
dedalo
alu9
ALIASER

Congratulations, you got the ALU9!

Features:

- 9 bits µ-control sample rate reducer
- OSC Mode: 32 sequences of oscillation
- Trigger Mode with cycles up to 16 steps
- Random Modes
- Sample rate modulation via control switch
- Internal blend of filtered dry sound
- True Bypass

Aliasing

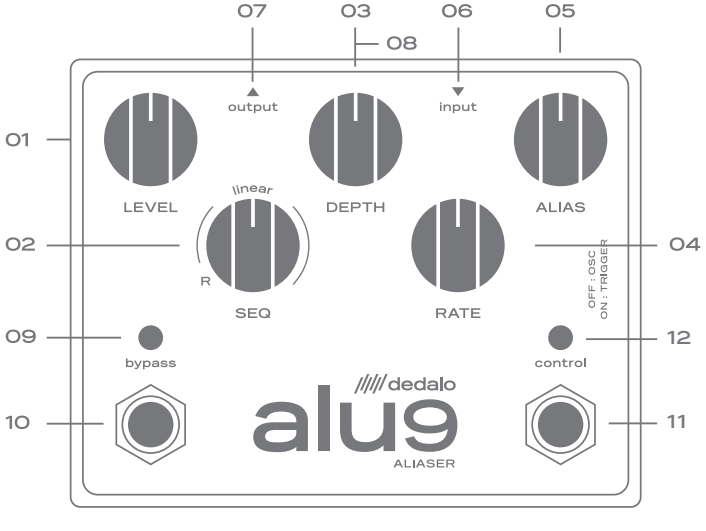
The aliasing phenomenon consists in the aparition of phantom frequencies non-harmonicaly related (“alias”), when audio is digitized at low sample rates. Also called downsampling or redux, the lower the sample rate, or the higher the frequencies present in the signal, the more dramatic the effect results.

Operation

The core of the ALU9 is a u-controller that samples audio in 9 bits resolution, and allows to reduce the sample rate to remarkably low values, achieving intense transformations of the sound. The sample rate can be modified in two ways: using the low frequency numerical oscillator, which generates arpeggios based on alias tones; and by the trigger, which generates an alias change every time a new note is detected. Both modes can be set at random, which introduces a random factor into the modulation. The low bit resolution of the audio adds to the characteristic sound of this pedal.
To achieve a sound that is also musical and intelligible, the ALU9 adds back a proportion of dry audio, carefully filtered to enhance the depth of the effect.

Recommendations

Given the nature of the effect, the ALU9 responds better to simple signals with few prominent frequencies, so avoid applying it to complete or distorted chords, although it can be used satisfactorily on all types of instruments. Also, using distortion after the ALU9 can mask part of the effect.



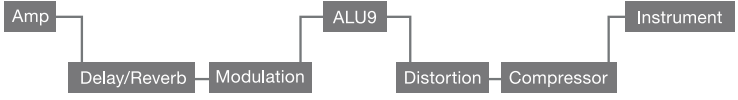
Controls

01 - LEVEL Output level of the effect
02 - SEQ ***Double function.***
• ***OSC Mode:*** Select between 32 numeric sequences of oscillation.
• ***Trigger Mode:*** The alias will change each time a new note is detected, in a cycle fashion. Select the amount of steps, from 2 to 16, that completes said cycle.
At minimum (setting R) the Random mode is activated. The OSC and Triggers follow a non linear random pattern.
03 - DEPTH Depth of both the OSC oscillation range and the variation range of the trigger mode.
04 - RATE Speed of the OSC.
05 - ALIAS Sample rate, varies from 11.36Khz to 488hz at the max setting. The modulation options operate with this value as its top sample rate. If the DEPTH is zero, this will be the fixed sample rate that will effect the sound.
06 - INPUT Effect input, connect your instrument here.
07 - OUTPUT Effect output, connect your amplifier here.
08 - DC 9V Power supply input, connect your dc adapter here.

Controls

09 - LED Lights up when the effect is engaged.
10 - TRUE BYPASS Turns on/off the effect. The true bypass switch keeps your sound intact when the effect is off.
11 - CONTROL *Double function.* Optical switch with this functions:
• ***By keeping the switch pressed:*** It makes a sweep on the sample rate from the amount set by the ALIAS knob. If this knob is set near max, the sweep will overflow, resulting in a wide jump back to the lower alias settings.
• ***By tapping on the switch:*** It toggles between OSC (LED off) and Trigger (LED on) modes.
12 - LED Control mode indicator. The led lights up when Trigger mode is engaged. Also, it blinks when changing the selection on SEQ control.

Order in the effects chain



Technical specifications

Model 2017 – ALU9
True Bypass
Input impedance: 750Kohm
Power Input: DC 9v center negative (minimum 100mA)
Dimensions: 12cm x 9.4cm x 5.4cm
Weight: 475gr

Use and care of the pedal

• Use only regulated 9v dc adapter, with negative center polarity. In no way should be connected to 220V or adapters of other kinds.
• Avoid dropping, hitting or exposing the pedal to extremes of humidity or temperature.
• To clean the pedal, use a dry cloth.
• Do not remove the protective silicone legs, they protect the pedal from shocks and external pressures.

Problems and solutions

• *The LED lights up but there is only sound when the effect is in bypass*:
Make sure the instrument is properly connected to the INPUT jack, and the amplifier to the OUTPUT jack.
• *The indicator LED doesn't light up*:
The pedal is not connected to an appropiate DC adapter.
• *The indicator LED doesn't light up, and when connecting the pedal, the power supply/other pedals turn off*:
Check that the DC plug doesn't have metalic parts that may touch the case of the pedal.
• *The effect is too weak, or the sound is unduly saturated*:
Use an appropriate DC adapter. If the pedal is connected in a loop, check its send and return levels.
• *The pedal makes a low pitched hum*:
Feed the pedal with a regulated dc adapter of sufficient amperage
• *The sound cuts out intermittently*:
Check the condition of the input and output cables.

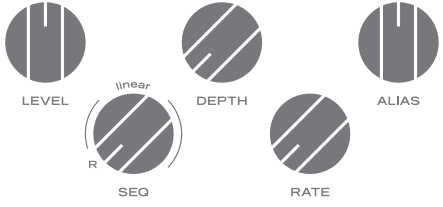
Terms of warranty

• The warranty is only valid for the original owner for 2 years from the date of purchase.
• The warranty must be requested on the trade where the pedal was acquired.
• DEDALO ensures that the pedal is free from defects in materials and workmanship.
• DEDALO will choose to repair or replace any faulty piece on the pedal at its sole option.
• Failures due to accident or misuse are not covered in the warranty.
• DEDALO is not responsible for any loss or damage the user may suffer as a result of using the pedal.
• Power adapter not included in the warranty.
• In this pedal there is no piece that could be repaired by the user. The repair or modification by personnel not authorized by DEDALO will void the warranty.
• Shipping or other fees that may arise, are not covered by warranty.

Register your pedal!
www.dedalofx.com.ar/register

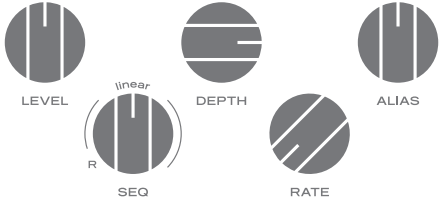
Sound Settings

Sound Settings



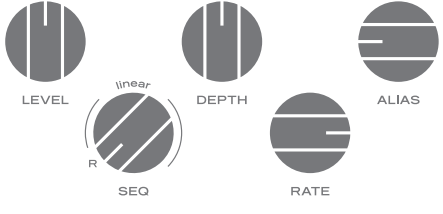
Fixed Sample Rate

Sound Settings

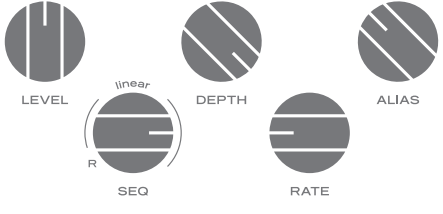


Trigger

Use Trigger Mode

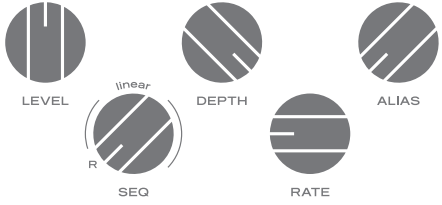


Weird oscillation



Arpeggio

Sound Settings



Random alias
Use Trigger Mode

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