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**CHAPTER 1 - Overview**

What's new in Specular V3 :

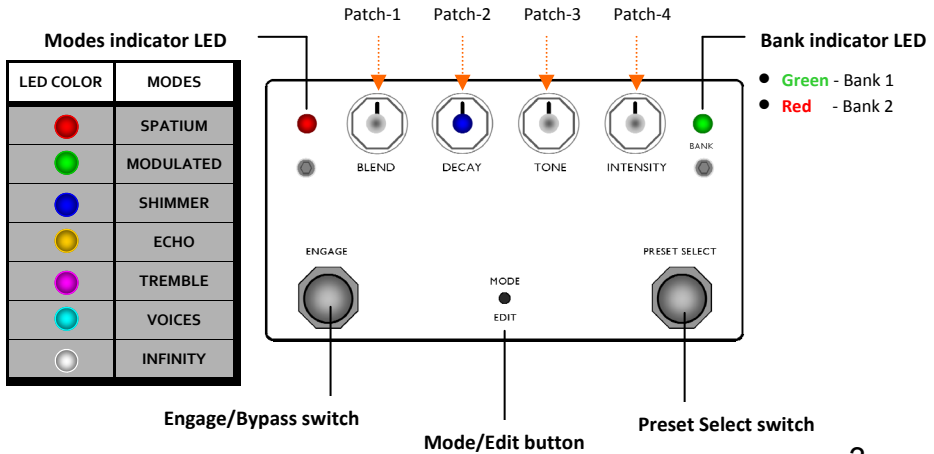
- Expression Pedal / Tap-Tempo pedal input
- Kill-Dry function
- Preset system is now decoupled from algorithms, which means it's now possible to store any algorithms to any preset location.
- Multi-colored LED uniquely identifies algorithms.
- Tap-Tempo (with subdivisions) is now available for the *Echo* algorithm.
- New artwork.

Specular Reverb V3 has identical sounds as V2, with the exception of the mode *Echo*, which now has 800 ms of maximum delay time (V2's Echo has 600 ms).

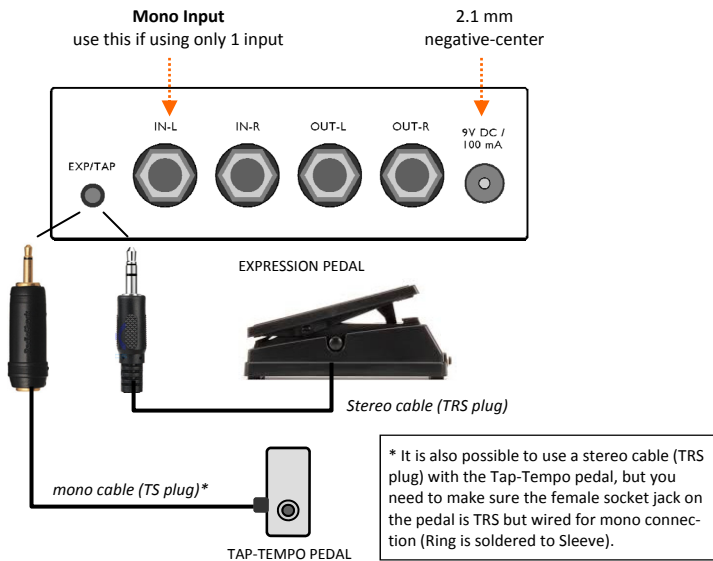
Same compact footprint as Specular V2.

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Illuminated knobs indicates patch number : 1-2-3-4



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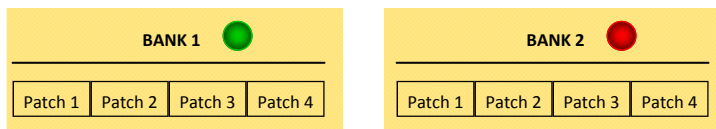
## CHAPTER 2 - Operation

From this point onward :

- [Engage] will refer to the Engage footswitch,
- [Preset Select] will refer to the Preset Select switch, and
- [Mode/Edit] will refer to the Mode/Edit push button

### Preset System

The 8 preset locations are organized in 2 banks, where each bank contains 4 patches.



#### SAVE PRESET

1. Tap [Preset Select] as many times as needed to reach the desired preset location.
2. Hold [Engage] until the Preset LED flashes 3x.

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#### LOAD PRESET

1. Tap [Preset Select] to select the desired preset location.
2. Tap [Engage] once to load the selected preset.

Presets are selected by going through each location in the 'Up' direction (1, 2, 3, ...), while going through these steps the sound does not get updated until selection is confirmed by pressing [Engage].

Spillover: Reverb tail will be preserved when changing preset if and only if both source and destination preset contains the same algorithm.

#### LOAD A PRESET IN A DIFFERENT BANK

1. Tap [Engage] and [Preset Select] together once *<← this toggles the bank.*
2. Tap [Preset Select] as many times as needed to reach the desired preset location.
3. Tap [Engage] once to load the selected preset.

#### BYPASS OR ENGAGE

1. Tap [Engage] once.

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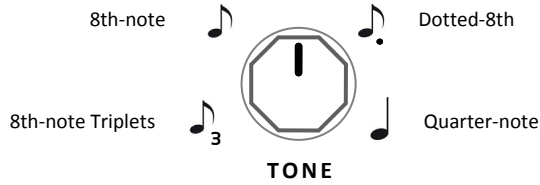
## MODES

1. Tap [Modes / Edit] to browse through the 7 modes.

## TAP TEMPO

Tap-Tempo is available only when using the *Echo* algorithm. To initiate temp-tempo press and hold [Preset Select], when the Tempo LED (Bank LED) stops flashing you can start tapping the desired tempo on [Preset Select].

You may set the subdivision using the TONE knob.

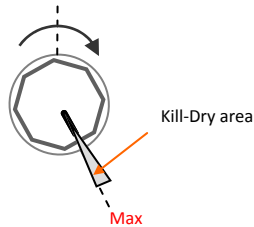


Set the knob's cursor to point to any one of the four subdivision symbols, do tap-tempo and the resulting tempo shall be subdivided as per indicated subdivision.

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## CHAPTER 3 - Kill Dry Function

Kill-Dry function is activated by turning the BLEND knob all the way to maximum value (clockwise direction).



**Note** : This is not a *permanent* kill-dry function, it is active only when the pedal is engaged - the dry signal will be back on when you bypass the pedal

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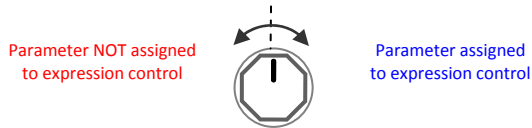
## CHAPTER 4 - Assigning Parameters for Expression Control

You can assign up to 4 parameters to be controlled by the expression pedal, and these assignments can be specified on per-preset basis. You can make changes to the assignment in the EDIT mode.

**Entering EDIT mode :** Press and hold [Mode / Edit].

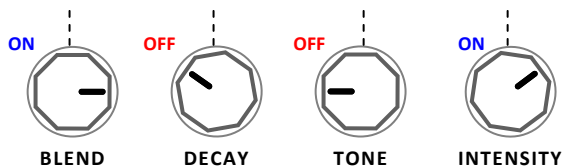
*When the Modes LED starts blinking the pedal has entered EDIT mode where you can make changes to the parameter assignment.*

In EDIT mode the four knobs act like switches, turning the knobs to anywhere *above* the 12 o'clock direction assigns that knob for expression control, and turning the knobs to anywhere *below* the 12 o'clock direction disables expression control on that knob.



for example you want to assign the expression pedal to control the Blend and Intensity parameter : turn the Blend and Intensity knobs to anywhere *above* the 12 o'clock direction and turn all the other knobs to anywhere *below* the 12 o'clock direction .

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Changes will immediately take effect when the knobs are turned so you can go ahead and audition the parameters assignment that suits your needs. After you are satisfied with the assignment you can save it into the current preset by holding [ENGAGE] until the preset LED flashes 3x. Or if you decide not to save any changes you can simply exit the EDIT mode, no changes will be saved.

**Exiting EDIT mode :** Press and hold [Mode / Edit].

*When the Modes LED stops blinking the pedal has exited EDIT mode and you can use the pedal normally again.*

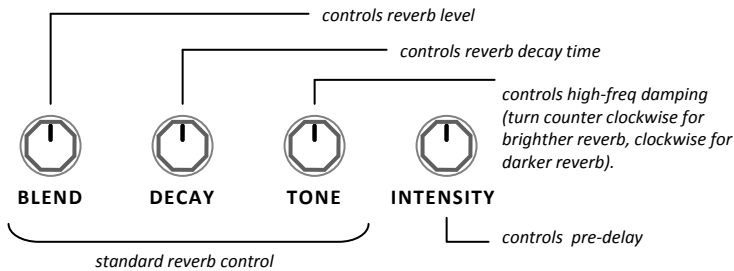
**IMPORTANT :** At power up the pedal will detect the presence (or absence) of an expression pedal at the EXP/TAP input jack. If it sensed that nothing is connected it will disable the expression function *for as long as the power stays on*. **This means you must recycle the power anytime you plug or unplug an expression pedal cable into the EXP/TAP input jack.**

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## CHAPTER 5 - Modes / Algorithms

### Spatium

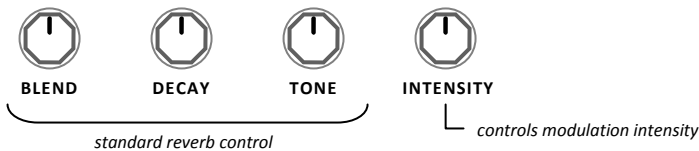
This is the 'mother' reverb whose basic character is shared by all other modes in this pedal. The design is influenced more by psychoacoustic principles rather than geometric representation (room, hall, chamber, etc.). In general, we thrived for a reverb that sounds good over the whole span of *Decay* settings, this yields a versatile reverb that can be used to achieve anything from subtle ambience, medium sized room, all the way to very large majestic spaces with seemingly endless reverb tails.



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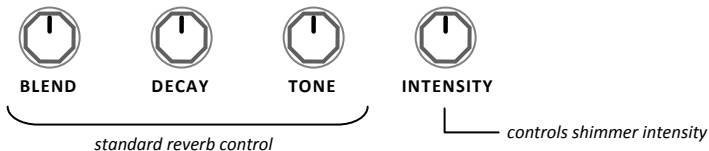
### Modulated

adds modulation to the late reverberation. As the Intensity knob is turned clockwise, both *depth* and *intensity* increases; approaching the maximum position a weird but beautiful swirling resonance starts to appear.



### Shimmer

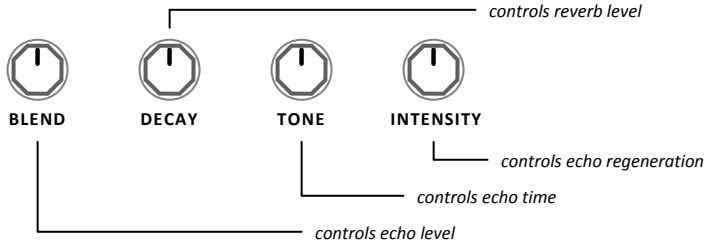
adds regenerative octave components onto the reverberation. The harmonized decay emulates the presence of multiple strings pads accompanying your instrument. Used together with a volume pedal this atmospheric mode can work magic!



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## Echo

this mode is unique compared to the other atmospheres in the sense that it's not 'reverb with echoes added in', instead, it's a 'reverbed echo'. The effect that is in focus here is the echo, with reverb being the additive component.



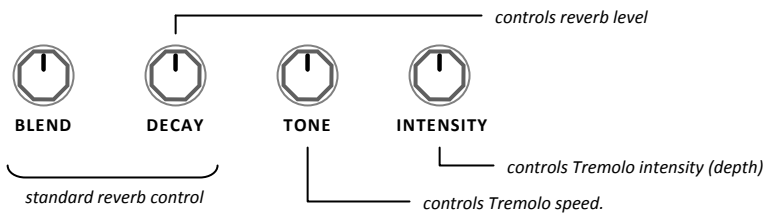
This is the only modes in the pedal that can use tap-tempo. See page 5 for information.

Maximum delay time : 800 ms.

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## Tremble

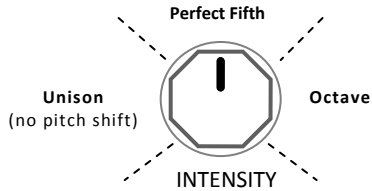
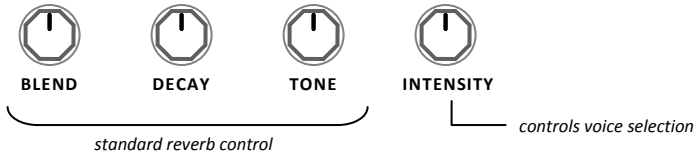
adds amplitude modulation (tremolo) to the reverb. Only the reverberated signal is affected, while the direct signal remains intact. The result is a very interesting pulsating ambience that injects rhythm to the standard reverb sound.



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## Voices

adds a pitch-shifted secondary voice on top of the late reverberation. There are three interval choices : Unison (no shift), Perfect Fifth (7 semitones), and Octave (12 semitones). The Intensity knob is partitioned into 3 regions, each region represents a distinct voice.



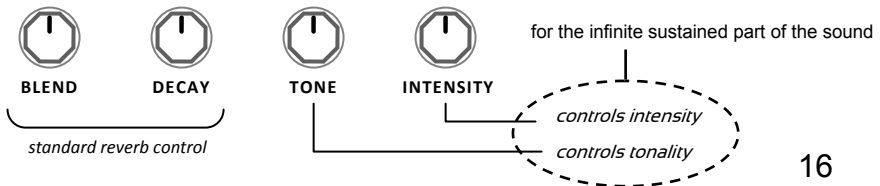
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## Infinity

This mode allows you to capture a brief snapshot of the sound you are playing, and hold it indefinitely, then you can play over it (with reverberation). Later on, you can fade out the sustained sound, and immediately fade in a new one. Here's how you do it :

1. Adjust Blend and Decay knob to get the desired amount of reverb mix and reverb time. Leave Damping and Intensity knobs at midpoint.
2. Press and hold [Select / Atmosphere], when both LEDs starts flashing the pedal began to continuously capture a snapshot of whatever you are playing. When you release the footswitch, the pedal will take the last 0.25 seconds of the captured sound and hold it indefinitely.
3. Now adjust Intensity and Damping to get the desired level and tonality for the sustained sound. The Intensity knob runs backward : the sound gets more intense as you turn counter-clockwise.

\* Do not turn the Intensity knob all the way up, doing this will shutdown the sustained sound.

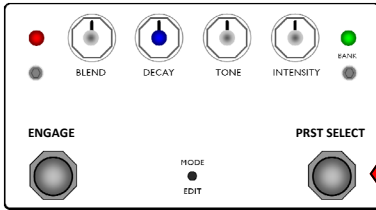


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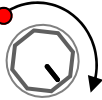
## CHAPTER 6 - Auto Intensity Swell

When you activate this feature the pedal automatically sweeps the *Intensity* parameter to the maximum value, hold it there, and sweeps it back to the previously set value - It's like having someone turn the INTENSITY knob while you're playing. Used judiciously, this feature introduces useful dynamic elements to the delay texture.



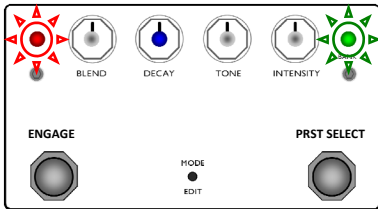
Press and hold [Preset Select].

current value -



The parameter controlled by INTENSITY knob gradually sweeps to maximum value (as if someone slowly turns the Intensity knob all the way up).

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As long as you hold the footswitch down, the *Intensity* parameter stays at its maximum value and both LEDs flash continuously.



Then when you finally release the footswitch, the *Intensity* parameter slowly sweeps back to the previously set value.

INTENSITY

Try this out :

1. Activate SHIMMER mode.
2. Set the *Intensity* knob to a low setting (about 9 o'clock).
3. Set *Blend*, *Decay*, and *Tone* as desired.
4. Start playing, a low level shimmer effect will be heard on top of the reverberation.
5. Execute auto intensity swell.

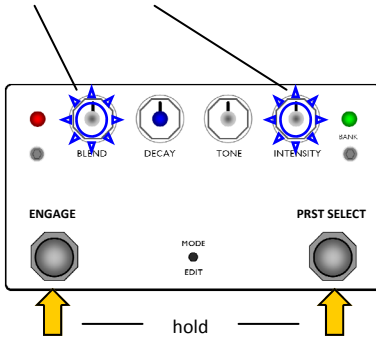
**Note :** Auto Intensity swell function can also be done using an external switch box connected to the Exp/Tap input.

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## CHAPTER 7 - Factory Reset

Factory Reset will revert your pedal to the factory setting, all user presets will be erased.

To perform factory reset : press and hold both footswitches while applying power to the pedal. Keep holding until Preset-1 and Preset-4 LEDs flashes 4x.



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### Features :

- 7 studio-grade reverb algorithms
- 8 presets.
- Expression pedal and Tap-Tempo input.
- Stereo input and output.
- Kill Dry capability.
- 24-bits signal processing.
- Analog Dry-thru.
- Reverb tails spillover when bypassed.

This product is designed and manufactured by :



G F I S Y S T E M<sup>®</sup>

### Specifications :

- Input impedance : 1 MOhm.
- Output impedance : 500 Ohm.
- Current consumption : ~ 100 mA.
- Weight : 0.5 Kg (1.0 lbs).
- Dimension : 12 (L) x 6.5 (W) x 3.6 (H) cm
- Powered by an external 9V DC Adaptor (not included).

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