

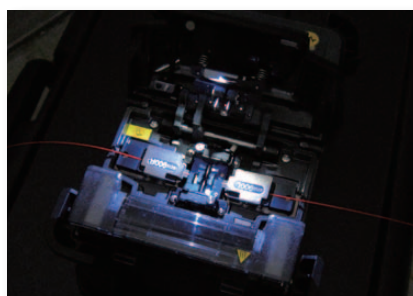
Hand Held Active Alignment Splicer

S153A ver.2 NEW features

The S153A Active 3 Axis Cladding Alignment Fusion Splicer has been enhanced and updated to version 2. The battery is automatically charged internally when connected to AC mains power even during operation. The new illumination lamp lights up a wide area around the V-grooves and helps operation in low light environment. The redesigned and strengthened heater simplifies the protection sleeve loading process.

Features and applications

S153A is the first choice for low cost field splicing equipment. The Active V-Groove technology used on the S153A delivers low loss splices with ease while eliminating common Fixed V-Groove splicing errors.



Using the rugged metal body, the S153A is designed to endure harsh operating conditions by improving shock/impact resistance with rubber pads embedded on 4 corners of the splicer body. It also achieves water resistance compliant to IPX2 and dust resistance compliant to IP5X.

Another key feature of the S153A is the significantly reduced operation time. Protection sleeve shrink time is mere 25 seconds, while splicing requires only 9 seconds. Power saving technology used in these machines allows up to 200 splicing cycles (splicing and heating) with 2 built in rechargeable batteries.

By combining ease of use, improved speed, precision, durability and portability, the S153A Fusion Splicer becomes your first choice for a versatile low cost splicer with a wide range of applications.



NEW



Key features

- NEW Internal battery charging**
- NEW Illumination lamp** lights up a wide area around V-grooves
- NEW User friendly LCD display** offers 4 different X/Y image layouts
- NEW Simplified splice result indicator** red / green icon
 - **Active V-groove**, More Reliable than conventional Fixed V-groove machines
 - **Rugged and compact hand held design** to endure harsh environmental conditions
 - **Fast splice (9 sec)** at super low loss and **Fast Heating (25 sec)**^{*1}
 - **200 cycles (Splicing & Heating)** with Internal batteries^{*2}
 - **Splice programs available for All METRO/LAN/FTTx fibers** including ultra bend-insensitive fibers (e.g. EZ-Bend™)
 - **Splicer is compatible with the Seikoh Giken and Diamond Splice-on-connector (SOC)**
 - **Easy maintenance** electrode replacement/mirror free alignment system
 - **Easy Software upgrade** via the Internet
- NEW Simplified program fusion and heater programming**
 - **Easily exchanged fiber holder systems** (Tight holder/Removable fiber holder/SOC holder)
 - **PC interface software** to allow user manage splicing programs and results
 - **Auto-start** heater oven option
- NEW Improved GUI** enhancing ease-of-use
 - **Large memory** for storing 2,000 splice records and last 100 splice result images
 - **RoHS compliant**

*1 By using semi-auto mode for splicing and pre-heating mode for heating.

*2 By using 2-batteries, semi-auto mode for splicing and regular mode for heating.



FITEL Splicer SOC partners



Under Tough Environment

S153A passed criteria as below ^{*3};

Drop Resistance

76 cm Drops from 5 different angles



Water Resistance

IPX2 rating drip proof ^{*4}



Dust Resistance

IP5X rating dust proof ^{*5}



*3 Above tests were performed at Furukawa Electric Co., Labs, and do not guarantee that the machine will be undamaged under these conditions.

*4 IPX2 rating drip proof means that the machine can be exposed to 3 mm/min drip from 4 different angles with 15° tilt for 2.5 min each and still functions.

*5 IP5X rating dust proof means that the machine can be exposed to dust particles with a diameter of 0.1 to 25 µm for 8 hours and still functions.

SPECIFICATIONS

Applicable Fibers	SM (ITU-T G.652), MM (ITU-T G.651), DSF (ITU-T G.653), NZD (ITU-T G.655), BIF/UBIF (Bend insensitive fiber, ITU-T G.657)
Cladding Diameter	80~150 μm
Coating Diameter	100~1,000 μm
Fiber Cleave Length	5~16 mm
Average Splice Loss	SM: 0.04 dB, MM: 0.02 dB, DSF: 0.06 dB, NZD: 0.06 dB
Splice Time	9 seconds (semi-auto mode) 11 seconds (regular mode)
Heat Time	25 seconds* ⁶ (S922: 40 mm Sleeve, S921: 60 mm Sleeve) (Pre-heat mode) 31 seconds* ⁶ (S922: 40 mm Sleeve, S921: 60 mm Sleeve) (regular mode)
Splice Programs	Max. 150
Heat Programs	Max. 18
Automatic Heating Start	Available
Applicable Sleeves	20/40/60 mm
Fiber Holding	Tight holder (Loose tube applicable) or Removal Fiber Holder System
Tension Test	1.96 N
Return Loss of Splice	60 dB or greater
Fiber Image Magnification	76X, 235X
Splice Memory	Max. 2,000
Image Capture Capacity	Last 100 images to be automatically captured + Up to 24 images to be stored permanently
Dimension	127W × 199D × 105H mm (not including shock absorber) 159W × 231D × 130H mm (including shock absorber)
Weight	1.7 kg (without battery) 2.1 kg (with two batteries)
Monitor	3.5" color LCD monitor
Data Output	USB ver.2.0 mini
Battery Capacity	Typical 80 splice/heat cycles with single battery* ⁷ Typical 200 splice/heat cycles with 2 batteries* ⁸
Altitude	5,000 mh
Wind Protection	Max. wind velocity of 15 m/s.
Operating Temperature	-10 to +50°C (0 to 95% Relative Humidity [Non-Condensing])
Storage Temperature	-40 to +60°C (0 to 95% Relative Humidity [Non-Condensing])
Humidity	0 to +95% RH (non-condensing)
Power Source	AC Input 100 to 240 V (50/60 Hz), DC Input 11 to 17 V without any change of hardware

*⁶ The first heating after turning on the power can be longer than the usual heating time.

*⁷ The number of the splicing and heating the machine can produce using a fully charged brand new battery at room temperature of 20°C, semi-auto mode for splicing and regular mode for Heating. Depending on the condition of the batteries and operation environment, the number can vary.

*⁸ The number of the splicing and heating the machine can produce using 2 fully charged brand new batteries at room temperature of 20°C, semi-auto mode for splicing and regular mode for Heating. Depending on the condition of the batteries and operation environment, the number can vary.

STANDARD PACKAGE

Item	P/N	Quantity
① S153A Main Body	S153-A-A-0001	1
② Hard Carrying Case	HCC-01	1
③ Battery Pack Depending on the package	S943B	1 or 2
④ Spare Electrodes	S969	1pair
⑤ AC Adaptor for S153A and S958C	S976A	1
⑥ AC Cable Cord	—	1
⑦ Electrode Sharpener	D5111	1
⑧ Cleaning Brush	VGC-01	1
⑨ Tool case	TCC-01	1
User Manual	FTS-B409	1



OPTIONAL COMPONENTS

Item	P/N	Quantity
① Soft Carrying Case	SCC-01	1
② Battery Charger	S958C	1
③ AC Adaptor for S958C	S977A	1
④ Cooling Tray	CTX-01	1
⑤ Angled Stand	AGS-01	1
⑥ Working Belt	WBT-01	1
⑦ USB Cable	USB-01	1
⑧ Car Cigarette Cable	CDC-01	1
⑨ Tripod Adapter	TPA-01	1
⑩ Tight Holder		
16 mm Cleave length	S712T-016	1pair
10 mm Cleave length	S712T-010	1pair
⑪ Removal Fiber Holder		
160 μm coating diameter fiber	S712S-160	1pair
250 μm coating diameter fiber	S712S-250	1pair
500 μm coating diameter fiber ^{*9}	S712S-500	1pair
900 μm coating diameter fiber	S712S-900	1pair
Loose Tube Fiber (Left side)	S712S-LT-L	1
Loose Tube Fiber (Right side)	S712S-LT-R	1
⑫ SOC Holder		
<For Ferrule>		
Seikoh Giken FC/SC connector (9 mm)	S712C-SGS9-L	1
Seikoh Giken FC/SC connector (5 mm)	S712C-SGS5-L	1
Seikoh Giken LC connector (9 mm)	S712C-SGL9-L	1
Seikoh Giken LC connector (5 mm)	S712C-SGL5-L	1
Diamond E-2000™/F-3000™ LC/SC connector	S712C-DM25-L	1
<For Cordage>		
Seikoh Giken Cordage (5 mm)	S712C-SGC5-R	1
Seikoh Giken Cordage (9 mm)	S712C-SGC9-R	1
Diamond Cordage (5 mm cleave, 1.8~3 mm cordage)	S712C-DMC5-R	1
<Tool>		
Diamond Mount	WTX-01	1
Smart Fuse	SF-01	1
Software Interface for Machine		

*9 Used for 400-500 μm cladding diameter fiber.



⑤ Angled Stand in Action



⑥-1 Working Belt in Action



⑥-2 Working Belt in Action

ORDERING NUMBER FORM S153A-(X1)-(X2)

Category	Code	Remark	
X1	Fiber Holder Type	1 16 mm Tight Holder S712T-016 2 10 mm Tight Holder S712T-010 3 Fiber Holder System	
	X2	Number of Battery Pack (S943B)	1 1 pack 2 2 packs

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eFriendly Logo Mark

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Our Group has configured the environmental management system at each of our plants worldwide, and acquired ISO14001 certification.

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