

## Specifications of the TV-1500-FS Elite

### VACUUM:

Up to 8 inches of mercury at sea level.

### DIMENSIONS:

LENGTH	HEIGHT	WIDTH
8" (203mm)	3" (76mm)	3.5" (89mm)

### WEIGHT:

2.84 LBS. (1288.2 grams)

### POWER REQUIREMENTS:

MODEL # TV-1500-FS-110	110 VOLTS A.C.	50/60 HERTZ	4 WATTS
MODEL # TV-1500-FS-220	220 VOLTS A.C.	50/60 HERTZ	4 WATTS

### THIS KIT INCLUDES:

- 5 feet of 2.5mm clear coiled ESD Safe vacuum hose.
- A set of nine vacuum tips.
- Five vacuum tip holders on top of tool.
- A control knob to reduce vacuum level to pick up tip.
- A push button VACUUM PEN™ (VVP-200).
- Bar LED graph power-on and vacuum-level indicator.
- Rubber no-skid feet.
- ESD ground connection is by three wire power cord.
- Produces vacuum of up to eight inches of mercury.
- Foot switch.

Hose color may vary. Vacuum hoses are available in straight or coiled custom lengths, please contact Virtual Industries to order (719) 572-5566. There are no returns or refunds on custom lengths.

## Replacement Filters



Set of 5 replacement 40 micron inlet filters.  
Order No. **VF-40M-5**



Virtual Industries, Inc.  
2130 Victor Place  
Colorado Springs, CO 80915  
U.S.A.

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Phone: 719-572-5566  
FAX: 719-572-5504

8:00 A.M. to 4:30 P.M. Mountain Standard Time



8/10/22

## OPERATING INSTRUCTIONS AND SPECIFICATIONS

### TV-1500-FS ELITE Tweezer-Vac™ System ESD Safe

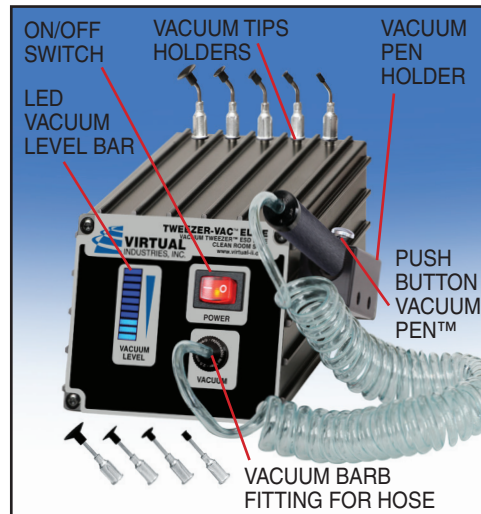
Model No. TV-1500-FS-ELITE-110  
Model No. TV-1500-FS-ELITE-220



## Operation of the TV-1500-FS Elite

1. Insure that the replaceable filter housing has a filter installed and is snugly tightened to insure no vacuum leaks. Turning clockwise tightens. Connect one end of the vacuum hose to the barb fitting on the filter housing and the other end to the barb on the VACUUM PEN™ handle that has the push button.
2. Select a probe with a vacuum cup that is slightly smaller in diameter to the outline of the parts that you want to pick and place. Securely install it on the tapered end of the vacuum handle. Selecting a vacuum cup that is too large or too small will result in improper operation.
3. Connect the 3 wire TV-1500-FS Elite power cord to input power. Turn the ON/OFF switch to the ON position. The LED vacuum level bar will glow at low brightness to show that power is on. When using small part tips several of the bars may illuminate brightly due to the tiny orifice of the tip being used.
4. To pick and place a part: Gently place the vacuum cup on top of the part that you wish to pick up. The part should now be firmly grasped by the vacuum cup. The display bars will light up brightly to show the level of vacuum that is present.
5. Now move the part to where want it. To release the part simply depress the button with your finger, the part should now be released and the display bars will indicate the reduced vacuum level.

NOTE: When using small parts tips a partial level of vacuum will be displayed when the tip is installed.



## Operation of the TV-1500-FS Elite with the Foot Switch

### PRECISION PARTS PLACEMENT

1. Connect the small diameter vacuum hose to the vacuum fitting on the front of the TV-1500 Elite. Make sure the hose is pushed all the way on. Connect the other end of the vacuum hose to the rear of the vacuum handle that has NO control hole (VFS-2.5), again make sure the hose is pushed all the way on.
2. Plug the foot switch connector into the jack on the rear of the TV-1500 Elite that is labeled as EXTERNAL SWITCH.
3. Select a probe with a vacuum cup that is slightly smaller in diameter to the outline of the parts that you want to pick and place. Securely install it on the tapered end of the vacuum handle. Selecting a vacuum cup that is too large or too small will result in improper operation.
4. Connect the TV-1500 Elite. to input power. Turn the ON/OFF switch to the on position. Adjust the flow control for your particular operation.
5. To pick and place a part:
  - a. Follow the adjustment step number 3 on previous page.
  - b. Gently place the vacuum cup on top of the part that you wish to pick up. The part should now be firmly grasped by the vacuum cup.
  - c. Now move the part to where you want it.
  - d. Depress the foot switch, the part should now be released.
6. Remember to turn the unit off when you are finished.

