Humidity ≤95% (non-condensing) Altitude 0 m ~5000 m	Splicing Principle	Arc
Arc Optimization Splice Mode 240 groups Heating Mode 60 groups Display Mode X, Y, X+Y User Interface Graphical interface, multiple language support Auto splice result (Loss) calculation and display Data ≥10000 splice records (CSV format), ≥150 screenshots Data Port USB, Driver-free Fiber Diameter Cladding: 80~150µm, Coating: 100~1000µm Cleave Length Smm~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 400 x (X+Y) ; 320 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 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 O m ~ 5000 m	Alignment	4 Motors Alignment
Splice Mode 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 Fiber Diameter Cladding: 80~150µm, Coating: 100~1000µm Cleave Length Smm~16mm Splice Loss MMF ≤ 0.01dB (Typical), SMF/BIF ≤ 0.02dB (Typical), DSF/NZDSF/EDF ≤ 0.04dB (Typical), CSF ≤ 0.02dB (Typical) PSF/NZDSF/EDF ≤ 0.04dB (Typical), CSF ≤ 0.02dB (Typical) Splice Time ≤6s (Fast mode), ≤9s (Auto mode); Heating Time ≤18s, Adjustable Zoom 400 x (X+Y); 320 x (X or Y) Electrode Life ≥5000 splices Tension Test 1.96N ~ 2.25N Start-up Time Power Supply 220V±10%, 50Hz AC/DC; Rechargeable Lithium Battery; support operation when charging Battery Life ≥200 Splicing and Heating Chanrging Time ≤4 hours Size 131mm×79mm×200mm (L x W x H) Work Temperature -20°C ~ +55°C Storage Temperature -40°C ~ +70°C Humidity ≤95% (non-condensing) Altitude O m ~ 5000 m	Splice Control	Auto and Manual Splicing
Heating Mode Display	Arc Optimization	Yes
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 Fiber 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 400 x (X+Y); 320 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 Chanrging 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	Splice Mode	240 groups
User Interface Splice Result Auto splice result (Loss) calculation and display Data ≥10000 splice records (CSV format), ≥150 screenshots Data Port USB, Driver-free Fiber Diameter Cladding: 80~150μm, Coating: 100~1000μm Cleave Length Smm~16mm Splice Loss MMF ≤ 0.01dB (Typical), SMF/BIF ≤ 0.02dB (Typical), DSF/NZDSF/EDF ≤ 0.04dB (Typical), CSF ≤ 0.02dB (Typical) PSF/NZDSF/EDF ≤ 0.04dB (Typical), CSF ≤ 0.02dB (Typical) Splice Time ≤6s (Fast mode), ≤9s (Auto mode); Heating Time ≤18s, Adjustable Zoom 400 x (X+Y); 320 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 Chanrging 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 O m ~ 5000 m	Heating Mode	60 groups
Auto splice result (Loss) calculation and display Data ≥10000 splice records (CSV format), ≥150 screenshots Data Port USB, Driver-free Fiber 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 400 x (X+Y); 320 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 Chanrging 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	Display Mode	X, Y, X+Y
Data ≥10000 splice records (CSV format), ≥150 screenshots Data Port USB, Driver-free Fiber 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 400 x (X+Y); 320 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 Chanrging 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	User Interface	Graphical interface, multiple language support
Data Port USB, Driver-free	Splice Result	Auto splice result (Loss) calculation and display
Fiber Diameter Cladding: $80 \sim 150 \mu m$, Coating: $100 \sim 1000 \mu m$ Cleave Length 5mm $\sim 16 mm$ Splice Loss MMF $\leq 0.01dB$ (Typical), SMF/BIF $\leq 0.02dB$ (Typical), DSF/NZDSF/EDF $\leq 0.04dB$ (Typical), CSF $\leq 0.02dB$ (Typical) Return Loss > $60dB$ Splice Time $\leq 6s$ (Fast mode), $\leq 9s$ (Auto mode); Heating Time $\leq 18s$, Adjustable Zoom $400 \times (X+Y)$; $320 \times (X \text{ or } Y)$ Electrode Life $\geq 5000 \text{ splices}$ Tension Test $1.96N \sim 2.25N$ Start-up Time $< 10s$ Power Supply $220V \pm 10\%$, $50Hz$ AC/DC; Rechargeable Lithium Battery; support operation when charging Battery Life $\geq 200 \text{ Splicing}$ and Heating Chanrging Time $\leq 4 \text{ hours}$ Size $131 \text{mm} \times 79 \text{mm} \times 200 \text{mm}$ (L $\times W \times $	Data	≥10000 splice records (CSV format), ≥150 screenshots
Cleave Length $5mm \sim 16mm$ MMF ≤ 0.01dB (Typical), SMF/BIF ≤ 0.02dB (Typical), DSF/NZDSF/EDF ≤ 0.04dB (Typical), CSF ≤ 0.02dB (Typical) Return Loss $> 60dB$ Splice Time $\le 6s$ (Fast mode), $\le 9s$ (Auto mode); Heating Time $\le 18s$, Adjustable Zoom $400 \times (X+Y)$; $320 \times (X \text{ or } Y)$ Electrode Life $\ge 5000 \text{ splices}$ Tension Test $1.96N \sim 2.25N$ Start-up Time $< 10s$ Power Supply $220V \pm 10\%$, $50Hz$ AC/DC; Rechargeable Lithium Battery; support operation when charging Battery Life $\ge 200 \text{ Splicing}$ and Heating Chanrging Time $\le 4 \text{ hours}$ Size $131mm \times 79mm \times 200mm$ (L x W x H) Weight $1.3Kg$ (With Battery) Work Temperature $-20^{\circ}C \sim +55^{\circ}C$ Storage Temperature $-40^{\circ}C \sim +70^{\circ}C$ Humidity $\le 95\%$ (non-condensing) Altitude $0 \text{ m} \sim 5000 \text{ m}$	Data Port	USB, Driver-free
Cleave Length $5mm \sim 16mm$ MMF ≤ 0.01dB (Typical), SMF/BIF ≤ 0.02dB (Typical), DSF/NZDSF/EDF ≤ 0.04dB (Typical), CSF ≤ 0.02dB (Typical) Return Loss $> 60dB$ Splice Time $\le 6s$ (Fast mode), $\le 9s$ (Auto mode); Heating Time $\le 18s$, Adjustable Zoom $400 \times (X+Y)$; $320 \times (X \text{ or } Y)$ Electrode Life $\ge 5000 \text{ splices}$ Tension Test $1.96N \sim 2.25N$ Start-up Time $< 10s$ Power Supply $220V \pm 10\%$, $50Hz$ AC/DC; Rechargeable Lithium Battery; support operation when charging Battery Life $\ge 200 \text{ Splicing}$ and Heating Chanrging Time $\le 4 \text{ hours}$ Size $131mm \times 79mm \times 200mm$ (L x W x H) Weight $1.3Kg$ (With Battery) Work Temperature $-20^{\circ}C \sim +55^{\circ}C$ Storage Temperature $-40^{\circ}C \sim +70^{\circ}C$ Humidity $\le 95\%$ (non-condensing) Altitude $0 \text{ m} \sim 5000 \text{ m}$	Fiber Diameter	Cladding: 80~150µm, Coating: 100~1000µm
Splice Loss DSF/NZDSF/EDF ≤ 0.04dB (Typical), CSF ≤ 0.02dB (Typical) Return Loss >60dB Splice Time ≤6s (Fast mode), ≤9s (Auto mode); Heating Time	Cleave Length	5mm~16mm
Splice Time $≤ 6s$ (Fast mode), $≤ 9s$ (Auto mode); Heating Time $≤ 18s$, Adjustable $≤ 200m$ $400 \times (X+Y)$; $320 \times (X \text{ or } Y)$ Electrode Life $≥ 5000 \text{ splices}$ Tension Test $1.96N \sim 2.25N$ Start-up Time $< 10s$ Power Supply $220V \pm 10\%$, $50Hz$ AC/DC; Rechargeable Lithium Battery; support operation when charging $≤ 200 \text{ Splicing}$ and Heating $≤ 200 \text{ Splicing}$	Splice Loss	
Heating Time ≤18s, Adjustable Zoom 400 x (X+Y); 320 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 Chanrging 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	Return Loss	>60dB
Zoom $400 \times (X+Y)$; $320 \times (X \text{ or } Y)$ Electrode Life $≥5000 \text{ splices}$ Tension Test $1.96N \sim 2.25N$ Start-up Time $<10s$ Power Supply $220V\pm10\%$, $50Hz$ AC/DC; Rechargeable Lithium Battery; support operation when charging Battery Life $≥200 \text{ Splicing and Heating}$ Chanrging Time $≤4 \text{ hours}$ Size $131\text{mm}\times79\text{mm}\times200\text{mm}$ (L x W x H) Weight 1.3Kg (With Battery) Work Temperature $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$ Storage Temperature $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Humidity $≤95\%$ (non-condensing) Altitude $0 \text{ m} \sim 5000 \text{ m}$	Splice Time	≤6s (Fast mode), ≤9s (Auto mode);
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 Chanrging 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	Heating Time	≤18s, Adjustable
Tension Test $1.96N \sim 2.25N$ Start-up Time $< 10s$ Power Supply $220V \pm 10\%$, $50Hz$ AC/DC; Rechargeable Lithium Battery; support operation when charging Battery Life ≥ 200 Splicing and Heating Chanrging Time ≤ 4 hours Size $131mm \times 79mm \times 200mm$ (L x W x H) Weight $1.3Kg$ (With Battery) Work Temperature $-20^{\circ}C \sim +55^{\circ}C$ Storage Temperature $-40^{\circ}C \sim +70^{\circ}C$ Humidity $\leq 95\%$ (non-condensing) Altitude $0 \text{ m} \sim 5000 \text{ m}$	Zoom	400 x (X+Y) ; 320 x (X or Y)
Start-up Time <10s Power Supply 220V±10%, 50Hz AC/DC; Rechargeable Lithium Battery; support operation when charging Battery Life ≥200 Splicing and Heating Chanrging 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	Electrode Life	≥5000 splices
Power Supply 220V±10%, 50Hz AC/DC; Rechargeable Lithium Battery; support operation when charging Battery Life ≥200 Splicing and Heating Chanrging 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	Tension Test	1.96N ~ 2.25N
operation when charging Battery Life ≥ 200 Splicing and Heating Chanrging Time ≤ 4 hours Size $131\text{mm} \times 79\text{mm} \times 200\text{mm}$ (L x W x H) Weight 1.3Kg (With Battery) Work Temperature $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$ Storage Temperature $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Humidity $\leq 95\%$ (non-condensing) Altitude $0 \text{ m} \sim 5000 \text{ m}$	Start-up Time	<10s
Chanrging Time $≤4$ hours Size 131 mm×79mm×200mm (L x W x H) Weight 1.3 Kg (With Battery) Work Temperature -20 °C $\sim +55$ °C Storage Temperature -40 °C $\sim +70$ °C Humidity $≤95$ % (non-condensing) Altitude 0 m ~ 5000 m	Power Supply	
Size $131 \text{mm} \times 79 \text{mm} \times 200 \text{mm} \text{ (L x W x H)}$ Weight $1.3 \text{Kg (With Battery)}$ Work Temperature $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$ Storage Temperature $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Humidity $\leq 95\%$ (non-condensing) Altitude $0 \text{ m} \sim 5000 \text{ m}$	Battery Life	≥200 Splicing and Heating
Weight 1.3Kg (With Battery) Work Temperature $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$ Storage Temperature $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Humidity $\leq 95\%$ (non-condensing) Altitude $0 \text{ m} \sim 5000 \text{ m}$	Chanrging Time	≤4 hours
Work Temperature $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$ Storage Temperature $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Humidity $\leq 95\%$ (non-condensing) Altitude $0 \text{ m} \sim 5000 \text{ m}$	Size	131mm×79mm×200mm (L x W x H)
Storage Temperature $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Humidity $\leq 95\%$ (non-condensing) Altitude $0 \text{ m} \sim 5000 \text{ m}$	Weight	1.3Kg (With Battery)
Humidity \leq 95% (non-condensing) Altitude 0 m ~ 5000 m	Work Temperature	-20°C ~ +55°C
Humidity ≤95% (non-condensing) Altitude 0 m ~ 5000 m	Storage Temperature	-40°C ~ +70°C
Altitude 0 m ~ 5000 m	Humidity	≤95% (non-condensing)
Wind Speed ≤15 m/s	Altitude	1
	Wind Speed	≤15 m/s

