

Optical Fiber Fusion Splicer
Keyman S1

*The **lightest***
*The most **convenient***
*The most **productive***



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Keyman S1, core to core aligning fusion splicer, is highly productive and conveniently designed for field engineer use.

1. Slide in-out monitor

- The monitor is protected from outer impact by sliding in the body while not in use.
- 5.6 inch wide monitor
- Easy to control with well organized Menu.



2. Dual tube heater

- Consecutive operation without any waiting. (30% improved productivity)
- Able to process consecutive or individual operation with 2 spaces, for high temp and for low temp, in one heater box.



3. Cooling Space

- Deployment of cooling space between heater and monitor for convenient use after sleeve heating.

4. Sleeve loader

- It avoids sleeve contaminations while operating in a manhole or rainy day.



5. Long-lasting battery and level meter

- 200 times with a standards battery.
- 400 times with an extra battery.
- Able to recharge during operation with a lithium polymer battery.
- No battery maintenance needed (Built-in Safety circuit)
- Easy to check battery level with a level meter on the switch board.

Accessories


CI-01

CI-02

CI-03

Electrodes

Blade

cleaning paper

Alcohol dispensers

Sleeve

**Large capacity
battery pack**

SPECIFICATIONS

| Subject | Description |
|------------------------------------|--|
| Alignment | Core to Core Alignment |
| Applicable fibers | SMF(ITU-T G.652), MMF(ITU-T G.651), DSF(ITU-T G.653), NZDSF(ITU-T G.655), EDFA, EI980, Splicing available with different type fiber(SM/MM) |
| Fiber Diameter | cladding : 80 μ m ~ 150 μ m, coating : 100 μ m ~ 1000 μ m (Single) |
| Fiber cleave length | 250 μ m (Coat) : 8 ~ 16mm, 900 μ m : 16mm |
| Typical splice loss | SMF : 0.02dB, MMF : 0.01dB, DSF : 0.04dB, NZDSF : 0.04dB |
| Return loss | >-60dB |
| SPLICER Time | SPLICER : Typical 9sec, Tube Heat : Typical 26sec with S-160(60mm) Tube |
| Program | SPLICER Mode : 100, Heat Mode : 50 |
| Storage of splice result | the last 2,000 results |
| Operating altitude | 0 ~ 5000m above sea level |
| Operating condition | -10°C to 50°C, humidity : 95%, non-Condensing |
| Storage condition | -40°C to 80°C, 0 to 95% RH |
| Wind protection | 15m/s |
| SIZE, Weight | 150W × 190D × 120H (include Monitor), 2.6kg (include Battery) |
| Terminal | USB, RCA, External Power |
| Power | DC 14.8V Battery (5600mAh), 100 ~ 240V AC Charger |
| Additional power | DC 12V automobile cigar jack available |
| No, of splice/Heating with battery | typical 200cycle with S-1B, Typical 400cycle with S-SB |
| Electrode | more than 3,000 times splicing without exchange |
| Mechanical proof test | 2N / 4.4N (OPTION) |
| Display | Two CMOS cameras and 5.6" color LCD monitor |
| Magnification | X or Y → 300X, X and Y → 180 X |
| Attenuation | 0.1dB ~ 15dB |
| X, Y, Z axis | Movable for alignment |
| Monitoring of Splicing Status | One or two displays |

STANDARD PACKAGE

| Description | Model | Q'ty |
|--------------------|-------|------|
| Arc Fusion Splicer | S1 | 1 |
| AC Charger | S-11 | 1 |
| Sleeve Loader | S-12 | 2 |
| Spare Electrodes | S-1E | 1 |
| Battery Pack | S-1B | 1 |
| Alcohol dispenser | AD | 1 |
| Carrying Case | | 1 |
| User Manual | | 1 |

OPTION

| Description | Model |
|----------------------|--------------------------|
| Battery Pack | S-SB (Super Battery) |
| Fiber Cleaver (Auto) | CI-01, CI-02, CI-03 |
| Heating Stripper | Auto Stripper(ATS) |
| Fiber Solution | Multipack(MP-S) |
| Tube | S-160(60mm), S-140(40mm) |



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