

T-120 *DELUXE* *VIDEOTAPE* *ECHO V2*

Instruction Manual

TRAILS ON/OFF

Trails - repeats that continue to echo out after you disengage the effect, can be turned on or off by entering alt mode (by holding down the 'Engage' footswitch while the effect is active) and then pressing the 'Tap/Swell' footswitch.

The indicator LED will blink 3 times red if you have toggled trails ON, or 3 times yellow if you've turned them OFF.

Your selection is saved to memory and will remain the same even after power-cycling the unit. The factory setting is 'off'.

STEREO OUTPUT

To utilize the stereo output of the T-120 DLX v2, use a TRS to dual TS 'Y-Splitter' cable (if the next pedal in your chain has separate left and right inputs, or if routing to two different pedals), or a simple TRS cable if the next pedal in the chain has a TRS stereo input jack.

The stereo output is similar to many stereo chorus pedals in that it creates a wide depth of field. It does not perform stereo effects such as ping-ponging, however.

POWER

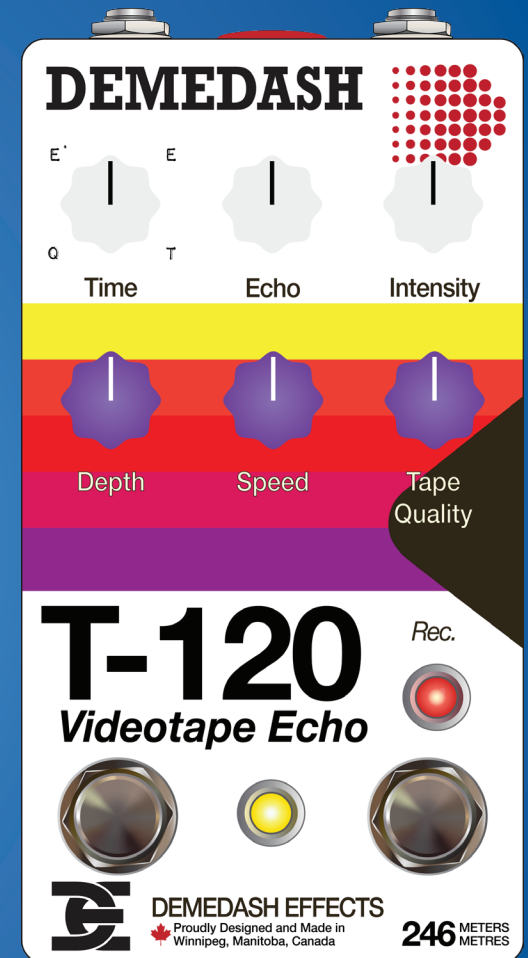
9VDC, center-negative 2.1mm adapter required (not included)

100mA current consumption

No battery compartment.



Made by hand,
Tuned by ear.
Winnipeg, Manitoba, Canada



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EFFECTS

MAIN CONTROLS

TIME

Sets the duration of time before each recorded note is played back, as well as the amount of time between each subsequent repetition of the note.

At minimum, about 60 ms of delay time is available. Setting it here allows you to use the primary & secondary LFO controls (Depth, Speed, Glide, Randomize) to create a number of different chorus and vibrato textures.

At maximum, approximately 1200 ms of delay time is available, though settings above noon may contribute to a raised noise floor.

DIVISIONS (TIME'S ALT PARAMETER)

4-Way selector between the following tap division settings, evenly spaced from fully counter clockwise to fully clockwise:

1. Quarter (Q) 2. Dotted Eighth (D/E) 3) Eighth (E) 4) Triplet (T)

When you are in alt parameter mode, as you turn the div control, the indicator LED will blink red once each time you update the selection to a new tempo division.

MIX

Sets the balance between the delayed (wet) signal and the unaffected (dry) signal. When fully counterclockwise, only the dry unaffected signal will be audible. As you turn this knob clockwise, the volume of the dry signal will decrease as the volume of the wet signal increases. When fully clockwise, only the delayed signal will be audible.

INTENSITY

Sets the volume of the wet signal as fed back into the delay input. This increases or decreases the amount and duration of repeats that echo out.

Set high enough, self-oscillation can occur. In this case, simply turn Intensity to zero for a moment to let the regeneration die down.

TAPE QUALITY

Raises or lowers the bandwidth of the delayed signal.

At low settings, echos degrade further and further with each repeat, reducing fidelity and allowing the playback to float on top of your playing.

MODULATION CONTROLS

DEPTH

Varies the amount of pitch-shifting vibrato induced in the recorded signal. More clockwise = more pitch swing. Higher delay times and faster modulation speeds can also lead to wider pitch swing.

GLIDE (DEPTH'S ALT PARAMETER)

Controls how smooth/jittery the modulating waveform is.

Set fully counterclockwise, the pitch will jump to different values (random levels if using a fully random wave, a square wave if using a fully periodic wave).

Set fully clockwise, the pitch will glide smoothly up and down (random slopes if using a fully random wave, a triangular wave if using a fully periodic wave). This is the factory setting.

In between, you will have a waveform that glides quickly to its target value and sits there before gliding to the next one.

SPEED

Sets the rate of pitch-shifting vibrato in the recorded signal.

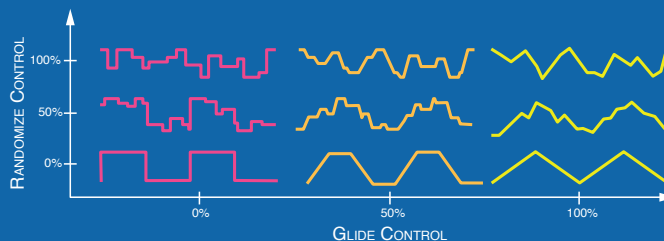
Low settings yield an uncalibrated wavering, while higher settings can lead to anything from a light flutter to the sound of a tape being eaten.

RANDOMIZE (SPEED'S ALT PARAMETER)

Controls the shape of the modulating waveform. Mix between fully periodic (square/triangular) and a completely randomized (continuously varying levels/slopes).

This knob offers a continuous spectrum of blending options, so there is a huge variety of shapes to play with.

Slow, fully random modulation is an especially nice touch when trying to dial in the sound of a mid-90's wedding video, as one often does. Factory setting is 50% randomization.



FOOTSWITCHES

ENG/ALT (RIGHT FOOTSWITCH)

BYPASS/ENGAGE

While the effect is bypassed, press to engage the effect. When engaged, press to bypass the effect. When in bypass, you can also press and hold this switch (for about 1 second or more) to 'momentarily' engage; returning to bypass upon release.

ALT PARAMETER ACCESS

While the effect is engaged, hold down the 'Engage' footswitch. Once the indicator LED turns yellow, you are in alt mode.

Continue to hold the footswitch down and turn the knob with the secondary parameter you wish to adjust.

Once you release the footswitch and the indicator LED turns back red, any modifications you made to the alternate parameters are saved so that next time you turn on your T-120, they'll still be just the way you set them.

Primary & alt parameters on these knobs are independant - changing a knob's position while in alt mode will not affect the value of the primary parameter you previously had set. That said, putting the knob back to the position it was before you adjusted the alt parameter is good practice, as it ensures that the next time you power up the pedal, the primary setting read from the knob position is what you want it to be.

TAP/SWELL (LEFT FOOTSWITCH)

TAP TEMPO

Tap the left-hand footswitch two or more times to enter a tempo. The time between the last two taps is what will be set. The maximum delay time is about 1200ms, so if the tap interval exceeds that, then it will be divided in half, giving you a double time echo that remains aligned with the desired rhythm. Divisions are applied beforehand, so as long as your divided tempo is under 1200ms, you'll get what you expect.

Once a tempo is entered, the indicator LED will blink at the entered rhythm. Tempos can be entered in bypass or engaged modes.

ECHO SWELL

To engage a swell - that is, to momentarily set the repeats of the delay to maximum intensity - hold down the 'Tap/Swell' footswitch.

You can do this both while the effect is engaged and while the effect is bypassed if you'd like to momentarily activate the effect and add a swell to a note.