

FUSION SPLICER

Model: VT-42P6



Description

The VT-42P6 Fusion Splicer uses six-motor core alignment technology for precise fiber positioning in both X and Y axes. It is ideal for FTTx installation, telecom maintenance, broadcasting, and industrial applications, ensuring fast and stable splicing in all environments.

Featuring a 4.3-inch capacitive touch screen, the splicer offers 6-second splicing and 16-second heating, powered by a 7800 mAh Li-battery for up to 450 cycles per charge. Its tool-less electrode replacement and durable silicone housing provide easy maintenance and reliable performance in the field.

Features

- Six-motor core alignment, with 6 s splicing and 16 s heating time.
- 4.3-inch capacitive color touch display, showing fibers on X, Y, or XY views.
- Tool-less electrode replacement, electrode lifetime up to 5000 arcs.

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- High-capacity 7800 mAh Li-ion battery, supports ~450 splice + heat cycles per charge.
- Ultra-low splice loss (0.01 – 0.04 dB) for consistent joint quality.
- 3-in-1 universal fiber holder, compatible with bare, flat, or pigtail fibers.
- Shockproof, dustproof (IP5X), and splash-resistant (IPX2) construction.
- Auto ARC calibration compensates for temperature and air pressure.
- Internal memory stores up to 10 000 splice records and 2 000 images.
- Supports dual-layer cooling tray for efficient field operation.
- Complies with ITU-T and IEC standards for global fiber-optic networks.

Specifications

Items	Specifications
Model	VT-42P6
Splice Method	Core Alignment
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	0.25~3.0 mm / Rubber-insulated fiber cable
Fiber Holder	Replaceable universal fiber holder
Fiber Diameter	Cladding: 80-150 μ m, Coating: 100-1000 μ m
Fiber Cleave Length	8~16 mm
Splice Mode	Max 100 modes
Typical Splice Loss	SM: 0.02dB / MM: 0.01dB / DS: 0.04dB / NZDS: 0.04dB / G.657: 0.02dB
Return Loss	>>60dB
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	6 sec (SM G652 Quick mode)
Estimated Splice Loss	Available
Protection Sleeve Length	20~60 mm
Heating Time	16 sec (SM G652 250 μ m 40mm Sleeve, based on quick mode) adjustable
Protection Sleeve Length	20mm, 30mm, 40mm, 50mm, 60mm
Heat Programs	Max 40 modes
Battery Capacity	7800mAh Battery Capacity, Typical 450 Cycles (Splice&Heat) per Charge

Electrode Life	5000 arcs, can be extended by using an electrode grinder
Auto-start	Splice / Heating
Automatic ARC Identification	Automatic arc calibration by air pressure and temperature
Results Storage	The last 10,000 splice records and 2,000 result images
Tension Test	1.96~2.25N
Operating Condition	Altitude: 0~5000m, 0~95% relative humidity, -20~50° C, Max Wind 15m/s
Display	4.3-inch color LCD Touch screen
Fiber Magnification	X, Y, XY, X/Y : 320X Magnification
Power Supply	AC Input 100-240V, DC Input 9-14V
Terminal	USB2.0
Weight	1.72kg without battery / 2.25kg with battery
Size	158H x 132W x 157D mm (including rubber bumper)

Package

No.	Items	Number
1	VT-42P6 Fusion Splicer	1
2	Rechargeable battery	1
3	Power charger	1
4	FOCW Fiber Cleaning Wipes	1
5	Splicing protector sleeves(pcs)	1
6	Alcohol bottle	1
7	Fiber optic cleaver	1
8	Drop cable stripper	1
9	3-hole fiber stripper	1
10	Cooling Tray	1
11	Multi-functional carrying case + shoulder strap	1