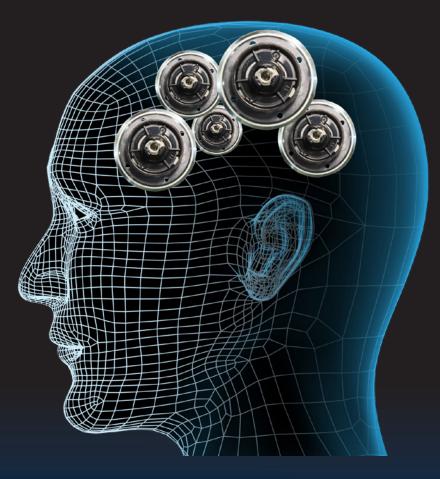
# Active Blade Management Technology





Mass Fusion Splicer Kit
70R+ and CT50

# **Active Blade Management Technology**

#### 1. Automatic Blade Rotation

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



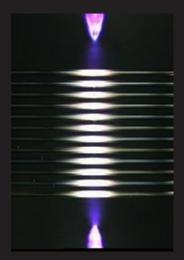


1	Blade Height			
No.	L(1)	M(2)	H(3)	
1	1014	0	0	
3	1041	0	0	
3	1175	0	0	
4	1167	0	0	
5	1060	0	0	
6	1134	0	0	
7	1530	0	0	
8	1439	0	0	
9	1185	0	0	
10	1218	0	0	
11	1025	0	0	
12	1407	0	0	
13	1338	0	0	
14	1484	0	0	
15	1259	0	0	
16	1522	0	0	
<b>▲V+</b> ■ Blade Rotation				
Blade Height Change				
Esc Exit				

# **Other Features**

#### 1. Mass Fusion Technology

The 70R+ mass fusion splicer has stable heating area for up to 12 fibers. The wide electrode gap melts the fibers uniformly with real time arc discharge control. The 70R+ doesn't have active core alignment mechanisms, however, during the discharge, fiber surface melting tension effects to minimize the fiber offset automatically. and splices not only conventional encapsulated ribbon, but also various ribbons including 200um coating Spider Web Ribbon.





#### 2. Full Automatic Mechanism

The 70R+ mass fusion splicer has automatic open-close mechanisms of wind protectors and tube heater. It reduces operation procedures, and significantly improves work efficiency.







## 3. 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.



Hser renlaceable cleaver blade



User renlaceable rubber clamps

#### Other Features

#### 4. Universal Fiber Holder

The FH-70-12 fiber holder is compatible with many types of 12 fiber ribbon, such as 0.3mm or 0.4mm thickness of encapsulated ribbon and 200 $\mu$ m or 250 $\mu$ m coating diameter of SWR: Spider Web Ribbon.



### 5. Universal Ribbon Stripper

The Ribbon Stripper RS03 is also compatible with many types of ribbon without replacing the stripping blades.



## 6. Lower Stripping Force

The Ribbon Stripper RS03 has a new blade shape which realizes lower stripping force. Also, ergonomic clamp shape design requires lower gripping force.



### 7. Stripping Condition Control

When the mass fusion splicer 70R+ changes the splice mode, e.g. from 12 fiber ribbon splice mode to single fiber splice mode, the ribbon stripper RS03 automatically changes heating temperature and time in accordance with a command from the splicer through wireless.



# **Standard Package**

Description		Model No.		Qty			
(1) Fusion splicer		70R+		1pc			
(2) Battery pack		BTR-09A		1pc			
(3) AC adapter		ADC-18		1pc			
(4) AC power cord		ACC-XX		1pc			
(5) Battery charge co		DCC-18		1pc			
(6) Spare electrodes		ELCT2-20A	4	1pair			
(7) USB cable		USB-01		1pc			
(8) Instruction manua		M-70+		1pc			
(9) Quick reference (	guide	Q-70R+/19	R+(E)	1pc			
(10) Sleeve loader		SL-01		1pc			
(11)Alcohol pot		AP-01		1pc	<u>s</u>		
(12) Carrying case		CC-30		1pc			
(13) Work tray				1pc			(1)
(14) Strap		SD-01		1pc			(1)
(15) Screw driver				1pc			
(16) V-groove cleaning	g brusn	VCB-01 RS02/RS03	3	1pc			
(17) Ribbon stripper (18) Single fiber stripp	or	SS03	J	1pc 1pc			
(19) Fiber cleaver	<u>ber</u>	CT50		1pc			
		AD-10-M24		1pc			
(20) Fiber plate (21) Fiber cleaver care	rving casa	CC-37	,	1pc			
(21) Fibel Cleavel Call	lyllig case	00-37		TPC			
(2)	(3)		(4)			(5)	(6)
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(17)	(18)		(19)			(20)	(21)
	(18)		(19)			(20)	(21)
	(18)		(19)			(20)	(21)
	(18)		(19)			(20)	(21)

# **Specifications**

# 70R+ Specifications



Item		Specifications	
Fiber alignment method		Surface melting tension	
Fiber count can be spliced		Up to 12 fiber ribbon	
		Single mode optical fiber	
	Fiber type	Multi mode optical fiber	
optical fiber	Cladding dia.	Approx.125um	
Applicable	Fiber holder	Coating dia. : Refer to option	
coating	ribei fioldei	Cleave length : 10mm	
		ITU-T G.652 : Avg. 0.05dB	
		ITU-T G.651 : Avg. 0.02dB	
Fiber splice	Splice loss*1	ITU-T G.653 : Avg. 0.08dB	
performance		ITU-T G.655 : Avg. 0.08dB	
		ITU-T G.657 : Avg. 0.05dB	
	Splicing time*2	SM FAST mode : Avg. 11sec.	
		AUTO mode: Avg. 15sec.	
Applicable	Sleeve type	Heat shrinkable sleeve	
protoction clocks	Sleeve length	Max. 62mm	
	Sleeve dia.	Max. 6mm before shrinking	
		40mm 4 fiber ribbon: Avg. 18sec.	
	Heat time*3	40mm 12 fiber ribbon: Avg. 40sec.	
performance		40mm single fiber: Avg. 17sec.	
		60mm single fiber: Avg. 13sec.	
Fiber tensile test fo	rce	Approx. 2.0N	
Electrode life*4		Approx. 1,500 splices	
_	Dimensions W	Approx.146mm without projection	
,	Dimensions D	Approx.159mm without projection	
·	Dimensions H	Approx.150mm without projection	
$\vdash$	Weight	Approx. 2.5 kg including battery	
	Temperature	Operate : -10 to 50 degreeC	
Environmental		Storage: -40 to 80 degreeC	
condition	Humidity	Operate : 0 to 95% non-condensing  Storage : 0 to 95% non-condensing	
-	A 1414	Max. 3,700m	
	Altitude Input	AC100 to 240V, 50/60Hz, Max. 1A	
<del></del>	Туре	Rechargeable Lithium Ion	
_	Output	Approx. DC14.4V, 3720mA	
I	Capacity *5	Approx. 110 splice and heat cycles	
Dallery pack		Recharge : 0 to 40 degreeC	
	Temperature	Storage : -20 to 30 degreeC	
-	Battery life *6	Approx. 500 recharge cycles	
	LCD monitor	TFT 4.73 inches	
i Display i	Magnification	Approx. 35X	
	V-grooves	LED lamp	
	PC	USB2.0 MINI B type	
	Ribbon	DC12V, Max. 1A	
Interface	Stripper	Mini DIN 6pin	
	Wireless *7	Bluetooth® 4.1 LE	
	Splice mode	100 splice modes	
Data storage	Heat mode	30 heat modes	
i Data Storage —	Splice result	2,000 results	
	Fiber image	100 images	
Screw hole for tripo		M8mm, 1/4-20UNC	
		Splice mode select by fiber count	
	Automatic	Fiber heat calibration	
	functions	Wind protector : open/close	
features		Heater lid : open/close	
		Heater clamp : open/close  Pre-installed video	

# 70R+ Options

Item	Model Name	Remark
	FH-70-250	250um coating dia.
	FH-70-900	900um coating dia.
	FH-70-2	2 fiber ribbon
	FH-70-4	4 fiber ribbon
Fiber holder	FH-70-8	8 fiber ribbon
	FH-70-12	12 fiber ribbon
	FH-60-DC250	250um in drop wire cable
	FH-FC-20	900um in 2mm cable
	FH-FC-30	900um in 3mm cable
	FH-60-LT900	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
Do power cord	DCC-13	From car battery
Electrodes	ELCT2-20A	Spare electrodes
J-plate	JP-06	Sleeve place plate

- 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 adapter. 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

- 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 changes.

  The battery capacity decreases to a half after approx. 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
- \*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.

# 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
<ol><li>Stripping coating dia.</li></ol>	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		
near shrink operation	Humidity: 0 to 95% non-condensing		
Storage	Temperature: -40 to 60 degreeC		
Ciorage	Humidity: 0 to 95% non-condensing		

# **Specifications**

# CT50 Specifications



# RS02/03 Specifications



Item		Specifications	
	Fiber type	Single mode optical fiber	
	r iber type	Multi mode optical fiber	
Applicable fiber	Fiber count	Up to 12 fibers	
	Cladding dia.	Approx. 125um	
	Coating dia.	160 to 900um	
	Fiber plate	AD-10-M24: 5 to 24mm	
Cleave length	i ibei piate	AD-50: 10 to 20mm	
	Fiber holder	Approx. 10mm	
Cleave angle	Single fiber *1	Avg. 0.3 to 0.9 degrees	
Cleave aligie	Fiber ribbon *1	Avg. 0.3 to 1.2 degrees	
Blade life *2		Approx. 60,000 fibers	
	Dimension	Approx. W120 x D95 x H58mm	
Physical		when closing the lever	
description	Weight	Approx. 305g	
		including battery and AD-10-M24	
	Temperature	Operate : -10 to 50 degreeC	
Environmental		Storage : -40 to 80 degreeC	
condition		Operate: 0 to 95% non-condensing	
	Humidity	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	
	Diada satatian	Motorized rotation	
Other	Blade rotation	Manual rotation dial	
features	Consumable items	User blade replacement	
	o o no dina di cinio	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
ribei piate	AD-50	Coating 160 to 3000um
	FH-50 series	
Fiber holder	FH-60 series	
	FH-70 series	

- Notes
  \*1: Measured with an interferometer at the room temperature, not with the splicer.

  \* 1 the sleave both the single fiber and 12 fiber ribbon. 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 cleanness.
- \*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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Item		Specifications	
	Fiber type	Single mode optical fiber	
	r iber type	Multi mode optical fiber	
Applicable fiber	Fiber count	Up to 12 fibers	
	Cladding dia.	Approx. 125um	
	Coating dia.	200 to 400um	
	Stripping length	Up to 35mm	
Heat time*4		Approx. 3sec	
		Approx. 5sec with Eco-mode	
Heat temperature		85 to140 degreeC	
Applicable fiber ho	older	FH-60, FH-70 series,FH-50 series	
Applicable libel lic	Juei	Except for FH-50-250	
	RS03 dimension	Approx.W156 x D49 x H37 mm	
	RSUS diffierision	without projection portion	
Physical	DC00 dimension	Approx.W156 x D49 x H33 mm	
description	RS02 dimension	without projection portion	
	RS03 weight	Approx. 265 g including battery	
	RS02 weight	Approx. 185g	
	Temperature	Operate : -10 to 50 degreeC	
Environmental		Storage : -40 to 80 degreeC	
condition	Humidity	Operate: 0 to 95% non-condensing	
		Storage : 0 to 95% non-condensing	
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max.1A	
	Output	DC12V, Max. 2A	
DC power		DC10 to 17V, Max. 2A	
	Туре	Rechargeable Lithium Ion	
	Output	Approx. DC7.2V, 1840mAh	
	Capacity *5	Approx. 600 times with Eco-mode	
Battery *RS03 onlv	Recharge	Approx. 2 hours from empty	
RS03 Only	Temperature	Recharging : 0 to 40 degree C	
	remperature	Storage : -20 to 30 degree C	
	Battery life *6	Approx. 500 recharge cycles	
Wireless interface	*7	Bluetooth <sup>®</sup> 4.1 LE	
Other	Strip operation	Low strip force with low grip force	
features	Strip condition	Controlled from splicer or smartphone	

- Notes
  \*4: Measured at the room temperature. The heat time changes depending on
- the environmental condition and fiber coating type.

  \*5: Tested at the room temperature with a not degraded battery. The number of cycles changes depending on the environmental condition, stripper settings and battery degrading condition.
- \*6: The battery capacity decreases to a half after approx. 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
- \*7: Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.



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