New Revelation Reverb

Overview, Features, and how to use the New Revelation Reverb

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Overview

Basic overview and features of the New Revelation Reverb

Description

Introducing the New & Enhanced Revelation Reverb.

The Revelation Reverb is engineered with six studio-grade algorithms, six onboard presets (127 with MIDI), full MIDI control over every knob, switch, algorithm, preset, etc. Additionally, it features a live mode, preset mode, kill-dry mode and full stereo analog dry thru.

We've added 3 brand new algorithms Spring, Room, and Plate, enhanced our existing algorithms, added pre delay, and a filter knob for creating darker reverbs.

Features At A Glance:

- 6 Studio grade algorithms:
  - Spring
  - Room
  - Plate
  - Modulated
  - Shimmer
  - Anti-Shimmer

- 6 Onboard presets:
  - Up to 127 presets via MIDI
  - Rotate the knobs in Preset Mode to see the saved position of each knob
  - Quickly edit and save any preset by adjusting the knobs then holding the Bypass switch for 3 seconds
- Full MIDI control over every knob, switch, algorithm, preset, etc.
- Stereo Analog Dry Thru
- Live Mode, Preset Mode and Kill Dry Mode
  - Quickly jump between two different reverb sounds
  - Any preset can be queued up while in Live Mode without affecting your sound
- Toggle switch to select between 0, 50, or 100 milliseconds of pre delay
- Use the Revelation in any rig
  - Mono in / Mono out
  - Mono in / Stereo out
  - Stereo in / Stereo out
  - Stereo in / Mono out (sums to Mono)
  - Kill Dry Mode
- User adjustable Global Settings
  - Don’t want to cycle through all 6 preset locations? Easy, define the number of onboard presets available within the Global Settings.
  - Define which preset and algorithm loads at startup

    - Assign the Revelation to any MIDI channel 1 thru 16
    - Enable/Disable Kill Dry Mode
- Power via 9v (Negative Tip) power supply (pwr supply not included)
- Current Draw: 250mA
- Enclosure Dimensions: 4.82" x 2.62" x 1.425"

Algorithms

The New Revelation has 6 studio grade algorithms to choose from. Below details the sounds for each algorithm.

Spring Reverb

Cntrl1 is adjusts the amount of dwell. A dwell knob can be found on your favorite early 60’s Fender reverb tanks, this control adds more signal that hits the front end of the reverb tank. Fully counter-clockwise will have less “drip” and will sound more like a reverb in a combo amp. As its rotated clockwise, the reverb will begin to have more “drip” and the initial sound will be more explosive.

Room Reverb

Cntrl 1 knob adjusts the size of the room. Fully counter-clockwise will have shorter trials and a less complex sound. As its rotated clockwise, the trails become longer and the reverb is more complex as more reflections would be bouncing off the walls in a larger space.

Plate Reverb

Plate reverb is a type of reverb that uses a large metal plate to create a spacious, bright, and distinctive sound. You can almost hear the reverb moving across the metal plate as the trails decay off. Cntrl1 adds modulation to the reverb, the rate and depth are fixed values. Think of this control as an overall volume knob for the modulation.

Modulated Reverb

Modulated reverb creates deep lush modulated hall type reverbs. Used to create heavenly pads under your core tone or crank the decay up for out of this world swells. Cntrl1 adds modulation to the reverb, the rate and depth are fixed values. Think of this control as an overall volume knob for the modulation.

Shimmer Reverb

Shimmer reverb creates an upper octave that is feed into the reverb trails creating a warm but bright upper octave used to help create pads that cut through the mix. Cntrl1 is very interactive with the Decay knob and adds the upper octave shimmer to the reverb.

Anti-Shimmer Reverb

Anti-Shimmer adds a lower octave and also a sub-octave simultaneously to the reverb trails. Use judiciously, as you crank up the lower octaves you are entering into a completely different sound spectrum! Note the Mix & Cntrl 1 knobs both work interactively, for best results usually a higher Mix will result in lower Cntrl1 settings.

Operating your New Revelation Reverb

How to use the New Revelation Reverb

Global Settings

To enter the Global Settings, hold down the Bypass switch when power is first applied to the pedal. The Mix and Decay LEDs will be glowing and cycling through various colors. Release the Bypass switch when the Mix and Decay knobs turns either solid White or Red (if Kill Dry mode is enabled the LEDs will be Red). To save your settings and exit the Global Settings, hold down the Bypass Switch for 3 seconds. The Mix and Decay LEDs will continue glowing and cycling through the various colors until your settings have been saved.

Below are the following features that can be adjusted within the Global Settings:

- Setting the MIDI Channel
  - Rotate the Cntrl1 knob, the Bypass LED will flash the number of times that corresponds to the MIDI Channel. If setting to MIDI Channel 4, the LED will flash 4 times with a 2 second pause and then repeat.
- Enable/Disable Kill Dry Mode
  - Short press the Preset switch, the Mix and Decay knobs will change colors. If the LED colors are Red, then Kill Dry Mode is enabled. If the LED colors are White, then Kill Dry Mode is disabled.
- Load a Specific Preset Upon Start-Up
  - Rotate the Mix knob, the Mix LED will cycle through the Preset colors. Rotate until your desired Preset is illuminated.
- Load a Specific Algorithm Upon Start-Up
  - Rotate the Decay knob, the Decay LED will cycle through the Algorithm colors. Rotate until your desired Algorithm is illuminated.
- Limit the Number of Presets to Scroll Though
  - Rotate the Filter knob, the Preset LED will flash the number of times that corresponds to the maximum number of Presets available to scroll through. If setting to 3 Presets, the LED will flash 3 times with a 2 second pause and then repeat.
- Setting the Adjustable Mix Taper (available from serial# 1170 and above)
  - Set the toggle switch to the up position for Mix Taper 1. In this mode none of the dry signal will get removed as the Mix knob is increased.
  - Set the toggle switch to the middle position for Mix Taper 2. In this mode the dry signal will start to be removed around the 1 o'clock position. The Mix knob will gradually continue to be removed until reaching a 100% wet mix when the Mix knob is fully clockwise.
  - Set the toggle switch to the down position for Mix Taper 3. In this mode the dry signal will start to be removed around the 10 o'clock position. The Mix knob will gradually continue to be removed until reaching a 100% wet mix when the Mix knob is fully clockwise.

Using the Pedal

Power the New Revelation with a 9v DC negative tip power supply, one that is capable of handling up to 300mA of current. Upon powering the New Revelation the Mix and Decay knobs will glow indicating startup mode. Once the LEDs stop glowing, the New Revelation is ready to use. Tap the Bypass switch to engage the pedal (Live Mode), the color of the Decat knob indicates the active algorithm and the color of the Mix LED indicates the cue'd up Preset.

Hold the Bypass switch for 1 second and release to change algorithms.

- Light Blue | Spring Reverb
- Green | Room Reverb
- Yellow | Plate Reverb
- Red | Modulated Reverb
- Pink | Shimmer Reverb
- White | Anti-Shimmer Reverb

To engage Preset Mode, tap the Preset switch. This will quickly jump between the reverb used in Live Mode to the reverb stored in the cue'd up preset. To disengage Preset Mode and jump back to Live Mode, tap the Preset switch again.

To change presets, tap both the Tap switch and Preset switch to cycle through the stored presets:

- Light Blue | Preset #1
- Green | Preset #2
- Yellow | Preset #3
- Red | Preset #4
- Pink | Preset #5
- White | Preset #6

While in Preset Mode you can rotate the knobs to see the saved location of each knob in the stored preset. When each knob is rotated, its corresponding LED will flash, and will return back to a solid color once the knob is rotated over the stored location.

Control Knobs

Mix Knob

The Mix knob controls the overall loudness of the reverb. Rotating fully counter-clockwise will set the reverb volume to minimum and fully clockwise to maximum. The Mix knob can be setup in Global Settings to have custom Mix Tapers to either remove more or less of your dry signal.

Decay Knob

The Decay knob controls the length of decay that will be generated from the New Revelation. Rotating fully counter-clockwise sets the decay to minimum and fully clockwise sets the decay to maximum.

Filter Knob

The Filter knob controls the overall brightness of the reverb. Rotating fully counter-clockwise allows all frequencies to pass, when rotating clockwise the upper frequencies will be removed. Rotating clockwise sets the cutoff frequency lower and lower for darker reverbs. The Filter knob does not affect/remove any frequencies from your dry signal.

Cntrl1 Knob

The Cntrl1 knob varies per algorithm, please reference the Algorithm section for details pertaining to the Cntrl1 knob for each Algorithm.

Soft Click Switches

Bypass Switch

The Bypass Switch functions as the main navigation for the pedal, below outlines the functions attached to this switch.

- Short Press
  - Performing a short press will engage/disengage the pedal. When engaged, the Bypass LED will illuminate and the reverb signal will be heard. This is called “Live Mode”, the sound of the reverb will be heard based on the current settings of each knob, toggle switch, and the active Algorithm that is illuminated by the Decay LED.
- Two Button Press (Preset & Bypass Switches)
  - Performing a two button press will cycle through the stored presets. Each time a two button press is performed the color of the Mix LED will change, identify which preset is active or cue’d up. If the pedal is in Preset Mode, it will cycle through each preset and the new preset sound will be heard immediately. If the pedal is in Live Mode, you can cue up which preset will be heard when Preset Mode is engaged.
- Long Press
  - Performing a long press (hold for 1 second and release) will cycle through the active algorithm. Algorithms can be changed at any time in both Live Mode and Preset Mode

Preset Switch

- Short Press
  - Performing a short press will engage/disengage the "Preset Mode". When engaged, the Preset LED will illuminate and the reverb signal stored in the active preset will be

heard. The Decay knob LED will change to the current algorithm stored in the active preset. Short press again to disengage "Preset Mode" and quickly jump back to the settings in "Live Mode".

- Hold
  - Pressing and holding will engage the Infinite Bloom feature (slowly ramps up the Decay knob to max). The Preset LED will flash while Infinite Bloom is engaged, once you release the Preset Switch the LED will continue to flash while the Decay knob slowly returns back to its original position. Infinite Bloom works in both "Preset Mode" and "Live Mode".

Toggle Switch

0 Millisecond Pre Delay

Setting the Toggle Switch to the top position will create a reverb with no pre delay. The reverb signal will immediately bloom in as soon as the guitar signal hits the pedal.

50 Millisecond Pre Delay

Setting the Toggle Switch to the middle position will create a reverb with 50ms of pre delay. The reverb signal will bloom in 50ms after the guitar signal hits the pedal.

100 Millisecond Pre Delay

Setting the Toggle Switch to the bottom position will create a reverb with 100ms of pre delay. The reverb signal will bloom in 100ms after the guitar signal hits the pedal.

Saving Presets

Saving a preset is simple and quick. Cue up the current preset location you'd like to save a preset to (identified by the color of the Mix LED). Change the active algorithm (if desired) and dial in the settings on the toggle switch and knobs. Once you have a sound that you like, simply hold down the Bypass Switch for 3 seconds. The Bypass LED will flash rapidly indicating the preset has been saved.

***To save a preset the pedal must not be bypassed, you can save a preset in either Live Mode or Preset Mode.

MIDI Features and Controls

Library of MIDI commands and how to program your New Revelation.

How to Connect

Midi communication to the New Revelation conforms to the specification for TRS to Midi adapters issued by the Midi Association. So what does this mean for me? In order to communicate via Midi you will need either a 5 pin to 1/4" TRS adapter cable that is wired to the TRS specification, or if you wish to make your own patch cables, a link to the wiring diagram and the midi specification can be found here. You can also use a midi box/ hub that converts 5 pin Midi to multiple TRS outputs, like the Traffic Control from JET or similar boxes from Strymon or Morningstar. You could also use a compatible Midi controller with TRS midi output's like the Futurist by Matthews Effects or various controllers by Morningstar.

Changing the MIDI Channel

From the factory the New Revelation is set to receive Midi messages on Midi channel 1, however this can be changed upon powering up the pedal. After applying power to the New Revelation, hold down the Bypass switch while the pedal is in startup mode (Mix & Decay knobs are scrolling thru the color spectrum). Once the LEDs turn a solid color, release the Bypass switch to enter the Global settings. Rotate the Cntrl1 knob and the Bypass LED will begin to blink between 1 and 16 times (depending on which channel is set by the knob). Rotate the Cntrl1 knob counter-clockwise to decrease the MIDI channel or clockwise to increase the MIDI channel. Once you've reached the desired channel (i.e. channel 6 means the LED will flash 6 times), hold the Bypass switch to exit the global settings and to save the Midi channel to permanent memory.

Saving Presets via MIDI

You have two options for creating presets. The first option is to use a "smart" midi controller (like the JET MCX) that can send multiple simultaneous midi messages. Just send individual CC messages to turn the Bypass switch on, select the algorithm, and set the values for each knob/toggle switch.

The second option is to use our revolutionary CC Snapshot feature. While in Live Mode, select your desired algorithm and then set all of the knobs & switches to their desired positions. From there just send midi CC #28 with any Value from 7 thru 100. The pedal will then take a snapshot of its algorithm and knob/switch positions, after that the knobs will flash green letting you know the preset has been saved into permanent memory. To recall this preset, just send a PC message with the same number used for the Value when sending CC #28.

Example: send CC #28 Value 10 to save a preset in the 10th slot. Send PC #10 to recall the new preset.

The New Revelation can save 100 onboard presets (the first 6 are saved using the pedal and 7 - 100 are saved with CC Snapshot).

Program Change Messages

Receiving PC messages will recall the onboard presets stored within the New Revelation.

- PC #0 - Will bypass the pedal
- PC #1 - Recalls the first preset (Light Blue)
- PC #2 - Recalls the second preset (Green)
- PC #3 - Recalls the third preset (Yellow)
- PC #4 - Recalls the fourth preset (Red)
- PC #5 - Recalls the fifth preset (Pink)
- PC #6 - Recalls the sixth preset (White)
- PC #7 - 127 Recalls the preset created by CC Snapshot (Dark Blue)

Control Change Messages

Receiving CC messages will control the individual controls, knobs, and switches of the New Revelation.

- CC #17 Any value between 0 & 42 sets the custom Mix Taper to 1
  - Any value between 43 & 85 sets the custom Mix Taper to 2
  - Any value between 86 & 127 sets the custom Mix Taper to 3
- CC #18 Any value between 0 & 42 sets the pre delay toggle switch to 0 milliseconds
  - Any value between 43 & 85 sets the pre delay toggle switch to 50 milliseconds
  - Any value between 86 & 127 sets the pre delay toggle switch to 100 milliseconds
- CC #19 with any value of 0 thru 127 controls the Mix knob. 0 is the equivalent of having the knob turned completely counter-clockwise (mix turned off) and 127 is like having the knob turned completely clockwise (mix at full volume). Sending a value of 64 is the equivalent of having the knob straight up at noon.
- CC #20 with any value of 0 thru 127 controls the Decay knob
- CC #21 with any value of 0 thru 127 controls the Filter knob
- CC #22 with any value of 0 thru 127 controls the Cntrl1 knob
- CC #23
  - Any value between 0 & 63 turns the Bypass switch off
  - Any value between 64 & 127 turns the Bypass switch on
- CC #24
  - Any value between 0 & 63 turns the Preset switch off
  - Any value between 64 & 127 turns the Preset switch on
- CC #25 any value between 0 & 127 increments the Preset number
- CC #26 any value between 0 & 127 decrements the Preset number
- CC #27
  - Any value between 0 & 21 activates the Spring Reverb
  - Any value between 22 & 44 activates the Room Reverb
  - Any value between 45 & 66 activates the Plate Reverb
  - Any value between 67 & 88 activates the Modulated Reverb
  - Any value between 89 & 110 activates the Shimmer Reverb
  - Any value between 111 & 127 activates the Anti-Shimmer Reverb
- CC #28 any value between 7 & 127 activates CC Snapshot mode
  - This takes a snapshot of your current settings and stores it in permanent memory at the appropriate preset location. An example would be to send CC #28 Value 7, this stores a preset in the 7th slot and can be recalled anytime by sending PC #7
- CC #29
  - Any value between 0 & 63 turns off Kill Dry mode
  - Any value between 64 & 127 turns on Kill Dry mode
- CC #30

- Any value between 0 & 63 turns off Infinite Bloom
- Any value between 64 & 127 turns on Infinite Bloom

FAQ

Frequently asked questions

FAQ

What are the Power Requirements for the New Revelation?

The New Revelation requires a 9 volt DC negative tip power supply that is rated for at least 300mA of current. Powering the New Revelation above 9 volts will result in damage to the pedal. We recommend using an isolated power supply with the New Revelation being powered from its own port. Daisy chaining power can result in unwanted noise in your signal path.

FAQ

How Many Presets can be Saved to the New Revelation?

The New Revelation can store up to 127 presets on the pedal. The first six presets can be created and stored using the knobs and switches on the pedal. The remainder of the presets (7-127) can be created and stored using a MIDI controller using CC messages.

FAQ

Can I use the New Revelation in Mono? Or does it have to be used in Stereo?

The New Revelation can be used with any board/setup including mono, stereo, or stereo inputs with sum to mono output.

***When using the New Revelation in mono, use the Left inputs and outputs only. When using the New Revelation to sum to mono, using the Left output will sum both outputs to mono.

FAQ

Are There Trails When Switching Algorithms or Bypassing the New Revelation?

When switching between modes (Live or Preset) or switching between presets, the pedal automatically enters a "graceful transition" state, the Bypass LED will begin to flash letting you know that the Decay knob is gracefully returning to its new setting. This only applies when staying within the same algorithm and staying on the same pre delay setting. If you're switching between algorithms or pre delay settings, you will not have delay trails.

When bypassing the New Revelation, trails will always be active.

FAQ

I Hear a Weird Noise, What Can I Do?

Most often, noise issues are related to the power supply feeding the New Revelation. The first thing to check, does the power supply meet the requirements to power the pedal (9V DC 300mA). Supplying voltage above 9 volts can damage the pedal and supplying 9V with not enough current capacity (300mA) will cause unpredictable behavior and noise issues.

Is the pedal being supplied with its own isolated power port (no daisy chaining). Daisy chaining power from pedal to pedal can introduce unwanted noise.