dedalo

# fugu

DUAL ANALOG CHORUS

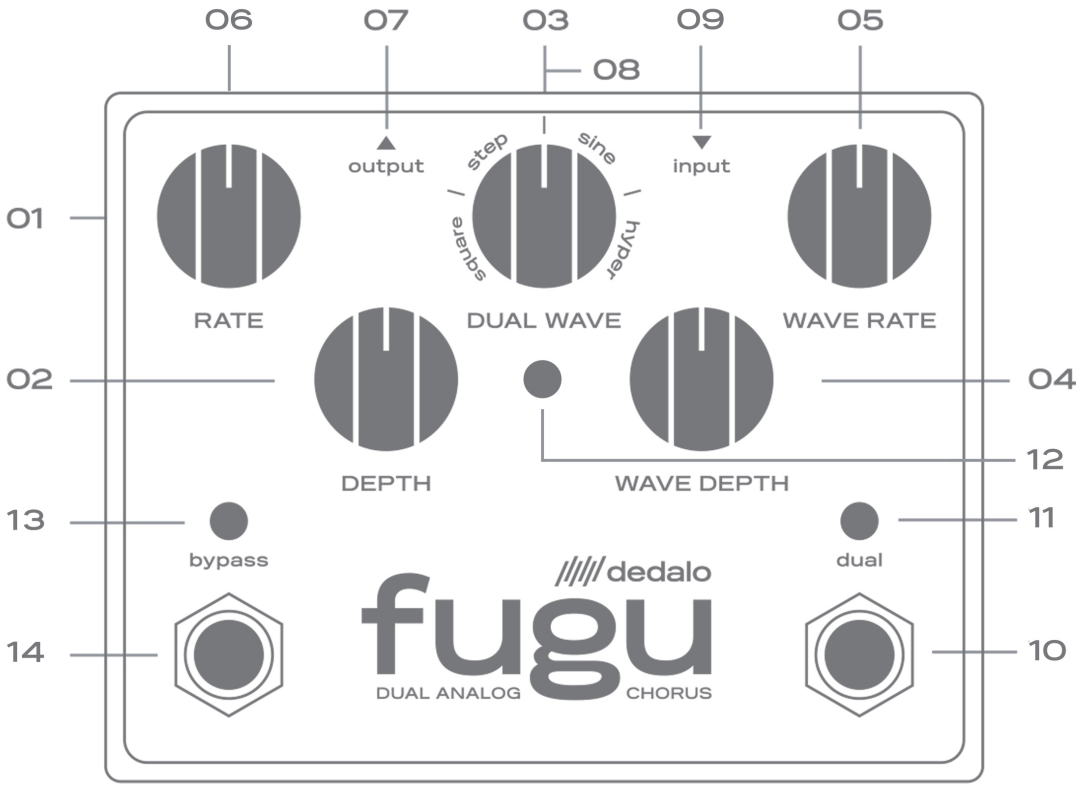
Analog Chorus and Vibrato with BBD technology
Digital control of waveforms and modes
Double knobs for speed and depth
Acceleration and effect change with optical switch
Tone adjustment on side trimpot
Oscillation indicator LED
True Bypass

## USER MANUAL

FUG3 Rev 19/02/2024

## Congratulations, you got the Fugu!

Its analog BBD circuit provides the mythical essence of the chorus, and is taken to the limits thanks to the digital control of the waveforms. Expand your sound into an ocean of vibratos, pitch variations, and dual oscillations, and return to the comfort of a smooth wave of modulation with a simple tap.




## Operation

The FUG-3 provides the ability to toggle between two sounds, corresponding to the left and right oscillators, with their independent speed and depth controls, simply by tapping on the control switch. The left one is the classic BBD chorus effect, and the right one provides by default the vibrato effect (analog and true-pitch!), although different modes can be selected (*), and you also have the possibility to choose between four waveforms. The Dual LED indicates which of the effects is active.

## Controls

**01 - RATE**: Rate of oscillation of the left LFO

**02 - DEPTH**: Modulation depth of the left LFO. The waveform of this oscillator is fixed to hypertriangular.

**03 - DUAL WAVE**: Selects the waveform of the right oscillator:
- **Hyper**, to obtain the classic sound of the original choruses.
- **Sine,** for deeper tape-style modulations.
- **Step,** for revolving shifts of tides
- **Square,** for robotic and binary changes of pitch.

For optimal operation, position the knob to the center of the desired mode.

**04 - WAVE DEPTH**: Modulation depth of the right LFO.

**05 - WAVE RATE**: speed of the right LFO.

**06 - TONE** *-side control-* overall tone adjustment. Counterclockwise the sound turns brigther and clockwise makes the sound darker, with the neutral eq in the center position.

**07 - OUTPUT** Effect output, connect your amplifier here.

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

**09 - INPUT** Effect input, connect your instrument here.

**10 - DUAL**: function optical switch. A TAP on it toggles between left and right oscillator, activating the corresponding effect.
**- Speed-Up**: sIf you keep the switch pressed, the currently active oscillator will gradually increase its speed to maximum. Releasing it will smoothly return the speed to normal.
**- Modes** The operation mode of the right oscillator is selected with the DUAL WAVE control, with the following options:
**Chorus:** (Hyper position): a second classic chorus
**Dual Chorus:** (Sine position): combining the two oscillators (as in the FUG-2)
**Vibrato:** (Step position): Normal vibrato of a single oscillator (default factory mode)
**Dual Vibrato:** (Square position): combining the two oscillators

**Mode selection**: the right oscillator must be active and the WAVE RATE control in the maximum position. Keep the control switch pressed, after 6 seconds the LED will begin to flash, indicating that the pedal is ready for mode selection.

If the control is not moved, no change will be done. Once the selection is made, release the control switch and the mode will be saved in the internal memory of the pedal.

**11 - LED** active LFO indicator. Lights up when the right oscillator is engaged.

**12 – LED** speed indicator if the active LFO

**13 - LED** Lights up when the effect is engaged.

**14 - TRUE BYPASS** Turns on/off the effect. The true bypass switch allows your sound to remain 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 a working DC adapter.
• *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 correct condition of the 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

dedalo

Buenos Aires, Argentina

# APPENDIX

## Technical specifications

**Modelo 2022 – FUG-3**

True Bypass
Input impedance: 700Kohm
Power supply: DC 9v center negative (minimum 100mA)
Power consumption: 75mA at 9v DC
Dimensions: 12cm x 9.4cm x 5.4cm
Weight: 480gr
Delay time: 2.56ms to 10ms

*Trimpots:*
RV1: Bias (*factory set – do not change*)
RV2: Output level of the effect
RV3: Clock calibration (*factory set – do not change*)
RV5: Input level to BBD
RV6: Output level from BBD