AV6471 Optical Fiber Fusion Splicer

AV6471 is an optical fiber splicing device with a brand new design. With powerful functions and super low splicing loss, it is highly competent for construction of trunk lines and FTTx. Lightweight and compact, it is easy to use even in confined space. The novel fiber imaging system makes the image clearer. The real-time embeded Operating System provides a friendly man-machine interface and abundant functions. The built-in large capacity Li-Ion battery can support long-time field work. The real-time compensation system for temperature, humidity and air pressure has greatly enhanced the device against unfavorable environment changes and thus guarantees its consistency of low loss splicing in various environments.

Main Features:

o New fully-digitalized design;
o Small in size, lightweight: only 2.8kg with battery;
o Takes only 8 seconds for splicing,25 seconds for pyrocondensation;
o Can set automatic start of splicing or of pyrocondensation upon close of the cover;
o Simultaneous display of X/Y axis; zoom in up to 304 times original size;
o Real time discharging for adjustment; no need for further adjustment;
o Electrode has a long life; discharging times up to 4000;
o With USB and VGA ports;
o 5.7 inch digital high resolution LCD;
o Precise real-time display of remaining battery capacity;
o Built-in high capacity battery, which enables up to 220 times of splicing and heating;

Technical Highlights:

HD Optical Image Acquisition System

- o HD aligner for double separate optical fibers
- o High performance CMOS sensor
- o Sensor pixels 640*480

Len Imaging Optical Fiber Aligning System

- o Fast evaluation of fiber profile
- o Precise fiber alignment
- o Precise evaluation of splicing loss

Real-time Discharging Correction System

- o High performance discharging electrode
- o AC-DC mix discharging technique
- o Current feedback and environment compensation

Typical Application:

AV6471 Fiber Splicer is mainly applied in fiber cable construction, fiber line maintenance, emergency repair of fiber cables and tests and production of optical fiber components.

Technical Parameter:

Applicable Fiber	SMF(ITU-T G.652), MMF(ITU-T G.651), DSF(ITU-T G.653), NZDSF
Average Splicing Loss	0.02dB(SM),0.01dB(MM),0.04dB(DS),0.04dB(NZDS)
Return Loss	<-60dB
Operation Mode	Auto,Half auto,Manual
Align Mode	Advanced PAS align mode.
Fiber Diameter	clad diameter:80μm–150μm,coating diameter:100μm–1000μm
Cleave Length	8–16mm(coating diameter<250μm), 16mm(coating diameter 250–1000μm)
Magnification	Vertical 152times,horizontal 304times.
Image Display	5.7′ 640*480 LCD.
Pull Test	Standard 2N(optional).
Pyrocondensation Tube	40mm,60mm and a series of micro Heat-Shrinkable Tubing.
Battery Capacity	Typically splice 220 times, charging for 3.5 hour(available when charge).
Battery Lifetime	Cycle life up to 300–500 times, replaceable.
Electrode Lifetime	>4000 times, replaceable
Lighting for Construction	Built-in super High-brightness LED supply convenient for night work
Ports	USB,VGA
Power Supply	Built in 11.1V Lithium Ion Battery.AC adopter(input AC100–240,output DC13.5V/4.5A)
Environment Adaptation	Temperature range:-10℃–50℃;Humidity:95%RH(40℃,no condensing);Altitude:0–5000m
Size	L×W×H=160×150×140(mm)
Weight	2.3kg(no battery), 2.8kg (including battery)

Standard equipment:

Key	Description	QTY
1	AV6471 optical fiber fusion splicer	1
2	AC power adapter	1
3	AC current cable	1
4	Standby electrode	1
5	Blower brush	1
6	Bottle with siphon	1
7	Fiber bracket	1
8	User´s manual	1
9	Luxury tote kit	1

Optional equipment:

Key	Description	Remark
1	Fiber Cleaver	AV33012
2	Li-Ion battery	11.1/10AH