

# Advanced Optical Fiber Cleaver CT110/111



## Advanced Optical Fiber Cleaver CT110/111

The CT110/111 is designed for cleaving silica fiber with 80 to 250 $\mu$ m cladding diameter. It is also capable of precision angled fiber cleaves.



### Product Variation

Model	CT110	CT111
Appearance		
Cladding diameter	80 to 250 $\mu$ m	
Cleave length	Approx. 11~44mm	
Angle cleaving	—	✓
Fiber holder	FH-100 series / FH110 series / FH-70 series *1	

\*1 Holder Adapter Plate (AD-CT110-FH70) is necessary to use FH-70 series.

### Features

Cleaving tension  
automatic setting



Automatic cleaving tension function can tension and can save your optimization.

Blade position  
automatic changing



A new blade mechanism controls blade height automatically. It keeps good blade condition to obtain stable cleaving quality.

Wireless communication  
by RFID

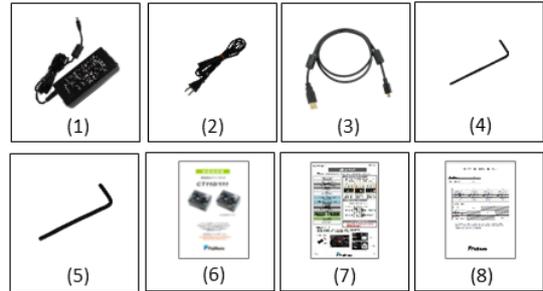


RFID tag equipped to the fiber holder communicate with CT110/CT111 and choose proper cleaving program\*1

\*1 It is necessary to set the fiber holder to be used and the cleaving program to the in advance using the attached PC software.

# Standard Package

Item	Model	Qty
Advanced Optical Fiber Cleaver	CT110, CT111	1 pc
1 AC Adapter	ADC-21	1 pc
2 AC Power Cord	ACC-08, 09, 10, 11 or 12	1 pc
3 USB Cable	USB-01	1 pc
4 Hexagonal Wrench	HEX-01	1 pc
5 Hexagonal Wrench	HEX-02	1 pc
6 Instruction Manual	-	PDF file stored in Cleaver
7 Quick Reference Guide	QRG-11-E or J	1 pc
8 Cleave test report	CR-CT110	1 pc



# Specifications

Item	CT110	CT111
Applicable fiber	Fibertype	Silica fiber
	Fiber count	Single fiber
	Cladding dia.	80 to 250µm
	Coating dia.	81 to 2,000µm
Applicable fiber holder	FH-100 series / FH110 series / FH-70 series (*1)	
Capability of setting range for Tension (*2)	0 to 900gf	
Total fiber length (*3)	Approx. 11~44mm	
Cleave angle (*4)	Avg 0.3°, Cladding dia. 125µm	
Fiber twister	-	Equipped
Angled Cleaving	-	Approx. 0° to 15° (*5)
Blade life	Approx. 200,000 fiber Cleaves at Cladding dia. 250µm (*6)	
Physical description	Dimensions W	Approx. 140mm without projection
	Dimensions D	Approx. 106mm without projection
	Dimensions H	Approx. 103.5mm without projection
	Weight	Approx. 810g without battery
Power Supply	AC adaptor	Input : AC 100 to 240V, 50/60Hz, Max. 1.5A Output : Approx. DC 19V, Max. 2.1A
	Battery	4 pieces of dry battery (ANSI AA / IEC LR6) Number of cleaving with battery: Approx. 500 fiber cleaves with standard 125µm at 25°C.
Interface	PC	USB2.0 Mini B type (*7)
	Ground point	Applicable by M3 size truss screw.
Wireless communication	RFID	Compliant with ISO 15693 (*7)
Firmware	Cleave mode	10 Cleave modes can be saved in the device. 3 Cleave mode can be selected by the switch in the device.
Environmental condition	Temperature	Operate : 0 to 40 °C Storage : -40 to 80 °C
	Humidity	Operate : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing
Other Features	Automatic Functions	Auto cleave mode select by RFID tag Motorized blade position change Motorized auto tension setting
	Coating adjuster	Coating position adjustment mechanism after cleaving (*8)
	Software for PC	Firmware update via internet Cleaving parameter upload and download
	Model	Silica fiber

# Options

Item	Model	Remark
Blade for Replacement	CB-06A	Blade for Replacement
Holder Adapter Plate	AD-SS110-FH70	Fiber Holder Adapter for FH-70
Fiber Holder	FH110-60	60µm Coating Diameter
	FH110-100	100µm Coating Diameter
	FH110-125	125µm Coating Diameter
	FH110-150	150µm Coating Diameter
	FH110-180	180µm Coating Diameter
	FH110-210	210µm Coating Diameter
	FH110-250	250µm Coating Diameter
	FH110-300	300µm Coating Diameter
	FH110-350	350µm Coating Diameter
	FH110-400	400µm Coating Diameter
	FH110-500	500µm Coating Diameter
	FH110-600	600µm Coating Diameter
	FH110-700	700µm Coating Diameter
	FH110-800	800µm Coating Diameter
	FH110-900	900µm Coating Diameter
	FH110-1000	1000µm Coating Diameter
	FH110-1100	1100µm Coating Diameter
	FH110-1200	1200µm Coating Diameter
	FH110-1300	1300µm Coating Diameter
	FH110-1400	1400µm Coating Diameter
FH110-1500	1500µm Coating Diameter	
FH110-1600	1600µm Coating Diameter	
FH110-1700	1700µm Coating Diameter	
FH110-1800	1800µm Coating Diameter	
FH110-1900	1900µm Coating Diameter	
FH110-2000	2000µm Coating Diameter	

**Note**

- \*1. Holder Adapter Plate (AD-CT110-FH70) is necessary to use FH-70 series.
- \*2. There are some cases that the set tension is different from the actual tension.
- \*3. Cleave length means distance between end surface of the fiber holder edge and end surface of the cleaved fiber.
- \*4. Measured with an interferometer at room temperature, not with a splicer. The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.
- \*5. Maximum cleaved angle changes depending on the fiber type cleaved and clamp position.
- \*6. Support 10,000 cleaves per position at cladding dia. 250µm. 20pos. X 10,000 cleaves = 200,000 cleaves  
The blade life changes depending on the environmental conditions, operating method, and the fiber type cleaved.
- \*7. Unavailable with battery.
- \*8. Supported Cladding dia. is 81 to 900µm.



Contact us