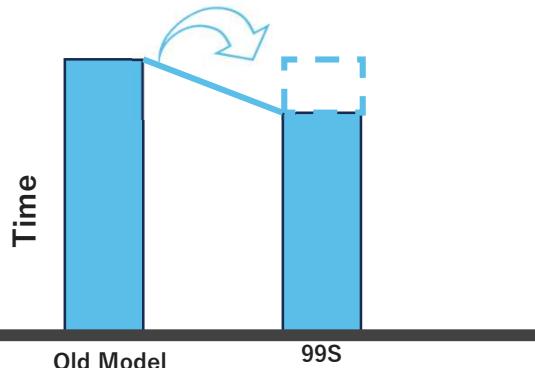


Core Alignment Fusion Splicer 99S Kit

Faster, easier, changing the field use with advanced fusion splicers.

Achieved **20%** faster operation

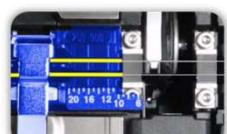


Simultaneous fiber preparation.



Stripping

The single fiber stripper SS05 can strip two optical fibers at the same time



Cleaving

The optical fiber cleaver CT60 can cleave two optical fibers simultaneously.



Setting

When setting the fibers, the clamp cover closes automatically, allowing two fibers to be set simultaneously.

GPS

Location information acquired via GPS at the time of splicing is saved in memory. It helps with daily workflow management.

Simplified fiber set using the finger placement guide

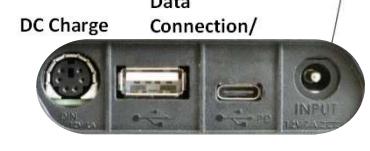
A V-shaped guide has been added to the fiber setting area. By aligning your finger with the guide, it has become easier to place the fiber accurately.



Finger placement guide

Wind protector with automatic open and close function

After setting the fiber, the wind protector closes automatically and opens automatically once the splicing process finishes.



For external illumination

AC Adapter

Adjustable lever opening angles

By adjusting the lever opening angle, it is easy to use in various situations, whether on a tabletop or handheld.



Optical fiber cleaver, CT60

Increased number of blade positions.

By increasing the number of blade positions from 16 to 28 compared to the previous model, no need for blade height adjustment anymore.



Blade, CB-10

Linked with smartphone app

With the app Splice+, you can view the location information and splice results. Additionally, it is equipped with a locking function to prevent theft.



DOWNLOAD



Splice Coach function

Step-by-step instructions appear on the screen, allowing for seamless and confident work.



Compatible with mobile batteries*

Supports charging via standard mobile batteries, ensuring reliability even during sudden power loss.



Please confirm that any mobile battery connected to this product meets USB PD standards and adhere to the mobile battery's precautions. Do not use mobile batteries that are incompatible with this machine.

User-friendly features

99S Standard Package



* Please follow IATA regulation when shipping the battery by air.

Specifications



99S Specifications

Item		Specification
Fiber alignment method		Active core alignment
Fiber count can be spliced		Single fiber
Applicable fiber	Fiber type	Single mode optical fiber Multi mode optical fiber
	Cladding dia.	80 to 150 μ m
Applicable coating	Sheath clamp	Coating dia. : Max. 3000 μ m Cleave length : 5 to 16mm *1
Fiber splice performance	Splice loss *2	ITU-T G.652 : Avg. 0.02dB ITU-T G.651 : Avg. 0.01dB ITU-T G.653 : Avg. 0.04dB ITU-T G.654 : Avg. 0.04dB ITU-T G.655 : Avg. 0.04dB ITU-T G.657 : Avg. 0.02dB
	Splice time *3	SM FAST mode : Avg. 7 to 9sec. SM AUTO mode : Avg. 11 to 13sec. AUTO mode : Avg. 14 to 16sec.
Applicable protection sleeve	Sleeve type	Heat shrinkable sleeve
	Sleeve length	Max. 66mm
Sleeve heat performance	Sleeve dia.	Max. 6.0mm before shrinking
	Heat time *4	60mm slim mode : Avg. 5 to 10sec. 60mm mode : Avg. 8 to 15sec.
Fiber tensile test force	Approx. 2.0N	
Electrode life *5		Approx. 6000 splices
Physical description	Dimensions W	Approx. 157mm without projection
	Dimensions D	Approx. 178mm without projection
	Dimensions H	Approx. 171mm without projection
	Weight	Approx. 2.7kg including battery
Environmental condition	Temperature	Operate : -10 to 50 °C Storage : -40 to 80 °C
	Humidity	Operate : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing
	Altitude	Max. 5000m
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max. 1.5A
Battery pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4 V, 6380mAh
	Capacity *6	Approx. 300 splices and heat cycles
	Temperature	Operate : -10 to 50 °C Recharge : 0 to 40 °C
	Battery life *7	Approx. 500 recharge cycles
Display	LCD monitor	TFT 4.95 inches with touch screen
	Magnification	Approx. 320x
Illumination	V-grooves	LED lamp
Interface	PC	USB2.0 Type-C (USB PD is available) * USB3.0 is unavailable for communication * Only power receiving function is available for PD
	External LED lamp	USB2.0 A type Approx. DC5V, 500mA
	Ribbon Stripper	Mini DIN 6pin DC12V, Max. 1A
	Wireless *8	Bluetooth 5.2 LE
Data storage	Splice mode	100 splice modes
	Heat mode	30 heat modes
	Splice result	20000 splices
	Splice image	100 images
	Screw hole for tripod	1/4-20UNC
Other features	Automatic functions	Splice mode selected using fiber type analysis Fusion control Fully automatic cleaver blade management Automated Wind protector : open and close Automated Heater lid : open and close GPS location is automatically recorded in the splicer memory without location tracking function
	Reference guide	Video, Reference Guide and Quick Reference Guide are stored as PDF files in the splicer
	Sheath clamp	Easy sleeve positioning clamp
	Electrode	Replaceable without tool

99S Optional Items

Item	Model	Remark
Fiber holder	FH-70-200	200 μ m coating diameter
	FH-70-250	250 μ m coating diameter
	FH-70-900	900 μ m coating diameter
	FH-FC-20	900 μ m in 2mm diameter cable
	FH-FC-30	900 μ m in 3mm diameter cable
Battery Charger	BTC-19	Battery Charger Capable of charging BTR-19
DC power cord	DCC-20	Car cigar socket to BTR-15/DCA-03
	DCC-21	Car battery to BTR-15/DCA-03
Transfer Clamp	CLAMP-DC-12	Transferring drop cable on work tray
J-Plate	JP-12	Attaching to splicer, not to work tray
	JP-12-FC	JP-12 with fiber clamps
Protection sleeve	FP-03	60mm, Max. 900 μ m coating diameter
	FP-03(L=40)	40mm, Max. 900 μ m coating diameter
	FP-03M	FP-03 with magnetic material

Notes

*1 Cleave length range depending on fiber type

5 to 16mm : 125 μ m cladding dia. and 250 μ m coating dia.

10 to 16mm : 125 μ m cladding dia. and 400 or 900 μ m coating dia.

5 to 10mm : 80 μ m cladding dia. and 160 μ m coating dia.

5 to 16mm : 150 μ m cladding dia. and 250 μ m coating dia.

*2 Measured with a cut-back method after splicing the same type of fibers at room temperature. The average splice loss changes depending on the environmental conditions and fiber characteristics.

*3 Measured at room temperature. The definition of splice time is from the fiber image appeared on LCD monitor to the estimated loss displayed. The average splice time changes depending on the environmental conditions, fiber type and fiber characteristics.

*4 Measured at room temperature with the AC adapter. The heat time is defined from the start beep sound to the finish beep sound. The average heat time changes depending on the environmental conditions, sleeve type and battery pack condition. In addition, since the heating operation is constantly optimized, the average heating time changes depending on the usage conditions of the fusion splicer.

*5 The electrode life changes depending on the environmental conditions, fiber type and splice modes.

*6 Test condition

- (1) Splice and heat time : 1 minute cycle
- (2) Using the splicer power save settings, subject to our testing conditions
- (3) Using a not degraded battery
- (4) At room temperature

The battery capacity changes when testing with different conditions from the above.

*7 The battery capacity decreases to a half after approx. 500 discharges and recharge cycles. The battery life is shortened further when using outside of the storage temperature range, operating temperature range, if completely discharged by storing for a long time without recharging.

*8 Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.

CT60 Specifications



CT60 Optional Items

Item		Specification
Applicable fiber	Fiber type	Single mode optical fiber Multi mode optical fiber
	Fiber count	Single and up to 16 fiber ribbon
	Cladding dia.	Approx. 125µm
Applicable coating	Fiber setting plate	AD-60A: Max. 900µm coating diameter 1 fiber + Max. 250µm coating diameter 1 fiber AD-60B : Max. 3mm coating diameter
	Fiber holder	Coating shape : Refer to splicer options
Cleave length	Fiber setting plate	AD-60A : 5 to 20mm *1 250µm or less AD-60A & AD-60B *C.D. : coating diameter C.D. = 250µm or less : 5 to 20mm *1 250µm < C.D. < =900µm : 10 to 20mm AD-60B 900µm < C.D. < =3mm : 14 to 20mm
	Fiber holder	Approx. 10mm
Cleave angle *2	Single fiber	Avg. 0.3 to 0.9 degrees
	Fiber ribbon	Avg. 0.3 to 1.2 degrees
Blade life *3		Approx. 60000 fiber cleaves
Physical description	Dimensions W	Approx. 113mm without projection *4
	Dimensions D	Approx. 92mm without projection *4
	Dimensions H	Approx. 54mm without projection *4
	Weight	Approx. 293g including battery and AD-60A
Environmental condition	Temperature	Operate : -10 to 50 °C Storage : -40 to 80 °C
	Humidity	Operate : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing
Battery *5		2 pieces of LR03, AAA dry battery
Wireless interface *6		Bluetooth 5.2 LE
Screw hole for tripod		1/4-20UNC
Other features	Blade rotation	Motorized rotation (fully automatic) Manual rotation dial
	Replaceable Part	Blade
	Operability	Suitable design for both tabletop and handheld use

Item	Model	Remark
Fiber Setting Plate	AD-60A AD-60B	Max. 900 µm coating Max. 3000 µm coating
Blade	CB-10	Blade for replacement
Fiber Scrap Collector	FDB-07 FDB-08	Spare scrap collector FDB-07 : Standard size FDB-08 : Small size
Side cover	SC-CT60-10	Side cover instead of scrap collector
Spacer	SPA-CT60-10 SPA-CT60-09	Cleave length 10mm Cleave length 9mm
Blade Holder Adapter	BHA-CT60	Tabletop cutting adapter

Notes

*1 When the cleave length is less than 10mm, the coating diameter should be 250µm or less. Also, a blade height adjustment is required before cleaving. The average cleave angle is worse than the specification when the cleave length is less than 10mm.

*2 Measured with an interferometer at room temperature, not with a splicer. A new blade was used to cleave both the single fibers and ribbon fibers. The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.

*3 The blade life changes depending on the environmental conditions, operating method, and the fiber type cleaved.

*4 Measured in a condition when closing the lever.

*5 Batteries stored in low temperature, high temperature and high humidity environments will have reduced capacity and therefore a shorter battery life.

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www.fusionsplicer.fujikura.com

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