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COMWAY TECHNOLOGY

TOP TECHNOLOGY FROM U.S.A

MINI Splicer
Strong Performance

SPECIFICATIONS

A3+

4.3 Inch
Touch Screen

5 Sec. Splicing
15 Sec. Heating

Anti-theft
Password Function

ID Electrodes
5000 Cores

COMWAY TECHNOLOGY

COMWAY TECHNOLOGY LLC
16192 Coastal Hwy, Lewes, DE 19958, USA
Tel: 001-7146025714 Fax: 001-3026451280 Email: info@comwaytek.com

GENERAL SPECIFICATIONS	
Size (H x D x W)	136 mm × 135 mm × 136 mm
Weight	1.5kg (1.8kg with battery)
Fiber alignment	High precision PAS alignment 4 motors core-to-core alignment (x-y directions)
Fiber type	SM (ITU-T G.652, G.657), MM (ITU-T G.651), DS (ITU-T G.653), NZ/NZDS (ITU-T G.655), BI (ITU-T G.657)
Splice mode	Single fiber
Fiber diameter	Cladding diameter 80 - 150μm, coating 100 - 3000μm
Cleave length	250μm cladding diameter: 5 - 16mm, over 250μm cladding diameter: 16mm
Splicing programs	Max. 100
Splicing cycle time	5 sec. [SM FAST] program, 12 sec. [SM G652] program
Heating programs	Max. 30
Heating cycle time	Adjustable, 15 sec. typical
Splice protector	10 - 60mm
Splice image capture	Max. 300
Splice data storage	Max. 20000
Splice loss	SM: 0.02dB, MM: 0.01dB, DS: 0.04dB, NZ/NZDS: 0.04dB, BI: 0.02dB
Return loss	>> 60dB

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Loss estimation	Splice loss estimation function with 2-directional fiber observation Accuracy: 0.01dB
Operation conditions	Altitude: 0 to 5000m, Temperature: -20°C to +50°C, Humidity: 0 to 95% (non-condensing), Wind velocity up to 15m/s
Storage conditions	Humidity: 0 to 95%, non-condensing Temperature: -40°C to +80°C (Battery -20°C to +40°C)
Tension	2N
Fiber view	Two cameras observation, 4.3 inch high-light touch screen
Fiber magnification	400x for X or Y single axis view 200x for both X&Y dual axis view
Port	High-speed USB
Electrode life	5000 ARC discharges
Power supply	AC 100 - 240V, 50/60Hz
LED light	White LED
Battery module	4000 mAh high-capacity battery, more than 240 times splicing and heating Full charge within 3 hours

SPLICE MODE

When the splice mode is not matched with the fiber type, click the **Menu**  key then enter into the **Splice mode**, select and enable the splice mode matched with the fiber type.

The splicer is capable of automatically diagnosing the condition of the device before splicing.

Module	Applications
SM G.652 (SM AUTO)	Single-mode automatic
MM G.651 (MM AUTO)	Multi-mode automatic
DS G.653 (DS AUTO)	Dispersion shifted automatic
NZ G.655 (NZ AUTO)	Non-zero dispersion shifted fiber automatic
BI G.657 (BI AUTO)	BI fiber automatic
SM FAST	Single mode fast (Use cladding alignment technology)
MM FAST	Multi-mode fast (Use cladding alignment technology)
DS FAST	Dispersion shifted fast (Use cladding alignment technology)
NZ FAST	Non-zero dispersion shifted fast (Use cladding alignment technology)

SPLICE PERFORMANCE

The splicer will automatically splice when the wind cover is closed.

Typical splice loss (measured by cut-back method relevant to ITU-T and IEC standards):

0.02dB with SM; 0.01dB with MM; 0.04dB with DS; 0.04dB with NZDS; 0.02dB with BI;

Return loss: 60dB or greater

Typical Splicing time

5 sec. [SM FAST] program, 12 sec. [SM G.652] program

HEATING PERFORMANCE

Adjustable, 15 sec. typical

Fiber heater is assembled on main body. It will automatically heat when the heat cover is closed.

ARC POWER CALIBRATION

Real time mode: By using Smart ARC Control Technology, ARC power is automatically calibrated real-time by using results of previous splice; Different environment the same stable loss.

Manual mode: ARC power can be manually calibrated for stable loss by using "**ARC Adjust**" function.

APPLICABLE FIBER DIMENSION

Cladding dimension: 80 - 150μm

Coating dimension: 100 - 3000μm

CLEAVE LENGTH

For the 250μm cladding diameter: 5 - 16mm

For over 250μm cladding diameter: 16mm

FIBER VIEW AND MAGNIFICATION

Two cameras observation, 4.3 inch high-light color touch screen, anti-reflective, fiber core visible clearly, automatically reverses when rotated 180°.

Magnification 400x for X or Y single axis view, 200x for both X&Y dual axis view.

TENSION TEST

2N

CONDITIONS

Operation condition: Altitude 0~5000m, Humidity 0~95%, Temperature -20^{O}C~+50^{O}C, Wind velocity up to 15m/s.

Storage condition: Humidity 0~95%, Temperature -40^{O}C ~+80^{O}C (Battery -20^{O}C ~+40^{O}C).

Environmental durability: Shock resistance (1m drop test), Water/Dust resistance (equivalent to IP52).

POWER SUPPLY

AC mode: Use AC/DC adapter: 100V to 240V, 50/60Hz

DC mode: Use BAT-05 high-capacity battery, 11.1V 4000mAh, more than 240 times splicing and heating. Full charge within 3 hours.

Battery is detachable from main body of splicer that can easy to replace battery. The splicer can be charged while in use.

DC input: 10~15V, 5A.

FEATURES

Anti-theft, High speed USB, Diagnostic Test, Maintenance via the Internet, Ultra-low loss, ID Electrode, Electrode Replacement Warning, Fiber Endface Melter, Counter Function (ARC discharges, Splice number), Log File Records, Firmware Upgrade…

LANGUAGE

English, Vietnamese, French, Spanish, Italian, Korean…

DIMENSIONS AND WEIGHT

Dimensions: D136 × W135 × H136 (mm)

Weight: 1.5kg (1.8kg with battery)

COMWAY A3+ Specifications

Version: 2.1

The specifications could be amended at any time without prior notice.

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