

## Single Fiber Fusion Splicer

# Fujikura 31S



## Features

- Active V-groove Alignment
- Fast splicing time 6sec.
- Touch panel with easy operation
- Simple lightweight carrying case for good mobility

## SPECIFICATIONS

Applicable fiber	Single / SMF(G.652/657), MMF(G.651), DSF(G.653), NZDSF(G.655)
Cladding dia. / Sheath dia.	125 $\mu$ m / 250, 900, 2000 to 3000 $\mu$ m fiber with sheathclamp
Cleave length	5mm to 16mm
Splicing mode / Heating mode	Total 100 splicing modes / 30 heating modes
Typical splice loss*1	0.03dB(SM), 0.01dB(MM), 0.05dB(DS) and 0.05dB(NZDS)
Return loss	60dB or greater
Typical splice time	6sec. SM FAST, 9sec. SM AUTO
Typical tube heating time	25sec. FP-03
Splice result storage	Last 10,000 splices
Viewing methods / Magnification	2 axis 2CMOS camera with 5.0" color LCD. 132X magnification.200X , 300X magnification after splicing
Tension test	1.96 to 2.25N
Applicable protection sleeve	60mm, 40mm and Fujikura micro sleeves
No. of splice & heating per battery full charge	Typical 200 cycles with BTR-11A*2
Electrode life	Typical 5000 splices
Dimensions / Weight	131(W) x 201(D) x 79(H) mm excluding rubber / 1.3kg (including battery)
Operating condition	Altitude : 0 to 5,000m above sea level, Wind : 15m/sec*3 Temperature : -10 to 50deg C, Humidity less than 95%RH, non-dew
Resistance feature*4	Shock resistance : 76cm (30inch) bottom surface drop Dust resistance : Exposure to dust ( 0.1 to 500 $\mu$ m dia. Alumina Silicate) Rain resistance : H=10mm/hr for 10min
Other features	PC software upgrade / data management
Terminals	USB 2.0 (Mini-B type) connector for PC communication. USB 2.0(host)

\*1:Typical value of the inspection with Fujikura identical fiber. Measured by cut-back method relevant to ITU-T and IEC standards.

\*2:one(1) splicing and heating cycle per two(2) min. under room temperature condition.

\*3:Under strong wind, it is necessary to lengthen the heating time setting.

\*4:The shock, dust and rain resistance test do not guarantee the product will not be damaged under these conditions.

### STANDARD PACKAGE

Description	Model No.	Q'ty
Fusion splicer	31S with BTR-11A and ELCT2-16B	1pc
AC adapter	ADC-19A	1pc
AC power cord	ACC-11	1pc
Carrying case	CC-35	1pc
Spare electrodes	ELCT2-16B	1pair
Instruction manual CD	M-31	1pc
Single fiber stripper	SS03 (for single 250, 900, 2000 to 3000μm fiber)	1pc
Quick reference guide	Q-31S-E	1pc

### OPTIONAL ITEMS

Description	Model No.
Fiber holder	FH-70-250 (coating dia. of 250μm)
	FH-70-900 (coating dia. of 900μm)
	FH-60-DC250 (coating dia. of 250μm in drop cable)
	FH-FC-20 (coating dia. of 900μm in 2.0mm Sheath dia.)
	FH-FC-30 (coating dia. of 900μm in 3.0mm Sheath dia.)
	FH-60-LT900 (900μm dia. loose buffer fiber)
Sheathclamp	CLAMP-S31A (included in standard package) CLAMP-S31B (900um dia. loose buffer fiber)
Set plate	SP-01
Battery pack	BTR-11A (Li-ion)*5
Electrodes	ELCT2-16B
Alcohol pot	AP-02

\*5: Please be aware the IATA regulation in case of shipping by air.

### ACCESSORIES

Description	Model No.
Fiber cleaver	CT08 (for single fibers)
Single fiber stripper	SS01 (for single 250μm fiber)
Protection sleeve	FP-03 / FP-03(L=40) and FPS01series

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