

# Core Alignment Fusion Splicer

*Single Optical Fiber Fusion Splicer*

PCT/KR2008/003533

## Swift-S3



### Features

- Core Alignment by IPAS Technology
- Resistance to the Environment with Shock, Rain and Dust
- Powerful Battery with Large Capacity
- Dual Sleeve Heater
- Automatic Execution of Discharge Calibration
- 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 : 138(W) × 160(L) × 135(H)

Weight : 2.3kg

Splicing Time : 9 seconds,

Tube heat : 26 seconds

} Battery and shock  
proof rubbers are  
included



### Resistance to the Environment with Dust, Shock and Rain

The splicer with high reliability 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 others by itself and measures discharge calibration rate automatically

# Swift-S3

## Benefits and Features

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

Magnification : 300X, 170X

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

### Bidirectional Operation System

For user's ergonomic preference, the screen can be turned around for one's chosen viewing direction as the monitor can be flipped upward and downward

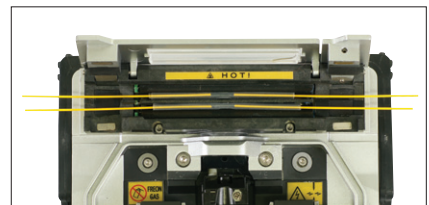
### Equipped with Sleeve Loader to Prevent Contamination and Provide Convenience

While working in a man hole, the loader prevents the supplementary sleeve from falling and being contaminated with a flowing water.

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 continuously without interruption and improves one's productivity by 20%



### STANDARD PACKAGE & OPTIONAL



### Cleaver Options



CI-01



CI-02



CI-03A



CI-03B

## SPECIFICATIONS

Subject	Description
Alignment	IPAS Core to Core Alignment (Image Pattern Analysis Alignment System)
Applicable fibers	SMF(ITU-T G.652), MMF(ITU-T G.651), DSF(ITU-T G.653), NZDSF(ITU-T G.655), EDFA, EI980, Splicing available with different type fiber(SM/MM), ITU-T G.657
Fiber Diameter	cladding : 80 $\mu$ m ~ 150 $\mu$ m, coating : 100 $\mu$ m ~ 1000 $\mu$ m (single)
Fiber cleave length	250 $\mu$ m (Coat) : 8 ~ 16mm, 900 $\mu$ m : 16mm
Typical splice loss	SMF : 0.02dB, MMF : 0.01dB, DSF : 0.04dB, NZDSF : 0.04dB
Return loss	Less then -60dB
SPLICE Time	SPLICE : Typical 9sec, Tube Heat : Typical 26sec with S-160(60mm) Tube
Program	SPLICE Mode : 100, Heat Mode : 50
Storage of splice result	the last 2,000 results (Image 100 results)
Operating altitude	0 ~ 5000m above sea level
Operating condition	-10℃ to 50℃, humidity : 95%, non-Condensing
Storage condition	-40℃ to 80℃, 0 to 95% RH
Protection	Wind 15 $\frac{m}{s}$ , shock proof, water proof, dust proof
SIZE, Weight	138W × 160L × 135H (include Monitor & Rubber), 2.3Kg (include Battery)
Terminal	USB, RCA, External Power
Power	DC 14.8V Battery (5600mAh), 100 ~ 240V AC Adapter
Additional power	DC 12V automobile power outlet available
No of splice/Heating with Battery	250cycle, lithium polymer batteries
Electrode	more than 2,000 times splicing without exchange
Mechanical proof test	2N / 4.4N (OPTION)
Display	Two CMOS cameras and 4.3" color LCD monitor, with touch panel
Fiber view and magnification	X/Y 300X, 170X

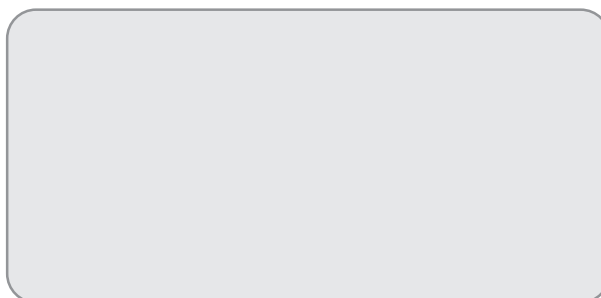
### STANDARD PACKAGE

Description	Model	Q'ty
Arc Fusion Splicer	S3	1
AC Adapter	S311	1
Sleeve Loader	S312	2
Spare Electrodes	EI-21	1
Battery Pack	S313	1
Alcohol dispenser		1
Carrying Case		1
User Manual		1

### OPTION

Description	Model
Battery Pack	S313
Fiber Cleave	CI-01, CI-02, CI-03, CI-03B
Heating Stripper	Auto Stripper(ATS)
Fiber Solution	Multipack(MP-S)
Protection Sleeves	S-160(60mm), S-140(40mm)
Cleave Blade	BI-05

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