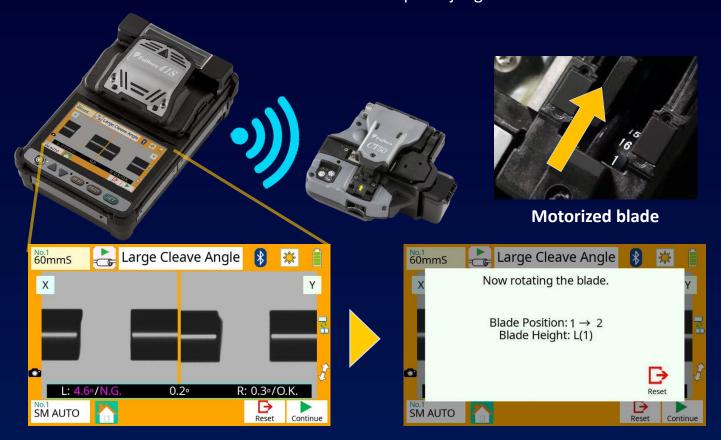


## **Active Blade Management Technology**

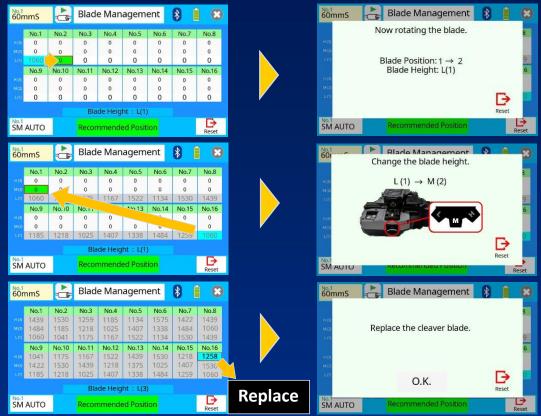
#### 1. Automatic Blade Rotation

The 41S fusion splicer and CT50 fiber cleaver have wireless data connectivity. This capability allows automatic cleaver blade rotation when the splicer judges the blade is worn.



## 2. Blade Life Management

The 41S fusion splicer indicates the remaining blade life and also informs the user when a blade height change is required.



## **User Friendly**

## 1. Easy Fiber Protection Sleeve Positioning

The shape of the sheath clamp is optimized for the 60mm length protection sleeve. The length from splice point to the edge of the sheath clamp is 30mm. Therefore, it is easy to center the protection sleeve over the splice by using your finger as the reference splice point.

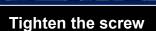




### 2. Tool-less Electrodes and illumination

The 41S electrodes comes as an "assy" including the fixing screw. You can also rotate the screw by hand without tools. It enables easy electrode replacement.







Remove the old electrode



Install the new electrode

#### 3. Universal Tube Heater

The 41S fusion splicer can accommodate a max 6.0mm diameter heat sleeve before shrinking. As a result, it supports a wide range of protection sleeve sizes.







## 4. Work Tray



Remove the tray from the yellow box



Place the tray on the yellow box



Slide

With shoulder belt

## 5. Easy Maintenance

The CT50 fiber cleaver has a user replaceable blade and rubber clamps - there's no need to send the device to a service center for blade or clamp replacement.



User replaceable rubber clamps

User replaceable cleaver blade

# **Standard Package**

## 41S Standard package

Item	Model	Qty
Clad Alignment Fusion Splicer	41S	1 pc
(1) Battery Pack *	BTR-11A	1 pc
(2) AC Adapter	ADC-19A	1 pc
(3) AC Power Cord	ACC-08, 09, 10, 11 or 12	1 pc
(4) USB Cable	USB-01	1 pc
(5) Electrodes, for spare	ELCT2-16B	1 pair
(6) Fiber Holder Set Plate	SP-01	1 pair
(7) Carrying Case	CC-36	1 pc
(8) Work tray	WT-08	1 pc
(9) Tripod Screw	TS-03	1 pc
(10) Carrying Case Strap	ST-03	1 pc
(11) Alcohol Dispenser	AP-02	1 pc
(12) Quick Reference Guide	QRG-01-E	1 pc
Single Fiber Stripper	SS03	1 pc
Optical Fiber Cleaver	CT50	1 pc
(1) Fiber Scrap Collector	FDB-05	1 pc
(2) Fiber Setting Plate	AD-10-M24	1 pc
(3) Case	CC-37	1 pc
(4) Hexagonal Wrench	HEX-01	1 pc

<sup>\*</sup> Please follow IATA regulation when shipping the battery by air





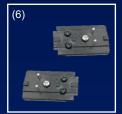








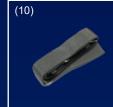




























## **Specifications**

## **41S Specifications**



## **41S Options**

		0 % %
<u>Item</u>		Specification
Fiber alignment meth		Active clad alignment
Fiber count can be spliced		Single fiber
Applicable fiber	Fiber type	Single mode optical fiber
	01 11 11	Multi mode optical fiber
A P 11	Cladding dia.	Approx.125µm
Applicable	Sheath clamp	Coating dia.: Max. 3000µm
coating	·	Cleave length : 5 to 16mm *1
		ITU-T G.652 : Avg. 0.03dB ITU-T G.651 : Avg. 0.01dB
Elban and an	0-6 1 *0	ITU-1 G.651 : AVg. 0.01dB ITU-T G.653 : Avg. 0.05dB
Fiber splice performance	Splice loss *2	ITU-T G.655 : Avg. 0.05dB
periormance		ITU-T G.657 : Avg. 0.03dB
	Splice time *3	SM FAST mode : Avg. 6 to 7sec.
A	Sleeve type	Heat shrinkable sleeve
Applicable	Sleeve type Sleeve length	Max. 66mm
protection sleeve	Sleeve length	
Sleeve heat		Max. 6.0mm before shrinking
performance	Heat time *4	60mm mode : Avg. 25 to 27sec.
Fiber tensile test force		Approx. 2.0N
Electrode life *5	e e	Approx. 2.014 Approx. 5000 splices
Electrode life 5	Dimensions W	Approx. 3000 splices Approx.131mm without projection
Physical	Dimensions D	Approx.1311111 without projection  Approx.201mm without projection
description	Dimensions H	Approx.20 mm without projection
description	Weight	Approx. 1.3kg including battery
	vveigni	Operate : -10 to 50 degreeC
	Temperature	Storage: -40 to 80 degreeC
Environmental		Operate: 0 to 95%RH non-condensing
condition	Humidity	Storage : 0 to 95%RH non-condensing
	Altitude	Max. 5000m
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max. 1.5A
AC adaptor	Туре	Rechargeable Lithium Ion
	Output	Approx. DC14.4V, 3190mAh
	Capacity *6	Approx. 200 splice and heat cycles
Battery pack		Recharge: 0 to 40 degreeC
	Temperature	Storage : -20 to 30 degreeC
	Battery life *7	Approx. 500 recharge cycles
	LCD monitor	TFT 4.9 inches with touch screen
Display	Magnification	132 to 300x
Illumination	V-grooves	LED lamp
	PC	USB2.0 Mini B type
Interface	External	USB2.0 A type
	LED lamp	Approx. DC5V, 500mA
	Wireless *8	Bluetooth 4.1 LE
	Splice mode	100 splice modes
Data storage	Heat mode	30 heat modes
	Splice result	10000 splices
	Splice image	100 images
		1/4-20UNC
	Automatic	Fusion power calibration
Other	functions	· ·
features	Reference guide	PDF file stored in splicer
leatures	Sheath clamp	Easy sleeve positioning clamp
	Electrode	Replaceable without tool

Item	Model	Remark
Fiber Holder	FH-70-200	200µm coating diameter
	FH-70-250	250µm coating diameter
	FH-70-900	900µm coating diameter
	FH-FC-20	900µm in 2mm diameter cable
	FH-FC-30	900µm in 3mm diameter cable
Sheath Clamp	CLAMP-S31B	900µm loose buffer cable
Transfer Clamp	CLAMP-DC-12	Transferring drop cable on work tray
Protection sleeve	FP-03	60mm, Max. 900µm coating diameter
	FP-03(L=40)	40mm, Max. 900µm coating diameter
	FP-03M	FP-03 with non-magnetic material

- Cleave length range depending on fiber type
- 5 to 16mm: 125µm cladding dia. and 250µm coating dia.
  10 to 16mm: 125µm cladding dia. and 400 or 900µm coating dia.
  \*2 Measured with a cut-back method relevant to ITU-T and IEC standard after splicing Fujikura identical fibers. The average splice
- loss changes depending on the environmental condition and fiber characteristics.
- \*3 Measured at room temperature. The definition of splice time is from the fiber image appeared in 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.

  \*5 The electrode life changes depending on the environmental
- conditions, fiber type and splice modes.
- \*6 Test condition
  - (1) Splice and heat time : 1 minutes cycle
  - (2) Using the splicer power save settings
    (3) Using a not degraded battery
    (4) At room temperature

  - The battery capacity changes when testing with a different conditions from the above.
- \*7 The battery capacity decreases to a half after approx. 500 discharge 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.

## **Specifications**



## **CT50 Specifications**

Item		Specification
	Eibar tuna	Single mode optical fiber
Applicable fiber	Fiber type	Multi mode optical fiber
	Fiber count	Up to 16 fiber ribbon
	Cladding dia.	Approx. 125µm
		AD-10-M24: Max. 900µm coating
Applicable	Fiber setting plate	diameter
coating		AD-50 : Max. 3mm coating diameter
	Fiber holder	Coating shape. : Refer to splicer options
		AD-10-M24 : 5 to 20mm *1
		AD-50 *C.D.: coating diameter
Cleave length	Fiber setting plate	C.D. = 250µm or less : 5 to 20mm *1
Cleave length		250μm < C.D. < =900μm : 10 to 20mm
		900μm < C.D. < =3mm : 14 to 20mm
	Fiber holder	Approx. 10mm
Cleave angle *2	Single fiber	Avg. 0.3 to 0.9 degrees
ŭ	Fiber ribbon	Avg. 0.3 to 1.2 degrees
Blade life *3		Approx. 60000 fiber cleaves
	Dimensions W	Approx. 117mm without projection *4
Physical	Dimensions D	Approx. 94mm without projection *4
description	Dimensions H	Approx. 59mm without projection *4
accomption	Weight	Approx. 306g
		including battery and AD-10-M24
	Temperature	Operate: -10 to 50 degreeC
Environmental		Storage: -40 to 80 degreeC
condition	Humidity	Operate: 0 to 95%RH non-condensing
	Turniuity	Storage: 0 to 95%RH non-condensing
Battery		2 pieces of LR03, AAA dry battery
Wireless interface *5		Bluetooth 4.1 LE
Screw hole for tripod		1/4-20UNC
Other features	Blade rotation	Motorized rotation
		Manual rotation dial
	Replaceable parts	Blade
		Clamp arm

## **CT50 Options**

Item	Model	Remark
Fiber Setting Plate	AD-50	Optional fiber setting plate
Blade	CB-08	Blade for replacement
Clamp Arm	ARM-CT50-01	Clamp arm with anvil for replacement
Fiber Scrap Collector	FDB-05	Spare scrap collector
Side cover	SC-CT50-01	Side cover instead of scrap collector
Spacer	SPA-CT08-10	Cleave length 10mm
	SPA-CT08-09	Cleave length 9mm
	SPA-CT08-08	Cleave length 8mm

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





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