



ECHO-X – USER MANUAL

Congratulations on buying the Echo-X digital delay - another unique effects pedal from Rainger FX!

This tiny delay powerhouse of a pedal is crammed with features; foot-controlled delay speed or feedback amount, echo 'send' mode - for spot echoes - and a brand new gated delay facility, all in a Rainger FX custom mini-pedal enclosure!

The repeats are voiced for musicality – tonal filters gently rolling off the unwanted extremes for maximum character over long oscillations.

Supplied with an 'Igor' foot controller, we are incredibly proud of this effects pedal, and hope you're as inspired using it as we are!

CONTROLS

LVL; This adjusts how loud the repeats are. (Note – the dry signal is always present).

RTE; This knob controls the speed of the repeats (slowest is around 550ms).

FBK; This adjusts how many repeats are heard, with runaway oscillation easily attainable.

INPT; This knob controls the instrument input volume. Set this so that the 'OVERLOAD' LED only comes on occasionally – that way you'll avoid any unwanted distortion in the clean signal, while allowing the delay gate to stay open for as long as possible.

VOL; This adjusts the overall volume of the pedal.

GATE; This switch engages the Echo-X's gated echo facility. Repeats should stay the same, but be cut off when your note ends.

SEND; This switch (on the bottom end panel) diverts the guitar signal to the delay circuit only when Igor is pressed. Release Igor, and the guitar carries on dry – with echoes carrying on however the 'FBK' knob is set. This switch over-rides the 'Rate/Fbk' switch (see over).

RATE/FBK; This decides whether the Igor controls the echo speed (increasing from wherever the 'rate' knob is set), or the amount of feedback (increasing from wherever the 'fbk' knob is set).

ON/OFF; This switches the pedal on or off (the pedal has true bypass).

SOCKETS

Input/Output; These are for 1/4" mono jackplugs.

Minijack socket; this is to be used with a regular Rainger FX Igor controller. The Echo-X can respond to some 'CV in' messages though.

DC in; Connect 9v power supply unit here (centre earth, sleeve +9v). The Echo-X uses about 16mA.

NOTE: Nothing will be damaged if the 'Overload' LED comes on a lot.

NOTE; The minijack socket input is not designed for use with CV, however try it out – with the 'gate' switch in, feedback up..... (If you record anything interesting – send it to us!!)

If you have any comments or questions please do get in touch at david@raingerfx.com ,

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