

S175



S175 Direct Core Monitoring Fusion Splicer

The Highest Performance with the Easiest Operation.

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The S175 is the fastest, smallest and easiest splicer to use among the world's direct core monitoring machines. The splicer automatically analyzes the fiber type from Single Mode, Multi Mode and Dispersion Shift and loads the suitable splice program.

Key Features

- 20-second splice time single mode, 90-second protection
- Fully automatic core-to-core alignment
- Automated splice program selection
- Simultaneous viewing of X and Y axis with automatic magnification control
- Advanced ARC power control with environmental sensing at splice point
- Die cast metal top including internal AC power unit and integrated color monitor

Specifications

Applicable Fiber

Silica glass-based optical fibers
SM/MM/DSF/EDF

Coating/Clad Dia.:

0.25–0.9mm / 0.1–0.15mm

Cleave Length:

- standard 16mm or 10mm only for 0.25mm coating diameter and 16mm for 0.9mm coating
- optional 10mm for 0.25–0.9mm coating

Splice Performance

Average loss:

SM:0.02dB

MM:0.01dB

DS:0.04dB

(with identical Furukawa fibers)

Reflection: -60 dB or lower

Estimation accuracy:

± 0.05dB (loss≤0.4 dB)

± 15% (loss>0.4 dB)

Operating time:

Splice: 20s (typical)

Heat: 90s (typical for S921)

Tension test: 200g (0.4lbs)

Function

- Auto sleep mode
- Remote control from PC
- Attenuation splice: Optional 0 to 10 dB by 0.1dB
- 32 splice program with one auto splice mode 4 — preprogrammed; 28 customizable
- Inspection: Cleave angle, fiber end gap, core eccentricity, offset, tilt, micro bending, bubble at spliced point
- Display information: operating message; ARC counter, clock, heater status, estimation loss, finder image X and Y view
- Message: A capacity to store 9 languages. Contact your dealer for details.

Reinforce Heater

- Applicable sleeve: 40 or 60mm
- Built-in cooling fan
- 4 default programs, 4 customizable heating programs
- Mechanical pre-tension fiber clamp
- Status shown in monitor

Operating Environments

Temperature: -10 to +50°C (14 to 122°F)

Humidity: 90% at 38°C (100°F)

Altitude: 3,658m/12,000ft (484mmHg)

Storage: -40 to + 60°C (-40 to 140°F)

Equipment

LCD: 5" color with anti-reflection coating

Video: NTSC (PIN connector)

Data: RS232C (D-sub 9 Pins male)

Memory: 400 splice losses

Sensor: air pressure, temperature, humidity

Lamp: V-Groove illumination

Body

Size/weight:

181W x 285D x 181H mm/6.4kg.

7.1"W x 11.2"D x 7.1"H/13.91lbs.

Power:

AC 100 /120, 200 /240 V 50/60 Hz DC

10-16.5V with LED indicator

Consumption:

Max. 70W typical 27W sleep 20W

Standard Package

Description	Model Number
Main body	S175X-01
Top cover	S175X-02
Worktable	S175X-03
AC power cord (2.5m)	S175X-04
Spare electrode (pair)	S175X-05
Spare fuse	S175X-06
Carrying case	S175X-07
DC connector	S175X-A08

Consumable

Sleeve: S921 (60mm) S922 (40mm)

25p/pack

spare electrodes (pair) S175X-05

Optional Accessories

Description	Model Number
Stripper (0.25 / 0.9 mm coating strip)	S210
Cleaver (16mm cleave)	S323A
(10mm cleave)	S323B
Tool kit	S423
Battery	S175X-A04
attachable at the back of S175, 12VDC 5.0AH, Including AC adapter and DC power cord, operates 30 fusion splices with heating	
Printer (prints loss data)	S902
RS232C cord	S175X-A02
(connect to PC/Printer)	
DC power cord	S175X-A01
(with car cigarette adapter)	

* Model number S175K for specialty fiber splices is also available. Please contact your sales representative.

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