THERMAL STRIPPER

R301-STRIP-THERMAL

OPERATION MANUAL

TREND NETWORKS

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Introduction

TREND Networks’ optical fiber thermal stripper is a hand-held, battery operated tool to quickly and easily remove the buffer and coating layers from single-fiber to 12-fiber ribbons. It provides a reliable tool for single and ribbon fiber splicing work. The rechargeable Li-ion battery provides a full day operation time.

Warning

A warning alerts to situations that could cause personal injury.

Caution

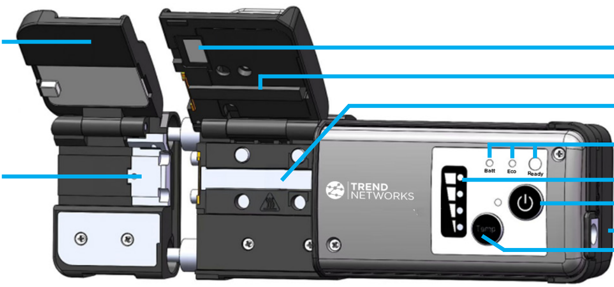
A caution alerts to situations that may cause damage to the equipment or produce poor conditions resulting in inaccurate results.

Please carefully read the following safety infomation before carrying out any operation or charging batteries.

- The thermal stripper gets hot during operation, use caution to avoid burns.
- Lithium-ion battery pack (Li-ion), regardless of their indicated charge state, can produce electrical current sufficient to cause personal injury and/or property damage.
- Do not dispose of lithium-ion battery pack in a fire or with regular waste. Lithium-ion battery pack may explode if exposed to open flame.
- Do not short-circuit or charge the battery in any other way than with the supplied battery charger (no third-party charger allowed) as this may cause the battery pack to explode.
- The thermal stripper’s battery pack is hazardous waste and may contaminate ground water sources if disposed of in landfills, only dispose properly.
- Always install, remove, store, and charge the battery pack in a non-explosive atmosphere.
- Do not open the battery pack of the thermal stripper, there are no serviceable parts.

TREND Networks will not be liable for consequential damage that may result from tampering with thermal stripper’s battery pack or charger or their use thereafter.

Description



Temperature Setting	Normal mode: 60°C, 80°C (Default) ,100°C, 120°C
Typical Heating Time	4~5s, 10s for first fiber

Operation

Before operation please use supplied power supply to charge the thermal stripper until the battery LED turns off. Thermal stripper will auto shutdown after 20mins of no operation.

Follow these steps to strip the fiber:

1. Set the fiber type selection switch according to the type of fiber. For single (250um) or ribbon fiber slide the switch UP. For buffered fiber (900um) slide the switch DOWN.

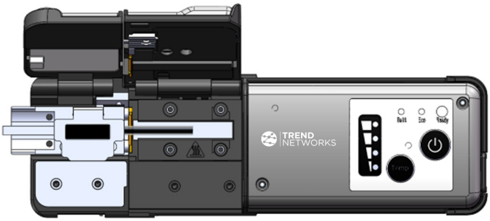
2. Press the power button for 2 seconds to turn on.

3. Press the Temp button to select the appropriate temperature level, the default is level 2.

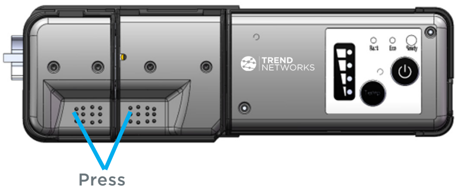
4. Clean the bare fiber with a lint free tissue or cotton swab with ≥99% isopropyl alcohol.

5. Place the fiber into the holder (fiber holders sold separately) then put the holder into the thermal stripper slot.

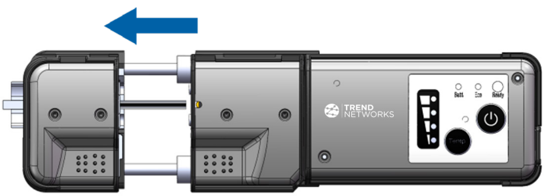
6. Ensure the fiber is contacting the main body of the heater plate (heating pad). Close the fiber clamp and heater plate.



7. Press and hold the Heater plate until the “Ready” light stops flashing. Keep the Heater plate in a pressed state to ensure good contact between the fiber and heating plate. The heating indicator “Ready” light stops flashing when the temperature reaches the preset level.



8. Continue pressing the clamp while pulling it away from the body of the stripper.



Caution

- Do not let the optical fiber touch any other objects to avoid damage or contamination of the end face of optical fiber before cleaving and splicing.
- The broken fiber scraps are dangerous. Collect and dispose of the broken fibers properly.

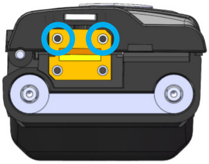
Maintenance

Cleaning and Adjustment:

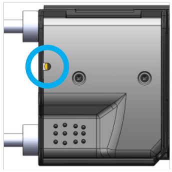
Use a lint free tissue or cotton swab with ≥99% isopropyl alcohol to clean the rubber surface of the cutting blade.

If the fiber coating cannot be removed after cleaning, adjust the blade position as follows:

1. Open the clamp cover and loosen the two locking screws of the upper cutting blade using 1.5mm allen key.



2. Adjust the upper cutting blade by rotating height screw (Clockwise = down Anticlockwise = up)



3. Align top blade with bottom blade ensuring a small gap then retighten locking screws. And test stripping quality.

4. If fiber coat is not stripped properly open the clamp cover and loosen the two locking screws and tighten top screw (height) clockwise. If the fiber is broken after stripping, loosen the two locking screws and then adjust top screw (height) anticlockwise. Use the plastic end of brush or other tool to avoid damaging the blade to push the top blade up. Retighten locking screws.

5. Test stripping quality until satisfied by repeating step 1-3.

Caution

- Do not touch the cutting blade by hand.
- Do not overtighten the blade fixing screws, the stripper can be damaged.

Warning

Avoid exposing this product to rain, condensation, etc.

Specifications

Applicable fiber	Single fiber/12-count ribbon fiber
Cladding diameter	125µm
Fiber coating diameter	Single fiber: 250-400µm 2-12 cores ribbon fiber: 300-400µm
Coating stripping length	Maximum 30mm (1$\frac{3}{16}$”)
Max fiber diameter	900µm (Single)
Type of holder supported	TREND R301 series
Temperature setting on normal mode (°C)	60 (Level 1), 80 (Level 2 Default), 100 (Level 3), 120 (Level 4)
Heating time (Typical)	Normal mode: 4~5 seconds, 10s first stripping
Battery	2000mAh Li-ion, 3 hours charging time
Operation times	600 cycles (typical) continuous, stripping at default 80 °C fully charged.
Power supply	Input AC 100-240V/50/60Hz, Output DC 12V 1A
Operation environment	Temperature 0°C ~+40°C, humidity 0~ 95%, Altitude up to 5000m, Wind speed: up to 15m/s
Dimensions	155mm (L)×50mm (W)×40mm (H)
Weight	267g (including battery)

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