

# Core Alignment Fusion Splicer

Single Optical Fiber Fusion Splicer

US Patent 11/912,109

## Swift-S3



### Features

- Core Alignment by IPAS Technology
- Resistant Shock, Dust and Rain
- Powerful Battery with Large Capacity
- Dual Sleeve Heater
- Automatic Execution of Discharge Calibration
- Compatible for SOC Connector (Option)
- Smallest, Lightest & Fastest
- 4.3" Color LCD Monitor with Touch Panel
- Bidirectional Operation System
- Attached Sleeve Loader
- Attached Night Light
- RoHS Compliant

# Benefits and Features

# Swift-S3



## IPAS Technology basis Core Alignment

Swift-S3 is the core alignment splicer based on IPAS (Image Pattern Analysis Alignment System) Technology

## Smallest, Lightest and Fastest

This splicer is the smallest, lightest and fastest among all the existing core alignment splicers

Dimension : 135(W) × 160(L) × 135(H)

Weight : 2.3kg

Splicing Time : 9 seconds,

Tube heat : 26 seconds

} Battery and shock proof rubbers are included

## Resistant Shock, Dust and Rain

The splicer has stable performance even in a harsh environment

## Powerful Lithium Polymer Battery with Large Capacity

Performs 250 cycles of fusion splicing and sleeve heating with the standard battery

## Automatic Execution of Discharge Calibration

Detects the surrounding environment of temperature, humidity, air pressure and measures discharge calibration rate automatically

## Compatible for SOC Connector

Telcordia-GR-326 Compatible

SC Connector-APC, UPC

LC Connector-APC, UPC

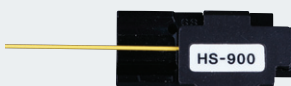
FC Connector-APC, UPC

ST Connector-APC, UPC

Refer to Swift SOC Catalog



SC Connector



LC Connector



FC Connector



ST Connector



# Swift-S3

## Benefits and Features

### 4.3-inch Color LCD Monitor with Touch Panel

Magnification : 300X, 187X

For user's convenience, LCD monitor has been designed with touch panel in addition to the operation keys.

### Bidirectional Operation System

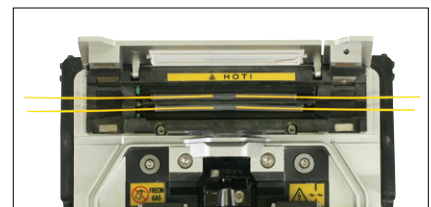
For user's ergonomic preference, the screen can be turned around for one's chosen viewing direction.

### Equipped with Sleeve Loader to Prevent Contamination and Provide Convenience

While working in a man hole, the loader prevents the supplementary sleeve from falling and being contaminated. Working in aerial space such as telephone pole, the loader also prevents the supplementary sleeve from falling down.

### Built-in Dual Sleeve Heaters

By using the dual sleeve heaters, a user can improve one's productivity by 30%



### STANDARD PACKAGE



### OPTION PACKAGE



# SPECIFICATIONS

Subject	Description
Fiber alignment	IPAS core to core alignment(Image pattern analysis alignment system)
Applicable fibers	SM(ITU-T G.652), MM(ITU-T G.651), DS(ITU-T G.653), NZDS(ITU-T G.655) EDFA, EI980, Splicing available with different type fiber(SM/MM), ITU-T G.657
Fiber count	Single fiber
Applicable fiber dimensions	Cladding diameter: 80 ~ 150 $\mu\text{m}$ , Coating diameter: 100 ~ 1000 $\mu\text{m}$
Fiber setting and cleaved length	250 $\mu\text{m}$ : 8~16mm, 900 $\mu\text{m}$ : 16mm(Application Holder: 8mm)
Splicing Time	Splice mode: 100, Heat mode: 50
Typical Splice Loss	SMF: 0.02dB, MMF: 0.01dB, DSF: 0.04dB, NZDSF: 0.04dB
Return Loss	> 60dB
Splicing Time	Splice: Typical 9sec, Tube heat: Typical 26sec with S-160(60mm) Tube
Splice loss estimate	Available
Sleeveheating time	35sec
Applicable protection seeve	45mm, 60mm(fiber), 28mm or 32mm(connector)
Storage of splice result	The last 2,000 results to be stored in the internal memory.(Image 100 results)
Tension test	2N / 4,4N(Option)
Operating condition	Altitude: 0~5,000m above sea level, Temperature: -10 $^{\circ}\text{C}$ ~50 $^{\circ}\text{C}$ , Humidity: 0~95%, Wind: 15m/s, non-condensing, dust proof, water proof, shock proof
Storage condition	Temperature: -40 $^{\circ}\text{C}$ ~80 $^{\circ}\text{C}$ , Humidity: 0~95%
Dimensions	135(W) $\times$ 160(L) $\times$ 135(H)mm (Include monitor, rubber)
Weight	2.3kg(Include battery)
Viewing method and display	Two CMOS cameras and 4.3" color LCD monitor with touch panel
Fiber view and magnification	X or Y view: 300X, X and Y view: 300X, 187X
Power supply	DC Lithium polymer battery(DC 14.8V, 5600mAh), 100~240V AC Adapter
No. of splice cycles with battery	250cycle
Electrode life	More than 2,500 times splicing without exchange
Terminals	USB, RCA, External Power(DC 12V Available for car cigar jack)

## STANDARD PACKAGE

Description	Model	Q'ty
Arc Fusion Splicer	S3	1
AC Adapter	S311	1
Sleeve Loader	S312	2
Spare Electrodes	EI-21	1set
Battery Pack	S313	1
Alcohol Dispenser		1
Cooling Tray	CT-03	1
Hoder	HS-?	Option 1set(2ea)
Tool Box		1
User Manual		1
Carrying Case	Hard Case	1

## OPTION PACKAGE

Description	Model
Battery Pack	S313
Fiber Cleaver	CS-03A
Cleaver Blade	BI-05
Fiber Optic Stripper	CFS-2
Electrode	EI-21
Fiber Holder	HS-250, HS-900, HS-2.5, HS-IN HS-SC, HS-FC, HS-LC, HS-ST
Sleeve	S-160(60mm), S-140(40mm)
Sleeving Stripper	SC-01
Manual Stripper	MS-01
SOC Connector	SC, LC, FC, ST Refer to SOC Catalog

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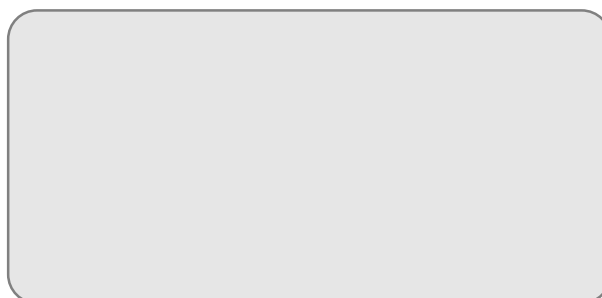
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