VOLANTE
Magnetic Echo Machine

USER MANUAL
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Front Panel - Tonality

**REC LEVEL**

Controls the analog preamp gain of the signal fed into the processor. When turned up, fat and saturated signals are sent to the record head. Turn down for cleaner delay signals.

Class A Analog JFET Input Buffer-Touch response and dynamic interaction with your guitar are optimized with a discrete class A JFET buffer.

**MECHANICS**

Controls the amount of mechanically related speed fluctuations and media irregularities, including: friction, creases, splices, and contaminants.
Set to minimum for a fresh, clean recording medium. Set to maximum for a recording medium that is in need of service.

**LOW CUT**

Controls the low frequency shaping of the echo repeats. Set to minimum for extended low frequency bandwidth. Set to maximum for extremely high-passed repeats.

**WEAR**

Controls the wear of the media and heads which affects the fidelity of the high frequencies. Set to minimum for a fresh, full bandwidth sound.

**TYPE**

Selects between three available magnetic media types.

drum: Steel wire spinning platter. Atmospheric echoes emphasize the low-mid frequencies and will saturate with hot signals or high feedback.
tape: Magnetic tape used in vintage echo machines. Warm tape response with moderately clean and airy signal path.
studio: Clean studio-grade tape used in reel-to-reel units.
Front Panel - Head Configuration

**feedback**
Enables or disables feedback of the corresponding **playback** head signal to the record head.

**PANNING**
Turn the **TIME** knob while pressing and holding the individual **feedback** buttons to adjust the panning for each playback head. Adjusting the knob to twelve o’clock returns the head to the center position (the corresponding **playback** button will light up **RED**.)

**NOTE:** A head can be fed back to the input even if its **playback** is disengaged.

**NOTE:** When all heads are panned to center, a psychoacoustic stereo process is applied to the delay signal.

**playback**
Selects which of the individual playback heads are engaged (**GREEN** LED ON).

**HEAD VOLUME**
Press and hold for one second to toggle between half and full volume.
**GREEN** LED ON = full volume.
**AMBER** LED ON = half volume.

**REPEATS**
Controls the feedback amount for the heads that have their feedback enabled.

**SPACING**
Adjusts the spacing between the heads. Turning the knob morphs the heads in between the marked settings.

**SPACING CONFIGURATIONS**

- **even:** Sets the heads evenly to produce delays of sixteenth note, eighth note, dotted eighth, and quarter note.
- **triplet:** Sets heads to sixteenth note triplet, eighth note triplet, quarter note triplet and quarter note.
- **golden:** Sets the distances between each of the heads according to the golden ratio, resulting in the fastest density buildup when multiple heads are repeating.
- **silver:** Sets the distances between heads according to the silver ratio, resulting in repeats that “bunch up” closer to the head 4 quarter note.
Front Panel - Time and Mix

**TIME**
Controls the delay time at head 4. Heads 1-3 subdivide proportionately according to the SPACING setting. Turn the knob to the left for shorter delays and to the right for longer delays. Delay time ranges vary by selected speed setting.

Delay Ranges at head 4
- half: 400ms - 4 sec
- normal: 200ms - 2sec
- double: 100ms - 1sec

**NOTE:** The delay time is determined by a combination of two factors: the distance between the record and playback heads and the speed of the media. The distance is determined by the TIME knob. The SPEED switch selects the speed of the media.

**SPEED**
Selects the speed of the media.

**ECHO LEVEL**
Sets the overall delay signal level sent to the output.

**SPRING**
Controls the output mix of the integrated spring reverb tank. The dry signal input and ECHO LEVEL knob control the signals feeding into the spring reverb effect. The reverb effect is located just before the output. To bypass, turn the knob all the way to the left.

**NOTE:** The shortest possible delay time is achieved by setting SPACING to triplet and selecting head 1.
Rear Panel

**INST/LINE Switch**
Sets the input level to the effect processing. Setting to LINE adds 10dB of clean headroom.
- Use INST for guitars or instruments with lower output.
- Use LINE for synthesizers, or when placing Volante in the effects loop of an amplifier or mixer, or for guitar rigs with high output levels if more clean headroom is desired.

**INPUTS**
High impedance audio inputs. Use **LEFT IN** for mono input. Connect a jack to the **RIGHT IN** for stereo input.

**OUTPUTS**
Audio signal outputs. Use **LEFT OUT** for mono output. *(See page 20 for details.)*

**MIDI IN**
Full featured 5-pin DIN MIDI input. Provides support for receiving:
- MIDI Program Change (PC) messages to recall up to 300 presets.
- MIDI Continuous Controller (CC) messages to control the individual parameters of Volante including all knobs, switches, buttons, and Live Edit functions.
- MIDI Clock to sync the delay time with an external MIDI Clock source.

**MIDI OUT**
Can be set to send MIDI messages received at the **MIDI IN** port or send MIDI data generated by Volante. *(See page 15 for details.)*

**NOTE:** Volante can respond to MIDI Clock along with MIDI PC and MIDI CC messages received at the **MIDI IN** or **USB** on the assigned MIDI Channel. *(See page 15 for details.)*
Rear Panel (cont.)

EXP

To configure the EXP jack, press and hold the TAP button while powering up Volante. Turn the ECHO LEVEL knob to select the mode. The current mode will be displayed on the TAP LED.

Expression Pedal Mode = GREEN: Allows continuous control over any of the knobs in any direction with a standard TRS expression pedal.  
(See page 13 for details.)

External TAP Mode = AMBER: Allows you to use an external MiniSwitch to control the TAP tempo.

Preset Mode = BLUE: Allows for the selection of up to three presets using a Strymon MultiSwitch Plus or 300 Presets by sending MIDI Program Change messages via ¼” TRS MIDI connection.

Speed Mode = PURPLE: Toggle between the three settings of the SPEED switch using a Strymon MultiSwitch Plus.

Transport Mode = RED: Provides access to additional transport controls using a Strymon MultiSwitch Plus.

SOS Looper Mode = WHITE: Provides instant access to the SOS Looper controls using a MultiSwitch Plus.

(See page 16 for details.)

USB

Used for connecting to a computer to control via MIDI.

POWER

Use an adapter with the following rating: 9VDC center negative. 300mA minimum.
Footswitches

**ON**
Activates audio processing. Press to engage (GREEN LED ON) or bypass (LED OFF) the effect. Press and hold to activate infinite repeats with oscillation (AMBER LED ON).

BYPASS is configured for True Bypass (using electromechanical relays) by default, but can also be set to Buffered Bypass.

*(See page 15 for details.)*

**TAP**
Sets quarter note delay time for Playback Head 4. The TAP LED will flash to indicate the delay time in quarter notes. TAP ranges are as follows:

- **half** - 100ms to 4sec
- **normal** - 100ms to 2sec
- **double** - 100ms to 2sec
Footswitches (cont.)

FAVORITE

RECALL ACTIVE FAVORITE
Press the FAVORITE footswitch once to engage the active onboard preset.

CHOOSE ACTIVE FAVORITE
While holding down the FAVORITE footswitch, the playback/feedback buttons represent preset locations. Press one of these buttons to select the active favorite.

SAVE TO A PRESET LOCATION
Press and hold the FAVORITE footswitch until the LED flashes BLUE to enter SAVE mode, then release the footswitch.

There are three ways to select a preset location and complete the save:

• Press the FAVORITE footswitch to save to the currently selected preset location.

• Press one of the eight playback/feedback buttons to save to the corresponding preset location.

• Send Volante a MIDI Program Change message to save to the corresponding preset location.

Saving a favorite saves all knob, switch, and button settings, as well as all Live Edit functions and expression control settings.

To exit without saving, press the TAP footswitch.

NOTE: The eight presets associated with the playback and feedback buttons are assigned to MIDI Program Changes 0-7.
Sound on Sound (SOS)

Press and hold TAP to enter and exit SOS mode. The ON LED will illuminate AMBER when in SOS mode. The functionality of all the footswitches changes when in SOS mode, as described below.

**ON**

Press ON [reverse] momentarily to reverse the playback of the Sound on Sound looper. [RED ON LED]

Press and hold to enter Infinite mode which disables the record head and continuously plays the most recent loop length audio without degrading. [Blinking ON LED]

**FAVORITE**

Press FAVORITE [pause] momentarily to Stop/Resume playback of the recorded loop.

Press and hold pause to stop playback of the tape with mechanical slowdown effect. Release pause to resume playback with mechanical startup effect. ([AMBER ON LED])

**SPEED**

SOS mode max recording time:
- half - 64 sec
- normal - 32 sec
- double - 16 sec

**TAP**

Press TAP [splice] once to set the splice in point of the loop. [TAP LED blinks AMBER]

Press splice again to splice out and start loop playback from splice in point. [TAP LED solid AMBER]

Press splice once more to clear the recorded loop. [TAP LED off]

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NOTE: Volante can adjust the Pause Ramp Speed, SOS Repeat Level, and the SOS Loop Level independently.

(See page 12 for details.)
Sound on Sound (SOS) (cont.)

How to record a loop.

1. Press and hold TAP to enter SOS mode.

2. Press TAP (splice) once to start recording. (TAP LED will flash AMBER)

3. Press splice again to close loop and start playback. (TAP LED solid AMBER)

4. Press splice again to stop loop playback and delete loop.

**ADDITIONAL SOUND ON SOUND TIPS:**

**INFINITE HOLD**
Press and hold the ON (∞) footswitch for one second to enter Infinite mode to disable the record head and prevent the recorded loop from degrading. (Blinking ON LED)

**REVERSE**
To play the recorded loop in reverse, momentarily press the ON (reverse) footswitch to engage the reverse function and play the recorded loop backwards. (ON LED RED)

**PAUSE**
To pause the recorded loop without deleting, press FAVORITE (pause). (AMBER FAVORITE LED)
Press and hold pause to stop playback of the loop with mechanical slowdown effect. Release pause to resume playback with mechanical startup effect. Pause ramp speed can be adjusted. (See page 12 for details.)

**NOTE:** With Volante’s EXP jack set to SOS Looper Mode, you can have instant access to the looper controls with MultiSwitch Plus. (See page 16 for details.)
Live Edit Functions

Volante provides a way to adjust several settings that do not have a dedicated knob or switch. In order to access these functions, press and hold FEEDBACK buttons 1 and 4 together while turning the assigned knobs.

- **MIDI CLOCK**
  Turn REC LEVEL knob to have Volante sync with MIDI clock. ON LED indicates selection.
  
  Off = **RED** (default)
  On = **GREEN**

- **PAUSE RAMP SPEED**
  Turn MECHANICS knob to adjust. Turning the knob to the left makes the pause ramp more slowly. Turning the knob to the right makes the pause ramp more quickly.

- **SOS REPEAT LEVEL**
  Turn REPEATS knob to adjust. Turning the knob to the left decreases the number of SOS loop repeats.

- **SOS LOOP LEVEL**
  Turn ECHO LEVEL knob to adjust. Turning the knob to the left turns down the SOS loop volume.

- **RESPOND / IGNORE MIDI EXPRESSION**
  Turn the LOW CUT knob to select whether Volante will respond to MIDI Expression CC #100. ON LED indicates selection.
  
  Off = **RED** (default)
  On = **GREEN**

- **SPRING DECAY**
  Turn SPRING knob to adjust. Turning the knob to the left shortens the spring reverb decay. Turning to the right provides a longer reverb decay.

*NOTE:* Each of these parameters are saved independently in each preset.
Expression Pedal Setup

Use a TRS Expression pedal to control the knobs of Volante.

1. Configure the EXP jack for Expression mode. *(See page 7 for details.)*

2. Connect the Expression pedal to the EXP jack of Volante using a TRS cable.

3. Press and hold feedback 2 and 3 buttons for one second until all the buttons are flashing GREEN.

4. Rock the expression pedal back to the HEEL position and all the feedback buttons will flash GREEN.

5. Set the knobs the way you would like them to be in the HEEL position. The feedback buttons will now flash RED.

6. Rock the expression pedal forward to the TOE position and all the playback buttons will flash GREEN.

7. Set the knobs the way you would like them to be in the TOE position. The playback buttons will now flash RED.

8. Press any feedback button to store and exit setup. Buttons will stop flashing.

**NOTE:** Expression pedal settings are saved and recalled as part of the on-board favorite setting and MIDI accessible presets.
Power Up Modes

Global parameters and functions can be accessed via a power up procedure. All power up functions persist through power cycles.

- Start with the pedal unplugged. Press and hold the TAP footswitch and then power the pedal by connecting the 9V power cable.
- Adjust the desired functions with the knobs and buttons noted below.
- Press the TAP footswitch to exit power up mode.

**SET MIDI CHANNEL**

Turn the REC LEVEL knob to select. ON LED indicates channel selection.

1 = GREEN (default)
2 = AMBER
3 = RED
4-16 = BLUE (channel set by next MIDI message)

With this option, MIDI Channel is set to the channel of the next incoming MIDI Program Change message received.

**TRS MIDI OUTPUT**

Turn the TIME knob to select mode. FAVORITE LED indicates selection.

On = GREEN: Using Volante’s knobs and switches generates MIDI messages that are sent out of Volante.

Through = AMBER: Incoming MIDI messages are sent out of Volante without additional MIDI messages generated by Volante.

Off = RED: No MIDI messages are sent out of Volante.

**EXP JACK OPTIONS**

Turn ECHO LEVEL knob, status shown on TAP LED.

*(See page 7 for details.)*
Power Up Modes (cont.)

- Start with the pedal unplugged. Press and hold the TAP footswitch and then power the pedal by connecting the 9V power cable.
- Adjust the desired functions with the knobs and buttons noted below.
- Press the TAP footswitch to exit power up mode.

MIDI PROGRAM CHANGE
Press the PLAYBACK 2 button.
Send MIDI Program Change On = GREEN
Send MIDI Program Change Off = RED (default)

SEND MIDI CC
Press the PLAYBACK 1 button.
Send MIDI CC On = GREEN
Send MIDI CC Off = RED (default)

BYPASS MODE
Press the FEEDBACK 1 button.
True Bypass = GREEN (default)
Buffered Bypass = RED

SPILLOVER
Press the FEEDBACK 2 button.
Enabling Spillover automatically puts Volante into Buffered Bypass mode.
Persist On = GREEN
Persist Off = RED (default)

KILL DRY
Press the FEEDBACK 4 button.
Kill Dry On = GREEN (dry signal is not present)
Kill Dry Off = RED (dry signal is present) (default)

OUTPUT SUM ON/OFF
Press the FEEDBACK 3 button.
Sum the output signal to mono. Use LEFT OUT for summed mono signal.
Off - STEREO = GREEN (default)
On - MONO SUM = RED
(See page 20, 21 for details.)
MultiSwitch Plus

1. Configure the EXP jack for MultiSwitch Plus mode. (See page 7 for details.)

2. Connect the MultiSwitch Plus to the EXP jack of Volante using a TRS cable.

3. Press and hold the A footswitch on MultiSwitch Plus when connecting the TRS cable to MultiSwitch Plus for Preset mode.

3. Press and hold the C footswitch on MultiSwitch Plus when connecting the TRS cable to MultiSwitch Plus for Speed mode or Transport mode.

<table>
<thead>
<tr>
<th>Preset Mode (onboard presets)</th>
<th>Preset 1 (playback 2)</th>
<th>Preset 2 (playback 3)</th>
<th>Preset 3 (playback 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>half</td>
<td>normal</td>
<td>double</td>
</tr>
<tr>
<td>Speed Mode</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transport Mode</td>
<td>reverse</td>
<td>pause</td>
<td>infinite</td>
</tr>
<tr>
<td>SOS Looper Mode</td>
<td>infinite</td>
<td>pause w/ mechanics</td>
<td>splice</td>
</tr>
</tbody>
</table>

4. MultiSwitch Plus will now function according to the EXP jack mode you have chosen in step one.

NOTE: When in SOS Looper Mode, pressing and holding the C footswitch on MultiSwitch Plus will exit the SOS Looper, returning Volante back to normal operation. The infinite and pause w/ mechanics functions on MultiSwitch Plus will also work while in normal operation.

NOTE: The Speed and Transport mode controls work in both SOS and Normal operation.
Factory Reset

Restore the pedal to factory default settings.

1. Press and hold the ON footswitch during power up. ON LED will blink RED.

2. Release the footswitch and turn the TIME knob from 0-100% and back two (2) times. The FAVORITE LED will change from AMBER to RED at the extremes of the knob range. All the footswitch LEDs will blink RED to indicate that the reset is taking place.

Factory Default Settings

- EXP Input Jack: Expression Mode
- Bypass Mode: True Bypass
- MIDI channel: 1
- MIDI Expression On/Off: Off
- TRS MIDI Output Mode: Off
- Send MIDI Program Change: Off
- Send MIDI CC: Off
- DIN MIDI THROUGH: On
- Kill Dry: Off
- Output Sum On/Off: Off – Stereo
- Persist: Off
MIDI - Specifications

MIDI PATCH CHANGES
Volante contains 300 preset locations, numbered sequentially from 0-299. Because MIDI Program Change messages have a maximum number of 128 (0-127) the presets are grouped into three MIDI patch banks.

- MIDI BANK 0 = PRESETS 0-127
- MIDI BANK 1 = PRESETS 128-255
- MIDI BANK 2 = PRESETS 256-299

Volante always powers up in MIDI Patch Bank 0, so if you plan to stay within the first 127 presets, simply send a standard MIDI Program Change message to load a preset.

If you will be using MIDI Banks 1 and/or 2, it is advisable to send a standard MIDI Bank Change message (MIDI CC# 0 with a value equal to the MIDI Bank#) before each MIDI Program Change.

Selecting bank 0, patch 127 will put Volante into Manual mode. In this mode, the pedal will be set to the current knob and switch settings. No preset data can be stored at this preset location.

MIDI CC NUMBERS

<table>
<thead>
<tr>
<th>PARAMETERS</th>
<th>CC#</th>
<th>RANGE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bank Select</td>
<td>0</td>
<td>0-2</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>11</td>
<td>1-3</td>
<td>{1=studio, 2=drum, 3=tape}</td>
</tr>
<tr>
<td>Echo Level</td>
<td>12</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Rec Level</td>
<td>13</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Mechanics</td>
<td>14</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Wear</td>
<td>15</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Low Cut</td>
<td>16</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>17</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Spacing</td>
<td>18</td>
<td>0-127</td>
<td>{even=0, triplet=34, golden=94, silver=127}</td>
</tr>
<tr>
<td>Speed</td>
<td>19</td>
<td>1-3</td>
<td>{1=double, 2=half, 3=normal}</td>
</tr>
<tr>
<td>Repeats</td>
<td>20</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Head 1 Playback Off/On</td>
<td>21</td>
<td>0, 127</td>
<td>{0=off, 1-127=on}</td>
</tr>
<tr>
<td>Head 2 Playback Off/On</td>
<td>22</td>
<td>0, 127</td>
<td>{0=off, 1-127=on}</td>
</tr>
<tr>
<td>Head 3 Playback Off/On</td>
<td>23</td>
<td>0, 127</td>
<td>{0=off, 1-127=on}</td>
</tr>
<tr>
<td>Head 4 Playback Off/On</td>
<td>24</td>
<td>0, 127</td>
<td>{0=off, 1-127=on}</td>
</tr>
<tr>
<td>Head 1 Level</td>
<td>25</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Head 2 Level</td>
<td>26</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Head 3 Level</td>
<td>27</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Head 4 Level</td>
<td>28</td>
<td>0-127</td>
<td></td>
</tr>
</tbody>
</table>

Continued on next page...
## MIDI - Specifications (cont.)

<table>
<thead>
<tr>
<th>PARAMETERS</th>
<th>CC#</th>
<th>RANGE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head 1 Pan</td>
<td>29</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Head 2 Pan</td>
<td>30</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Head 3 Pan</td>
<td>31</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Head 4 Pan</td>
<td>32</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Head 1 Feedback Off/On</td>
<td>34</td>
<td>0, 127</td>
<td>{0=off, 1-127=on}</td>
</tr>
<tr>
<td>Head 2 Feedback Off/On</td>
<td>35</td>
<td>0, 127</td>
<td>{0=off, 1-127=on}</td>
</tr>
<tr>
<td>Head 3 Feedback Off/On</td>
<td>36</td>
<td>0, 127</td>
<td>{0=off, 1-127=on}</td>
</tr>
<tr>
<td>Head 4 Feedback Off/On</td>
<td>37</td>
<td>0, 127</td>
<td>{0=off, 1-127=on}</td>
</tr>
<tr>
<td>Pause ramp speed</td>
<td>38</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Spring [level]</td>
<td>39</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Spring Decay</td>
<td>40</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>SOS mode</td>
<td>41</td>
<td>0, 127</td>
<td>{0=normal, 1-127=SOS}</td>
</tr>
<tr>
<td>Pause (no ramp)</td>
<td>42</td>
<td>0, 127</td>
<td>{0=unpause, 1-127=pause}</td>
</tr>
<tr>
<td>Pause (ramp)</td>
<td>43</td>
<td>0, 127</td>
<td>{0=unpause, 1-127=pause}</td>
</tr>
<tr>
<td>Reverse</td>
<td>44</td>
<td>0, 127</td>
<td>{0=normal, 1-127=reverse}</td>
</tr>
<tr>
<td>Infinite Hold (w/ oscillation)</td>
<td>45</td>
<td>0, 127</td>
<td>{0=release, 1-127=hold}</td>
</tr>
<tr>
<td>Infinite Hold (w/o oscillation)</td>
<td>46</td>
<td>0-127</td>
<td>{0=release, 1-127=hold}</td>
</tr>
<tr>
<td>SOS Repeats Level</td>
<td>47</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>SOS Loop Level</td>
<td>48</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>SOS Record/Splice/Clear</td>
<td>49</td>
<td>any</td>
<td></td>
</tr>
<tr>
<td>Exit SOS Looper</td>
<td>50</td>
<td>any</td>
<td></td>
</tr>
<tr>
<td>MIDI Expression Off/On</td>
<td>60</td>
<td>0, 127</td>
<td>{0=off, 1-127=on}</td>
</tr>
<tr>
<td>MIDI Clock Off/On</td>
<td>63</td>
<td>0, 127</td>
<td>{0=off, 1-127=on}</td>
</tr>
<tr>
<td>Echo On/Off</td>
<td>78</td>
<td>0, 127</td>
<td>{0=off, 127=on}</td>
</tr>
<tr>
<td>Reverb On/Off</td>
<td>79</td>
<td>0, 127</td>
<td>{0=off, 127=on}</td>
</tr>
<tr>
<td>Footswitch On</td>
<td>80</td>
<td>0, 127</td>
<td>{0=release, 1-127=press}</td>
</tr>
<tr>
<td>Footswitch Favorite</td>
<td>81</td>
<td>0, 127</td>
<td>{0=release, 1-127=press}</td>
</tr>
<tr>
<td>Footswitch Tap</td>
<td>82</td>
<td>0, 127</td>
<td>{0=release, 1-127=press}</td>
</tr>
<tr>
<td>Persist</td>
<td>83</td>
<td>0, 127</td>
<td>{0=persist off, 1-127=persist on}</td>
</tr>
<tr>
<td>Kill Dry</td>
<td>84</td>
<td>0, 127</td>
<td>{0=dry off, 1-127=dry on}</td>
</tr>
<tr>
<td>Output Sum</td>
<td>85</td>
<td>0, 127</td>
<td>{0=stereo, 1-127=sum}</td>
</tr>
<tr>
<td>Remote Tap</td>
<td>93</td>
<td>any</td>
<td></td>
</tr>
<tr>
<td>Expression Pedal</td>
<td>100</td>
<td>0-127</td>
<td></td>
</tr>
<tr>
<td>Bypass/On</td>
<td>102</td>
<td>0, 127</td>
<td>{0=bypass, 1-127=on}</td>
</tr>
</tbody>
</table>
Output Modes

Depending on how you have Volante connected, the signal routing will be as follows.

**MONO IN - MONO OUT**
Mono signal (e.g. a guitar or pedal) connected to LEFT IN. Dry signal goes from LEFT IN to LEFT OUT. Processed signal path shown in diagram.

**MONO IN - STEREO OUT**
Mono signal connected to LEFT IN. Dry path goes from LEFT IN to both LEFT OUT and RIGHT OUT.

**STEREO IN - STEREO OUT**
Stereo signal (e.g. a pedal or DAW) is connected to LEFT IN and RIGHT IN. The stereo dry path goes from LEFT IN and RIGHT IN to LEFT OUT and RIGHT OUT.

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**NOTE:** With a mono input, the signal is sent to both the left and right analog preamps. This is done to improve the signal to noise ratio.
Output Modes (cont.)

STEREO IN - MONO OUT (SUM MODE)
Stereo signal connected to LEFT IN and RIGHT IN. The stereo dry path starts from LEFT IN and RIGHT IN, is summed to mono, and then sent to LEFT OUT.
Set OUTPUT SUM ON/OFF to On – MONO SUM in Volante’s Power Up Modes.
(See page 15 for details.)

NOTE: If you are using stereo out connections, but would like to output in mono, enable SUM mode to send a summed mono signal to the LEFT OUT.

MONO IN - STEREO OUT (SUM MODE)
Mono signal connected to LEFT IN. The dry path goes from LEFT IN to LEFT OUT.

NOTE: In SUM mode, all audio will be routed to the LEFT OUT even if a jack is connected to the RIGHT OUT. This is useful if you do not want to disconnect a complex stereo rig.
Signal Flow Diagram

Below is a schematic representation of Volante’s signal paths.
Features

• Multi-head magnetic media delay machine providing four playback heads with individual feedback, panning, and level controls

• Processor-intense algorithms deliver meticulously nuanced recreations of vintage magnetic echo systems (drum echo, tape echo, studio reel-to-reel echo)

• Dedicated control over echo machine tone and media: Low Cut, Mechanics, Wear

• Input Record Level for clean reproduction to warm, fat saturation

• Independent Spring Reverb

• Sound on Sound looping mode with reverse, pause, splice, and infinite repeat functions

• High impedance stereo input

• Stereo output

• Input Level switch allows for both instrument and line level signals

• On, Favorite, and Tap Tempo footswitches

• Expression pedal input allows the connection of an expression pedal, external tap pedal, 1/4” to MIDI cable, or MultiSwitch Plus

• Full featured MIDI in/out supporting MIDI CCs, program changes, and more

• USB jack for controlling MIDI via computer

• Analog dry path for a zero latency dry signal that is never converted to digital

• Premium JFET analog front end

• Ultra low noise, high performance 24-bit 96kHz A/D and D/A converters provide uncompromising audio quality

• Super high performance SHARC DSP

• 32-bit floating point processing

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Impedance</td>
<td>1M Ohm</td>
</tr>
<tr>
<td>Output Impedance</td>
<td>100 Ohm</td>
</tr>
<tr>
<td>A/D &amp; D/A</td>
<td>24-bit 96kHz</td>
</tr>
<tr>
<td>Max Input Level</td>
<td>+8dBu</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>20Hz to 20kHz</td>
</tr>
<tr>
<td>Signal to Noise</td>
<td>115dB typical</td>
</tr>
<tr>
<td>DSP performance</td>
<td>1585 MegaFLOPS</td>
</tr>
<tr>
<td>Bypass Switching</td>
<td>True Bypass (electromechanical relay switching)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>4.5” deep x 7” wide x 1.75” tall</td>
</tr>
<tr>
<td></td>
<td>(11.4 cm deep x 10.2 cm wide x 4.4 cm tall)</td>
</tr>
</tbody>
</table>

Power Adapter Requirements

Use an adapter with the following rating: 9VDC center negative; 300mA minimum.
Factory Preset Settings

Preset 1 (playback 1): Middle In

Preset 2 (playback 2): Head-on

Preset 3 (playback 3): High Pass Tape

Preset 4 (playback 4): Silken Sea

Preset 5 (feedback 1): Tape 123

Preset 6 (feedback 2): Studio Regen

Preset 7 (feedback 3): 3 Headed Drum

Preset 8 (feedback 4): Tape Dreams

● on  ● half volume  ○ off
Strymon Non-Transferrable Limited Warranty

Warranty
Strymon warranties the product to be free from defects in material and workmanship for a period of two (2) years from the original date of purchase when bought new from an authorized dealer in the United States of America or Canada. If the product fails within the warranty period, Strymon will repair or, at our discretion, replace the product at no cost to the original purchaser. Please contact your dealer for information on warranty and service outside of the USA and Canada.

Exclusions
This warranty covers defects in manufacturing discovered while using this product as recommended by Strymon. This warranty does not cover loss or theft, nor does the coverage extend to damage caused by misuse, abuse, unauthorized modification, improper storage, lightning, or natural disasters.

Limits of Liability
In the case of malfunction, the purchaser’s sole recourse shall be repair or replacement, as described in the preceding paragraphs. Strymon will not be held liable to any party for damages that result from the failure of this product. Damages excluded include, but are not limited to, the following: lost profits, lost savings, damage to other equipment, and incidental or consequential damages arising from the use, or inability to use this product. In no event will Strymon be liable for more than the amount of the purchase price, not to exceed the current retail price of the product. Strymon disclaims any other warranties, expressed or implied. By using the product, the user accepts all terms herein.

How to Obtain Service Under this Warranty
For North American customers: Contact Strymon through our website at strymon.net/support for Return Authorization and information. Proof of original ownership may be required in the form of a purchase receipt.

For International Customers: Contact the Strymon dealer from which the product was purchased from in order to arrange warranty repair service.

Strymon® is a division of Damage Control®, LLC.