

Fusion Splicer Signal Fire

Variants

AI-8 AI-7 AI-6 A9 AI-9

Details

Signal Fire Fusion Splicer

The **Signal Fire Fusion Splicer** is a high-precision, intelligent, and rugged optical fiber fusion splicing machine engineered for **FTTH, FTTB, backbone networks, and professional telecom field applications**. Recognized for its smart features, fast operation, and stable performance, Signal Fire has become a trusted brand among fiber technicians, ISPs, and network installation contractors.

Signal Fire models such as **AI-6C, AI-7, AI-8, and AI-9** come equipped with advanced alignment systems, real-time monitoring, and app support, delivering top-tier accuracy at an affordable price.

1. Key Features

? Intelligent Core Alignment System

- Utilizes advanced imaging and precision motors.
- Ensures exact fiber core matching for **minimal splice loss**.
- Compatible with SM, MM, DS, and NZDS fibers.

? Smart APP Connectivity (Bluetooth)

- Works with the Signal Fire mobile application.
- Allows real-time monitoring of splice results.
- Enables software updates, system calibration, and maintenance tracking.
- Simplifies data management for technicians.

? Fast Splicing & Heating Performance

- Splice time: **6–8 seconds**
- Heating time: **15–20 seconds**
- Designed to deliver high productivity during FTTH rollout and fiber repairs.

? High-Capacity Lithium Battery

- Long-lasting battery supports **180–250 cycles** (splicing + heating).
- Ideal for fieldwork where power sources are limited.

? High-Resolution HD Display

- 4.3"–5" color touchscreen with dual X/Y fiber view.
- Clear alignment visuals even under strong sunlight.
- User-friendly interface suitable for beginners and experts.

? Rugged Outdoor-Ready Construction

- Shockproof body with reinforced structural design.
- Dust-resistant and suitable for construction sites.
- Stable performance in varying weather conditions.

? Automatic Intelligent Functions

- Auto fiber detection and auto arc calibration.
- Environmental compensation for altitude, temperature & humidity.
- Auto splicing when the lid is closed.
- Auto heating activation for quick workflow.

? Multi-Core Image Processing

- Fast quad-core processor for accurate fiber positioning.
- Smooth, stable, and reliable fusion quality.

2. Technical Specifications (General Signal Fire Model)

Parameter	Description
Alignment	Core alignment / AI-assisted alignment

Parameter	Description
Applicable Fibers	SM, MM, DS, NZDS
Typical Splice Loss	0.02 dB (SM), 0.01 dB (MM), 0.04 dB (DS/NZDS)
Splice Time	6–8 seconds
Heating Time	15–20 seconds
Display	4.3–5" color HD touchscreen
Processor	Quad-core CPU
Magnification	Up to 300x
Battery Capacity	180–250 cycles (splicing + heating)
Operating Temperature	–10°C to 50°C
Humidity	? 95%
Storage	Up to 10,000 splice records
Protection	Shockproof, dustproof, outdoor-ready
Weight	2.3–3.2 kg (machine only)