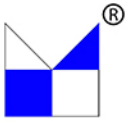


# SD1

PRODUCT MANUAL

HUIZHOU YHT BROADBAND EQUIPMENT CO.,LTD.



# SD1 FUSION SPLICER

Automatic core to core optical fiber equipment 8 seconds motor splicing machine fusion splicer.

YHT Fusion splicer hi-tech, reliability, small size, light-weight, easy-handling.

The fiber retention clamps support the automated operations. When the sheath clamps open automatically after splicing, the fiber retention clamps gently hold the spliced fiber to keep it from flying out. The retention clamps release when the fiber is lifted by the operator.



LIGHT WEIGHT  
& COMPACT



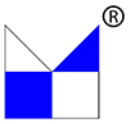
SUITABLE FOR  
WORKING  
AT HEIGHT



NO NEED TOOLS  
TO REPLACE  
ELECTRODES

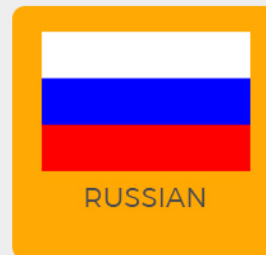


AUTOMATIC  
WELDING  
HEATING



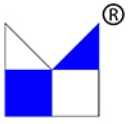
# 10 LANGUAGES SETTINGS

COVERS THE GLOBAL MAJOR USER MARKET



## • LANGUAGE SETTINGS •

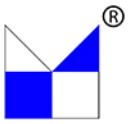
ENGLISH CHINESE FRENCH ITALIAN POLISH  
THAI RUSSIAN PORTUGUESE SPANISH ARABIC



# USAGE SCENARIO

SHOW GOOD PERFORMANCE IN PLATEAU, DESERT, AND  
EXTREME COLD ENVIRONMENT

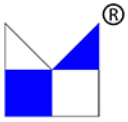




# PRODUCT STRUCTURE

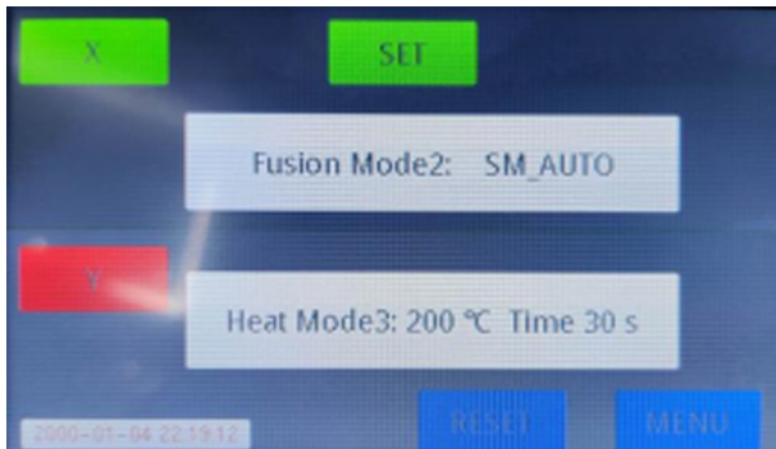
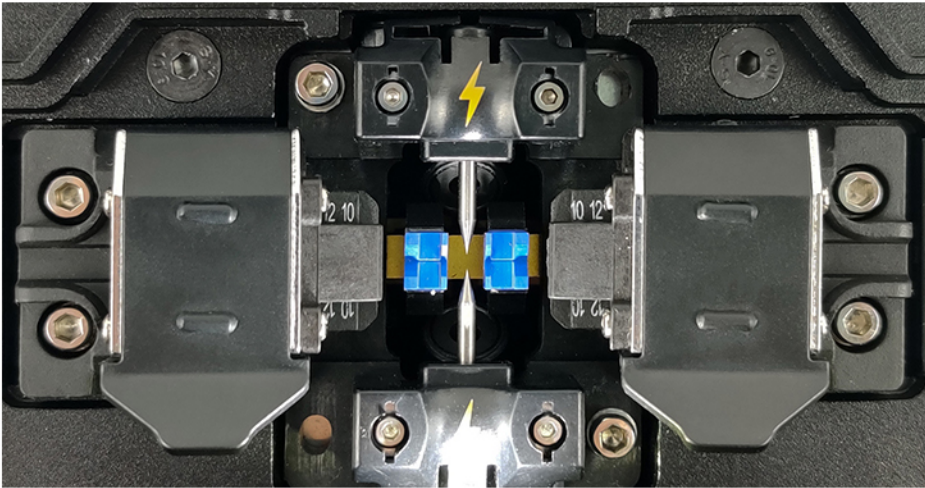
INTRODUCTION OF EACH COMPONENT

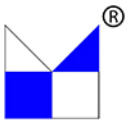




# MAIN FEATURES

## 3 IN 1 fiber holder





# INDUSTRIAL GRADE

TFT COLOUR LCD DISPLAY

**8<sub>S</sub>**

FAST SPLICING

**20<sub>S</sub>**

FAST HEATING

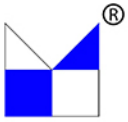


**300**

FIBER MAGNIFICATION

**6**

MOTORS



# LITHIUM BATTERY

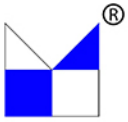
## 5200mAh

Removable lithium battery, Long-life battery for,280 cycles splicing and heating.



Press to popup the battery





# METAL BODY

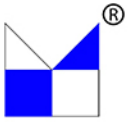
AESTHETIC DETAILS



Front light  
switch

USB port

Charging  
interface



# SIZE



\*Weight:1.95kg (with battery)



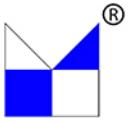
138mm



280mm

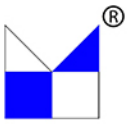
355mm

355mm

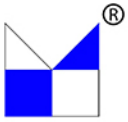


# BASIC PARAMETER

MODEL	SD1	FIBER ALIGNMENT	Core alignment
DIMENSION	222W x 140L x 138Hmm	MOTOR QUANTITY	Six motors
WEIGHT	1.95kg (with battery)	APPLICABLE NUMBER OF CORES	Single core
SPLICE MODE	Auto focus, fiber core alignment	OPTICAL POWER	Available
APPLICABLE FIBER DIAMETER	0.25~3.0mm/home optical cable	RED LIGHT SOURCE	Available
FIBER PLACEMENT AND CUT LENGTH	Coating layer: 0.125~1mm/cutting length: 8~16mm		
APPLICABLE FIBER TYPES	SM(ITU-TG.652 & G.657)/MM(ITU-TG.651)/DS(ITU-TG.653)/NZDS(ITU-TG.655)		
TYPICAL SPLICE LOSS	SM:0.02dB/ MM:0.01dB/ DS:0.04dB/ NZDS:0.04dB/ G.657:0.020dB (ITU-IT standard measurement using shear method)		
RETURN LOSS	Better than 60dB		
ILLUMINATION	3 LED white lights		
WELDING TIME	Standard 8 seconds		
SPLICE LOSS ESTIMATE	Have		



WELDING LENGTH	20~60MM
HEATER/HEATING TIME	Automatic heating and preheating mode. Typical heating time is 20 seconds. It can be customized according to the external environment
SPLICE RECORD	More than 8000 sets of splicing record storage space
IMAGE STORAGE	100 groups of image storage
TENSILE TEST	Standard 2N
WORKING ENVIRONMENT	Altitude: 0~5000 meters, relative humidity 0~95%, -20~50°C, maximum wind speed of 15 meters/s
STORAGE CONDITIONS	Relative humidity 0~95%, -40~80°C
SHOW	90-degree dual camera, 5-inch high-definition touch screen
FIBER OPTIC AMPLIFICATION AND DISPLAY	Single screen magnification 300 times, double screen magnification 150 times
POWER SUPPLY	Input AC100~240V, output DC13.5V 10A
BATTERY WELDING AND HEATING TIMES	5200mAh large-capacity lithium battery, charging time $\leq 3$ hours, can continuously weld and heat about 260 cores
OPERATION METHOD	Buttons and touch screen
PORT	USB2.0/ MINI USB



# ACCESSORIES IN THE TOOL BOX



CARRYING CASE



SD1 FUSION SPLICER



CLEAVER



AC ADAPTER



BATTERY



SPARE ELECTRODES



CFS-2 STRIPPER



DROP CABLE STRIPPER



USER MANUAL CD



STRAP



COOLING STAND



OPERATING PLATFORM