

DMInteract[®]

From Visualization to Collaboration

High precision fiber fusion splicer

「Fully automatic | Semi automatic | Manual」

DM-41S





3 in 1 clamp



**8seconds instant
18 seconds heating**



5 inch HD screen



**Large capacity
lithium battery**



Complete tools



**Red light source
& Optical power**



**Six motors
focusing**



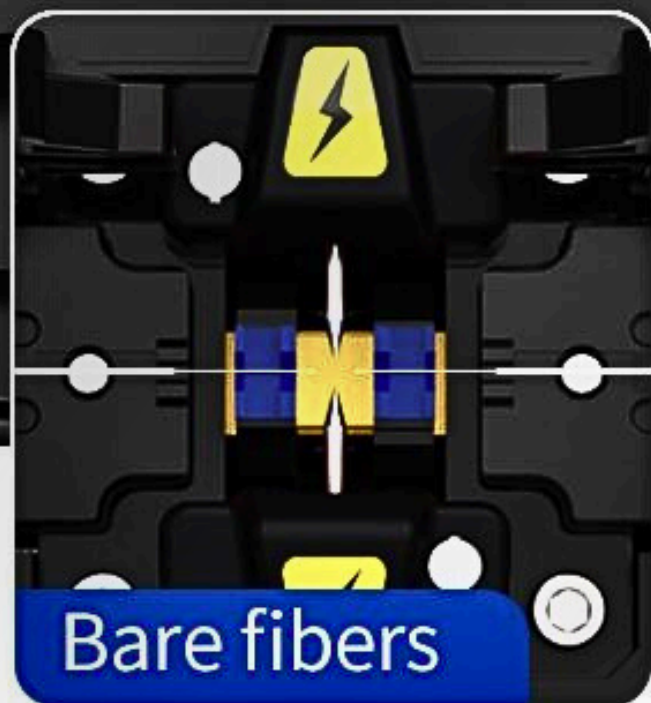
**Convenient
interface**



**Fully automatic
fusion heating**

Three-in-one clamp

Three-in-one universal clamp for patch cords, bare fibers, leather cables, etc. Fully automatic splicing of optical fibers, fast fixation, stable and firm



High efficiency welding

8"

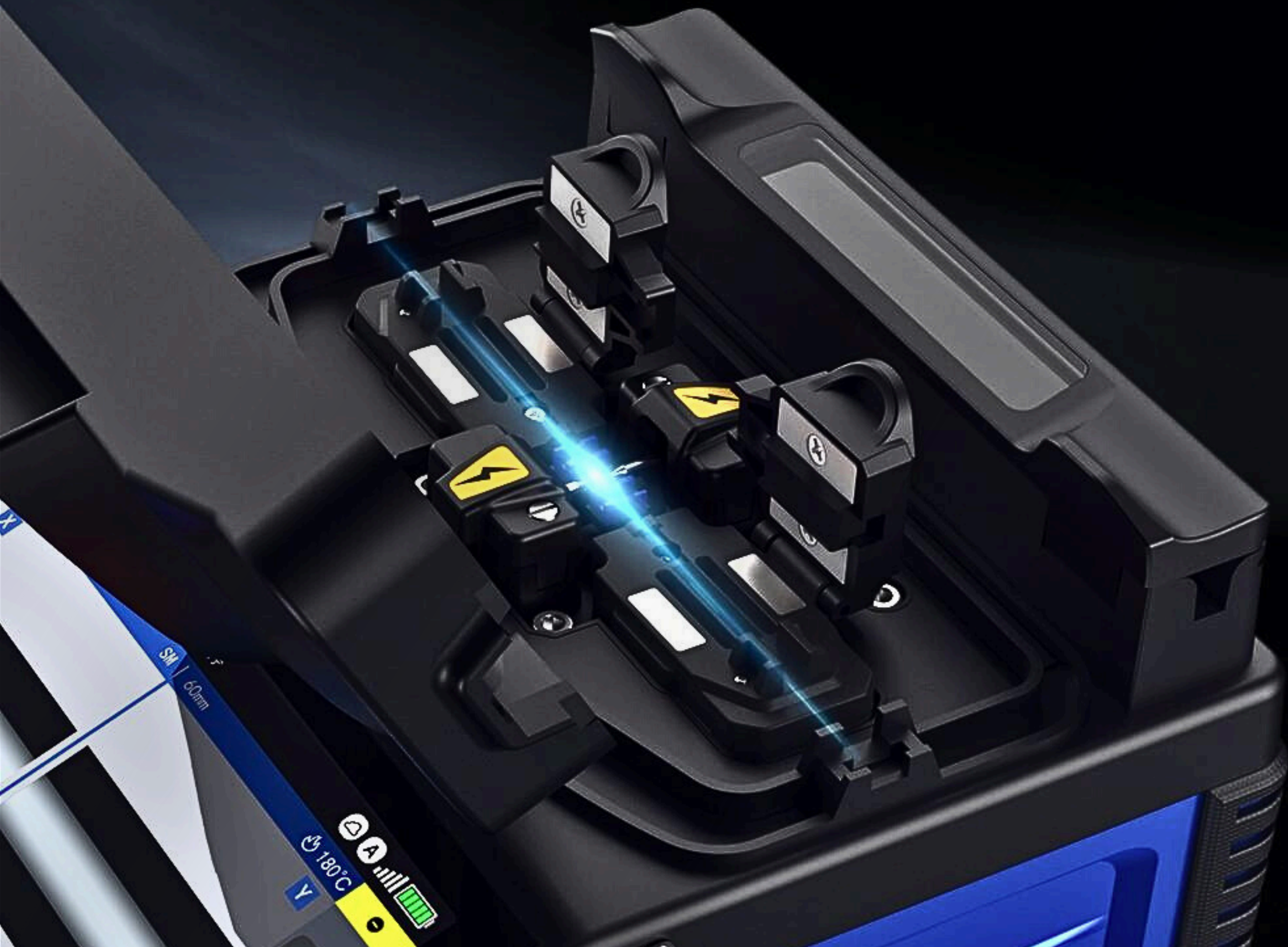
Rapid welding

18"

Rapid heating

0.01db

Loss as low as 0.01db



Excellent operational experience

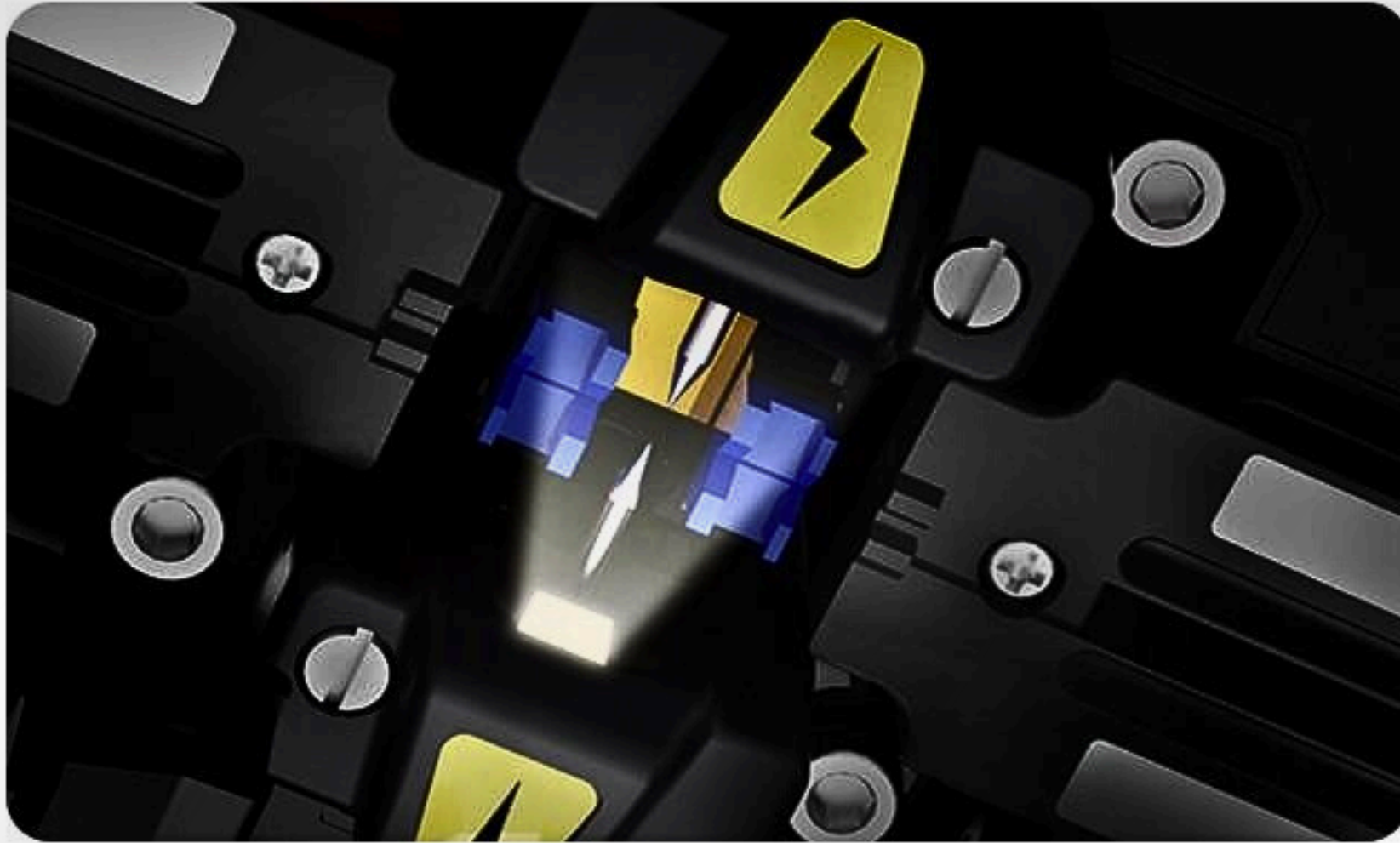
5 inch
SPI HD screen

GUI
Intelligent GUI interface

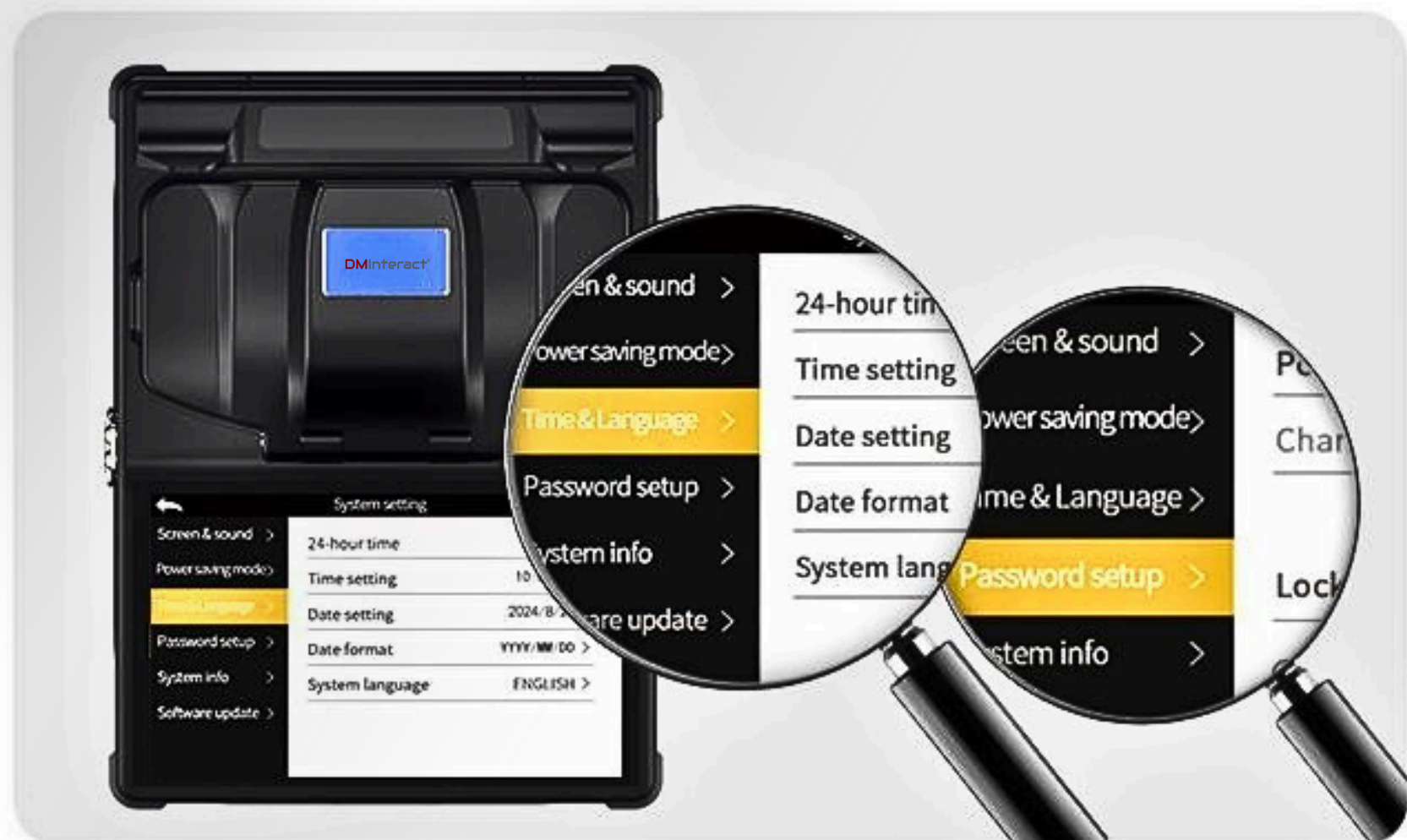
CPU
Fast response



Detail display



Equipped with LED lighting for convenient operation in dark environments



With rental mode and multiple language settings (customizable languages)

Icons explaining



Pre-heating: After opening, automatically start the heater after each successful welding or opening the windproof cover.



Tensile test: After opening, Tensile test after each successful splice.



Save images and data: After opening, when the welding is complete, save the image and data of this welding.



Save data: After this function is enabled, only the data of this welding is saved after the welding is complete.



The end face detection: After opening, the fiber end face does not meet quality requirements, welding pause, and error prompt.(Set in "Weld setting-Weld Quality")



Light - Normally on mode: After opening, the lighting in the V-shaped slot is normally on.



Light - Smart mode: After it is turned on, the light in the V-slot will automatically turn on from 18:00 to 6pm system time.



Angle detection: After opening, if the angle of the fiber end face is greater than the set upper limit, the welding will be suspended and an error message will be reported.(Set in "Weld Mode-Upper Limit of Cutting Angle")



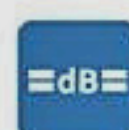
OPM: K3S: After opening, the local OPM is opened.(The wavelength can be set in the OPM control panel) K3:Not Available



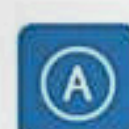
VFL: K3S: After turning on, the red light turns on.(Flashing and timing functions can be set on the VFL control panel) K3:Not Available



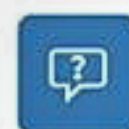
AF: K3S: When turned on, automatically adjusting the focal length of the camera to the target value set when welding. K3:Not Available



Loss estimation: After opening, after completion of welding, the connection loss is calculated based on the light image point, has some deviation from the true value.For reference only, not as the basis for project acceptance.



Welding mode: "A" automatic mode, "S" semi-automatic mode, "M" manual mode.

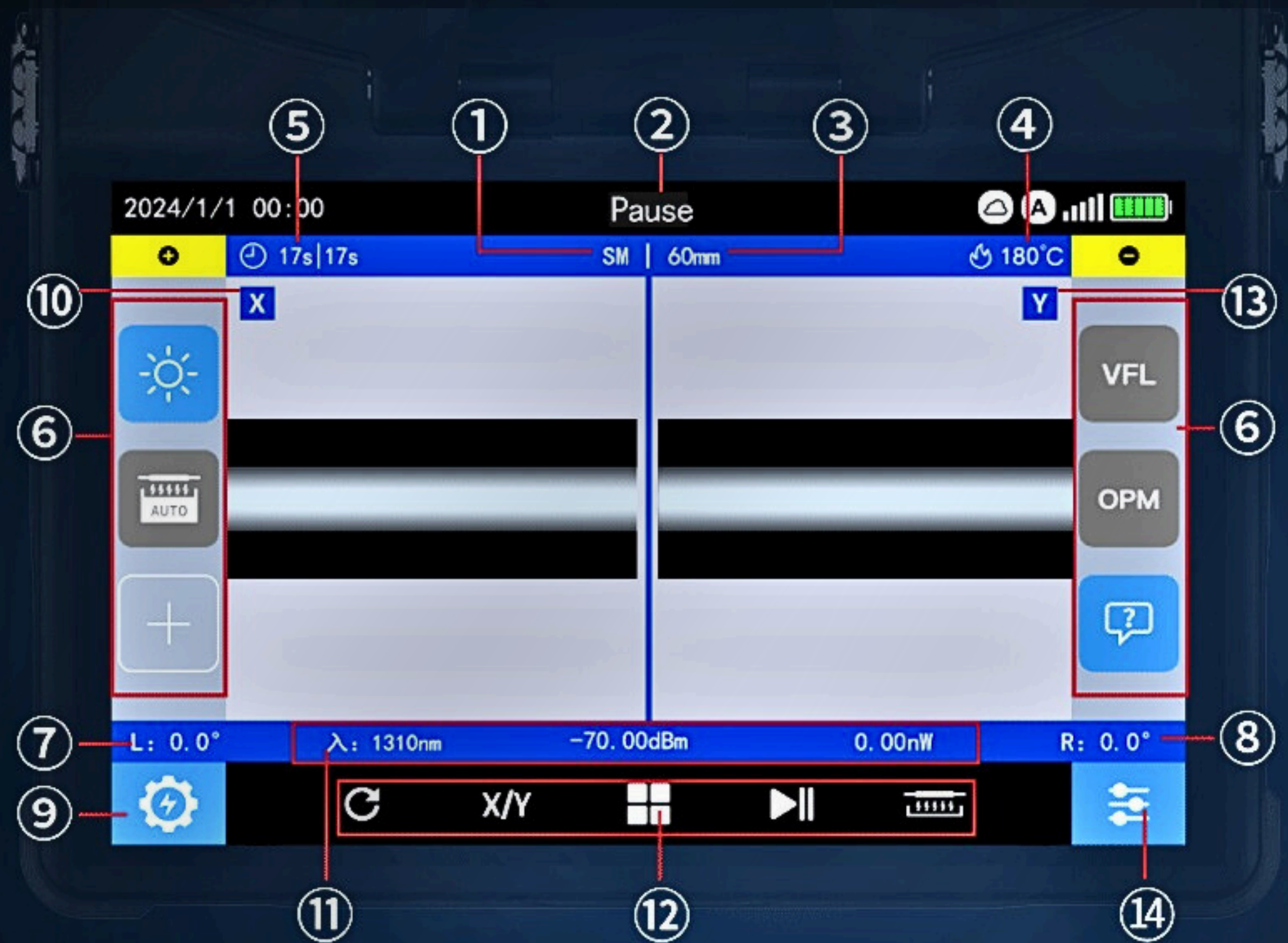


Welding reminder: After the welding process is turned on, the message prompt area of the status bar will prompt text, and the error pop-up box will prompt.



Welding interface

Simple interface, the functions are complete, and high efficient welding



- ①: Weld mode ②: Information prompt area
- ③: Thermoplastic tube type ④: Heat temperature
- ⑤: Heating time ⑥: Quick control area ⑦: X screen left side Angle
- ⑧: X screen right side Angle ⑨: Weld setting
- ⑩: X screen display ⑪: OPM display area ⑫: Weld functional area
- ⑬: Y screen display ⑭: Function config

Applications

FTTH fiber

Installation of optical network units for residential or corporate users

Communication Engineering

Contracting line projects for Telecom and Mobile Unicom operators

Security monitoring

Suitable for various security monitoring systems and fiber optic security monitoring engineering applications

Metropolitan area network line

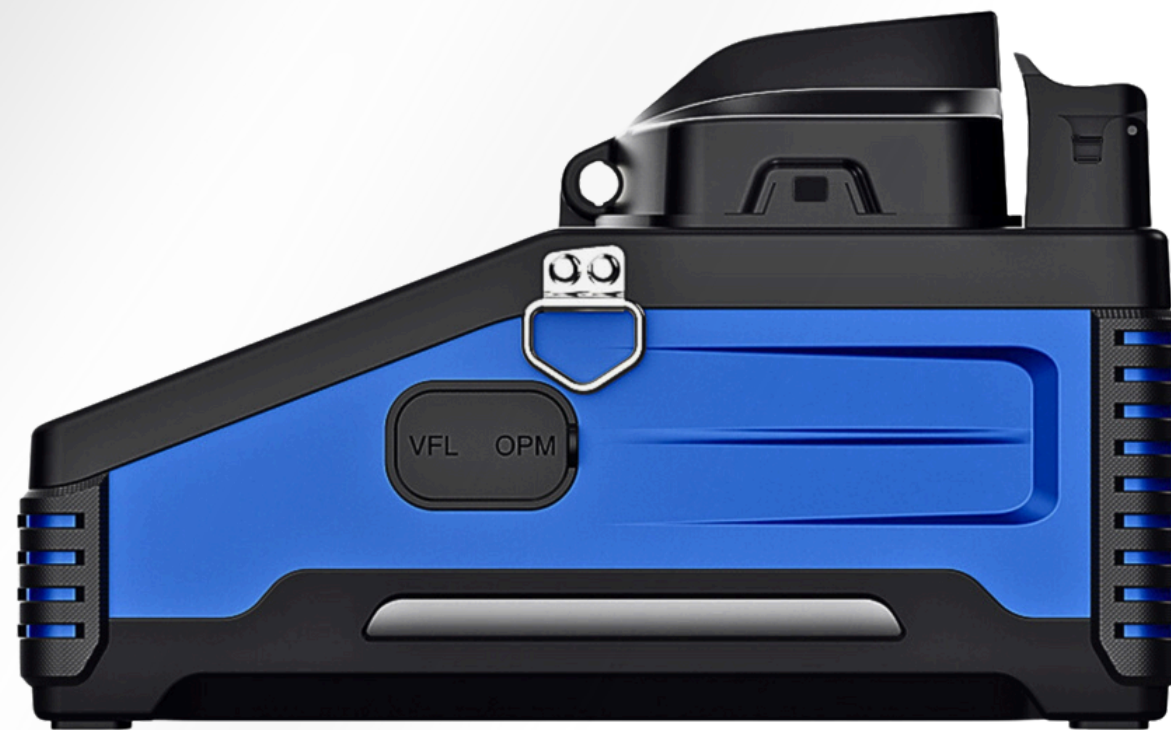
Applied within 50 kilometers
Inter city network routes

Fiber optic renovation

Fiber optic upgrade project/
cabling optical, Container delivery and other applications

Power optical cable

Fusion splicing of power optical cable engineering for long-distance second level or below lines





PRODUCT PARAMETERS

Electrode life	3000 times	Illumination	Automatic/manual
Battery capacity	5200mAh (200times)	Charging time	≤3.5 hours
Input voltage	DC11.1V	USB port output	5V/500mA
Charging input	AC100-240V、50/60Hz	Charging output	DC13.5/4A
Machine size	191*141*119mm	Toolbox size	342*280*187mm
Weight	1.62KG(Including battery)	Weight	4.58KG
Operating environment	Temperature (°C): -15+50 Humidity: ≤ 95% RH (without condensation) Wind speed: ≤15m/s		
Storage conditions	Temperature (°C): -40+80 Humidity: 0~95% Battery temperature: -20 °C~+30 °C		

Technical Parameters

Applicable fiber optic	SMF(G.652)/MMF(G.651)/DSF(G.653)/NZDSF(G.655)
Fiber Diameter	Cladding: 80-150 μ M; Soil cover layer; 0.1-3mm
Splice loss	0.02dB(SMF)/0.01dB(MMF)/0.04dB(DSF/NZDSF)
Alignment method	Fiber core, cladding
Focusing method	Four motor automatic focusing
Sealing	Auto/semi-automatic/Manual
Weld time	8 seconds (typical SMF value)
Relay testing	1.96-2.25N
Image display	Capacitive 5-inch touch LCD screen
Magnification	300 (X/Y)/150 (X/Y synchronization)
Welding record	10000 welding data and 1000 images
Typical heating time	18S(optional)
Heating time	0-60S
Heat shrink tubing sleeve	20mm/30mm/40mm/50mm/60mm
Operation interface	GUI graphical user interface

Product configuration



Toolbox



Host



Cutting knife



Miller pliers



Alcohol bottle



Power adapter



Shoulder strap hand strap



Brush



Special fiber for dissolving correction



Instructions /certificate



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