



 Bluetooth®

70S+



In case with lid detached

## Fujikura 70S+ Fusion Splicer

The Fujikura 70S+ is the world’s fastest and most robust core alignment fusion splicer. Incorporating the proven ruggedized features pioneered by Fujikura, the 70S+ has added automated and enhanced user control features to increase splicing efficiency. A user programmable, automated wind protector expedites the splicing process by automatically closing to initiate the splice process, and opening upon splice completion. Fully programmable “auto open sheath clamps” open one or both sheath clamps, after the tensile test, to prepare the fiber for removal. A new automated “clamshell design” tube heater applies heat to both sides of the splice protection sleeve resulting in a 13-second shrink time. The result is a total splice process time of approximately 21 seconds! Ruggedness and durability are greatly enhanced by a mirror-less optical system and “severe-impact resistant” monitor. Battery capacity is now 200 splices/shrinks. An innovative transit case doubles as a built-in or mobile workstation and makes splicing easier than ever before. In an industry first, the 70S+ is also equipped with Bluetooth® technology. This allows the splicer to actively communicate with Bluetooth enabled fiber preparation accessories making maintenance of fiber preparation tools easier than ever! The 70S+ will also be available without Bluetooth functionality.

### Features

- Bluetooth wireless communication
- Automated and programmable wind protector
- 13-second automated tube heater
- Fully ruggedized for shock, dust and moisture
- Li-ion battery with 200 splices/shrinks per charge
- 5 mm cleave length for splice on connector or small package needs
- Sheath clamp or fiber holder operation
- On-board training and support videos
- Multi-function transit case with integrated workstation

### Ordering Information

| DESCRIPTION  | AFL NO. |
|--|---------|
| <b>70S+ Fusion Splicer (machine only)</b><br><b>Includes:</b> ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70C Sheath Clamp, USB Cable, Alcohol Pot, Screw Driver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap   | S015580 |
| <b>70S+ Fusion Splicer Kit (with cleaver)</b><br><b>Includes:</b> CT50 Cleaver, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70C Sheath Clamp, USB Cable, Alcohol Dispenser, Screw Driver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, and CC30 Transit Case with Carrying Strap  | S015590 |
| <b>70S+ Fusion Splicer Kit (with cleaver, battery and cord)</b><br><b>Includes:</b> BTR-09 Battery, DCC-18 Battery Charge Cord, CT50 Cleaver, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70C Sheath Clamp, USB Cable, Alcohol Dispenser, Screw Driver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap | S015591 |
| <b>70S+ Fusion Splicer Without Bluetooth (machine only)</b><br><b>Includes:</b> ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70C Sheath Clamp, USB Cable, Alcohol Pot, Screw Driver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap   | S017000 |
| One Year Extended Warranty   | S012996 |
| Two Year Extended Warranty   | S013000 |

## Fujikura 70S+ Fusion Splicer

### Recommended Accessories for the 70S+

| DESCRIPTION  | AFL NO. |
|--|---------|
| <b>Cleavers</b>  |         |
| CT08 Cleaver   | S017004 |
| CT50 Cleaver   | S017030 |
| <b>Fiber Holders</b>   |         |
| FH-70-250 (250 µm coated single fiber)   | S017111 |
| FH-70-900 (900 µm jacketed single fiber)   | S017113 |
| FH-60-160 Fiber Holder (pair)  | S014690 |
| FH-60-LT900 Fiber Holder (pair)  | S015181 |
| FH-60-LT900 Single Side Fiber Holder   | S015275 |
| <b>FUSEConnect® Accessories</b>  |         |
| FH-FC-20 (900 µm within 2.0 mm sheathing) (each)                                     | S014696 |
| FH-FC-30 (900 µm within 3.0 mm sheathing) (pair)                                     | S014695 |
| FH-FC-900 (900 µm cable) (each)  | S014697 |
| CLAMP-FC-2000 (pair)   | S014705 |
| CLAMP-FC-3000 (pair)   | S014704 |
| <b>Sheath Clamps</b>   |         |
| CLAMP-S70C Sheath Clamp<br>(Coating diameter from 100 µm - 1000 µm (5-16 mm cleave)) | S015586 |
| CLAMP-S70D Sheath Clamp<br>(900 µm diameter loose tube fiber (5-16 mm cleave))       | S015862 |

| DESCRIPTION  | AFL NO. |
|--|---------|
| <b>Batteries and Power Cords</b>   |         |
| ADC-18 AC Adapter  | S015585 |
| ACC-14 AC Power Cord   | S014536 |
| BTR-09 Battery and DCC-18 Charge Cord  | S016780 |
| BTR-09 Battery   | S015581 |
| DCC-18 Battery Charge Cord   | S015582 |
| DCC-12 Power Cord<br>(connects AC Adapter to cigarette lighter socket)         | S013552 |
| DCC-13 Power Cord<br>(connects AC Adapter to power source via alligator clips) | S013556 |
| <b>Miscellaneous</b>   |         |
| ELCT2-20A Electrodes   | S013532 |
| Portable Tripod Workstation (see product profile for more detail)              | S014773 |
| ASW-02 Splicing Workstation (see product profile for more detail)              | S010532 |
| JP-06 J-PLATE (70/19 Series)   | S016100 |
| SL-01 Sleeve Loader  | S015674 |
| Worktable Upper  | S015779 |
| Worktable Lower  | S015780 |
| Inner Box Set  | S015979 |
| USB Cable  | S014777 |
| CC-30 Transit Case   | S015587 |
| Splicer V-Groove Cleaning Kit  | S014397 |

### Specifications

| PARAMETER                       | VALUE   |
|---------------------------------|---|
| Model                           | 70S+ Fusion Splicer   |
| Applicable Fibers               | Single-mode (G.652 & G.657), Multimode (G.651.1), DS (G.653), CS (G.654), NZDS (G.655 & G.656) and Erbium-doped fiber         |
| Cladding Diameter               | 80 - 150 µm   |
| Coating Diameter                | 100 µm to 3,000 µm  |
| Fiber Cleave Length             | 5 to 16 mm  |
| Typical Average Splice Loss     | 0.02 dB with SM, 0.01 dB with MM, 0.04 dB with DS, 0.04 dB with NZDS, measured by cut-back method relevant to ITU-T standards |
| Splicing Time                   | ULTRA FAST mode — 6 seconds; SM FAST mode — 7 seconds; SM AUTO mode — 10 seconds; AUTO mode — 15 seconds with SM fiber        |
| Arc Calibration Method          | Automatic, real-time and by using results of previous splice when in AUTO mode, manual arc calibration function available     |
| Splicing Modes                  | 100 preset and user programmable modes  |
| Splice Loss Estimate            | Based upon dual camera core axis alignment data   |
| Storage of Splice Result        | Last 2,000 results stored in the internal memory  |
| Fiber Display                   | X or Y, or both X and Y simultaneously. Front or rear monitor display options with automated image orientation                |
| Magnification                   | 320X for single X or Y view, or 200X for X and Y view   |
| Viewing Method                  | Dual cameras with 4.7 inch TFT color LCD monitor  |
| Operating Condition             | 0 to 5,000 m above sea level, 0 to 95%RH and -10 to 50°C respectively   |
| Mechanical Proof Test           | 1.96 to 2.25N   |
| Tube Heater                     | Built-in tube heater with 30 heating modes; auto-start function   |
| Tube Heating Time               | Typical 13 seconds with FP-03 sleeve, 17 seconds with FP3 (40), 5-16 seconds with Fujikura micro sleeves                      |
| Protection Sleeve Length        | 60 mm, 40 mm, micro   |
| Splice/Heat Cycles with Battery | Typical 200 cycles with power save functions activated  |
| Electrode Life                  | 5,000 Arc Discharges  |
| Power Supply                    | Auto voltage selection from 100 to 240 V AC or 10 to 15 V DC with ADC-18, 14.8 V DC with BTR-09 battery                       |
| Terminals                       | USB 1.1 (USB-B type) for PC communication. Mini-DIN (6-pin) for HJS-02/03   |
| Wind Protection                 | Maximum wind velocity of 15 m/s. (34 mph)   |
| Dimensions                      | 146 W x 159 D x 150 H (mm) / 5.75 W x 6.25 D x 5.9 H (inches)   |
| Weight                          | 2.5 kg (5.5 lbs) with AC adapter ADC-18; 2.7 kg (5.95 lbs) with BTR-09 battery  |