

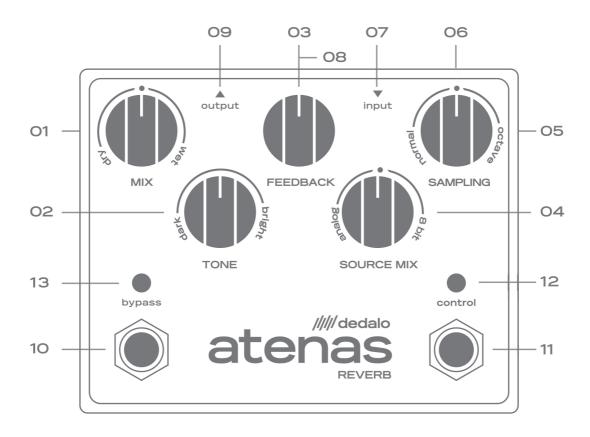
Analog Dry-Thru with Dry/Wet mix control
Feedback with tone control
Spring reverb tank
Independent 8-bit section with:
Sound freezing
Octave up/normal
Auto-Freeze and Tuned-Freeze
Variable sampling rate
Analog/8-bit mix control
Bypass with tails and True Bypass

USER MANUAL

ATN1 Rev 16/02/2024

Contratulations, you got the Atenas!

Create new sounds with the Atenas, this reverb generating machine. Classic and unique sounds are possible thanks to its spring heart and its extra dimension of feedback. Generate ecstatic waves of reverb thanks to its 8-bit technology that reduces fidelity and invokes strange landscapes and octave sounds, as well as distant drones with the Freeze modes. Combine the most extravagant sounds with the purest with the turn of a knob.



Operation

The Atenas has at its core a spring reverb tank (which uses digital delays in an analog feedback circuit like the MDT Delay) that generates the classic reverb. It is preceded by a tone control, which EQs all sounds entering the reverb, including the feedback path, so it has an effect on shaping the reverb tail.

Furthermore, the Atenas incorporates an 8-bit digital buffer that receives the direct signal from the input and returns it in lower fidelity, with low sampling frequencies and the possibility of octaving and freezing (repeating the last milliseconds of the buffer, ad

infinitum). This section feeds the reverb, added in parallel with the analog signal in the proportion indicated by the Source Mix control.

Controls

- **01 MIX**: Mix between the clean signal (dry) and the reverb (wet). At maximum it is completely wet, ideal for generating ambiance and using it in parallel as an fx send
- **02 TONE**: Equalization of all the sounds that enter the reverb tank. In the center, the EQ is flat.
- **03 FEEDBACK**: Analog feedback of the reverb circuit. Increases the total reverb time, also influenced by the TONE control.
- **04 SOURCE MIX**: Level mix between the analog section (direct from the input) and 8-bits section (from the buffer) that will feed the reverb generator tank.
- **05 SAMPLING**: sampling frequency of the digital buffer. It is divided from the central point to the sides, on the left side (counterclockwise) the sound is reproduced normally, but on the right side (clockwise) it is an octave up. At both ends of the control, the sampling rate is maximum (which indicates higher audio quality) and towards the center it is reduced, with more aliasing and increase in buffer/freeze time (which also indicates longer delay timefrom this section)
- **06 BUTTON** *-side control-* Allows access to the following functions:
- Tuned-Freeze: By tapping this button, the Tuned-Freeze mode is activated/deactivated. In this mode, the sampling rate of the SAMPLING control is divided into 4 discrete values, for each octave, which correspond to the musical intervals Unison, Fourth, Fifth and Octave. This allows to vary the freezed sound harmonically, and to obtain drones with exact tunings.
- Auto-Freeze: While holding down this button, doing a TAP on the CONTROL switch activates/deactivates the Auto-Freeze mode. In this mode, the sound freezes automatically, entering Freeze every time a new sound is detected. If the signal exceeds the volume threshold, the Freeze stops and the 8-bit section operates normally, until it falls below the threshold again and the Freeze is reactivated, repeating the last detected sound. The CONTROL switch still does

activation/deactivation of Freeze at the user command.

- **Umbral de Auto-Freeze**: While holding down this button, if you move the SAMPLING control, you can adjust the detection threshold for Auto-Freeze mode. Turning clockwise lowers the threshold, allowing greater detection sensitivity, and vice versa.

All of the above functions are saved in the pedal's memory, so it will remain configured the same even if the power is turned off.

- 07 INPUT Effect input, connect your instrument here.
- **08 DC 9V** Power supply input, connect your dc adapter here.
- **09 OUTPUT** Effect output, connect your amplifier here.
- 10 TRUE BYPASS Turns on/off the effect. The true bypass switch allows your sound to remain intact when the effect is off.
- 11 CONTROL: optical switch for functions:
- Tail Bypass: With a TAP on this control, the input of sound to the reverb section is activated/deactivated (but not its output). This allows you to deactivate the effect but maintaining the reverb tails and feedback. Bypass is indicated with the corresponding LED off.
- Freeze: It can be activated momentarily or permanently. For the first, simply holding the switch causes the digital buffer to Freeze the last milliseconds of sound prior to the action. When you release the button, the Freeze stops and the sound resumes. To make a permanent freeze, you must perform a DOUBLE TAP, (tapping the switch twice in quick succession), which will keep the pedal in Freeze until the same action is performed. It should be noted that you can enter Freeze mode even from Tail Bypass. Also, within Permanent mode, CONTROL can be pressed to obtain momentary releases from the freeze. Additionally, a momentary Freeze can be converted into a permanent one by tapping the CONTROL.
- 12 Tail Bypass and Mode indicator LED. Normally lit in green, it will turn red when the pedal is in Freeze mode. In case of Tail Bypass, the LED will turn off completely. The activation/deactivation of the Tuned-Freeze and Auto-Freeze functions is indicated by an orange blink.
- 13 LED Lights up when the effect is engaged.

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



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APPENDIX

Technical specifications

ATENAS

Model 2023 - ATN-1

True Bypass

Input impedance: 700Kohm

Power supply: DC 9v center negative (minimum 100mA)

Power consumption: 94mA at 9v DC Dimensions: 12cm x 9.4cm x 5.4cm

Weight: 480gr 8 bits Section:

Sampling frequency: 10.4Khz to 2.6Khz

Buffer size: 37ms to 147ms

Trimpots:

RV1: Independent-Freeze Mode volume

RV2: Max feedback (factory set – do not change)