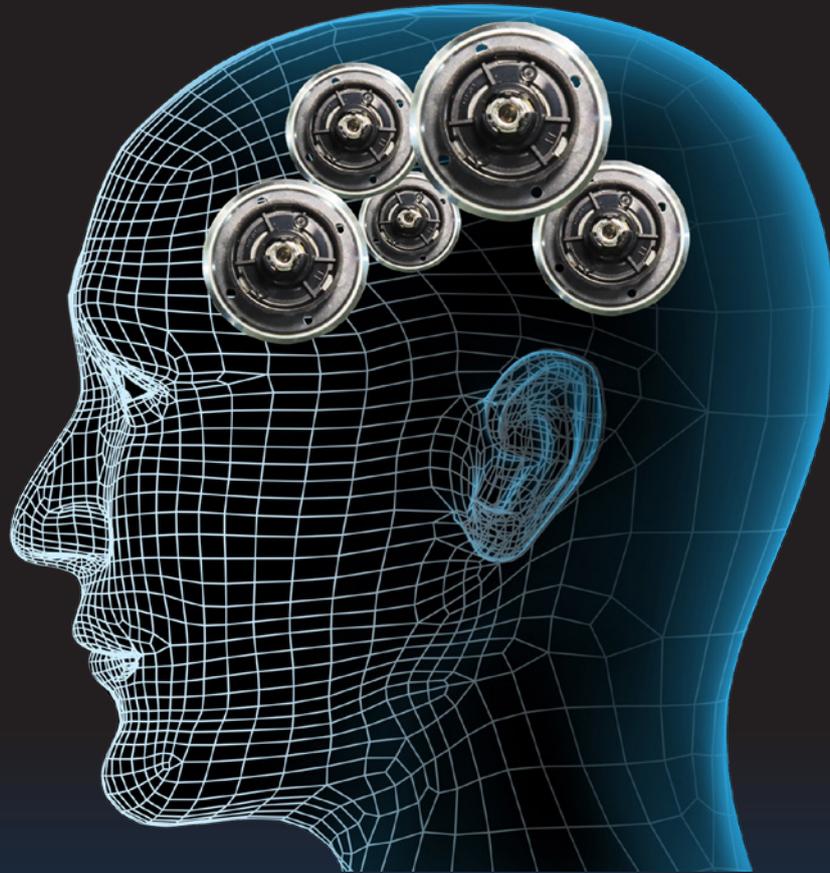


Active **Blade** Management Technology

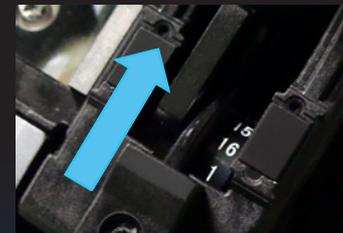
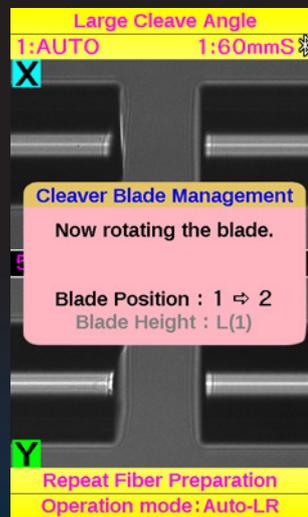
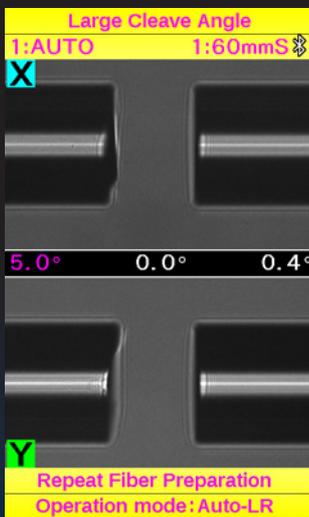


Core Alignment Splicer Kit
70S+ and CT50

Active Blade Management Technology

1. Automatic Blade Rotation

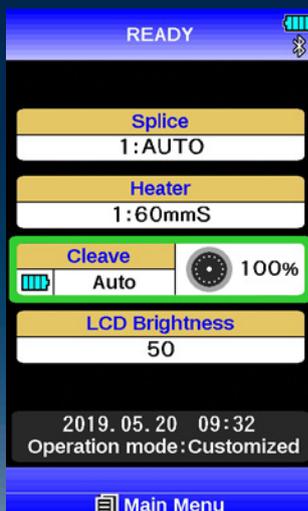
The 70S+ fusion splicer and CT50 fiber cleaver have wireless data connectivity. This capability allows automatic cleaver blade rotation when the splicer judges the blade is worn.



Motorized blade

2. Blade Life Management

The 70S+ fusion splicer indicates the remaining blade life and also informs the user when a blade height change is required.



No.	Blade Height		
	L(1)	M(2)	H(3)
1	1014	0	0
2	1041	0	0
3	1175	0	0
4	1167	0	0
5	1060	0	0
6	1134	0	0
7	1530	0	0
8	1439	0	0
9	1185	0	0
10	1218	0	0
11	1025	0	0
12	1407	0	0
13	1338	0	0
14	1484	0	0
15	1259	0	0
16	1522	0	0

+ Blade Rotation
 Blade Height Change
 ESC Exit

Other Features

1. Core Alignment Technology

The 70S+ high precision lenses provide an accurate core to core alignment regardless core-cladding concentricity error. Also, the lenses discriminate the fiber types. The 70S+ fusion splicer automatically uses the optimum arc discharge parameters in accordance with the fiber type.



2. Full Automatic Mechanism

The 70S+ fusion splicer has an automatic open-close mechanisms of the wind protectors, sheath clamps and tube heater. It reduces operation procedures, and significantly improves work efficiency.



3. Quickest tube-heating

The fibre protection sleeve is heated by a pair of heater plates.

- 13 sec tube heating with FP-03 sleeve
- 9 sec tube heating with Slim 60mm sleeve



4. 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 cleaver blade

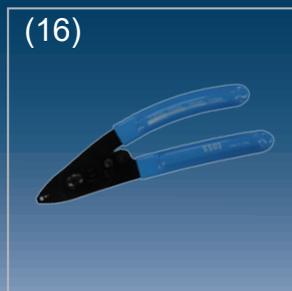
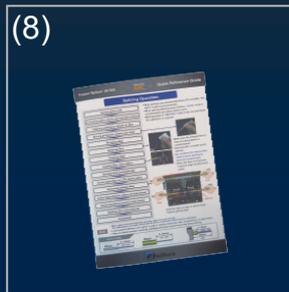
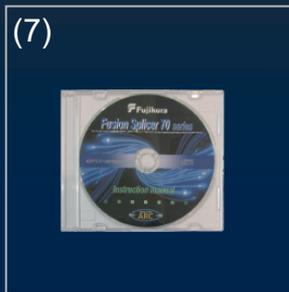


User replaceable rubber clamps

Standard Package



Description	Model No.	Qty
(1) Fusion splicer	70S+	1pc
(2) Battery pack	BTR-09A	1pc
(3) AC adapter	ADC-18	1pc
(4) AC power cord	ACC-XX	1pc
(5) Battery charge cord	DCC-18	1pc
(6) Spare electrodes	ELCT2-20A	1pair
(7) Instruction manual CD	M-70+	1pc
(8) Quick reference guide	Q-70S+/19S+(E)	1pc
(9) USB cable	USB-01	1pc
(10) Carrying case	CC-30	1pc
(11) Work tray		1pc
(12) Strap		1pc
(13) Sleeve loader	SL-01	1pc
(14) Alcohol pot	AP-01	1pc
(15) Screw driver	SD-01	1pc
(16) Single fiber stripper	SS03	1pc
(17) Fiber cleaver	CT50	1pc
(18) Fiber plate	AD-10-M24	1pc
(19) Fiber cleaver carrying case	CC-37	1pc



Specifications



70S+ Specifications

Item		Specifications
Fiber alignment method		Active core alignment
Fiber count can be spliced		Single fiber
Applicable optical fiber	Fiber type	Single mode optical fiber Multi mode optical fiber
	Cladding dia.	80 to 150um
Applicable coating	Sheath clamp	Coating dia. : Max. 3000um Cleave length : 5 to 16mm
Fiber splice performance	Splice loss*1	ITU-T G.652 : Avg. 0.02dB
		ITU-T G.651 : Avg. 0.01dB
ITU-T G.653 : Avg. 0.04dB		
ITU-T G.655 : Avg. 0.04dB		
Splicing time*2	ITU-T G.657 : Avg. 0.02dB	
	SM FAST mode : Avg. 7sec. AUTO mode : Avg. 15sec.	
Applicable protection sleeve	Sleeve type	Heat shrinkable sleeve
	Sleeve length	Max. 62mm
	Sleeve dia.	Max. 6mm before shrinking
Sleeve heat performance	Heat time*3	60mm slim mode : Avg. 9sec.
		60mm mode : Avg. 13sec.
Fiber tensile test force		Approx. 2.0N
Electrode life*4		Approx. 5,000 splices
Physical description	Dimensions W	Approx. 146mm without projection
	Dimensions D	Approx. 159mm without projection
	Dimensions H	Approx. 150mm without projection
	Weight	Approx. 2.7 kg including battery
Environmental condition	Temperature	Operate : -10 to 50 degreeC
		Storage : -40 to 80 degreeC
	Humidity	Operate : 0 to 95% non-condensing Storage : 0 to 95% non-condensing
Altitude	Max. 5,000m	
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max. 1A
Battery pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4V, 3720mA
	Capacity *5	Approx. 200 splice and heat cycles
	Temperature	Recharge : 0 to 40 degreeC Storage : -20 to 30 degreeC
	Battery life *6	200 to 500 recharge cycles
Display	LCD monitor	TFT 4.73 inches
	Magnification	200 to 320x
Illumination	V-grooves	LED lamp
Interface	PC	USB2.0 MINI B type
	Ribbon Stripper	DC12V, Max. 1A Mini DIN 6pin
	Wireless *7	Bluetooth® 4.1 LE
Data storage	Splice mode	100 splice modes
	Heat mode	30 heat modes
	Splice result	20,000 results
	Fiber image	100 images
Screw hole for tripod		M8mm, 1/4-20UNC
Other features	Automatic functions	Splice mode select by fiber type
		Fiber heat calibration
		Wind protector : open/close
		Sheath clamp : open
		Heater lid : open/close
	Heater clamp : open/close	
Training	Pre-installed video	

70S+ Options

Item	Model Name	Remark
Fiber holder	FH-70-250	250um coating dia.
	FH-70-900	900um coating dia.
	FH-60-DC250	250um in drop wire cable
	FH-FC-20	900um in 2mm cable
	FH-FC-30	900um in 3mm cable
Sheath clamp	FH-60-LT900	900um loose buffer cable
	CLAMP-S70C	Normal clamp attached to 70S+ in standard package
	CLAMP-S70D	900um loose buffer cable
Battery pack*8	BTR-09A	Spare battery pack
Battery charge cord	DCC-18	ADC-18 to BTR-09A
DC power cord	DCC-12	From car cigar socket
	DCC-13	From car battery
Electrodes	ELCT2-20A	Spare electrodes
J-plate	JP-06	Sleeve place plate

Notes

- *1: Measured with a cut-back method relevant to ITU-T standard after splicing Fujikura identical fibers. The average splice loss changes depending on the environmental condition and fiber characteristics.
- *2: Measured at the room temperature. The average splice time changes depending on the environmental condition, fiber type and fiber characteristics.
- *3: Measured at the room temperature with the AC adaptor. The average time changes depending on the environmental condition, sleeve type and battery pack condition.
- *4: The electrode life changes depending on the environmental condition, fiber type and splice modes.
- *5: The test condition was
 - (1) Splice and heat time : 2 minutes cycle
 - (2) Using the splicer power save settings
 - (3) Using a not degraded battery pack
 - (4) At the room temperature
 The number of cycles changes when the above conditions change.
- *6: The battery capacity decreases to a half after 200 to 500 recharge cycles. The battery life was shortened more by the out of storage temperature range, out of operating temperature range or complete discharge by storing a long time without recharge.
- *7: Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.
- *8: Please be ware the IATA regulation in case of shipping by air.

Specifications

SS01/03 specifications



Item	SS01	SS03
1) Stripping coating dia.	250um	250um
Fiber dia. after stripping	125um cladding	125um cladding
2) Stripping coating dia.	None	900um
Fiber dia. after stripping	None	250um coating
3) Stripping coating dia.	None	2000 to 3000um
Fiber dia. after stripping	None	900um coating
Dimension	Approx. 164 x 45 x 5mm	
Weight	Approx. 100g	

Fiber protection sleeve specifications



Item	FP-03/FPS series	FP-04/05 series
Outer tube material	Polyethylene	
Inner tube material	Ethylene-Vinyl Acetate	
Strength member	Stainless	Quartz glass
Heat shrink operation	Temperature: -10 to 50 degreeC	
	Humidity: 0 to 95% non-condensing	
Storage	Temperature: -40 to 60 degreeC	
	Humidity: 0 to 95% non-condensing	

CT50 Specifications



Item	Specifications	
Applicable fiber	Fiber type	Single mode optical fiber Multi mode optical fiber
	Fiber count	Up to 12 fibers
	Cladding dia.	Approx. 125um
	Coating dia.	160 to 900um
Cleave length	Fiber plate	AD-10-M24: 5 to 24mm AD-50: 10 to 20mm
	Fiber holder	Approx. 10mm
Cleave angle	Single fiber *1	Avg. 0.3 to 0.9 degrees
	Fiber ribbon *1	Avg. 0.3 to 1.2 degrees
Blade life *2	Approx. 60,000 fibers	
Physical description	Dimension	Approx. W120 x D95 x H58mm when closing the lever
	Weight	Approx. 305g including battery and AD-10-M24
Environmental condition	Temperature	Operate : -10 to 50 degreeC Storage : -40 to 80 degreeC
	Humidity	Operate : 0 to 95% non-condensing Storage : 0 to 95% non-condensing
Battery	2 pieces of LR03/AAA dry battery	
Wireless interface *3	Bluetooth® 4.1 LE	
Screw hole for tripod	1/4-20UNC	
Other features	Blade rotation	Motorized rotation
		Manual rotation dial
	Consumable items	User blade replacement User clamp and anvil replacement

CT50 Options

Item	Model Name	Remark
Blade	CB-08	Spare blade
Clamp and Anvil	ARM-CT50-01	Spare clamp and anvil
Dust box	FDB-05	Spare dust box
Side cover	SC-CT50-01	
Fiber plate	AD-10-M24	Coating 160 to 900um
	AD-50	Coating 160 to 3000um
Fiber holder	FH-50 series	
	FH-60 series	
	FH-70 series	

Notes

- *1: The average cleave angle was measured with an interferometer, not with the splicer. And, a new blade was used to cleave both the single fiber and 12 fiber ribbon. The average cleave angle changes depending on the environmental condition, blade condition, operating method and cleanliness.
- *2: The blade life changes depending on the environmental condition, operating method and the fiber type to be cleaved.
- *3: Bluetooth® word mark and logos are the registered trademarks of Bluetooth SIG, Inc.



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