

# STEREO DELAY RAINDROPS 矢筒

Raindrops is a Hybrid Delay/Pitch Shifter/Reverb pedal that takes the concept of short echos on a different level. It is equipped with multiple delay stages and different chips and you can choose between 3 different play modes, where in each one you can have a whole new experience and alternative soundscapes. You can achieve from simple short echos, to long, dirty and lo-fi delays and from simple pitch shifting bursts to extensively lasting reverbs.

## MAIN PAGE CONTROLS

These are the hands on controls, that you can access without holding down the shift.

### Time Knob

Delay time from 50ms up to about 1 second.  
After 700ms, the repeats will start becoming LO-FI.

**NOTE:** when used as a stereo output, the R channel will have an offset compared to the L channel, so as to achieve the stereo spread effect.

### Mix Knob

Controls the Dry/Wet balance of the effect.  
At 50% there is a 1:1 mix ratio.

### Feedback Knob

Set the Delay's Feedback or the Number of the repeats.  
This is the main feedback control, but there are actually 2 feedback stages:  
One right after the delay line, called **"Main Feedback"** & the other is located after the effects of the delay lines (Filter and Pitch Shifter) called **"Post Feedback"**.

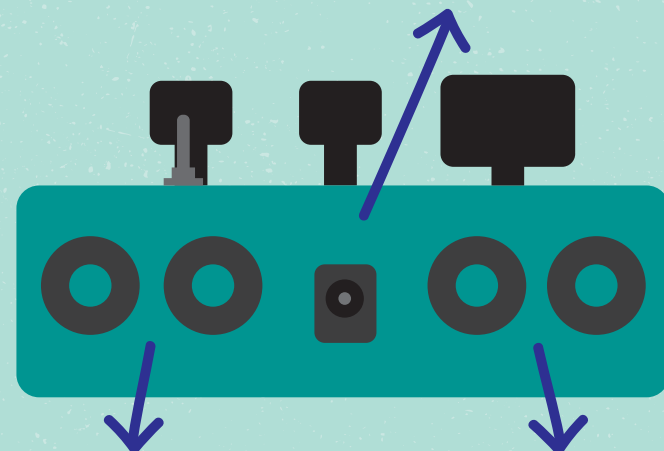
### On/Off Indicator

### ON footswitch

Set the effect ON or OFF.  
Also while holding the footswitch down, it works as a SHIFT function button.



9VDC center pin negative  
standard effect pedals power



### Input

Audio, line or fretted instrument input.  
Accepts up to 2Vpp levels.

### Output

Audio out, send to an amp, mixer or monitor.

### MODE Toggle Switch

This changes which parameter the Control knob affects.  
For more info check on the Algorithms section (page 3).

### Control knob

Depending on the algorithm and the Mode switch position, this controls different parameters each time.  
For more info check on the Algorithms section (page 3).

### Delay Time Indicator

### Tap footswitch

Tap tempo over the Delay Time.  
When holding the TAP and the ON buttons down for 3 sec, you will save the current Algorithm's state.

## GETTING STARTED

- A. Send an Audio signal or an instrument to the input (mono signals it's better to be send to the R INPUT)
- B. Connect the Output to an Amp or a Monitor (mono signals should to be pulled out of the L OUTPUT)
- C. Power the effect by using a 9VDC center pin negative power adapter (specialized for effect pedals)
- D. Press the ON footswitch to enable the effect
- E. Press both footswitches to change algorithms
- F. To engage the secondary functions (SHIFT page) press and hold down the ON footswitch. While this is on hold, you have access to different parameters
- G. In order to save the current algorithm's settings, press and hold both footswitches for 3 seconds

## MAIN PAGE



## SECONDARY CONTROLS



These are the **SHIFT** controls, that you can access while holding down the ON button. Remember, in order to store this so that the pedal remembers them the next time you power it, you must press and hold both footswitches for 3 seconds!

### TIME = EFFECT GAIN

Controls the level of the signal going into the effect's line. By default, this should be set at 50%, but in many cases, for example if you plug a hot signal instrument, you might need to set this lower, so that the effects do not peak.

### FEEDBACK = POST FEEDBACK

This will control the amount of feedback that is send after the effect's section. For example, feedbacks after the Pitch Shifter will introduce the shimmer effect. Be carefully though, as this feedback control and the main one will add up and self-oscillation can be produced.

**NOTE: On the reverb's algorithm, this control is deactivated.**

### MIX = LOW PASS FILTER

This controls the Cut Off of a 1-pole Low Pass Filter.

### CONTROL = TAP DIVISIONS

This is actually a multiplication over the tap tempo. It has fixed areas over 4 selections and it's x1, x2, x3, x4.

### MODE toggle switch

Tails ON/OFF ( ON = 1, OFF = 2). By setting this to ON, will allow the repeats of the delay to be kept on even when the effect is set to by pass.

## ALGORITHMS

There are 3 different algorithms offered into RAINDROPS.

1. A modulated delay
2. Pitch shifted delay
3. Large reverb

In order to change between Algorithms, hold down the SHIFT footswitch and press TAP.

On each algorithm you can save a single preset, by holding down both footswitches for 3 seconds.

This preset will be stored and each time you power off the effect, or you cycle through the algorithms, you will have these settings as default.

### 1. MODULATED DELAY

A Modulated Delay is simply the effect where the Delay Time is modulated by an LFO.

On this algorithm the MODE switch + CONTROL knob has the following functions:

MODE = 1 → CONTROL = LFO RATE

MODE = 2 → CONTROL = LFO AMOUNT

### 2. PITCH SHIFTED DELAY

This algorithm has a Pitch Shifter as its Post Effect. The Pitch Shifter will control only the Wet signal.

The Post Feedback can have a drastic effect here, as each repeat will be shifted again.

On this algorithm the MODE switch + CONTROL knob has the following functions:

MODE = 1 → CONTROL = PITCH (from 0 to 12 semitones - none quantised)

MODE = 2 → CONTROL = PITCH SHIFT AMOUNT

### 3. LARGE REVERB

Additionally to the Delay signal, a long tailed reverb is added .

On this algorithm the MODE switch + CONTROL knob has the following functions:

MODE = 1 → CONTROL = REVERB DECAY

MODE = 2 → CONTROL = REVERB MIX

# STEREO DELAY

# RAIN DROPS

# 矢筒

## SPECIFICATIONS

- CMOS Buffered Bypass
- 9VDC center pin negative supply 150mA at least
- True stereo IN/OUT
- All IN/OUT are TS unbalanced 6.4mm jacks
- dimensions: 14x10x5 cm
- weight: 0,525 kg

dre:adbox

**Circuit:** Analog signal, hybrid delay, Digital reverb

**Bypass:** Buffered opamp