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6471A FTTH Optical Fiber Fusion Splicer

6471A is a newly designed multifunctional optical fiber fusion splicer, which is specially used for fiber splicing under FTTH environment. With compact structure and exquisite design, it is easy to operate even in confined space. The optical imaging system and full-digital design make the image display clear and delicate. The embedded real-time operating system provides friendly operation interface and multiple functions. The built-in high capacity lithium battery guarantees long-time field operation. The real-time environment (temperature and air pressure) compensation system greatly improves its ability against the hostile external environment, and thus ensures the consistency of low-loss splicing in different environments.

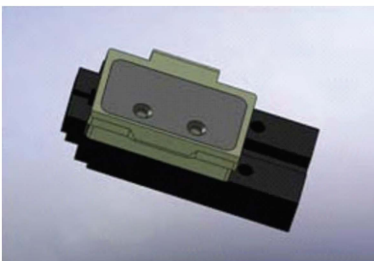


Main Features

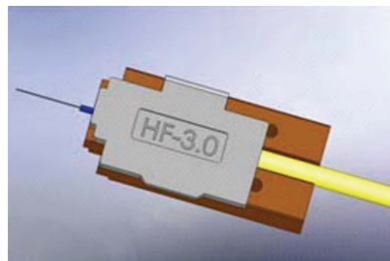
- Various dedicated holders; applicable to FTTH environment, as well as ordinary optical fiber projects.
- Precise alignment of fiber cores to ensure the low-loss splicing
- 9 seconds for splicing, 30 seconds for pyrocondensation
- X/Y axis simultaneous display, 304 times of magnification
- Can be set: to automatically start splicing once closing the windshield, and automatically start pyrocondensation once closing the heating cover
- Real-time discharging correction, no need to adjust the parameters
- Long lifetime of electrode: discharging up to 4000 times
- USB and VGA ports
- 5.7inch digital HD LCD
- Built-in high capability lithium battery: support 320 times of splicing and heating
- Real-time accurate display of remaining battery capability
- Software upgrading via U disk

Multiple dedicated holders

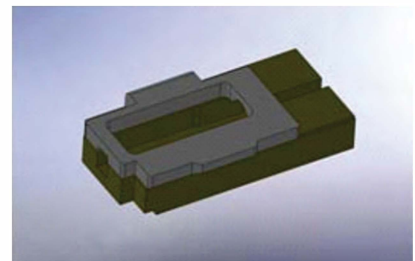
6471A FTTH fusion splicer is improved on the basis of 6471 to be suitable for FTTH environment. Besides all original functions of 6471, 6471A is also capable of splicing and heating among various optical fibers like bow-type, jumper, SC connectors etc. Different holders to complete above functions are as follows:



Bow-type holder



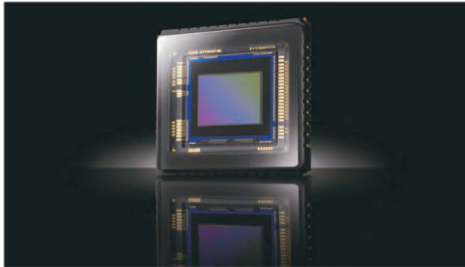
Jumper holder



SC connector holder

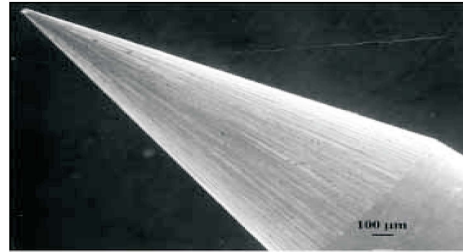
HD Optical Image Acquisition System

- ◎ HD aligner for double separate optical fibers
- ◎ High performance low noise CMOS sensor
- ◎ Sensor pixels 640*480, 60fps
- ◎ Clearer display of fiber core



Real-time Discharging Correction System

- ◎ High performance Discharging electrode
- ◎ AC-DC mix Discharging technique
- ◎ Current feedback and environment compensation
- ◎ Low power consumption for discharging,
- ◎ extended battery life



Automatic software upgrading through U flash disk

6471H versatile optical fiber fusion splicer provides USB interface which can be used for software upgrading and data backup. It is very convenient to make software upgrading and maintenance for the instrument through U flash disk .



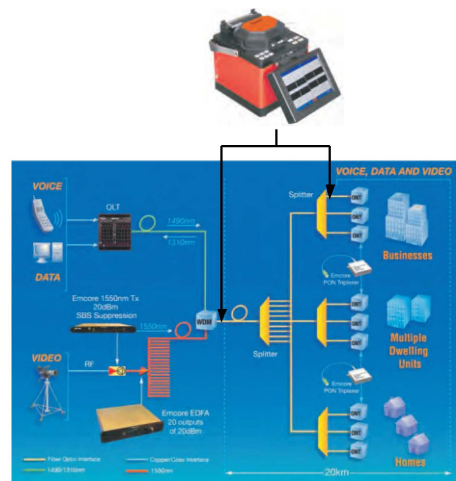
Automatic Upgrading through U Flash Disk

Typical Applications

FTTH environment and ordinary optical fiber projects

As the producer of the first domestic optical fiber fusion splicer, ceyear has over 20 years of experience in fusion splicer development and application, and well knows the requirements of high-quality and high-efficiency fiber splicing. 6471A is a newly designed optical fiber fusion splicer which is compact, easy to operate, and convenient to carry. The structure design conforms to the operating principles of ergonomics, and it can easily conduct the splicing even when the fiber is quite short.

Besides FTTH environment, 6471A FTTH optical fiber fusion splicer can also be applied in engineering construction, line maintenance, and emergency repairing of all optical cable lines, production & test of optical fiber components, as well as research and teaching.



Technical Specifications

Fiber type	SM, MM, DS, NZDS
Splice loss	0.02dB(SM), 0.01dB(MM), 0.04dB(DS), 0.04dB(NZDS)
Return loss	Better than 60dB
Operation mode	Full-automatic, semi-automatic, manual
Fiber alignment	Advanced PAS aligning
Applicable fibers	Bow-type, SC connector (optional) and 0.25mm, 0.9mm ordinary optical fibers
Cleave length	8 ~ 16mm
Magnification	304/152 times

Display	High-performance 5.7 inch LCD; provide clear and exquisite image display		
Tension test	Standard 2N (optional)		
Pyrocondensation tube	60mm, 40mm and a series of pyrocondensation tubes		
Battery capability	Typical 320 splices; charging time: about 3.5 hours (available for use during charging)		
Battery life	300~500 times of charging, can be exchanged by users		
Electrode life	Typical value: 4000 times; can be exchanged by users		
Construction lighting	Built-in high-brightness, wide-range light, convenient for night operation.		
Power supply	Built-in lithium battery: 11.1V; external adapter, input: AC100-240V, output: DC13.5V/4.5A		
Operating environment	Temperature: -10°C ~ +50°C; humidity: 0~95%RH (non-condensing) Altitude height: 0~5000m		
Weight	2.7kg (without battery), 3.2kg (with battery)		
Operation interface	Chinese/English		
Dimensions	W × H × D=150mm × 140mm × 160mm		
Max. power	≤20W (without charging); ≤55W (with charging)		
DC internal power	Service time (23°C ± 2°C)	≥4h (continuous working) ≥10h (standby state)	
	Charging time	≤3.5h (power off) ≤4.5h (power on)	
DC external power (external power adapter)	Input	100~240V, 50/60Hz	
	Output	13~14V, ≥4.4A, power plug center is positive pole	
	Leakage current	When the input voltage is 220V, leakage current ≤3.5mA	
Interface function	USB	Storage record	No USB "Please insert a USB" prompt
			With USB To export the record. There will be a prompt of "please pull out the USB" after finished.
		Software upgrading	With USB, during the software upgrading, there will be a progress bar, and the upgrading will be completed in few seconds. Pull out the USB, and re-start the instrument, the software version showed on the interface should be the same as in the USB.
	VGA	To link the external monitor via VGA port, so that the monitor can display the content on the fusion splicer screen.	
	Automatic splicing	Can complete the gap setting, alignment and discharge splicing of two fibers as well as the display of estimated loss.	
	Tension test	During operation, the tension (1.96N) test will be automatically started once the splicing is finished. It will display "normal" once the tension test is finished.	
	Automatic heating	When starting up, the heating function is automatically activated with no need to press "heating" key. The heating indicator lights up and complete the pyrocondensation of a 60mm standard pyrocondensation tube.	
Performance indexes	Splicing time	Splicing time ≤9s	
	Heating time	40mm pyrocondensation tube	Heating time ≤30s
		60mm pyrocondensation tube	Heating time ≤35s

Ordering Information:

Main Unit: 6471A FTTH optical fiber fusion splicer

Standard Configuration:

No.	Description	Remark
1	6471A FTTH fusion splicer	1 set
2	FH-71A-IN-L	Left bow-type holder
3	FH-71A-IN-R	Right bow-type holder
4	FH-71A-250-L	Left ordinary coated fiber holder
5	FH-71A-250-R	Right ordinary coated fiber holder
6	FH-71A-3.0-R	Right jumper holder
7	Power adapter	1pc
8	AC power cord	1 pc

No.	Description	Remark
9	Spare electrode	1 pair
10	Rubber suction bulb	1 pc
11	Bottle with pump	1 pc
12	Cooling tray	1 pc
13	User manual CD	1 pc
14	Carrying case	1 pc

Options:

Option No.	Description	Function	Remark
6471H-001	Fiber cleaver 33012	Fiber cleaving	
6471H-002	Miller stripper CFS-2	Bare fiber stripping	
6471H-003	Bow-type stripper	Bow-type fiber stripping	
6471H-004	Right SC connector holder FH-71A-SC-R	SC connector fiber fusion splicing	
6471H-005	Heater cushion HC-71-1	Used for different types of fibers	
6471H-006	Lithium battery HYLB-1173	Power supply	

Foreign instrument to be substituted

The foreign instrument to be substituted by 6471A: Fujikura FSM-60S