



**Voice
broadcast**
Intelligent
broadcast tips

5 inch
HD full
touch screen

PTV-14 Multifunctional Fiber Optic Fusion Splicer

6 seconds
welding
18 seconds
heating

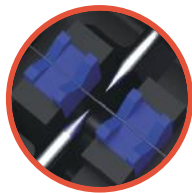
6200mAh
large capacity
battery

3S
instant on

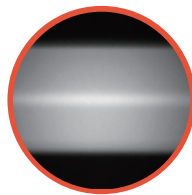
Product Features

- 420X image magnification
- 5-inch HD anti-reflective touch screen
- Support automatic detection of fiber optic cable type and automatic selection of appropriate welding mode
- The device has the ability to automatically diagnose the machine's condition before performing welding
- Voice broadcast function, operation real-time broadcast prompts, improve construction efficiency
- Industrial-grade processor, smooth system operation, simple interface, double touch operation
- Five-in-one multi-functional fixture, suitable for fusion splicing of various fiber types
- Modular design, Bluetooth, Wi-Fi, GPS/OTDR/VFL/OPM/LS/10G PON/laser ranging, Internet of Things and other functions can be expanded according to user needs. Through bluetooth, it can support splice data checking, device operation and anti-theft locking via Android mobile app.

Details display



Precision ceramic V-groove



Intelligent Arc Control Technology



Multifunctional integrated red light/optical power, etc.



Ceramic Fiber Hammer Durable

Product appearance



Waterproof(IPx2)



Dustproof(IP5x)



Fall resistance

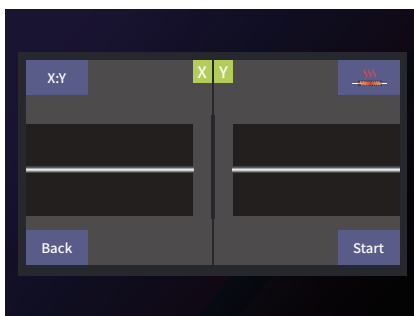


Product advantages



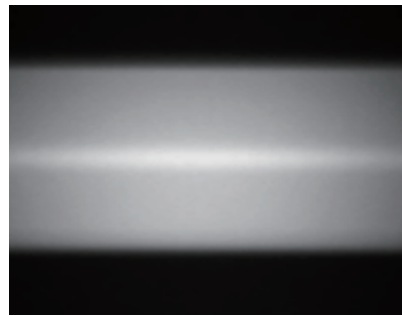
HD Optical Image Acquisition System

HD Fiber Aligner High Performance CMOS Sensor



Lens Imaging Fiber Alignment System

Fast fiber end-face evaluation
Precise fiber alignment



Real-time arc correction system

High-performance discharge electrode current feedback and environmental compensation

Advanced product performance

Self-preheating of the heating furnace when starting up

Convenient in colder areas, and can still meet the heat shrinking requirements with quality and quantity

Industrial-grade process

High environmental adaptability, good reliability, backlight buttons, USB lighting, no fear of darkness

Fully autonomous modular design

Reduce the cost of later maintenance accessories and labor costs

Three-in-one fixture

Suitable for many different types:
G.652、G.651、G.653、G.654、G.655、G.657

High material used for movement frame

7075 aviation aluminum material with high precision, corrosion resistance and good hardness is used, which is stronger in service life and stability than ordinary injection molding process

Core tuning structure

Use the more expensive XY bidirectional moving precision rails

Built-in expansion platform

Bluetooth, GPS, VFL, OPM, LS, OTDR, 10GPON, laser rangefinder, Internet of Things and other functions can be selected according to customer needs



High job fault tolerance



Uneven end face of optical fiber



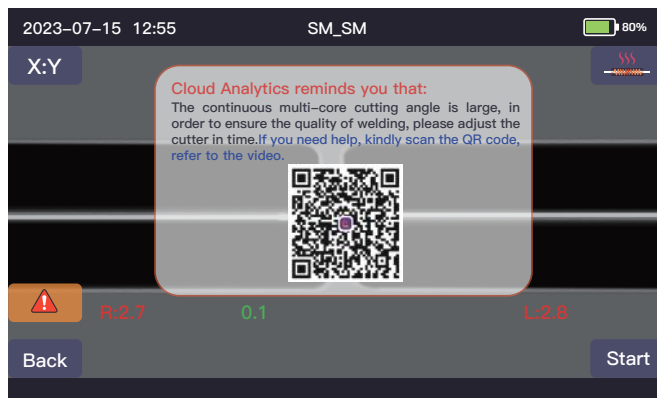
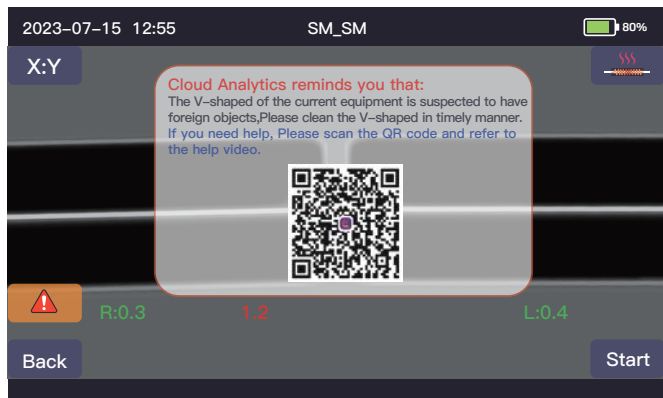
Fiber fragmentation



Fiber large cutting angle

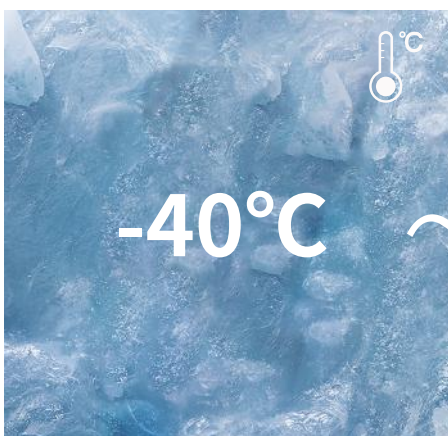
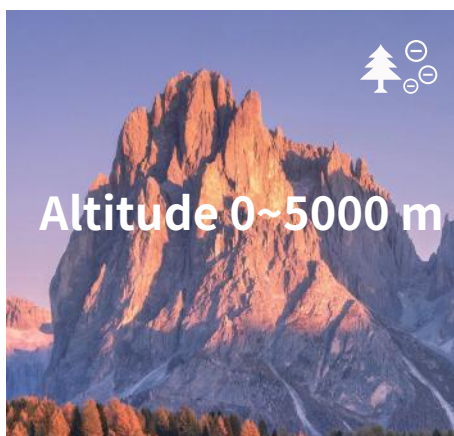
PTV-14 welding machine uses a unique optical fiber image analysis algorithm, which can identify abnormalities such as uneven end face of optical fiber, fiber fragmentation, fiber objects and large cutting angle, intelligently change the welding parameters, minimize the impact caused by abnormalities, and the typical loss of optical fiber abnormalities can be controlled within 0.04dB, and the success rate of one-time welding can reach more than 98%.

Intelligent status tracking



The system automatically tracks the user's usage, intelligently analyzes the current status of the cutting cleanliness situation of the V-shaped and provides reminder to help users clean the V-shaped and adjust the cutting tool welding quality.

Environment adaptation



PTV-14 welding machine is equipped with temperature, barometric pressure sensors, and intelligent environmental adaptation algorithms, which can operate normally in any environment without manual participation, and ensure that the welding effect and success rate are satisfactory, more intelligent and convenient.

Model	PTV-14
Motor	Four motors controlled in 2 x-y directions
Image magnification	X, Y, XY, X/Y : ~420X
Discharge calibration	Real time Discharge Correction (Manually available)
Extension Modules (Optional)	OPM/VFL/OTDR/10GPON
Clamps	Metal five in one fixture
Backlit buttons	Key backlight design to assist night construction
Applicable fiber type	SM, MM, DS, NZ, NZDS (Including G651, G652, G653, G654, G655, G657...)
Cleaved Length	Diameter: 0.1~3 mm / Cleave Length: 5~16 mm
Cladding Diameter	80~150 μ m
Splice loss	SM: 0.02dB, MM: 0.01dB, NZ: 0.03dB, NZDS: 0.04dB
Accuracy of the splice loss measurement function after splicing	<0.08 dB
Discharge electrode	\geq 5000 times
Splice mode	Splice program preset 500
Heating mode	200 preset heating programs
Auto heating	Support
Splice time	Standard fusion time is 7 seconds, fast fusion is 6 seconds
Heating time	Standard heating time 18 seconds, time adjustable
Return loss	\geq 60dB
Splice protector	20~60mm, support SOC (optional)
Tensile test	Tension is ~2.1N
Storage	Can store 2.000 images, 20.000 groups of data
Interface	GUI graphical operator interface with graphical maintenance navigation
Battery Capacity	6200mAh, built-in charging, for up to 420 times of welding and heating
Language	Multiple display languages available for user selection
Elevation	Can work at altitudes from 0m to 5000m
Temperature & Wind Speed	-20°C ~ +50°C, wind speed 15m/s
Humidity	0~95% (No condensation)
Storage conditions	Relative humidity 0~95%, -40°C ~80°C
Power supply method	AC 100~240V, DC 10~18 VDC
Start-up time	3 seconds fast boot
Display	5 inch high definition capacitive touch LCD screen, anti-reflective, dual control by key/touch
Power output	USB reverse charging / lighting
Port	USB2.0, Type-C
Size	150mm × 146mm × 145mm
Weight	1.48kg (Battery not included), 1.88kg (Battery included)



Multi-functional carrying case



Host (Including battery)



Cleaved Angle ≤ 0.5 degree
Blade Life 48,000 times

High precision cleaver



AC power cord



Carrying Strap



Miller



Leather Cable Stripper



Instruction manual



Test report



Alcohol bottles



V-groove cleaning tool



Spare electrodes



Charging adapter



Certificate of Conformity /
Warranty Card



Carrying straps,
portable handbags