

TE-6201-W series

Fiber Optic Fusion Splicing Machine Operation Manual

Main Features:

- 4.3 inches high resolution colorful LCD display, image can be turned according to position
- Average splice time: 6 second
- Average tube-heat time: 30 second
- Lithium battery: Rechargeable and up to 220 times of continuous splice and heat after fully charged
- Separately X or Y axis views with 520 times magnification and Cutting-edge technology for image processing
- New core alignment technology, the core alignment is more accurate
- New developed technology provides strong wind and dust resistance
- Working mode: Auto & Manual & Full-Auto
- Micro USB Port
- Storing 6,000 groups of latest splice results.
- Multipurpose optical fiber fixture (3-in-1 fixture and SC/LC/FC connector fixture, patented technology)

Specifications:

Model no.	TE-6201A-W	TE-6201F-W
Applicable fiber	SM, MM, NZDS, EDF	
Average splice loss	0.02dB(SM), 0.01dB(MM), 0.04dB(NZDS), 0.04dB(ED)	
Splice time	6s (SM)	
Suitable for cutting optical fiber length	10~16mm	
Suitable for optical fiber core	Cladding diameter:80-150µm, Coating diameter:100-1000µm	
Return lose	≥ 60dB	
Fiber image magnification	520 times X or Y view; 200 times X and Y views	
Tension test	2.0N(200gf)(standard)	
Splice program	50 groups	
Electrode life	5000 times	
Protection sleeve length	20mm~60mm	
Storage of splice result	6000 groups of splice results	
Monitor	4.3 "high resolution colorful LCD	
Communication port	Micro USB	
Working light	1 LED light	
Power indication	5 LED indication	
Operation condition	Temperature: -10~+50°C	
	Humidity: 0~95%RH	
	altitude: 0~5000m	
Standard plug	A type 	F type 
Power supply	Lithium battery: 11.1V/5.2A	
	Adapter: Input AC 100~240 50/60Hz; Output: DC15V/5A	
Dimension(W x D x H)	145 x 132x 142mm	
Weight (approx)	1.7Kgs (include battery)	
	1.35Kgs(not include battery)	

Package :

1. Machine x 1pc
2. AC adaptor x 1pc
3. Battery x 1pc
4. Spare electrodes x 1set
5. Protection sleeve(60mm) x 25pcs
6. Cooling tray x 1pc
7. Operation manual x 1pc
8. Carrying belt x 1pc
9. Carrying case with strap x 1pc
10. Disk (with communication program, driver and Instructions)

Please scan QR code or visit <https://www.prokits.com.tw> for detail manual



TE-6201A-W TE-6201F-W

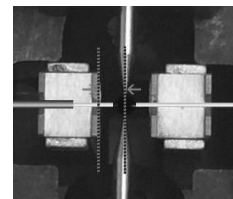


Shockproof rubber sleeve

Quick Reference Guide

The guide is for the basic operation. For the detailed information, please refer to <https://www.prokits.com.tw>.

1. Power supply: Two ways of supplying power to the fusion splicer :
(a) internal battery; (b) AC-DC power supply. Please turn off fusion splicer before operation.
1-1、Insert battery: Insert the battery into the battery groove.
Make sure it is properly fixed.
1.2、Remove battery: Push the battery out.
1-3、Using AC-DC Adaptor : Put the plug into socket as matching the anchor point.
2. Turn on Splicer Power
Press power button  to switch ON/OFF device.
3. Setting Fiber in Splicer
3.1.Open the windproof cover ;
3.2.Open the left and right sheath clamps;
3.3.Put the stripped fiber on the V-groove, and make sure the fiber end between groove edge and electrode (as pic).
3.4.Holding the fiber and close the sheath clamps carefully. If the fiber is not properly set, please adjust it;
3.5.Repeat the steps 3.3 and 3.4 for second fiber;
3.6.Close the windproof cover.
4. Splicing Operation
4.1.Mode: Manual /Auto / Full-auto
You can choose the operation model in operation menu.
Manual: Fusion splicing operate step by step controlled by the operator via the keypad.
Auto: Press the  button, it will automatically core to core alignment and fusion splicing.
Full-auto: Automatically operation after closed the windproof cover
4.2.Fiber type: SM/MM/NZDS/ED
5. Pause function :
5.1.Turn on the pause function: under Auto and Full-auto mode, after core to core aligning the fiber, splicing machine will stop, then press  button, the splicer began to fuse.
Turn off: No effect any splicing mode operation.
6. Take out the fiber and heat the fiber
1) Open the heater cover;
2) Open the windproof cover ;
3) Open the right and left sheath clamps;
4) Take out the fiber and move the fiber protection sleeve to the splice point. Make sure the splice point in the center of the fiber protection sleeve tube;
5) Put the fiber protection sleeve on the heater, close the heater cover;
6) Press  button, and red indicator light will light up;
7) When the indicator light off , it means that the heating is finished;
8) Open the heater cover, check if there are air bubbles in protection sleeve;
9) Put the fiber on the cooling tray, until it cooling down.



TE-6201G-W 光纤熔接机

主要特点:

- 高分辨 4.3 英寸 LCD 彩色显示, 图像可根据位置需要翻转。
- 典型熔接时间 6 秒。
- 热缩加热时间可设定, 典型加热时间 30 秒
- 可插拔、可在线充电锂电池, 携带更换方便, 一次充满电后可熔接/加热 220 次
- 520 倍独立 X/Y 轴显示放大, 光纤端面角度显示
- 全新的图像处理技术
- 全新纤芯对准技术, 对芯更准更精确
- 全新的助力型防风盖设计, 定位更准, 防尘、防风能力更强
- 工作方式: 自动、手动、全自动
- Micro USB 接口
- 资料存储 6000 组最新接续结果
- 多功能三合一光纤熔接夹具

标准配置:

1. 主机 x 1 台
2. 备用电极 x 1 付
3. 热缩套管(60mm) x 25 根
4. 电池 x 1 块
5. 电源适配器 x 1 只
6. 冷却托盘 x 1 个
7. 说明书 x 1 份
8. 提带 x 1 条
9. ABS 携带箱及背带 x 1 个
10. 光盘 (附通讯程序, 驱动及使用说明)

技术参数:

型号	TE-6201G-W
操作界面	简体中文
适用光纤	SM (单模), MM (多模), NZDS (非零色散), ED (掺铒)
平均损耗	0.02dB (SM), 0.01dB (MM), 0.04dB (NZDS), 0.04dB (EDF)
熔接时间	6 秒 (SM 光纤)
适合切割光纤长度	10~16mm
适合光纤线芯	包层直径: 80-150 μ m, 涂层直径: 100-1000 μ m
回波损耗	$\geq$ 60dB
放大倍数	520 倍独立显示 (X 轴或 Y 轴), 200 倍双显 (X 轴和 Y 轴)
张力测试	2.0N (200gf) (标准)
焊接程序	50 组可定义程序
电极寿命	5000 次
热缩套管	20mm~60mm
资料存储	6000 组
显示器	4.3" 高分辨率 LCD 彩色显示器
通讯接口	USB (B 型)
施工照明	1 LED 照明
电量指示	5 段 LED 电量指示
工作环境	温度: -10~+50℃, 湿度: 0~95%RH (不结露), 海拔: 0~5000m
插头	G 插头 
工作电源	锂电池: 11.1V/5.2AH 电源适配器: 输入 100~240v 50/60Hz; 输出 15V/5A
尺寸(长 x 宽 x 高)	145x 132 x 142 mm
重量	1.7kgs (含电池); 1.35kgs (不含电池)

宝工实业股份有限公司

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快速操作指南

1、电源连接

熔接机提供两种供电方式: 1. 电池; 2. 电源适配器, 拔插操作时请确保熔接机处于关机状态。

1-1 插入电池: 将电池插入到电池插槽内直到它正确到位。

1-2 取出电池: 一手扶持住熔接机, 按侧面电池推板, 将电池推出电池仓。

1-3 连接适配器: 将电源适配插头对准主机后端电源孔插入。

1-4 断开适配器: 关机后, 将电源适配器插头拔出便可。

2、开机

安装好电池, 确认电池电力充沛, 或接上外部电源后, 按动面板开机按钮 , 开启机器。

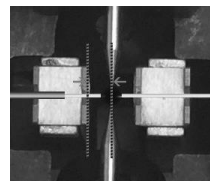
3、放置光纤

3-1 打开防风罩和光纤夹盖盖;

3-2 把准备好的光纤放置在 V 型槽内, 并使光纤末端处于 V 型槽边缘和电极尖端之间;

3-3 用手指轻压固定光纤, 合上光纤夹具盖, 确认光纤放置在 V 型槽的底部。如果光纤放置不正确, 请重新放置光纤;

3-4 按照上面的步骤放置另一根光纤后, 关闭防风罩。



4、熔接工作

4-1 可选工作模式: 手动、自动及全自动

手动: 依据屏幕菜单提示操作, 手动完成对芯及熔接作业。

自动: 关闭上防风罩, 按下放电键  开始对纤及熔接。

全自动: 关闭上防风罩即开始对纤芯并进行熔接。

4-2 可选择光纤类型: 单模 (SM) / 多模 (MM) / 非零色散位移 (NZDS) / 掺铒 (ED)

4-3 暂停功能:

开启: 在自动及全自动模式下, 对芯完成后会先暂停, 须手动按放电键  才进行熔接。

关闭: 在自动及全自动模式下, 对芯完成后直接熔接。

5、光纤套管及加热收缩

5-1 打开套管加热器上的盖子;

5-2 打开防风罩及左右两侧光纤夹盖盖;

5-3 将光纤取出并将热缩管移至熔接点处, 注意熔接点须位于套管中央;

5-4 将热缩套管放置于套管加热器中央, 并盖上加热盖;

5-5 按加热键  进行加热, 加热指示灯会同时亮起;

5-6 当加热指示灯熄灭后加热完成;

5-7 打开加热盖, 取出光纤检查热缩管内是否有气泡;

5-8 完成检查后将光纤放置于散热盘中待其冷却。

此说明书为基本操作的简单说明, 请扫描二维码或宝工网站下载:
www.prokits.com.tw

