

Core Alignment Fusion Splicer 905

Designed to keep you going





True Core Alignment

1. Core Alignment Technology

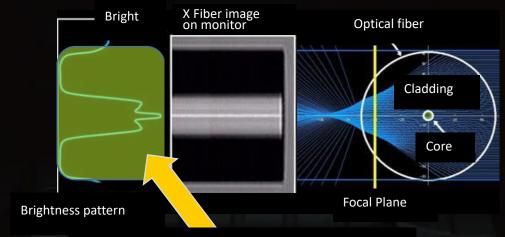
The 90S fusion splicer has high precision lenses which provide accurate core to core alignment regardless of core-cladding concentricity error. Also, the lenses allow the splicer to discriminate between fiber types.





2. Advanced Image Processing Technology

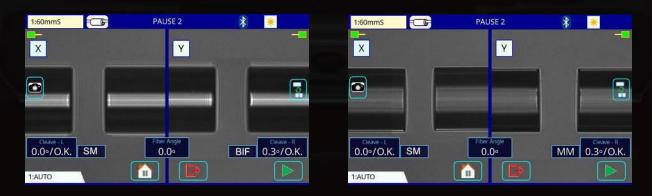
The 90S possesses advanced image processing technology which analyzes the profile of the fiber image as a brightness pattern. The 90S finds the true core position and achieves the consistent lower splice loss.



Analyzing the Brightness pattern

3. Fiber Discrimination Function

The 90S fusion splicer automatically identifies the optimum splice parameters in accordance with the fiber type.



Faster Automation

The faster automated features of the 90S fusion splicer reduce installation times. With this splicer, an operator can complete the entire splicing process from splicing to heating without touching the 90S and only moving the fiber.

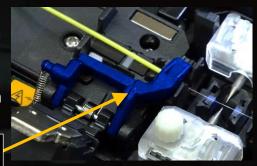




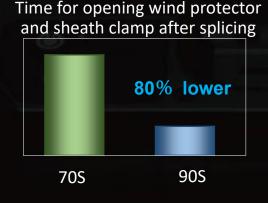


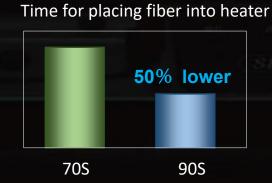


The fiber retention clamps support the automated operations. When the sheath clamps open automatically after splicing, the fiber retention clamps gently hold the spliced fiber to keep it from flying out. The retention clamps release when the fiber is lifted by the operator.



Fiber retention clamp

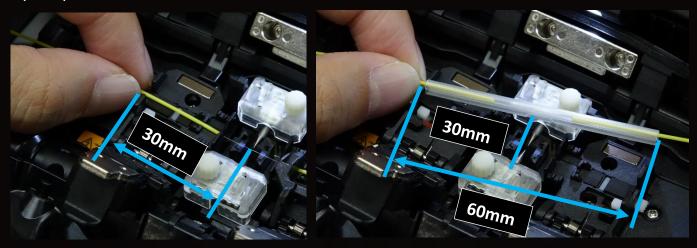




User Friendly

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. Carrying Case

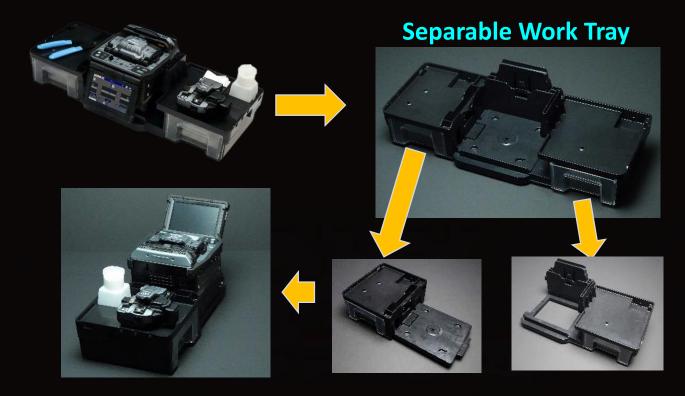
There are multiple ways to utilize the 90S carrying case. The 90S is ready to use just by opening the case, but it is also possible to use the 90S on top of the carrying case or only with the work tray depending on the work environment.



User Friendly

3. Work Tray

The newly designed work tray has many functions. There are two drawers for storage, and the drawers 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.



Plenty of space in carrying case



Cleaver & Stripper



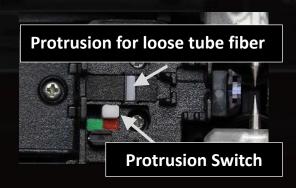
Battery packs



Large storage space under work tray

4. Loose Tube Compatibility

The sheath clamp of the 90S fusion splicer is compatible with loose tube fiber. The Protrusion part on of the sheath clamp for loose tube fiber engages or retracts by simply changing the switch position with your finger.



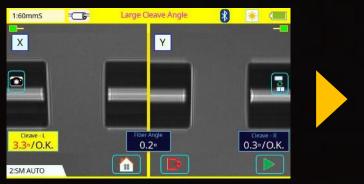
Active Blade Management Technology

1. Automatic Blade Rotation

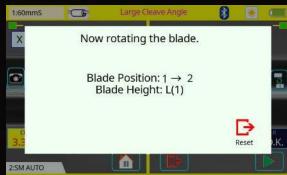
The 90S fusion splicer and CT50 fiber cleaver are enabled with wireless data connectivity. This capability allows automatic cleaver blade rotation when the splicer judges the blade is worn. Also, the 90S fusion splicer can connect to two CT50s simultaneously.



Motorized blade



hange Blade Height!



2. Blade Life Management

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





Standard Package

90S Standard Package



| Description | Model No. | Qty |
|-------------------------------|------------------------|-------|
| Core Alignment Fusion Splicer | 90S | 1pc |
| (1) Battery Pack* | BTR-15 | 1pc |
| (2) AC Adapter | ADC-20 | 1pc |
| (3) AC Power Cord | ACC-14, 15, 16 17or 18 | 1pc |
| (4) USB Cable | USB-01 | 1pc |
| (5) Fusion Splicer Strap | ST-02 | 1pc |
| (6) Electrodes (spare) | ELCT2-16B | 1pair |
| (7) Fiber Holder Set Plate | SP-03 | 1pair |
| (8) Carrying Case | CC-39 | 1pc |
| (9) Work Tray Left | WT-09L | 1pc |
| (10) Work Tray Right | WT-09R | 1pc |
| (11) Work Tray J-Plate | JP-09 | 1pc |
| (12) Tripod Screw | TS-03 | 2pcs |
| (13) Carrying Case Strap | ST-03 | 1pc |
| (14) Alcohol Dispenser | AP-02 | 1pc |
| (15) Quick Reference Guide | QRG-02-E | 1pc |
| Single Fiber Stripper | SS03 or SS01 | 1pc |
| Optical Fiber Cleaver | CT50 | 1pc |
| (1) Fiber Scrap Collector | FDB-05 | 1pc |
| (2) Fiber Setting Plate | AD-10-M24 | 1pc |
| (3) Case, for cleaver | CC-37 | 1pc |
| (4) Hexagonal Wrench | HEX-01 | 1pc |

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









































Specifications

90S Specifications



90S Options

| Item | | Specification |
|---|---|--|
| Fiber alignment method | | Active core alignment |
| Fiber count can be spliced | | Single fiber |
| Applicable fiber | Fiber type | Single mode optical fiber |
| | | Multi mode optical fiber |
| | Cladding dia. | 80 to 150µm |
| Applicable | Sheath clamp | Coating dia. : Max. 3000µm |
| coating | Onodin olding | Cleave length : 5 to 16mm *1 |
| | | ITU-T G.652 : Avg. 0.02dB |
| | | ITU-T G.651 : Avg. 0.01dB |
| | Splice loss *2 | ITU-T G.653 : Avg. 0.04dB |
| Fiber splice | Opilioo 1000 2 | ITU-T G.654 : Avg. 0.04dB |
| performance | | ITU-T G.655 : Avg. 0.04dB |
| | | ITU-T G.657 : Avg. 0.02dB SM FAST mode : Avg. 7 to 9sec. |
| | Splice time *3 | AUTO mode : Avg. 14 to 16sec. |
| Applicable | Sleeve type | Heat shrinkable sleeve |
| protection | Sleeve length | Max. 66mm |
| sleeve | Sleeve dia. | Max. 6.0mm before shrinking |
| Sleeve heat | | 60mm slim mode : Avg. 9 to 10sec. |
| performance | Heat time *4 | 60mm mode : Avg. 13 to 15sec. |
| Fiber tensile test for | orce | Approx. 2.0N |
| Electrode life *5 | 5100 | Approx. 5000 splices |
| 2.000.0000 0 | Dimensions W | Approx.170mm without projection |
| Physical | Dimensions D | Approx.173mm without projection |
| description | Dimensions H | Approx.150mm without projection |
| · | Weight | Approx. 2.8kg including battery |
| | T | Operate : -10 to 50 degreeC |
| English and the l | Temperature | Storage : -40 to 80 degreeC |
| Environmental condition | Llumaiditu | 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 |
| | Туре | Rechargeable Lithium Ion |
| | Output | Approx. DC14.4V, 6380mAh |
| Battery pack | Capacity *6 | Approx. 300 splice and heat cycles |
| | | |
| Battery pack | | Recharge: 0 to 40 degreeC |
| Battery pack | Temperature | Storage: -20 to 30 degreeC |
| Башегу раск | Temperature Battery life *7 | Storage: -20 to 30 degreeC Approx. 500 recharge cycles |
| | Temperature Battery life *7 LCD monitor | Storage : -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen |
| Display | Temperature Battery life *7 LCD monitor Magnification | Storage : -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x |
| | Temperature Battery life *7 LCD monitor Magnification V-grooves | Storage : -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp |
| Display | Temperature Battery life *7 LCD monitor Magnification V-grooves PC | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type |
| Display | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type |
| Display | Temperature Battery life *7 LCD monitor Magnification V-grooves PC | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA |
| Display Illumination | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin |
| Display Illumination | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A |
| Display Illumination | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE |
| Display Illumination Interface | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE 100 splice modes |
| Display Illumination | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE |
| Display Illumination Interface | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE 100 splice modes 30 heat modes 20000 splices 100 images |
| Display Illumination Interface | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE 100 splice modes 30 heat modes 20000 splices |
| Display Illumination Interface Data storage | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE 100 splice modes 30 heat modes 20000 splices 100 images |
| Display Illumination Interface Data storage | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE 100 splice modes 30 heat modes 20000 splices 100 images 1/4-20UNC |
| Display Illumination Interface Data storage | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image od | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE 100 splice modes 30 heat modes 20000 splices 100 images 1/4-20UNC Splice mode select by fiber type analysis Discharge power calibration |
| Display Illumination Interface Data storage | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image od Automatic | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE 100 splice modes 30 heat modes 20000 splices 100 images 1/4-20UNC Splice mode select by fiber type analysis Discharge power calibration Wind protector: open and close |
| Display Illumination Interface Data storage Screw hole for trip Other | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image od | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE 100 splice modes 30 heat modes 20000 splices 100 images 1/4-20UNC Splice mode select by fiber type analysis Discharge power calibration Wind protector: open and close Sheath clamp: open |
| Display Illumination Interface Data storage Screw hole for trip | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image od Automatic | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE 100 splice modes 30 heat modes 20000 splices 100 images 1/4-20UNC Splice mode select by fiber type analysis Discharge power calibration Wind protector: open Heater lid: open and close |
| Display Illumination Interface Data storage Screw hole for trip Other | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image od Automatic functions | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE 100 splice modes 30 heat modes 20000 splices 100 images 1/4-20UNC Splice mode select by fiber type analysis Discharge power calibration Wind protector: open and close Sheath clamp: open Heater lid: open and close Heater clamp: open and close |
| Display Illumination Interface Data storage Screw hole for trip Other | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image od Automatic functions Reference guide | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE 100 splice modes 30 heat modes 20000 splices 100 images 1/4-20UNC Splice mode select by fiber type analysis Discharge power calibration Wind protector: open and close Sheath clamp: open Heater lid: open and close Heater clamp: open and close Video and PDF file stored in splicer |
| Display Illumination Interface Data storage Screw hole for trip Other | Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image od Automatic functions | Storage: -20 to 30 degreeC Approx. 500 recharge cycles TFT 4.9 inches with touch screen 200 to 320x LED lamp USB2.0 Mini B type USB2.0 A type Approx. DC5V, 500mA Mini DIN 6pin DC12V, Max. 1A Bluetooth 4.1 LE 100 splice modes 30 heat modes 20000 splices 100 images 1/4-20UNC Splice mode select by fiber type analysis Discharge power calibration Wind protector: open and close Sheath clamp: open Heater lid: open and close Heater clamp: open and close |

| 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 |
| DC Adapter | DCA-03 | Connect AC adapter not through battery |
| DC power cord | DCC-20 | Car cigar socket to BTR-15/DCA-03 |
| | DCC-21 | Car battery to BTR-15/DCA-03 |
| Transfer Clamp | CLAMP-DC-12 | Transferring drop cable on work tray |
| J-Plate | JP-10 | Attaching to splicer, not to work tray |
| | JP-10-FC | JP-10 with fiber clamps |
| 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 |

- Notes

 *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.
 5 to 10mm: 80µm cladding dia. and 160µm coating dia.
 5 to 16mm: 150µm cladding dia. and 250µm 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 pursonmental coadition and fiber characteristics. 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.
- Test condition
 - (1) Splice and heat time: 1 minutes cycle

 - (1) Splice and neat 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 different conditions from the
- *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,

Specifications

CT50 Specifications



| Item | | Specification |
|-----------------------|---------------------|---|
| Applicable fiber | F11 | Single mode optical 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 |
| Olcave 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 |
| | 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 |
| | 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 |
| | | 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 |
| 0.1 | Blade rotation | Motorized rotation |
| Other features | | Manual rotation dial |
| | Replaceable | Blade |
| | parts | 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 |
| | SPA-CT08-10 | Cleave length 10mm |
| Spacer | SPA-CT08-09 | Cleave length 9mm |
| | SPA-CT08-08 | Cleave length 8mm |

- *1 When the cleave length is less than 10mm, the coating diameter should be $250\mu m$ 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 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.





Please visit our web site!

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