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The O68 is a synthesis oscillator that transforms your instrument into a source of warm, dense, and aggressive sounds, taking your tone to a whole new territory.

Custom-algorithm digital oscillator

Analog waveshaper

Monophonic: detects individual notes

Internal compressor for maximum sustain

For guitar and bass

True Bypass

USER MANUAL

DEDALO O68 v2 Rev 21/03/2025

Congratulations, you got the O68!

The O68 is the result of our experience in sound design, inheriting the technology from the renowned Byte and Pixel pedals. This audio-controlled oscillator is ready to work with bass, guitar, or any monophonic signal, offering a versatile sound full of character.

Its operation is based on precise filtering of the original signal, isolating the fundamental frequency so that a microcontroller can generate a pulse wave (PWM) in three registers: the original frequency, one octave up, and one octave down.

But that's not all. The O68 incorporates an analog waveshaper that combines these signals and transforms them into a rich and powerful waveform, with a warmth reminiscent of a classic sawtooth.

The Shape control gives you the power to shape the sound:

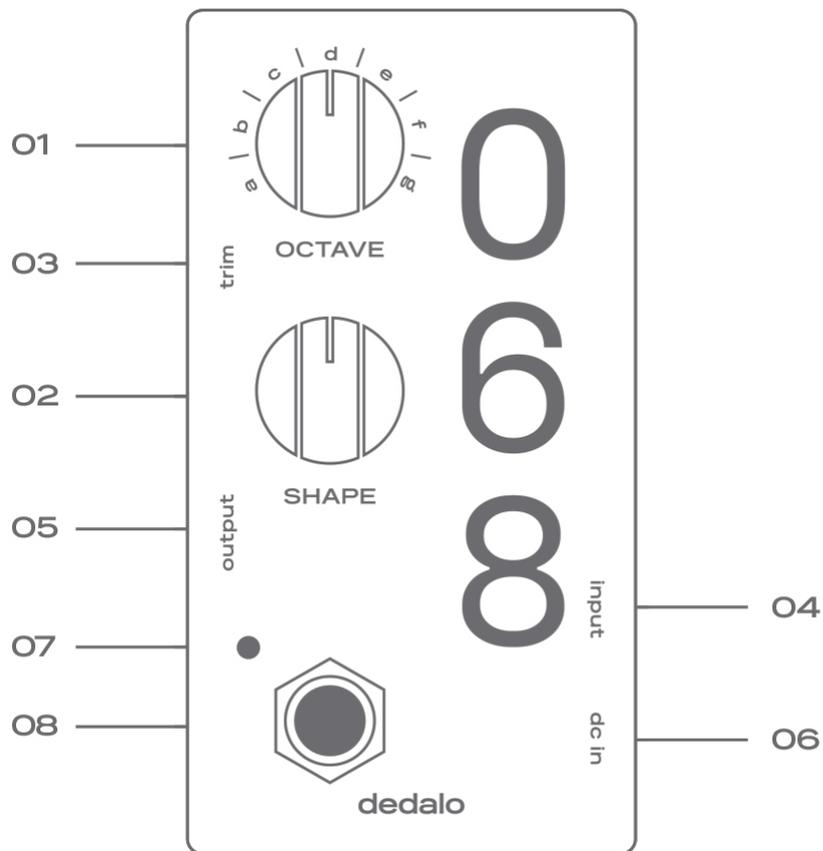
- It prevents the pedal from syncing to unwanted octaves.
- It modifies the harmonic structure to create more expressive and dynamic sounds.

If you push the control to the extreme, the O68 automatically adjusts the octave, giving you even more depth and sonic variations.

Additionally, you can choose from several modes:

Modes **(b)** through **(g)**, which allow you to play with different octave combinations.
Mode **(a)**, a square wave fuzz with threshold control to achieve an incredible Gated Fuzz.

With the O68, you have a pedal designed to explore new sonic horizons, bringing power, warmth, and a unique personality to your sound.



CONTROLS

01 - OCTAVE: Oscillator octave combination:

- a) Gated fuzz
- b) One octave down
- c) Unison
- d) One octave down + unison
- e) One octave down + one octave up
- f) Unison + one octave up
- g) One octave down + unison + one octave up

02 - SHAPE: Changes the harmonic texture of the sound by modifying the shape of the synthesized waveform. Octave shifts may occur when set too high.

Technically, Shape controls the width of the generated digital pulse, and when it exceeds the signal period, an octave shift occurs.

In mode (a) Gated Fuzz, it controls the detection threshold (gate).

03 - TRIM: -side control- Output volume

04 - INPUT Effect input, connect your instrument here.

05 - OUTPUT Effect output, connect your amplifier here..

06 - DC 9V Power supply input, connect your dc adapter here.

07 - LED Lights up when the effect is engaged.

08 - TRUE BYPASS Turns on/off the effect.

The true bypass switch keeps your sound intact when the effect is off.

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 appropriate 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 metallic 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.

SPECIFICATIONS

Powered by 9v DC adapter, center negative (not included)

Current draw: 40mA

Input impedance: 750Kohms

Size: 11cm x 6.5cm x 5.5cm

Weight: 334grs

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



Buenos Aires, Argentina

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