

Macrodese[™]

USER MANUAL V.1



Envelope Filter

IMPORTANT: Powering up your All-Pedal Macrodose™.

The Macrodose™ cannot be powered by a battery. **CLEAN POWER IS REQUIRED!** If you hear an audible hum in the background there is a 99.9% chance that this is power supply related. Power supplies verified with the Macrodose™ were: Visual Sound OneSpot, Voodoo Labs Pedal Power 2, and Dunlop DC Brick.

IMPORTANT: EXPression pedal input: The EXPression Pedal input only supports TRS (stereo) plugs. Use of a mono plug in this input could potentially damage the unit. Please use standard, TRS plug equipped, expression pedals.

Using the controls: Familiarize yourself with the Macrodose™.

Before jumping in to the features, we recommend familiarizing yourself with the filter effect. Plug it in and turn the pedal on. For now focus on the LP-BP-HP switch, FREQUENCY, DEPTH and RESonance controls. Let's start by setting the BLEND control all the way up, and the VOLume control to a comfortable listening level.

Turn the DEPTH all the way down, and let a chord or a few notes ring on your guitar. Turn the FREQ control in either direction and hear the filter cutoff sweep through the frequency range. Turn the RES control, and switch between LP-BP-HP filter types. These sounds are essentially what the Macrodose™ does. The other controls are all about modulating the filter cutoff point in different ways. Turn the DEPTH control up to hear the modulation.

No matter the other settings on Macrodose™ these controls are always available and serve the same basic functions.

BLEND AND VOLUME CONTROLS

The BLEND control allows you to dial in the exact ratio of “Dry” to “Wet (Effect)” signal that you want to hear. With certain settings of the filter effects, you may hear some dry signal still present. This shows up especially in the LP setting with higher position of the FREQ knob.

SHAPE – MODE – WARP controls & EXPRESSION PEDAL

In MANual mode you can get a pretty good idea of what the Macrodose™ can do. While using the LFO SHAPES (settings 3-9 on the SHAPE control), the WARP knob controls the speed. You'll see the large LED blinking in time. Turn up the DEPTH knob to modulate the filter with the LFO.

BASIC FUNCTIONS

Although the SHAPE and MODE controls each have eleven different positions, the SHAPE control has three similar groupings, and the MODE control has four. Although there are many variations, the Macrodose™ essentially has nine different functions. * denotes tap tempo.

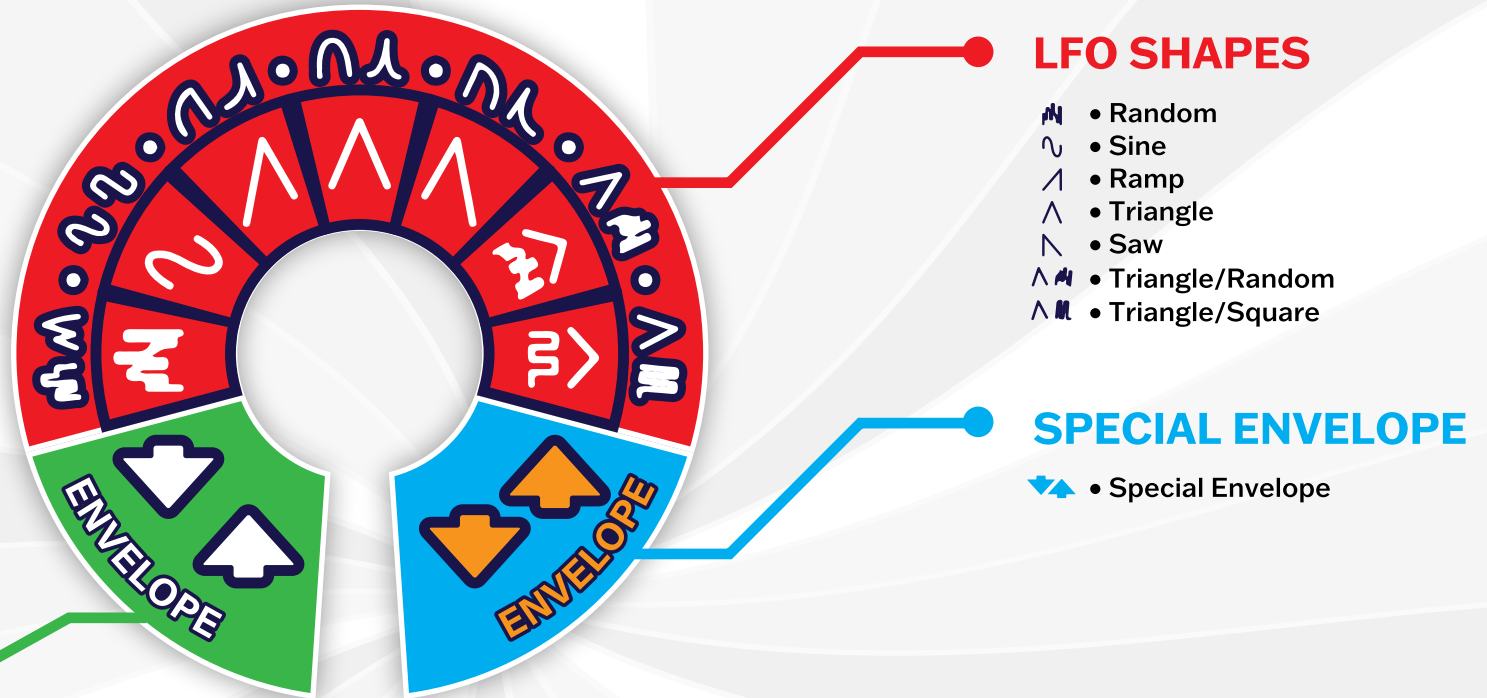
- ANALOG ENVELOPE (FORWARD AND REVERSE)
- *PIXELATED ENVELOPE
- *ENVELOPE TRIGGERED LFO
- MANUAL ENVELOPE SPEED CONTROL (FIXED ENVELOPE GAIN)
- ENVELOPE SPEED CONTROL (FIXED MINIMUM SPEED W/ VARIABLE ENVELOPE SENSITIVITY)
- *STEP FILTER (BASED ON THE 7 LFO SHAPES)
- *TAP TRIGGERED LFO
- MANUAL LFO
- *TAP TEMPO LFO W/ WARP



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THREE SHAPE GROUPINGS

EACH GROUP FUNCTIONS IN SIMILAR WAYS



SHAPE- This is where you start. There are three main groupings here. ANALOG ENVELOPE (white arrows) LFO (white on pink) and SPECIAL ENVELOPE (Orange arrows.) It's helpful to consider this the main waveform control, and think of the other controls as a modifiers of the SHAPE.

ANALOG ENVELOPE

Settings supersede all WARP and MODE control settings. The two arrows represent a simple forward and reverse envelope. The EXPression pedal, WARP and MODE controls have no effect on these settings.

LFO SHAPES

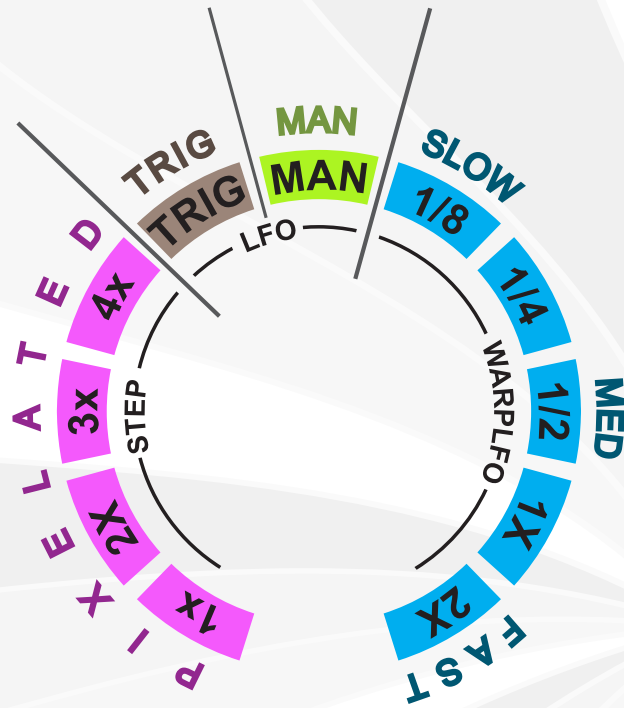
Settings represent seven different LFO shapes. WARP and MODE controls serve various functions. The EXPression pedal adds extra control, or changes functionality slightly.

SPECIAL ENVELOPE

Settings allow your playing dynamics to control the filter in different ways. WARP and MODE controls serve various functions. The EXPression pedal has no effect on these settings.

FOUR MODE GROUPINGS

EACH GROUP FUNCTIONS IN SIMILAR WAYS



SPECIAL ENVELOPE FUNCTIONS

- PIXELATED ENVELOPE FOLLOWER
- ENVELOPE TRIGGERED LFO
- ENVELOPE MANUAL LFO SPEED
- ENVELOPE LFO SPEED VARIABLE (SLOW/MED/FAST)

LFO SHAPE FUNCTIONS

- STEP FILTER (TAP TEMPO)
- TAP TRIGGER LFO (TAP TEMPO)
- MANUAL LFO (TAP TEMPO)
- WARP LFO (TAP TEMPO)

THE MODE KNOB DOES NOT FUNCTION WHEN ANALOG ENVELOPE SHAPE IS SELECTED.

MODE (& TAP/HOLD SWITCH)- This allows you to use the LFO and SPECIAL ENVELOPE shape settings in different ways. The four main groupings are STEP, TRIGGER LFO, MANUAL LFO and WARP LFO. The WARP and TAP/HOLD SWITCH serve various different functions depending on the MODE setting.

STEP

- Settings are all essentially sample/hold filter effects.
- Select LFO SHAPE for STEP FILTER (based on selected LFO shape)
- Select SPECIAL ENVELOPE for PIXELATED ENVELOPE.

TRIGGER LFO

- Select LFO SHAPE for a single cycle TRIGGERED LFO. (press TAP/HOLD switch twice to trigger)
- Select SPECIAL ENVELOPE for ENVELOPE TRIGGERED LFO.

MANUAL LFO

- Select LFO SHAPE for MANUAL LFO speed control. (WARP knob controls speed.)
- Select SPECIAL ENVELOPE for MANUAL ENVELOPE SPEED CONTROL. (WARP knob controls speed range.)

WARP LFO (SLOW – MEDIUM – FAST)

- Select LFO SHAPE for TAP TEMPO LFO W/ WARP. (WARP knob changes warps LFO shape)
- Select SPECIAL ENVELOPE for ENVELOPE SPEED CONTROL. (WARP knob controls envelope sensitivity.)



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SHAPE AND MODE CHART

See the chart below for a better understanding of what each control does depending on the SHAPE and MODE settings.

CONTROL MATRIX	LFO SHAPES			SPECIAL ENVELOPE			ANALOG ENVELOPE
	TAP	WARP	EXP	TAP	WARP	EXP	TAP/WARP/EXP
STEP/PIXELATED	TAP TEMPO 1X • 2X • 3X • 4X MULTIPLIERS	NUMBER OF STEPS THRU LFO SHAPE*	CONTROLS STEP RATE (SUPERSEDES TAP)	TAP TEMPO 1X • 2X • 3X • 4X MULTIPLIERS	CONTROLS ENVELOPE SENSITIVITY	N/A	N/A
TRIGGER LFO	TRIGGERS ONE FULL CYCLE OF LFO WAVESHAPE	SETS START/END POINT OF LFO SHAPE	MAPS LFO SHAPE TO EXP. PEDAL (SUPERSEDES TAP)	TAP TEMPO 1X RATE ONLY	CONTROLS ENVELOPE SENSITIVITY	N/A	N/A
MANUAL LFO	HOLDS/STOPS LFO SHAPE	MANUAL LFO SPEED CONTROL	CONTROLS LFO SPEED (WARP CONTROLS RANGE)	HOLDS LFO SPEED AT CURRENT RATE	ADJUSTS MINIMUM & MAXIMUM SPEED	N/A	N/A
WARP LFO (SLOW - MED-FAST)	TAP TEMPO 1/8 • 1/3 • 1/2 1X • 2X MULTIPLIERS	VARIES WAVESHAPE OF LFO	MANUAL LFO SPEED CONTROL (SUPERSEDES TAP)	HOLDS LFO SPEED AT CURRENT RATE	CONTROLS ENVELOPE SENSITIVITY	N/A	N/A

*Warp knob function in LFO SHAPE / STEP MODE settings:

- Random- Basically noise or random sample/hold. Since noise does not have an actual frequency, like a fixed waveshape, the warp knob has no effect.
- Sine, ramp, triangle saw- the wave shape is sampled at a percentage of the step rate. From ~1% to 50%.
- Triangle/random & Triangle/square- The warp knob blends between a step triangle wave and random/square.

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