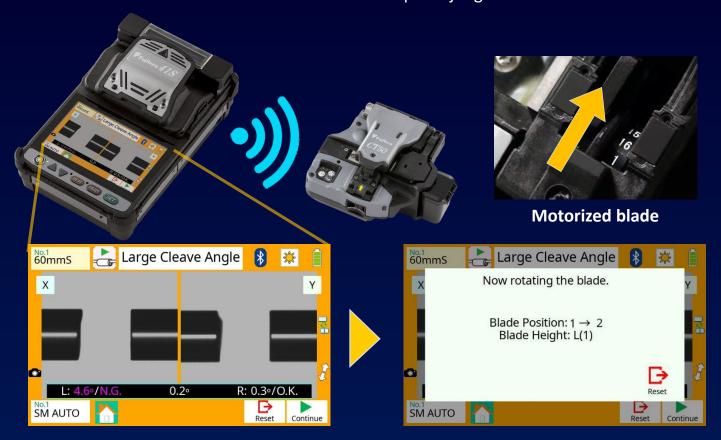


## **Active Blade Management Technology**

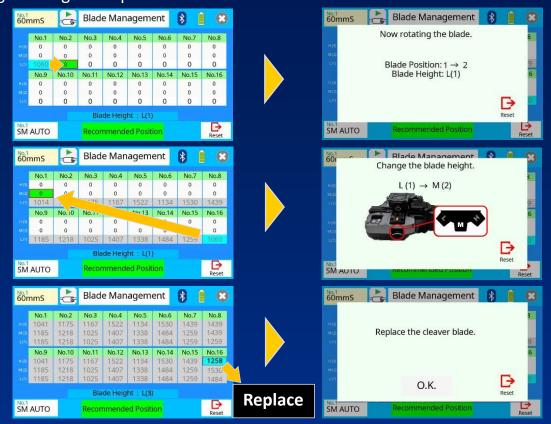
#### 1. Automatic Blade Rotation

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

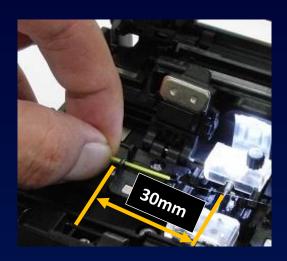
The 41S fusion splicer indicates the remaining blade life and also informs the user when a blade height change is required.



## **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. New Concept Electrodes

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.





#### 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.





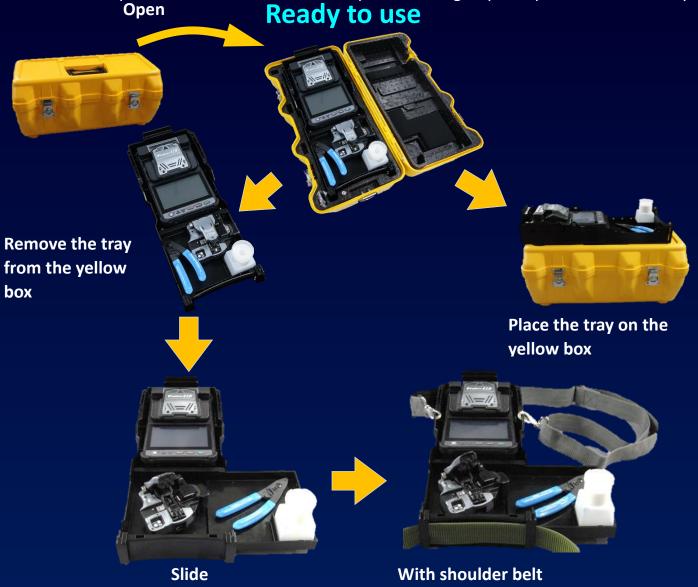


## 4. Work Tray

The work tray can transform into several shapes according to your optical installation style.

Open

Ready to use



## 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

Model	Qty
	1 pc
	1 pc
ADC-19A	1 pc
ACC-08, 09, 10, 11 or 12	1 pc
USB-01	1 pc
ELCT2-16B	1 pair
SP-01	1 pair
CC-36	1 pc
WT-08	1 pc
TS-03	1 pc
ST-03	1 pc
AP-02	1 pc
QRG-01-E	1 pc
SS03	1 pc
CT50	1 pc
FDB-05	1 pc
AD-10-M24	1 pc
CC-37	1 pc
HEX-01	1 pc
	USB-01 ELCT2-16B SP-01 CC-36 WT-08 TS-03 ST-03 AP-02 QRG-01-E SS03 CT50 FDB-05 AD-10-M24 CC-37

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





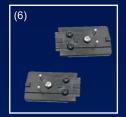






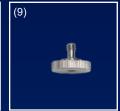


















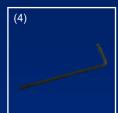












## **Specifications**

## **41S Specifications**



## **41S Options**

Item		Specification
Fiber alignment method		Active clad alignment
Fiber count can be spliced		Single fiber
Applicable fiber		Single mode optical fiber
	Fiber type	Multi mode optical fiber
libei	Cladding dia.	Approx.125µm
Applicable coating	Sheath clamp	Coating dia. : Max. 3000µm
Applicable coaling	Sileatii Gamp	Cleave length : 5 to 16mm *1
		ITU-T G.652 : Avg. 0.03dB
		ITU-T G.651 : Avg. 0.01dB
	Splice loss *2	ITU-T G.653 : Avg. 0.05dB
Fiber splice		ITU-T G.655 : Avg. 0.05dB
performance		ITU-T G.657 : Avg. 0.03dB
	Splice time *3	SM FAST mode: Avg. 6 to 7sec.
Applicable	Sleeve type	Heat shrinkable sleeve
protection	Sleeve length	Max. 66mm
sleeve	Sleeve dia.	Max. 6.0mm before shrinking
Sleeve heat	Heat time *4	60mm mode : Avg. 25 to 27sec.
performance		, and the second
Fiber tensile test force	e	Approx. 2.0N
Electrode life *5		Approx. 5,000 splices
	Dimensions W	Approx.131mm without projection
Physical	Dimensions D	Approx.201mm without projection
description	Dimensions H	Approx.79mm without projection
	Weight	Approx. 1.3kg including battery
	Temperature	Operate : -10 to 50 degreeC
Environmental		Storage : -40 to 80 degreeC
condition	Humidity	Operate : 0 to 95%RH non-condensing
		Storage : 0 to 95%RH non-condensing
40 1 1	Altitude	Max. 5000m
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max. 1.5A
	Type Output	Rechargeable Lithium Ion
Battery pack		Approx. DC14.4V / 3190mAh Approx. 200 splice and heat cycles
Dattery pack	Capacity *6	Recharge : 0 to 40 degreeC
	Temperature	Storage: -20 to 30 degreeC
	Battery life *7	Approx. 500 recharge cycles
	LCD monitor	TFT 5 inches with touch screen
Display	Magnification	132 to 300x
Illumination	V-grooves	LED lamp
Illultilitation	PC	USB2.0 Mini B type
Interface	External	USB2.0 A type
toriaso	LED lamp	Approx. DC5V, 500mA
	Wireless *8	Bluetooth 4.1 LE
Data storage	Splice mode	100 splice modes
	Heat mode	30 heat modes
	Splice result	10000 splices
	Splice image	100 images
Screw hole for tripod		1/4-20UNC
Other features	Automatic functions	Discharge power calibration
	Reference guide	PDF file stored in splicer
	Sheath clamp	Easy sleeve positioning clamp
	Electrode	Replaceable without tool

Item	Model	Remark
Fiber Setting Plate	AD-50	Max. 3mm coating diameter
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

- \*1: 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. 80µm cladding dia. and 160µm 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: 2 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 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 or if completely discharged by storing it for a long time without recharging.
- \*8: Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.

## **Specifications**



## **CT50 Specifications**

Item		Specifications
		Single mode optical fiber
	Fiber type	Multi mode optical fiber
Applicable fiber	Fiber count	Up to 16 fiber ribbon
	Cladding dia.	Approx. 125µm
Applicable	Fiber plate	AD-10-M24 : Max. 900µm coating diameter
coating		AD-50 : Max. 3mm coating diameter
coating	Fiber holder	Coating shape. : Refer to splicer options
		AD-10-M24 : 5 to 20mm *1
		AD-50 *CD : coating diameter
	Fiber setting	C.D. = 250µm or less : 5 to 20mm *1
Cleave length	plate	250μm < CD < 1000μm : 10 to 20mm
	piato	1000μm < CD < 3mm : 14 to 20mm
	Fiber holder	Approx. 10mm
Cleave angle *2	Single fiber	Avg. 0.3 to 0.9 degrees
Cleave aligie 2	Fiber ribbon	Avg. 0.3 to 1.2 degrees
Blade life *3		Approx. 60,000 fiber cleaves
	Dimensions W	Approx. 120mm without projection *4
Physical	Dimensions D	Approx. 95mm without projection *4
description	Dimensions H	Approx. 58mm without projection *4
description	Weight	Approx. 305g
	weight	including battery and AD-10-M24
	Temperature	Operate : -10 to 50 degreeC
Environmental		Storage : -40 to 80 degreeC
condition	Humidity	Operate: 0 to 95% non-condensing
	Humaity	Storage: 0 to 95% 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	Blade
	parts	Clamp arm

## **CT50 Options**

Item	Model Name	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
	SPA-CT08-10	Cleave length 10mm
Spacer	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 than10mm.
- \*2: Measured with an interferometer at room temperature, not with a splicer. A new blade was used to cleave both the single fibers and 12 fiber ribbons. The cleave length is set from 10 to 16mm. 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.
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