

# Fujikura 31S+

NEW

## Features

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



ACTIVE FUSION CONTROL TECHNOLOGY

Single Fiber Fusion Splicer

# Fujikura 31S+

Active V-groove Alignment with Active Fusion Control



## SPECIFICATIONS

Applicable fiber	Single / SMF (G.652/657), MMF (G.651), DSF (G.653), NZDSF (G.655)
Cladding dia. / Sheath dia.	125 $\mu$ m / Up to 3mm with sheath clamp
Cleave length	5mm to 16mm
Splice mode / heating mode	Total 100 splice modes / 30 heating modes
Typical splice loss* <sup>1</sup>	0.03dB (SM), 0.01dB (MM), 0.05dB (DS) and 0.05dB (NZDS)
Return loss	>>60dB
Typical splice time	6sec SM FAST, 9sec SM AUTO
Typical tube heating time	25sec FP-03, coating dia.250 $\mu$ m
Splice result storage	Last 10,000 splices
Viewing methods / magnification	2 axis 2CMOS camera with 5.0" colour LCD. 132X magnification.200X 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-11* <sup>2</sup>
Electrode life	Typical 5000 splices
Size / weight	131W x 201D x 79H mm / 1300g (including battery)
Operating condition	Altitude: 0 to 5,000m above sea level, Wind: 15m/sec* <sup>3</sup> Temperature: -10 to 50deg C, Humidity: 0 to 95%RH, non-dew
Resistance feature* <sup>4</sup>	Shock resistance: 76cm (30inch) bottom surface drop Dust resistance: Exposure to dust ( 0.1 to 500 $\mu$ m dia. Alumina Silicate) ,IP5X Rain resistance : H=10mm/hr for 10min ,IPX2
Other features	PC software upgrade / data management
Terminals	USB 2.0 (Mini-B type) connector for PC communication.

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

\*<sup>2</sup> one (1) splicing and heating cycle per two (2) min. under room temperature condition.

\*<sup>3</sup> Under strong wind, it is necessary to lengthen the heating time setting.

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

 **Fujikura**

**Single Fiber Fusion Splicer**  
**Fujikura 31S+**  
**Active V-groove Alignment with Active Fusion Control**

**STANDARD PACKAGE**

Description	Model No.	Q'ty
Fusion splicer	31S+ with BTR-11 and ELCT2-16B	1pc
Set plate	SP-31	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
Quick reference guide	Q-31S-E	1pc

**OPTIONAL ITEMS**

Description	Model No.
Fiber holder	FH-60-250 (coating dia. of 250μm)
	FH-60-900 (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)
Sheath clamp	CLAMP-S31A (included in standard package) CLAMP-S31B (900um dia. loose buffer fiber)
Battery pack* <sup>5</sup>	BTR-11(Li-ion) * <sup>5</sup>
Electrodes	ELCT2-16B
Alcohol pot	AP-02

\*<sup>5</sup> All senders must obey the IATA regulations in case of Li-ion battery transportation by air.

**ACCESSORIES**

Description	Model No.
Single fiber cleaver	CT08 (for single fiber)
Fiber cleaver	CT50 (for single to 12 ribbon fibers)
Single fiber stripper	SS01 / SS03* <sup>6</sup>
Ribbon fiber stripper	RS02 / RS03
Protection sleeve	FP-03 / FP-03(L=40) and FPS01series

\*<sup>6</sup> Standard Package includes SS03

Specifications and descriptions are subject to change without prior notice. © 2022 Fujikura Ltd.

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