Fusion Splicer UCL Swift

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Variants

S5 K11 K33 S3 K9 K7 KF4A KF4

Details

UCL SWIFT Fusion Splicer

The **UCL SWIFT Fusion Splicer** is a high-performance core alignment fusion splicer featuring advanced **IPAAS (Image Pattern Analysis Alignment System)** technology for precise fiber core alignment. Designed for FTTH, FTTx, ISP, CATV, data centers, and backbone fiber networks, it delivers fast splicing performance, low splice loss, and reliable operation in demanding field environments.

Equipped with a **5-inch color touchscreen**, dual CMOS cameras, internet remote maintenance, automatic arc calibration, and support for Splice-On Connectors (SOC), the SWIFT Fusion Splicer offers excellent efficiency, durability, and ease of use for professional fiber optic technicians.

Quick Specifications

Fiber Alignment

IPAAS Core Alignment

Splicing Time
6 Seconds

Heating Time
9–13 Seconds

Display
5" Touchscreen

Key Features

- IPAAS Core-to-Core Alignment Technology
- Internet remote access maintenance
- Fast 6-second fiber splicing
- Fast 9-second sleeve heating
- Supports Splice-On Connector (SOC)
- Automatic arc calibration
- 5-inch color LCD touchscreen
- Dual CMOS fiber imaging cameras
- Shock, dust and water resistant
- Bidirectional operating system
- Sleeve loader contamination protection
- Compact and lightweight field design

Technical Specifications

Parameter	Specification
Fiber Alignment	IPAAS Core-to-Core Alignment (Image Pattern Analysis)
Applicable Fiber Types	0.25 mm, 0.9 mm, 2.0 mm, 3.0 mm & 4.0 mm Indoor Fiber
Fiber Count	Single Fiber
Fiber Diameter	Cladding: 80–150 ?m Coating: 100 ?m – 4 mm
Cleave Length	7–16 mm
Splice Modes	300 Splice Modes
Heat Modes	100 Heat Modes
Typical Splice Loss	SM: 0.02 dB MM: 0.01 dB DS: 0.04 dB NZDS: 0.04 dB
Return Loss	> 60 dB
Splicing Time	6 Seconds (Quick Mode)
Heating Time	9 sec (IS-45 Sleeve) 13 sec (IS-60 Sleeve)
Supported Sleeves	40 mm, 60 mm, 32 mm & 28 mm (SOC)
Storage Capacity	3,000 Splice Results + 3,000 Images
Tension Test	1.96 – 2.25 N
Display	5-inch Color LCD Touchscreen with Dual CMOS Cameras

Parameter	Specification
Magnification	X/Y: 200× Maximum: 400×
Power Supply	14.8V 4000mAh Battery + AC 100–240V Adapter
Battery Capacity	Approximately 200 Splice & Heat Cycles
Electrode Life	> 3500 Arc Discharges
Dimensions	143 × 163 × 140 mm
Weight	2.2 kg (Including Battery)

Standard Package

Item	Model	Quantity
Fusion Splicer	SWIFT	1
Battery	K11-4000	1
AC Adapter	FJ-SW1803000	1
Spare Electrodes	EI-23	1 Pair
Transport Case	Hard Case	1
Cooling Tray	CT-01	1

Applications

FTTH & FTTx Networks

Ideal for fiber access network deployment and maintenance.

ISP Field Installation

Suitable for backbone, distribution and customer connection projects.

CATV & Telecom

Professional optical fiber splicing for communication infrastructure.

Emergency Fiber Repair

Compact, lightweight and rugged design for field maintenance.

Installation Recommendation

For optimum splicing performance, use a high-quality fiber cleaver, clean fiber with 99% IPA before splicing, perform automatic arc calibration whenever environmental conditions change, and replace electrodes after approximately **3,500 arc discharges**. Charge the battery fully before field operation to achieve up to **200 splice and heat cycles**.

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