



Mass Fusion Splicer 90R kit series

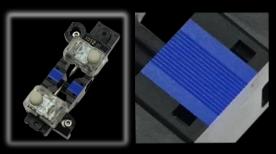
Replaceable V-groove



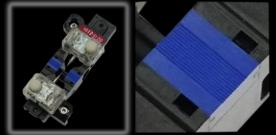








250µm fiber spacing



200μm fiber spacing

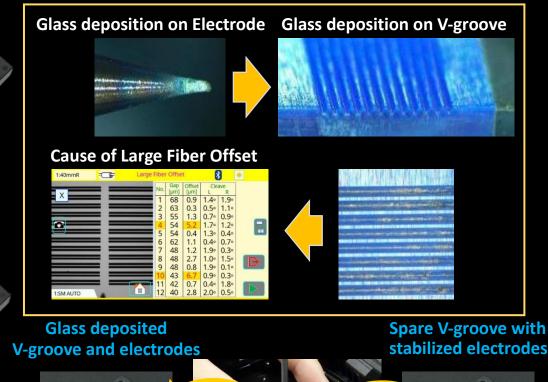


Cutting-edge Feature

1. Replaceable 200μm/250μm spacing V-groove 2. Minimizing the downtime on the field

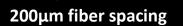
The 90R features an easily replaceable V-groove system, which allows customers to install and remove the V-groove very quickly. Almost all ribbon cables that have already been installed contain ribbons with fibers that have 250µm coating and therefore a 250µm fiber-to-fiber spacing. But with increasing cable densities, cable installations with 200µm coated fibers at a 200µm spacing is increasing. The 90R user can splice various types (and combination) of ribbon fiber by switching the V-groove spacing between 200µm and 250µm according to the type of optical fiber to be spliced.

Accumulation of dust and melted glass on the V-groove is one of the causes of high splice loss during fusion splicing. The 90R includes a spare set of 12 fiber V-grooves with electrodes installed and ready to splice as part of the standard package. These spare V-grooves are field replaceable, so user downtime is minimized. The electrodes are pre-stabilized, so electrode stabilization is not required.



stabilized electrodes

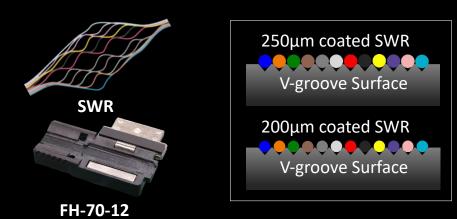




250µm fiber spacing

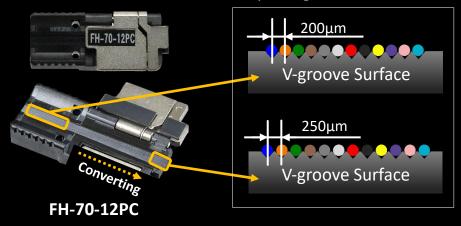
3. Universal Fiber Holder

The FH-70-12 fiber holder is compatible with many types of 12 fiber ribbon, such as 0.3mm or 0.4mm thick encapsulated ribbons and 200 μ m or 250 μ m coated Spider Web Ribbon (SWR). The 250 μ m spacing V-grooves in the FH-70-12 fiber holder simplify SWR loading and ribbon preparation.



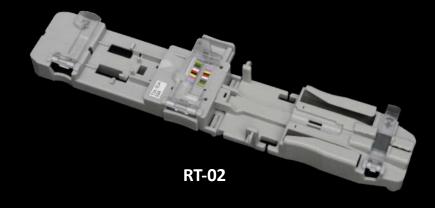
4. Pitch Conversion Fiber Holder

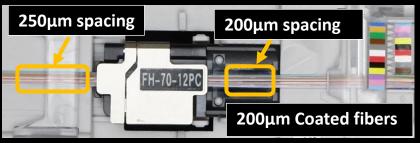
The pitch conversion fiber holder, FH-70-12PC, enables pitch conversion of individual 200 μ m coated fibers from a 200 μ m to 250 μ m spacing. It also enables many ribbons with 200 μ m spacing to be converted to 250 μ m spacing so they can be loaded into the standard 90R 250 μ m V-groove.



5. Ribbonizing Tool

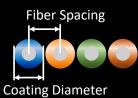
The RT-02 is a tool which enables quick and easy ribbonization of 12 individual fibers into a temporary ribbon which can be spliced using a 90R. No glue or adhesive is required when using this ribbonizing tool since the arranged fibers are immediately loaded into the fiber holder. The RT-02 doesn't require the user to insert the fibers in the color code sequence, which is necessary with other ribbon arrangement tools. The user can choose any fiber at random and place it in the correct slot by referring to the color code label on the tool. The RS-02 is applicable to ribbonize both 200µm and 250µm coated fibers. It's also capable of ribbonizing 200µm coated fibers into 250µm spacing ribbon using the FH-70-12PC pitch conversion fiber holder or a 200µm spacing using the "Red Label" FH-70-12-200 (200µm spacing) fiber holder.





Ribbonizing 200µm coated fiber at a 250µm pitch

6.90R12 Accessories Enable Splicing any Combination of 250μm and 200μm Ribbon



Replaceable	Fiber	Coating	Fiber	Ribbon	Ribbonizing
=		Diameter	Spacing	Structure	tool
V-groove VG12-01	FH-70-12 2	Diameter 250μm	Not fixed	Single fibers	RT-02/FAT-04
		200 μm	250μm	Encapsulated ribbon Flexible Ribbon	Not fixed
			Not fixed	Single fibers	
250µm	FH-70-12PC	200 μm	200μm 250μm	Encapsulated ribbon Single fibers Flexible Ribbon Single fibers	RT-02
			Not fixed	Single fibers	
VG12-01-200 200μm	FH-70-12-200	200μm	200μm	Encapsulated ribbon Flexible Ribbon	Not fixed

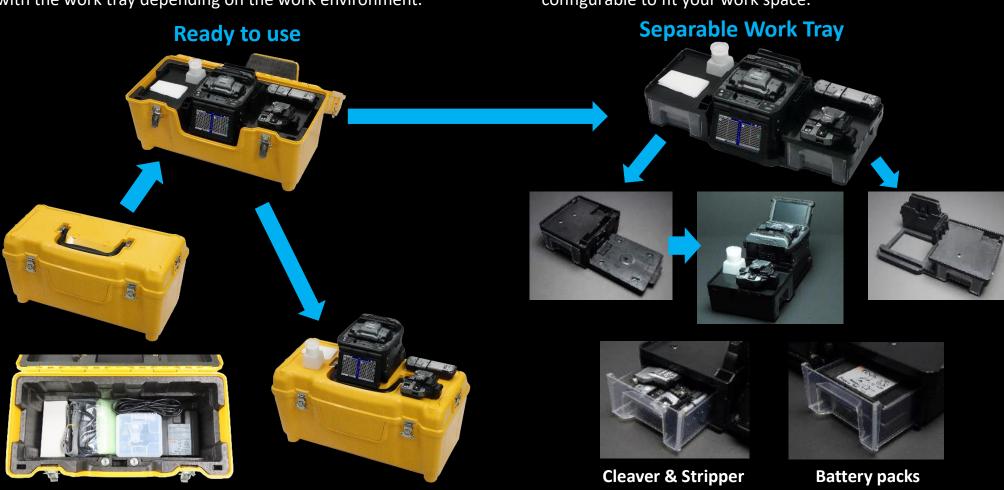
Well-developed operability

1. Carrying Case

There are multiple ways to utilize the 90R carrying case. The 90R is ready to use just by opening the case, but it is also possible to use the 90R on top of the carrying case or only with the work tray depending on the work environment.

2. Work Tray

The work tray has many functions. There are two drawers for storage which are large enough to store tools or battery packs. Also, the work tray can be divided in two, so it is configurable to fit your work space.



Large storage space under work tray

Lid of carrying case becomes a work tray

Plenty of space in work tray

Active Fusion Control Technology

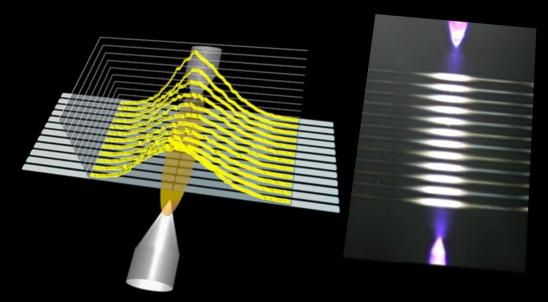


The 90R features ACTIVE FUSION CONTROL TECHNOLOGY which has two key components. This function enables stable fusion splicing with a wide variety of optical fibers and field conditions.

1. Active Fusion control by Real-time

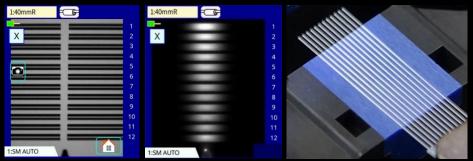
The 90R mass fusion splicer uses a wide electrode gap and heats the ribbon fibers uniformly. It features real-time fusion power control by analyzing the fiber's brightness intensity during the splicing arc. Therefore, it can splice the fiber by appropriate fusion parameters.

The 90R does not have active core alignment mechanisms, however, during the fusion, fiber surface tension effects minimize preexisting offsets.

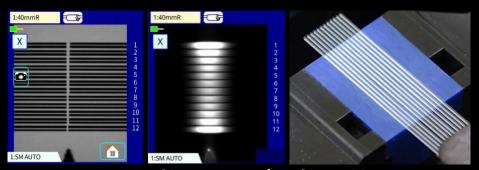


2. Active Fusion control by V-groove and fiber count

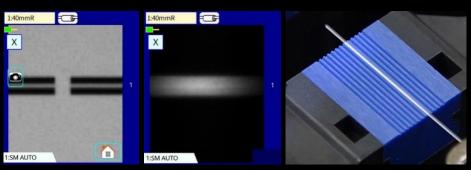
The 90R automatically determines the appropriate fusion splicing parameters according to the ribbon fiber count and the installed V-groove spacing.



250µm fiber spacing / 12-fiber ribbon



200μm fiber spacing / 12-fiber ribbon



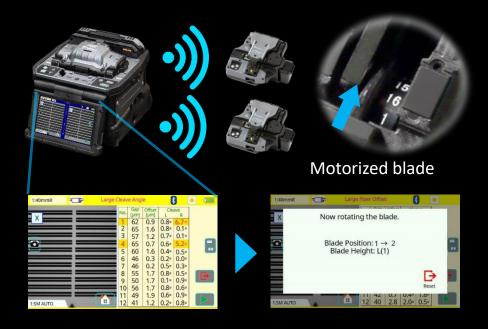
Single fiber

Active Blade Management Technology



1. Active Blade rotation by motor

The 90R and CT50 fiber cleaver are provided with wireless data connectivity. This capability allows automatic cleaver blade rotation when the 90R judges the blade is worn. The 90R can be connected to two CT50 cleavers simultaneously.



2. Active Blade life management

The 90R displays the remaining blade life and informs the user when a blade height change, position change, or new blade is required.





3. Stripping Condition Control

When the user changes the splice mode, e.g. from 12 fiber ribbon splice mode to SWR fiber splice mode, a wireless command from the splicer automatically changes the ribbon stripper RS03 heating temperature and time.



Standard Package

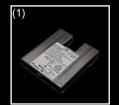


90R12 Standard package

Item	Model	Qty
Mass Fusion Splicer	90R12	1 pc
(1) Battery Pack *	BTR-15	1 pc
(2) AC Adapter	ADC-20	1 pc
(3) AC Power Cord	ACC-14, 15, 16, 17 or 18	1 pc
(4) USB Cable	USB-01	1 pc
(5) Fusion Splicer Strap	ST-02	1 pc
(6) Electrodes, on spare V-groove	ELCT2-16B	1 pair
(7) 12 fiber V-groove, spare	VG12-01, 250 to 255µm spacing	1 pc
(8) Hexagonal Wrench	HEX-01	1 pc
(9) V-groove Cleaning Brush	VCB-01	1 pc
(10) Carrying Case	CC-39	1 pc
(11) Work Tray Left	WT-09L	1 pc
(12) Work Tray Right	WT-09R	1 pc
(13) Work Tray J-Plate	JP-09	1 pc
(14) Tripod Screw	TS-03	2 pcs
(15) Carrying Case Strap	ST-03	1 pc
(16) Alcohol Dispenser	AP-02	1 pc
(17) Quick Reference Guide	QRG-03-E	1 pc
(18) Instruction Manual	PDF file stored in Splicer	
Ribbon Fiber Stripper	RS03	1 pc
(1) Battery Pack *	BTR-12A	1 pc
(2) AC Adapter	ADC-09A	1 pc
(3) AC Power Cord	ACC-08, 09, 10, 11 or 12	1 pc
(4) Blade Cleaning Brush	BRS-02	1 pc
(5) Hexagonal Wrench	HEX-01	1 pc
Single Fiber Stripper	SS03 or SS01	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, for cleaver	CC-37	1 pc
(4) Hexagonal Wrench	HEX-01	1 pc

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



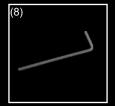








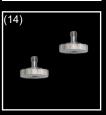




















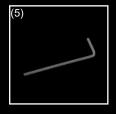




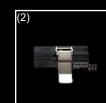




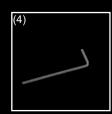
















Specifications



90R12 Specifications

Item		Specification	
Fiber alignment method		Self cladding alignment	
		with surface melting tension	
Fiber count can be spliced		90R12 : Single and up to 12 fiber ribbon	
Applicable	Fiber type	Single mode optical fiber Multi mode optical fiber	
fiber	Cladding dia.	Approx.125µm	
Applicable	Clauding dia.	Coating shape. : Refer to options	
coating	Fiber holder	Cleave length : Approx.10mm	
coating		ITU-T G.652 : Avg. 0.05dB	
		ITU-T G.651 : Avg. 0.02dB	
	Splice loss *1	ITU-T G.653 : Avg. 0.08dB	
Fiber splice		ITU-T G.655 : Avg. 0.08dB	
performance		ITU-T G.657 : Avg. 0.05dB	
		SM FAST mode : Avg. 16 to 17sec.	
	Splice time *2	SM AUTO mode : Avg. 19 to 20sec.	
Applicable	Sleeve type	Heat shrinkable sleeve	
protection	Sleeve length	Max. 66mm	
sleeve	Sleeve dia.	Max. 6.0mm before shrinking	
Sleeve heat		40mm FP-05 mode : Avg. 38 to 40sec.	
performance	Heat time *3	40mm FP-04T FAST mode : Avg. 17 to 19sec.	
•		Single 60mm mode: Avg. 13 to 15sec.	
Fiber tensile test force		Approx. 2.0N	
Electrode life *4		Approx. 1500 splices	
	Dimensions W	Approx.170mm without projection	
Physical	Dimensions D	Approx.173mm without projection	
description	Dimensions H	Approx.150mm without projection	
	Weight	Approx. 2.6kg including battery	
	Temperature	Operate : -10 to 50°C	
Environmental		Storage: -40 to 80°C Operate: 0 to 95%RH non-condensing	
condition	Humidity	Storage : 0 to 95%RH non-condensing	
	Altitude	Max. 3700m	
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max. 1.5A	
Ac adaptor	Туре	Rechargeable Lithium Ion	
	Output	Approx. DC14.4V, 6380mAh	
	Capacity *5	Approx. 165 splice and heat cycles	
Battery pack		Recharge : 0 to 40°C	
	Temperature	Long Term Storage : -20 to 30°C	
	Battery life *6	Approx. 500 recharge cycles	
Display	LCD monitor	TFT 4.9 inches with touch screen	
Display	Magnification	Approx. 20X : 12 ribbon to 60X : single	
Illumination	V-grooves	LED lamp	
	PC	USB2.0 Mini B type	
	External	USB2.0 A type	
Interface	LED lamp	Approx. DC5V, 500mA	
	Ribbon Stripper	Mini DIN 6pin	
		DC12V, Max. 1A	
	Wireless *7	Bluetooth 4.1 LE	
	Splice mode	100 splice modes	
Data storage	Heat mode	30 heat modes 10000 splices	
	Splice result Splice image	10000 splices 100 images	
Screw hole for tripod	Splice image	1/4-20UNC	
Serew Hole for tripod		Splice mode select	
Other features		by fiber count analysis	
	Automatic	Fusion power calibration	
	functions	Wind protector : open and close	
	ranetions	Heater lid : open and close	
		Heater clamp : open and close	
	Reference guide	Video and PDF file stored in splicer	
	Electrode	Replaceable without tool	
	Liceti ouc	neplaceable Without tool	

90R12 Options

Item	Model	Remark	
V-groove	VG12-01-200	12 fiber ribbon, 200 to 210μm spacing	
	FH-70-200	200μm coating diameter	
	FH-70-250	250μm coating diameter	
	FH-70-900	900μm coating diameter	
	FH-70-2	2 fiber ribbon	
	FH-70-4	4 fiber ribbon	
	FH-70-8	8 fiber ribbon	
Fiber holder	FH-70-10	10 fiber ribbon	
	FH-70-12	12 fiber ribbon	
	FH-70-12PC	Pitch conversion for 12 fiber ribbon	
	FH-70-12-200	12 fiber ribbon, 200 to 210μm spacing	
	FH-FC-20	900μm in 2mm diameter cable	
	FH-FC-30	900µm in 3mm diameter cable	
	FH-60-LT900	900μm loose buffer cable	
DC Adapter	DCA-03	Connect AC adapter not through battery	
	DCC-20	Car cigar socket to BTR-15/DCA-03	
DC power cord	DCC-21	Car battery to BTR-15/DCA-03	
	DCC-11	Splicer to ribbon stripper	
Ribbonizing	FAT-04	2 to 16 fibers, 250μm diameter	
Tool	RT-02	2 to 12 fibers, 200 to 250µm diameter	
Transfer Clamp	CLAMP-DC-12	Transferring drop cable on work tray	
J-Plate	JP-10	Attaching to splicer, not to work tray	
J-Flate	JP-10-FC	JP-10 with fiber clamps	
Protection sleeve	FP-04(T)	40mm, up to 8 fiber ribbon	
Protection sieeve	FP-05	40mm, up to 12 fiber ribbon	

Notes

- *1 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.
- *2 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.
- *3 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.
- *4 The electrode life changes depending on the environmental conditions, fiber type and splice modes.
- *5 Test condition
 - (1) 12 fiber ribbon : Splice and heat time : 2 minutes cycle with FP-05 sleeve
 - (2) Using the splicer power save settings, subject to our testing condition.
 - (3) Using a not degraded battery
 - (4) At room temperature
 - (5)Without accessories ,RSO3 etc., that use the power supply of the fusion splicer. The battery capacity changes when testing with different conditions from the above.
- *6 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.
- *7 Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.

Specifications

CT50 Specifications



Applicable fiber Fiber type Fiber count Single mode optical fiber Multi mode optical fiber Multi mode optical fiber Fiber count Single and up to 16 fiber ribbon Cladding dia. Approx. 125µm AD-10-M24 : Max. 900µm coating diameter AD-50 : Max. 3mm coating diameter AD-50 : Max. 3mm coating diameter AD-50 : Max. 3mm coating diameter Coating Fiber holder Cleave length Fiber setting plate Cleave length Fiber setting plate Fiber setting plate Cleave angle *2 Fiber holder Fiber holder Approx. 10mm Fiber holder Approx. 10mm Fiber holder Approx. 10mm Fiber ribbon Ays. 0.3 to 0.9 degrees Fiber ribbon Ays. 0.3 to 1.2 degrees Approx. 60000 fiber cleaves Dimensions W Approx. 117mm without projection *4 Dimensions D Approx. 94mm without projection *4 Approx. 306g including battery and AD-10-M24 Operate : 10 to 50°C Storage : -40 to 80°C Operate : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing Approx. Serve hole for tripod Holding mechanism for the fiber holder Blade rotation Manual rotation dial Replaceable Blade Blade Clamp arm	Item		Specification	
Applicable fiber Fiber count Cladding dia. Approx. 125µm Applicable coating Fiber setting plate Fiber setting plate Cleave length Cleave length Cleave angle *2 Fiber ribbon Fiber holder Cleave angle *2 Physical description Physical description Fiber setting plate Dimensions W Approx. 125µm AD-10-M24 : Max. 900µm coating diameter AD-50 : Max. 3mm coating diameter Coating shape. : Refer to splicer options AD-10-M24 : 5 to 20mm *1 AD-50 *C.D. : coating diameter C.D. = 250µm or less : 5 to 20mm *1 250µm < C.D. < =3mm : 14 to 20mm 900µm < C.D. < =3mm : 14 to 20mm 900µm < C.D. < =3mm : 14 to 20mm Approx. 10mm Single fiber Avg. 0.3 to 0.9 degrees Approx. 60000 fiber cleaves Physical description Approx. 94mm without projection *4 Dimensions W Approx. 94mm without projection *4 Dimensions H Approx. 306g including battery and AD-10-M24 Operate : 10 to 50°C Environmental condition Humidity Operate : 0 to 95%RH non-condensing Storage : 40 to 80°C Operate : 0 to 95%RH non-condensing Storage : 10 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing Battery Wireless interface *5 Bluetooth 4.1 LE Other Blade rotation Manual rotation dial Replaceable Blade		511	Single mode optical fiber	
Cladding dia. Approx. 125µm Applicable coating Fiber setting plate Fiber setting plate Fiber holder Coating shape: . Refer to splicer options AD-10-M24 : Max. 900µm coating diameter AD-50 : Max. 3mm coating diameter Coating shape: . Refer to splicer options AD-10-M24 : 5 to 20mm *1 AD-50 *C.D. : coating diameter C.D. = 250µm or less : 5 to 20mm *1 250µm < C.D. < = 900µm *1 to 20mm *1 250µm < C.D. < = 900µm *1 to to 20mm *1 250µm < C.D. < = 900µm *1 to 20mm *1 250µm < C.D. < = 900µm *1 to 20mm *1 250µm < C.D. < = 900µm *1 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < = 3mm : 14 to 20mm *1 250µm < C.D. < =	• • •	Fiber type	Multi mode optical fiber	
Applicable coating Fiber setting plate Fiber setting plate Fiber holder Coating shape.: Refer to splicer options AD-50: Max. 3mm coating diameter AD-50: C.D.: coating shape: Refer to splicer options AD-10-M24: 5 to 20mm *1 AD-50: C.D.: coating diameter C.D.: 250µm or less: 5 to 20mm *1 250µm < C.D. < = 900µm : 10 to 20mm 900µm < C.D. < = 900µm : 10 to 20mm 900µm < C.D. < = 3mm : 14 to 20mm Approx. 10mm Fiber holder Ayp. 0.3 to 0.9 degrees Fiber ribbon Ayp. 0.3 to 1.2 degrees Approx. 60000 fiber cleaves Dimensions W Approx. 117mm without projection *4 Dimensions D Approx. 94mm without projection *4 Weight Approx. 306g including battery and AD-10-M24 Operate: -10 to 50°C Environmental condition Temperature Storage: -40 to 80°C Operate: 0 to 95%RH non-condensing Storage: 0 to 95%RH non-condensing Storage: 0 to 95%RH non-condensing Pludiding mechanism for the fiber holder Existence Microscopic and the fiber holder Existence Blade rotation Manual rotation dial Replaceable Blade		Fiber count	Single and up to 16 fiber ribbon	
Applicable coating Fiber setting plate Fiber holder Coating shape: Refer to splicer options AD-10-M24: 5 to 20mm *1 AD-50 *C.D.: coating diameter C.D. = 250µm or less: 5 to 20mm *1 250µm c.D. < = 900µm : 10 to 20mm 900µm < C.D. < = 3mm : 14 to 20mm 900µm < C.D. < = 3mm : 14 to 20mm Approx. 10mm Cleave angle *2 Fiber ribbon Avg. 0.3 to 0.9 degrees Fiber ribbon Avg. 0.3 to 1.2 degrees Blade life *3 Approx. 60000 fiber cleaves Dimensions W Approx. 117mm without projection *4 Dimensions D Approx. 94mm without projection *4 Weight Approx. 306g including battery and AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C Operate: -10 to 50°C Storage: -40 to 80°C Approx. 3068 Battery Vireless interface *5 Bluetooth 4.1 LE Screw hole for tripod Holding mechanism for the fiber holder Blade rotation Manual rotation Manual rotation dial Replaceable Blade AD-50: Max. 3mm coating diameter Coating shape: Refer to splicer options AD-10-M24: 5 to 20mm *1 AD-50 *C.D.: calm *2 Approx. 306g including battery and AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C AD-10-		Cladding dia.	Approx. 125µm	
coating Fiber holder Coating shape.: Refer to splicer options	A 12 11	51 1.	AD-10-M24: Max. 900µm coating diameter	
Fiber holder Coating shape: Refer to splicer options AD-10-M24: 5 to 20mm *1 AD-50 *C.D.: coating diameter C.D. = 250µm or less: 5 to 20mm *1 250µm < C.D. < =900µm: 10 to 20mm 900µm < C.D. < =3mm: 14 to 20mm Poolum < Degrees Fiber holder Approx. 10mm Cleave angle *2 Fiber ribbon Avg. 0.3 to 0.9 degrees Fiber ribbon Avg. 0.3 to 1.2 degrees Physical Dimensions W Approx. 117mm without projection *4 Dimensions D Approx. 94mm without projection *4 Dimensions H Approx. 306g including battery and AD-10-M24 Weight Approx. 306g Environmental condition Humidity Operate: -10 to 50°C Storage: -40 to 80°C Operate: 0 to 95%RH non-condensing Storage: 0 to 95%RH non-condensing Battery 2 pieces of LR03, AAA dry battery Wireless interface *5 Bluetooth 4.1 LE Other Blade rotation Manual rotation dial Replaceable Blade		Fiber setting plate	AD-50 : Max. 3mm coating diameter	
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Cleave length Fiber setting plate C.D. = 250µm or less : 5 to 20mm *1 250µm < C.D. < =900µm : 10 to 20mm 900µm < C.D. < =3mm : 14 to 20mm 400µm < C.D. < =3mm : 14 to 20mm 800µm < C.D. < =3mm : 14 to 20mm 900µm < C.D. < =3mm : 14 to 20mm Approx. 10mm Cleave angle *2 Fiber ribbon Avg. 0.3 to 0.9 degrees Fiber ribbon Avg. 0.3 to 1.2 degrees Approx. 60000 fiber cleaves Dimensions W Approx. 117mm without projection *4 Dimensions D Approx. 94mm without projection *4 Weight Approx. 306g including battery and AD-10-M24 Operate : -10 to 50°C Storage : -40 to 80°C Operate : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing Battery Wireless interface *5 Bluetooth 4.1 LE Screw hole for tripod Holding mechanism for the fiber holder Existence Other Features Blade rotation Manual rotation dial Replaceable Blade			AD-10-M24 : 5 to 20mm *1	
Cleave length Fiber holder Fiber holder Approx. 10mm Fiber holder Approx. 10mm Single fiber Ays. 0.3 to 0.9 degrees Fiber ribbon Ayg. 0.3 to 1.2 degrees Approx. 60000 fiber cleaves Dimensions W Approx. 94mm without projection *4 Dimensions D Approx. 94mm without projection *4 Dimensions H Approx. 306g including battery and AD-10-M24 Operate: 10 to 50°C Storage: 40 to 80°C Operate: 0 to 95%RH non-condensing Storage: 0 to 95%RH non-condensing Battery Wireless interface *5 Screw hole for tripod Holding mechanism for the fiber holder Other features Replaceable Blade Approx. 12mm without projection *4 Approx. 94mm without projection *4 Operate: 0 to 95%RH non-condensing Storage: 0 to 95%RH non-condensing 1/4-20UNC			AD-50 *C.D.: coating diameter	
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Fiber holder Approx. 10mm Cleave angle *2 Single fiber Avg. 0.3 to 0.9 degrees Fiber ribbon Avg. 0.3 to 0.9 degrees Fiber ribbon Avg. 0.3 to 1.2 degrees Approx. 60000 fiber cleaves Approx. 60000 fiber cleaves Approx. 94mm without projection *4 Dimensions D Approx. 94mm without projection *4 Dimensions H Approx. 59mm without projection *4 Weight Approx. 306g including battery and AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C Storage: -40 to 80°C Humidity Operate: 0 to 95%RH non-condensing Storage: 0 to 95%RH non-condensing Battery 2 pieces of LR03, AAA dry battery Wireless interface *5 Screw hole for tripod Holding mechanism for the fiber holder Existence Other features Replaceable Blade Approx. 10mm Approx. 90mc selection 4.4 Approx. 94mm without projection *4 Approx. 30fg including battery and AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C Storage: -40 to 8	Cleave length		250μm < C.D. < =900μm : 10 to 20mm	
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Fiber ribbon		Fiber holder	Approx. 10mm	
Fiber ribbon Avg. 0.3 to 1.2 degrees Blade life *3 Approx. 60000 fiber cleaves Physical Dimensions W Approx. 117mm without projection *4 Dimensions D Approx. 94mm without projection *4 Dimensions H Approx. 59mm without projection *4 Weight Approx. 30fg including battery and AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C Operate: 0 to 95%RH non-condensing Storage: 0 to 95%RH non-condensing Storage: 0 to 95%RH non-condensing Battery 2 pieces of LR03, AAA dry battery Wireless interface *5 Screw hole for tripod 1/4-20UNC Holding mechanism for the fiber holder Existence Other features Replaceable Blade	Cleave angle *2	Single fiber	Avg. 0.3 to 0.9 degrees	
Physical description Physical description Dimensions D Approx. 94mm without projection *4 Dimensions D Approx. 94mm without projection *4 Approx. 59mm without projection *4 Approx. 306g including battery and AD-10-M24 Operate : -10 to 50°C Storage : -40 to 80°C Storage : -40 to 80°C Humidity Operate : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing Battery 2 pieces of LR03, AAA dry battery Wireless interface *5 Screw hole for tripod Holding mechanism for the fiber holder Other features Replaceable Blade Approx. 117mm without projection *4 Approx. 394mm without projection *4 Operate: -10 to 50°C Storage: -40 to 80°C Operate: -10 to 50°C Storage: -40 to 80°C Storage: -40 to 80°C Storage: -40 to 80°C Operate: -10 to 50°C Storage: -40 to 80°C Storage: -4	Cleave aligie 2	Fiber ribbon	Avg. 0.3 to 1.2 degrees	
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Physical description Dimensions H Approx. 59mm without projection *4 Weight Approx. 306g including battery and AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C Operate: 0 to 95%RH non-condensing Storage: 0 to 95%RH non-condensing Battery 2 pieces of LR03, AAA dry battery Wireless interface *5 Screw hole for tripod 1/4-20UNC Holding mechanism for the fiber holder Existence Other Blade rotation Manual rotation dial Replaceable Blade		Dimensions W	Approx. 117mm without projection *4	
description Dimensions H Approx. 59mm without projection *4	Physical	Dimensions D		
Weight Approx. 306g including battery and AD-10-M24 Operate: -10 to 50°C Storage: -40 to 80°C Operate: 0 to 95%RH non-condensing Storage: 0 to 95%RH non-condensing Storage: 0 to 95%RH non-condensing Battery 2 pieces of LR03, AAA dry battery Wireless interface *5 Screw hole for tripod 1/4-20UNC Holding mechanism for the fiber holder Existence Other features Replaceable Blade Approx. 306g inclosed. Storage: 0 to 95%RH non-condensing		Dimensions H	Approx. 59mm without projection *4	
Environmental condition Environmental condition Battery Wireless interface *5 Screw hole for tripod Holding mechanism for the fiber holder Other features Replaceable Environmental Coperate : -0 to 55°C Storage : -0 to 85%RH non-condensing Storage : 0 to 95%RH non-conden	acscription	Weight	Approx. 306g	
Environmental condition		Weight	including battery and AD-10-M24	
Environmental condition Storage: -40 to 80°C Operate: 0 to 95%RH non-condensing Storage: 0 to 95%RH non-condensing Storage: 0 to 95%RH non-condensing 2 pieces of LR03, AAA dry battery Wireless interface *5 Bluetooth 4.1 LE Screw hole for tripod 1/4-20UNC Holding mechanism for the fiber holder Existence Motorized rotation Manual rotation dial Replaceable Blade		Tomoroturo	Operate: -10 to 50°C	
Humidity 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 Holding mechanism for the fiber holder Blade rotation Other features Replaceable Blade Storage : 0 to 95%RH non-condensing 2 pieces of LR03, AAA dry battery Bluetooth 4.1 LE 1/4-20UNC Motorized rotation Manual rotation dial Blade	Environmental	remperature	Storage : -40 to 80°C	
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 Holding mechanism for the fiber holder Existence Other Features Replaceable Blade Blade Blade Storage : 0 to 95%RH non-condensing Bluetooth 4.1 LE Multiple Storage : 0 to 95%RH non-condensing Bluetooth 0 to 10	condition	Liveridity	Operate: 0 to 95%RH non-condensing	
Wireless interface *5 Screw hole for tripod Holding mechanism for the fiber holder Other features Blade rotation Replaceable Bluetooth 4.1 LE 1/4-20UNC Existence Motorized rotation Manual rotation dial Blade Blade		numuity	Storage: 0 to 95%RH non-condensing	
Screw hole for tripod 1/4-20UNC Holding mechanism for the fiber holder Existence Other Blade rotation Manual rotation dial Replaceable Blade	Battery		2 pieces of LR03, AAA dry battery	
Holding mechanism for the fiber holder Existence Other features Replaceable Blade Existence Motorized rotation Manual rotation dial Blade	Wireless interface *5		Bluetooth 4.1 LE	
Other Blade rotation Motorized rotation Manual rotation dial Blade Blade			1/4-20UNC	
Other Blade rotation Manual rotation dial features Replaceable Blade	Holding mechanism for the fiber holder		Existence	
Other Manual rotation dial features Replaceable Blade		Dlade retation	Motorized rotation	
Nepidedale 2322	Other	biade rotation	Manual rotation dial	
parts Clamp arm	features	Replaceable	Blade	
		parts	Clamp arm	

RS03 Specifications



Ito	em	Specification	
		Single mode optical fiber	
	Fiber type	Multi mode optical fiber	
Applicable	Fiber count	Single and up to 16 fiber ribbon	
fiber	Cladding dia.	Approx. 125μm	
	Coating dia.	200 to 400µm	
Stripping length		Max. 35mm	
114-1		Approx. 3sec	
Heat time *1		Approx. 5sec with Eco-mode	
Heat temperature		85 to 140 °C	
	Dimensions W	Approx.156mm without projection	
Physical	Dimensions D	Approx.49mm without projection	
description	Dimensions H	Approx.37mm without projection	
	Weight	Approx. 265g including battery	
	Temperature	Operate : -10 to 50°C	
Environmental	remperature	Storage : -40 to 80°C	
condition	Humidity	Operate: 0 to 95%RH non-condensing	
		Storage: 0 to 95%RH non-condensing	
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max. 0.58A	
DC input		DC10 to 17V, Approx. 1A	
	Type	Rechargeable Lithium Ion	
	Output	Approx. DC7.2V, 1840mAh	
	Capacity *2	Approx. 600 times with Eco-mode	
Battery pack		Operate: -10 to 50°C	
	Temperature	Recharge: 0 to 40°C	
		Long Term Storage : -20 to 30°C	
	Battery life *3	Approx. 500 recharge cycles	
Wireless interface *4		Bluetooth 4.1 LE	
Other	Stripping force	Lower stripping force design	
features	Automatic heat setting	Controlled from splicer or smartphone	

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	
	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 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.

RS03 Options

Item	Model	Remark
Spacer	SPA-RS02-08	Coating length 8mm
DC power cord	DCC-11	Splicer to ribbon fiber stripper

Notes

- *1 Measured at room temperature. The heat time changes depending on the environmental conditions and fiber coating type.
- *2 Tested at room temperature with a not degraded battery and Eco-mode. The number of cycles changes depending on the environmental conditions, stripper settings and battery degrading condition.
- *3 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.
- *4 Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.

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