

# VT-42S-TS ARC Fusion Splicer

Core Alignment Splicing Method

4.3" Color LCD Touch Screen

Auto heating more efficient



## Description

VT-42S-TS is an automatic fusion splicer for SM, MM, DS, NZ-DS(G655), EDF and other fibers. Despite its compact size, it is fully equipped with unprecedented features to ensure high splicing quality even in the harshest environmental conditions. VT-42S-TS performs core alignment using the PAS (Profile Alignment System) method. By this method, the alignment process of the 2 optical fiber ends is automatically aligned and continuously dynamically responded in 2 X/Y axes by analyzing the images of 2 cameras. The bare fiber area is protected either by recoating or with a splice protector. A splice protector is a heat shrinkable tube with a strength membrane and less loss.

## Features

- Fast splicing and heating time: ~7 second splicing and ~13 second heating
- GPU processors help increase performance and reduce power consumption
- Powerful battery and Top Quality electrode: up to more 180 times of continuous splice and heat and more 5000 times life span electrode
- Compact and lightweight design, can operate on the column conveniently and easily
- Integrated 2-mode cable clamp for convenient use when splicing conventional cables or subscriber optical cable (drop cable)
- Equipped with double VGroove for more precise setting operation

- Fully Automatic Operation
- 5000m altitude ensures Splice Quality
- SYSTEM TEST ensures the best working condition
- 4.3 inch high resolution color touch screen, anti-reflective
- Pause function, convenient for scientific research
- USB & DC interface
- More 350 Magnifications of X and Y
- Display fiber in each X, Y axis; or both X and Y at the same time
- Four motors Core-Alignment PAS technology
- Store more 20.000 heating splice results, 20.000 splice results and with 2.000 picture
- Anti-shock, dust proof (standard IP5X) and waterproof (standard IPX2).

## Specifications

Model	VT-42S-TS
Dimension	120mm (L) *122mm (W) *120mm (H)
Weight	~1.32kg (include battery)
Languages	English, Vietnamese,...
Number of Fiber	Single
Applicable Fibers	SM(ITU-T G.652&G.657) / MM(ITU-T G.651) / DS(ITU-T G.653) / NZDS(ITU-T G.655)
Compatible Fiber / Cable	SM, MM, DS, NZDS, G655, G657 and others
Cleaved Length	Diameter: 0.1~3 mm / Cleave Length: 5~16 mm
Cladding Diameter	80~150 $\mu$ m
Splicing Mode	80 splice modes
Heating Mode	20 heating modes
Typical Splice Loss	SM: 0.02dB / MM:0.01dB / DS:0.04dB / NZDS: 0.04dB / G.657: 0.02dB(ITU-T Standard)
Return Loss	$\geq$ 60dB
Splicing Time	~7 sec
Estimated Splice Loss	Available
Protection Sleeve Length	20~60 mm
Heating Time	Typical heating time: ~13 sec
Results Storage	More 20.000 heating results, 20.000 splice results and 2.000 picture
Tension Test	2.0N

Operating Condition	Operating Altitude: 0~5000m above sea level, 0~95% relative humidity, -25~50° C, Max Wind 15m/s
Storage Condition	0~95% relative humidity, -40~80° C
Display	4.3" Color High Resolution Display + Touch
Fiber View & Magnification	X, Y, XY, X/Y : more 350 Magnification
Power Supply	4000mAh Li-Battery , 15V DC adaptor, DC 10÷15 VDC
No. of Splice / Heating with Battery	Typical more 180 times (Splice+Heat)
Operating Methods	Touch + Button
Calibration	Arc calibration by doing ARC Test
Electrode Life	More 5000 arcs
Terminal	USB

## Weight and Dimensions



Height: 120 mm  
Width: 122 mm  
Depth: 120 mm  
Weight: ~1.32 kg with battery



## Package

VT-42S-TS Fusion Splicer	Item No: VT00001
Li-Battery	Item No: VT00002
High Precision Cleaver	Item No: VT00003
Fiber Stripper	Item No: VT00004
Charger Adapter	Item No: VT00005
Cooling Tray	Item No: VT00006
Cleaning V-Groove tool	Item No: VT00007
Cable stripping tool	Item No: VT00008
User Guide	Item No: VT00009
Carrying Case + Strap	Item No: VT000010
Spare electrodes	Item No: VT000011 ( <i>option</i> )



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