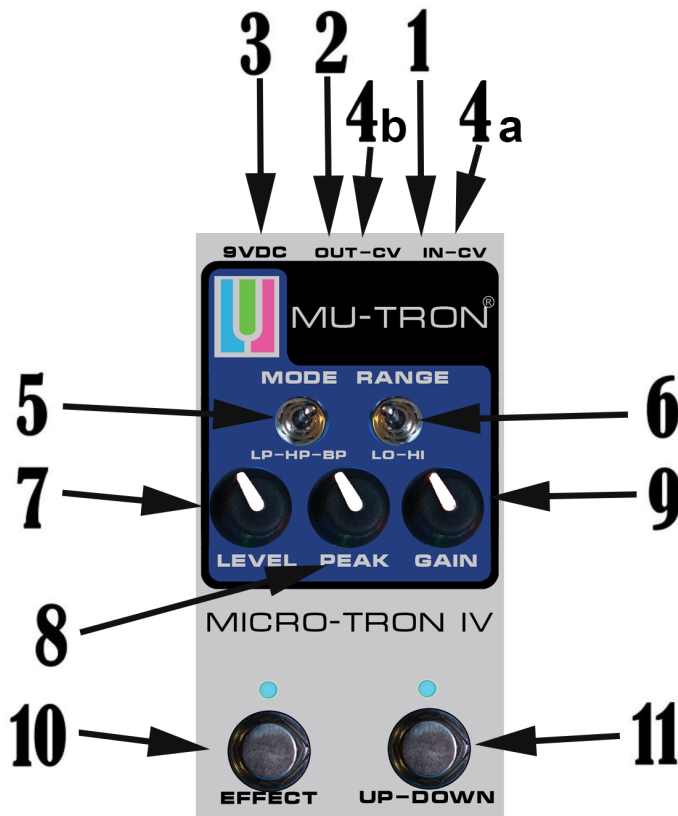


MICRO-TRON IV

Quick Start Guide



1. **IN:** A standard 1/4"(TS) input jack

2. **OUT:** A standard 1/4"(TS) output jack sending a mono output signal to whatever comes next in your signal chain

3. **POWER:** The MICROTRON IV runs on a 9V DC power supply center negative, draw 52mA

4a. **CV IN:** A 1/8" (TRS) jack used to connect an expression pedal. We recommend an expression pedal that employs a 10k linear pot.

4b. **CV OUT:** A 1/8" (TRS) jack used to pass envelope CV signal to other devices such as PHASOR III pedal.

5. MODE SWITCH:

- **LP (Lowpass Filter):** Passes all the signals BELOW the PEAK and attenuates signals above the peak.

- **BP (Bandpass Filter):** Passes signals only NEAR the PEAK and attenuates signals below and above the peak.

- **HP (Highpass Filter):** Passes signals only ABOVE the PEAK and attenuates signals below the peak.

6. RANGE TOGGLE SWITCH:

- **LO:** Sets the filter sweep to a LOW range for most rhythm guitar, bass guitar, and lower fret uses.
- **HI:** Sets the filter sweep to a HIGH range for accentuating harmonics or for up-the-neck or solo work.

7. **LEVEL:** Controls the output volume of the effected signal.

8. **PEAK:** Controls the filter audio response from very weak (most counterclockwise) to very strong (most clockwise).

9. **GAIN:** Controls the envelope of filter audio drive.

10. **EFFECT FOOTSWITCH:** Determines whether the MICROTRON IV effect is engaged or bypassed.

- **EFFECT LED:** When the LED is OFF, the effect is bypassed. When the LED is ON, the effect is engaged.

11. **UP-DOWN FOOTSWITCH:** Determines the direction of the envelope drive.

- **UP:** produces the more familiar "auto-wah" sound - like a heel-to-toe sweep on a wah-wah pedal.

- **DOWN:** produces a "down-swoop" sound - like a toe-to heel sweep on a wah-wah pedal.

- **UP-DOWN LED:** When the LED is OFF, the envelope drive is UP.

When the LED is ON, the envelope drive is DOWN.

In general, the LED should respond to the dynamics of your playing in either position.

In UP mode light should be responding from off to on.

In DOWN mode, the LED should be going from on to off

For more information on the MICRO-TRON IV please visit mu-tron.com

Sample Settings



Triggering & Calibration

For best results, the MICRO-TRON IV works best with passive pickups ranging from 7k Ohm to 20k Ohm resistance. We do not recommend active pickups unless there is an OBEL (on-board effects loop). Pickups with output below 7k should be in used with a clean boost pedal. LED triggering should be OFF to ON in the “UP” filter position and should dynamically respond to the sensitivity of the attack. In the “DOWN” filter position, the LED should be going from ON to OFF.

The MICRO-TRON IV features the new MU Opto-Mod technology which allows for internal, swappable optical daughtercards to completely change ADSR (Attack, Decay, Sustain and Release) characteristics of the filter entirely. These devices must be internally calibrated for optimal performance. Mu-Tron recommends that any modification and calibration of these devices be performed by qualified professionals only.

SAFETY INFORMATION

FOR YOUR PROTECTION, PLEASE READ THESE SAFETY INSTRUCTIONS COMPLETELY BEFORE OPERATING THE PRODUCT AND KEEP THIS MANUAL FOR FUTURE REFERENCE.

CAREFULLY OBSERVE ALL WARNINGS, PRECAUTIONS AND INSTRUCTIONS ON THE PRODUCT AND DESCRIBED IN THE OPERATING INSTRUCTIONS SUPPLIED WITH THE PRODUCT.

POWER SOURCE - CONNECT THE PRODUCT TO A POWER SUPPLY ONLY OF THE TYPE DESCRIBED IN THE OPERATING INSTRUCTIONS OR AS MARKED ON THE PRODUCT.

POWER-CORD PROTECTION - ROUTE THE POWER CORD SO THAT IT IS NOT LIKELY TO BE WALKED ON OR PINCHED BY HAVING OBJECTS PLACED ON IT, PAYING PARTICULAR ATTENTION TO THE PLUGS, RECEPTACLES, AND THE POINT WHERE THE CORD EXITS FROM THE PRODUCT.

WHEN NOT IN USE - UNPLUG THE POWER ADAPTER CORD OF THE PRODUCT FROM THE OUTLET WHEN LEFT UNUSED FOR A LONG PERIOD OF TIME. TO DISCONNECT THE CORD, PULL IT OUT BY GRASPING THE POWER ADAPTER. NEVER PULL THE POWER ADAPTER PLUG OUT BY THE CORD.

AC RECEPTACLE - CHECK TO MAKE SURE THAT THE AC RECEPTACLE HOLDS THE POWER ADAPTER PLUG FIRMLY AND SECURELY. IF THE POWER ADAPTER IS LOOSE, CONTACT YOUR ELECTRICIAN TO REPLACE THE DEFECTIVE AND UNSAFE AC CONNECTION.

FOREIGN OBJECTS - BE CAREFUL THAT FOREIGN OBJECTS AND LIQUIDS DO NOT ENTER THE ENCLOSURE THROUGH OPENINGS.

CLEANING - UNPLUG THIS PRODUCT FROM THE WALL OUTLET BEFORE CLEANING. DO NOT USE LIQUID CLEANERS OR AEROSOL CLEANERS. USE A DAMP CLOTH FOR CLEANING.

WARNING

TO PREVENT FIRE OR SHOCK HAZARD,
DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE.
ATTENTION: RISK OF SHOCK, DO NOT OPEN.



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT, WITHIN A EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER(OR BACK). NO SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

SERVICE

UNPLUG THE PRODUCT FROM THE WALL OUTLET AND CONSULT QUALIFIED SERVICE PERSONNEL WHEN:

- THE POWER CORD OR THE PLUG HAS BEEN DAMAGED.
- A SOLID OBJECT OR LIQUID HAS FALLEN INTO THE ENCLOSURE.
- THE PRODUCT HAS BEEN EXPOSED TO RAIN OR MOISTURE.
- THE PRODUCT DOES NOT APPEAR TO OPERATE NORMALLY OR EXHIBITS A MARKED CHANGE IN PERFORMANCE.
- THE PRODUCT HAS BEEN DROPPED, OR THE ENCLOSURE DAMAGED.

DO NOT ATTEMPT TO SERVICE THE PRODUCT BEYOND THAT DESCRIBED IN THE OPERATING INSTRUCTIONS. FOR ALL OTHER SERVICING, REFER TO QUALIFIED SERVICE PERSONNEL ONLY.

WARRANTY INFORMATION

MU-TRON OFFERS A ONE-YEAR LIMITED WARRANTY ON ALL OF OUR PRODUCTS.

IN THE UNLIKELY EVENT OF A MALFUNCTION DUE TO COMPONENT FAILURE OR DEFECTIVE WORKMANSHIP, CONTACT US AT MU-TRON.COM FOR RETURN AUTHORIZATION. WE WILL QUICKLY RESPOND WITH ASSISTANCE AND WILL THEN REPAIR OR REPLACE YOUR PRODUCT AND SEND IT BACK.

PLEASE NOTE THAT WE CANNOT REPLACE A PRODUCT UNTIL WE HAVE RECEIVED IT HERE AT THE FACTORY.

USER-GENERATED MALFUNCTIONS DUE TO DROPPING, INTENTIONALLY BREAKING, ATTEMPTING TO REPAIR DURING THE WARRANTY, OR OPENING THE PRODUCT WILL NOT BE COVERED BY THE WARRANTY. YOU MAY SEND THE UNIT TO US AND WE WILL GIVE YOU AN ESTIMATE REPAIR CHARGE, AND UPON YOUR AUTHORIZATION WE WILL REPAIR AND RE-CALIBRATE THE PRODUCT.

LIMIT OF LIABILITY REGARDING THE PRODUCT AND ITS POWER SUPPLY

MU-TRON ASSUMES NO RESPONSIBILITY FOR DAMAGE TO THE PRODUCTS, OTHER EQUIPMENT THEY MIGHT CONNECT TO BY ANY MEANS, OR ANY OTHER PROPERTY DAMAGE, INJURY OR DEATH RESULTING FROM IT'S USE OR MISUSE.

IT IS POSSIBLE THAT CONNECTING THE TRANSFORMER TO AN INCORRECT VOLTAGE MAY RESULT IN INJURY OR DEATH TO ANYONE OPERATING THE EQUIPMENT.

USE OF INCORRECT POWER SUPPLY WILL VOID WARRANTY.