

## **SmartFuse – A Fusion Splicer Software to Enhance the Performance**

OFS FITELE's SmartFuse is designed to enhance splicing performance in the field, lab and factory. The software enables users to improve splicer's performance, such as sophisticated fibers' alignment, "live" splicing, etc. and manager splicing data, including insertion loss and splicing images. Additional features include the ability to edit, upload, download and backup/restore splicing recipes. It also allows users to establish a network connection through RS232, GPIB or USB to PCs. SmartFuse works with all FITELE splicers. A 30-Day Free Trial for Advanced version is available.

\*Smartfuse virtually works with all the FITELE S123, S124, S153, S177, S178, S183, S184 and S185 series splicers.

### **Features:**

- Enables splicer networking by allowing users to monitor performance of several FITELE machines simultaneously through RS232, GPIB or USB connection
- Improves quality control by establishing a database of all splicing results; allows users to trace results by splice, date, model or splicing program
- Collect splicing data such as insertion loss, estimated loss, extinction ratio, etc. Collect process data such as axis offset, gap, cleave angle, etc.
- Provides statistical process control with an analysis tool that allows the operator or supervisor to examine splicing trends and improve splicing quality. Identify when maintenance and/or operator training is required based on statistical data.
- Provides interface between fusion splicer and test equipment, allowing user to perform "live" splicing with real-time feedback from test equipment
- Provide script based optimization module to allow users write their own algorithm to achieve splicing performance, especially for difficult and challenging fibers.
- Conveniently download optimized splicing programs to splicers, or upload program/data from splicers to computer.
- Receive program updates from FITELE via email and import the improvements directly to your splicer.
- Provide interface to upgrade firmware.
- SmartFuse allows engineers to edit/compare current programs and optimize splicing parameters for specialty applications.
- Function allows engineer to develop new splicing programs, such as arc and motor movement patterns for special fiber combinations.
- Smartfuse can automatically identify the machines (if they are connected via USB) and establish the network without any manual setting up involvement.
- Provide user interface to perform various sophisticated manual splicing operation.
- Allow user capture detail image data for detail analysis, if necessary.
- Allow user script own fiber alignment method and splicing scheme.
- Provide pattern analysis based method to align various complicated fibers, such as multiple core fibers.

**SmartFuse Basic Module - Free of Charge with purchase of new FITEL fusion splicer**

**Basic Module includes:**

- 1) Production Display
- 2) Tutorial
- 3) Instruction
- 4) Statistical Analysis
- 5) Program Editor
- 6) Program Upload
- 7) Program Download
- 8) Program Comparison
- 9) Backup and Restore
- 10) Manual Mode
- 11) Live Splicing
- 12) Machine Status
- 13) Result History
- 14) Arc History
- 15) Image Capture
- 16) Firmware Upgrade
- 17) Self-Check
- 18) Splicer Communication Log
- 19) Terminal Communication

**SmartFuse Advanced Module (In addition to Basic Module) - cost included/ for each license.**

**Advanced Module includes all features of Basic Module and:**

- 20) Optimization
- 21) ARC & Movement Patterns
- 22) Motor Movement
- 23) Brightness Capture
- 24) Script feature
- 25) Imaging based Profile alignment