GHOST NOTE
AUDIO

3 BIT FUZZ

USER MANUAL

CONTROLS

Outputs
Dual outputs.
Line-level, 1/4" connectors

Low
Controls the volume for the low frequency band.

Scoop
Mid cut, up to 12dB.

Gain
Adjusts the input gain and produces more distortion.

Gate
Sets the threshold for the noise gate, positioned in front of the bit crushers. Help eliminate clicks and pops.

Mid
Controls the volume for the middle frequency band.

Curve
Chooses a tone-shaping curve to apply to the output. Great when using pedal direct (as a preamp). Set to zero if using in front of an amp.

Inputs
The pedal has two inputs, you can use either one. If both are used, the signals are mixed together. Line-level, 1/4" connectors

High
Controls the volume for the top frequency band.

Shift
Adjusts the mid-cut frequency, from 300hz to 3Khz

Volume
Adjusts the output volume from the pedal. If the volume is set too high, the output will clip, and the "Active" LED will flash to indicate this.
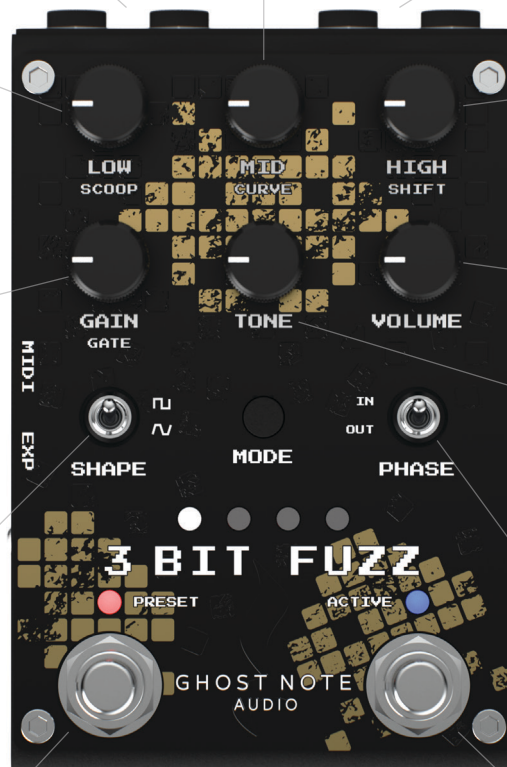
Tone
Controls a filter which rolls off the high end frequencies.

Shape
Switches between a bit crusher and a hard-clipping stage for the top frequency band. Can help reduce buzzing in the top end.

Preset
Switches between two presets (red and blue). When tweaking the controls, the selected preset is automatically updated in realtime.

Mode
Switches between 8 different effect modes, where each mode has different settings for the 3 frequency bands, both before and after the bitcrusher stages, resulting in different sonic characteristics, ranging from "velcro fuzz" to more full-spectrum hig, modern high gain tones.

Hold the button down while moving the knobs to access their alternative parameters

Phase
This switch lets you invert the phase of the middle frequency band. This creates peaks and notches in the frequency spectrum which can result in a very aggressive, filtered sound, reminiscent of the "Swedish Chainsaw" sound.

Active
Activates or bypasses the pedal, using a relay-based true bypass circuit.

Mode 1
Balanced sound with each band clearly filtered both pre- and post distortion

Mode 2
More aggressive sound with tighter bass response.

Mode 3
Each band is kept very narrow, resulting in a very resonant sound, similar to a cocked wah pedal

Mode 4
Similar to no. 3 but frequency bands are set lower

Mode 5
Same split frequencies as Mode 1, but pre-distortion filters are disabled

Mode 6
Same split frequencies as Mode 1, but post-distortion filters are disabled on the Mid and High bands

Mode 7
Very tight low end with crunchier mid tones, and less fizz

Mode 8
Buzzy, bitcrushed fuzz galore

MIDI CONTROL

MIDI CC Control

CC #	Function
CC #1	Low
CC #2	Mid
CC #3	High
CC #4	Gain
CC #5	Tone
CC #6	Volume
CC #7	Scoop
CC #8	Curve
CC #9	Shift
CC #10	Gate
CC #13	Mode
CC #14	Shape
CC #15	Phase
CC #16	Preset
CC #17	Active

MIDI Setup Mode

To select the active MIDI channel, hold down the MODE button and press the PRESET footswitch. This enters Midi Setup mode.

Press the MODE button to cycle through channels 0-15. The four LEDs indicate, in binary, which channel is selected.

Press the PRESET footswitch again to exit Midi Setup mode.

MIDI Channel Select

LED Pattern	Channel
● ● ● ●	0 (Channel 1)
○ ● ● ●	1 (Channel 2)
● ○ ● ●	2 (Channel 3)
○ ○ ● ●	3 (Channel 4)
● ● ○ ●	4 (Channel 5)
○ ● ○ ●	5 (Channel 6)
● ○ ○ ●	6 (Channel 7)
○ ○ ○ ●	7 (Channel 8)
● ● ● ○	8 (Channel 9)
○ ● ● ○	9 (Channel 10)
● ○ ● ○	10 (Channel 11)
○ ○ ● ○	11 (Channel 12)
● ● ○ ○	12 (Channel 13)
○ ● ○ ○	13 (Channel 14)
● ○ ○ ○	14 (Channel 15)
○ ○ ○ ○	15 (Channel 16)

EXPRESSION CONTROL

Expression Pedal Setup

To select what the expression pedal controls, hold down the MODE button and press the ACTIVE footswitch. This enters Expression Setup mode.

Press the MODE button to cycle through the various modes. The 4 White LEDs as well as the footswitch LEDs indicate what control mode is active

Press the ACTIVE footswitch again to exit Expression Setup mode.

Expression Pedal Settings

LED Pattern	Mode
◑(blue) ● ● ● ● ●	Toggle Preset - use with momentary switch (light blinks)
●(blue) ● ● ● ● ●	Latch Preset - use with continous controller or latching switch
● ○ ● ● ● ●	Control Gain
● ● ○ ● ● ●	Control Volume
● ● ● ○ ● ●	Control Mid Volume
● ● ● ● ○ ●	Control Tone
● ● ● ● ● ◑(blue)	Toggle Active - use with momentary switch (light blinks)
● ● ● ● ● ●(blue)	Toggle Active - use with continuous controller or latching switch

SPECIFICATIONS

Spec	Value
Input Impedance	500k Ohm
Output Impedance	150 Ohm
Maximum Input Level	+6.2 dBu
Maximum Output Level	+4.0 dBu
Power Connector	2.1mm Centre Negative
Input Voltage	9V DC (or 5V USB-C power)
Input Current	100mA
Samplerate	48Khz
Bit Depth	24 Bit
Frequency Response	40Hz - 20KHz
Midi Input	3.5mm TRS (Type-A)
Expression Input	3.5mm TRS (T=Out, R=Power, S=GND)
Width	83mm (3.25")
Height	125mm (5")
Thickness (incl. Knobs)	55mm (2.15")
Weight	590 grams (1.3 lbs)

FURTHER INFORMATION

Audio Connections

The pedal has two 1/4″ unbalanced inputs and outputs. The inputs can accept both line-level or instrument-level signals. Either of the two inputs can be used, and if both are connected, the signals will be mixed together evenly. Likewise, the pedal has two outputs, but they produce the same signal, allowing connection to more than one target device.

USB Power

The pedal can be powered over USB. This can be great for reducing the number of cables, if you're using the unit on your desk, next to a computer. However, the USB power input is unregulated and can introduce additional noise from your computer over the USB power bus and cause unwanted noise on the output.

For the best results, we always recommend using a dedicated, high quality 9v power supply.

Firmware Updates

In order to update the firmware version on your pedal, or to upload a different effect altoghether to your hardware, the procedure is simple.

First, make sure the power supply and USB cables are disconnected and that the pedal is off.

Next, hold down the Shift key, and while still pressing it down, connect the USB cable.

This will set the pedal into "bootloader mode", and it will present itself to your computer as a USB storage device.

From there, we can simply download the firmware file we want to upload, and copy it across to the USB storage device. The transfer should only take a second or two, after which the device resets, and your new firmware will be active.

Faceplate Swap

The faceplate can be reversed, the back side contains the same silkscreen printing, but any gold accents are removed, for a cleaner, more readable interface.

The faceplate is attached using 3mm hex key screws - a hex key is included in the box with every pedal.

Reprogramming your Pedal

This pedal can be re-programmed to behave as any other pedal in the Daedalus line-up. You do not need to swap out the faceplate in order to test a new effect.

The procedure is the same as when updating the firmware, but you just use the firmware for another effect model. It is perfectly safe (and even encouraged!) to flash your pedal with the firmware of different effect models, if you would like to test them out and see what they sound like.

WARRANTY INFORMATION

Ghost Note Audio 2-Year Limited Warranty

Coverage

Ghost Note Audio warrants that your product will be free from defects in materials and workmanship for a period of two (2) years from the original date of purchase. During this period, we will repair or replace (at our discretion) any product found to be defective under normal use.

Exclusions

This warranty does not cover:

- Damage caused by misuse, abuse, accidents, or neglect.
- Unauthorized modifications, alterations, or repairs.
- Damage due to improper power supply, incorrect connections, or unsuitable operating conditions.
- Normal wear and tear (including cosmetic damage such as scratches, finish wear, or worn knobs/switches).
- Loss, theft, fire, flood, lightning, or other natural disasters.

Limits of Liability

Our responsibility is strictly limited to the repair or replacement of defective products as described above. Ghost Note Audio shall not be held liable for any incidental, indirect, or consequential damages, including but not limited to: loss of profits, loss of savings, or damage to other equipment. Liability shall never exceed the original purchase price of the product.

How to Obtain Service

If you believe your pedal is defective and within warranty coverage:

1. If you purchased your unit from a 3rd party retailer or distributor, please contact them directly, and allow them to arrange for warranty services in collaboration with us. All items purchased from authorized Ghost Note Audio Dealers are subject to the Dealer's terms and conditions for Returns. Items purchased from authorized Ghost Note Audio Dealers should not be returned directly to Ghost Note Audio unless you are specifically instructed to do so by us.
2. If you purchased your unit directly from us (via https://ghostnoteaudio.uk) you can contact us through our website's Contact Form to arrange for repairs or replacement.
3. The customer is responsible for shipping the product to Ghost Note Audio. In cases where the fault is clearly the result of a manufacturing defect or a known production issue, we will reimburse your postage cost (subject to a 25 GBP limit). Please discuss the issue with us to determine if you are eligible for refunded postage.
4. If the repair is covered under warranty, return shipping will be covered by us.
5. Non-warranty repairs may be billed for labor and parts, and return shipping will be the customer's responsibility.

Transferability

This warranty is offered only to the original purchaser and is non-transferable.

By using this product, the purchaser accepts all terms outlined in this warranty.