

Specialty Fiber Fusion Splicer FSU 15 FA



Fusion Splicing Technology for Production Lines and R&D Labs

With a new approach for specialty fiber splicing the FSU 15 FA combines cold image alignment with warm image processing to splice fibers with different mode field diameters. Keeping track of the core before, during and after the splice, the FSU 15 FA secures the best possible splice result. Add speed, accuracy, high strength capabilities and you have a winner.

The FSU 15 FA includes software for specialty fiber splicing such as erbium fibers and other rare earth doped fibers. The splicer uses a new technology for matching fibers with different mode field diameters (patent pending) and reduces loss to levels never seen before. The FSU 15 FA, which is also equipped with attenuator making software, will bring specialty fiber splicing to new heights.

We have combined cold image alignment with warm image processing to ensure the best possible splice result, whatever fiber you are using. This also gives you extremely accurate splice loss estimation. The FSU 15 FA is equipped with fiber platforms for fiber holders to give the

machine high strength capabilities. Used with the right preparation tools you can achieve splices that can match the specification of your product.

The FSU 15 FA has a menu-driven user interface with dynamic function buttons, and a fully automatic splice process, which includes an automatic arc check that compensates for changed electrode condition (e.g. electrode wear) and operating conditions (e.g. altitude, temperature and humidity). The FSU 15 FA has a MFD estimation process that will fine tune the splice loss estimator.

Specialty fiber splicing has never been this easy.

- **erbium fiber splicing**
- **attenuator software**
- **high strength capabilities**
- **ultra fast splice time**

- **cold core alignment and warm image processing**
- **menu-driven user interface**
- **arc check process**



Specification

Fiber Types

SM/MM/DS/EDF etc. Can splice fibers with different mode field diameters

Typical Splice Loss

SM: 0.02 dB for identical fibers

MM: 0.01 dB for identical fibers

Typical Return Loss

>60 dB

Operating/Storage Environment

0 to +45°C/-20 to +60 °C, 0-95% RH (non-condensating)

Monitor

5" TFT color display

Dimensions

180 x 235 x 165 (W x D x H)

180 x 235 x 200 (W x D x H) incl power supply

Weight

3 kg

3.9 incl power supply

External Connectors

Video Output: VGA 15-pin

RS232 serial communication; 9-pin

Sensors

Air pressure, temperature, humidity

Functions

Erbium fiber splicing, attenuator production software, arc re-centering, arc check process, MFD estimation, warm image processing, fiber inspection, splice loss estimation etc.

Power

Attachable power supply 90-264 V AC, 47-63 Hz or battery (NiMH)