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Introduction

Create expansive soundscapes and evolving, otherworldly tones. Add layers upon layers of harmonic and rhythmic complexity within an enveloping stereo field. Infuse your rack with vintage warmth and retrofuturistic soul.

Packed with powerful features while maintaining intuitive playability, Magneto is a stereo multi-head tape delay that also functions as a looper, phrase sampler, vintage spring reverb unit, phase-aligned clock multiplier, chaotic oscillator, zero latency suboscillator and more, with extensive CV I/O.

Turn simple monophonic signals into complex orchestrations. Create new oscillator tones using self-oscillation. Add rich stereo dimension to your sound, and enjoy the inherent warmth and sweet, subtle distortion characteristics of magnetic tape. Magneto transforms even the smallest rack into a fully expressive, immersive instrument.

Features

- Tape-Voiced Delay machine with four playback heads, one record head
- Processor-intense dTape algorithm delivers meticulously nuanced recreations of vintage tape echo systems
- Three operational modes: Echo, Sound-on-Sound Looper, Phrase Sampler
- Varispeed algorithm with dynamic machine mechanics, 8:1 speed range
- Input record level (REC LVL) for clean reproduction to warm, fat saturation
- Maximum Delay/Loop Time: 15 seconds at max Speed, two minutes at min Speed
- Self-oscillating for tone generation
- Transport controls (buttons and CV inputs) for real-time performance options
- Independent Spring Reverb
- Individual Playback Head Level controls
- Individual Head feedback assignment independent of playback level
- Phase aligned clock out (CLK OUT) CVs synched with clock in (CLK IN) CV
- Clock In CV Range: 50ms – 15s
- TAP Button Range: 50ms – 15s
- TAP CV Range: 10ms – 15s
MAGNETO - Four Head dTape Echo & Looper

MODES & TAP Button

The MODES button toggles between ECHO, LOOP and SAMPLE.

The TAP button changes the head spacing to achieve the desired delay time at the current machine speed.

**ECHO mode:** (GREEN LED) Four head tape delay, with four playback heads and one record head.

- **TAP** button changes the head spacing to achieve the desired delay time at the current machine speed.

**NOTE:** The delay TAP range is 50ms-15s, regardless of tape speed setting.

**LOOP mode:** (AMBER LED) Sound-on-Sound looper. Tape head 4 is the looper playback head while tape heads 1-3 provide delay repeats for the incoming signal.

- **FEEDBACK ON/OFF** button for Playback Head 4 must be ON to enable S.O.S. loop playback.

**To Record a Loop:**

- Press the TAP button once to Splice In. Press TAP a second time to Splice Out and begin loop playback. Pressing TAP a third time will clear the recorded loop.

- The REPEATS knob controls regeneration strength. Set lower REPEATS level for loops that evolve over time.

- Adjust Playback Level 4 to set Loop playback level.

- Feedback 4 must be engaged for Loop Playback.

- Tap to splice in and begin recording loop

- Tap again to splice out marking the end of the loop and begin loop playback

- Tap a third time to clear loop
MODES & TAP Button (cont.)

**SAMPLE mode:** *(RED LED)* Phrase sampler records an audio phrase between two taps of the TAP button. Transport **RESTART** *(▶)* triggers phrase playback.

Press the TAP button once to start sample recording, again to stop recording, and a third time to clear the sample memory.

Trigger sample playback with the RESTART transport button or **RESTART** CV input.

**TIP:** Connect **CLK OUT 4** to **RESTART** CV for continuous re-triggering of the recorded sample.

**NOTE:** In **LOOP** and **SAMPLE** mode, the maximum time between SPLICE IN and SPLICE OUT (or SAMPLE START and SAMPLE END) is determined by the tape Speed.
**SPEED/PITCH & Delay Time**

**Setting Delay Time with TAP & SPEED/PITCH**

The delay time for any analog tape delay is determined by a combination of two factors – the distance between the heads and the speed of the tape. On Magneto, both of these can be adjusted independently.

Magneto’s TAP button adjusts the delay time by changing the distance between the heads and does not affect the pitch or fidelity of the delay signal.

The SPEED/PITCH knob adjusts the delay time by controlling the speed of the tape. Magneto features a true varispeed tape system with pitch artifacts as the SPEED/PITCH knob is adjusted faster (higher pitch, shorter delay time) or slower (lower pitch, longer delay time). Higher tape speeds result in higher fidelity delay repeats, while lower lower tape speeds yield lower fidelity delay. With slower tape speeds, the CRINKLE and WOW & FLUTTER controls affect the sound much more than at faster speeds.

The total range of the SPEED/PITCH knob is a factor of 8, where 12 o’clock noon position is normal speed, max SPEED/PITCH knob setting is 2x speed, minimum SPEED/PITCH knob setting is 1/4 speed, and 1/2 speed is available at about 9 o’clock on the SPEED/PITCH knob.

**Delay RANGE:** 200μs minimum, 120 seconds max.

**NOTE:** The maximum delay time is achieved by tapping in a 15 second delay with the SPEED/PITCH knob at maximum (double SPEED). Reducing the speed to minimum will multiply this delay time by a factor of 8, resulting in a 2 minute (240 second) delay at HEAD 4.

**NOTE:** The minimum delay time is achieved by applying a 10ms clock to the TAP CV with the SPEED/PITCH knob at minimum (quarter SPEED). Turning the SPEED/PITCH to maximum will divide this delay time by a factor of 8, resulting in a delay time of 1.25ms at HEAD 4. Selecting HEAD 1 in TRIPLET mode further divides this by a factor of 6, resulting in a delay of 200μs.
Audio I/O

INS AND OUTS

LEFT/RIGHT IN: Left and Right audio inputs. Use LEFT IN for mono input.

LEFT/RIGHT OUT: Left and Right audio outputs. If only one output is connected, Delay output sums to mono.

FEEDBACK LOOP

An insert between the summed input signal + delay repeats and the Record Head. Can be used for sending delays and loop playback out to be processed by external effects via the SEND jack, and looped back into Magneto via the RETURN jack.

SEND: Summed input signal + delay repeats are sent out to be processed by other devices.

RETURN: Externally processed signal is returned and fed to the Record Head.

Delay repeats are summed to mono when both SEND/RETURN jacks are connected; dry signal retains stereo image.
PLAYBACK LEVEL & FEEDBACK ON/OFF

PLAYBACK LEVEL

**Knobs 1-4:** Controls the individual level of the delay repeats for each of the four tape heads.

- **WET:** Sets the overall delay signal level sent to the output after the Playback Level knobs.

- **REPEATS:** Controls the feedback level of the delay repeats for the tape heads that have their FEEDBACK toggle set to **ON**.

FEEDBACK ON/OFF

Enables or disables **FEEDBACK** of the corresponding tape head signal to the record head. Buttons are **GREEN** during this operation.

**Example 1:** If **FEEDBACK** button 1 is **OFF**, this will disable the feedback of Playback Head 1 back into the delay line.

**Example 2:** If **FEEDBACK** button 1 is **ON**, the delay signal at Playback Head 1 will feed back into the delay line.

**NOTE:** A head can be fed back to the input even if its **PLAYBACK LEVEL** knob is set to zero.
Playback Head Mechanics

The following diagrams illustrate the difference between how Head 4 functions in ECHO mode and in LOOP and SAMPLE modes.

**Head Configuration in ECHO Mode**

**Head Configuration in LOOP and SAMPLE Mode**

**NOTE:** The LOOP or SAMPLE time is determined by the TAP IN/TAP OUT interval, while the Delay time of the HEADS 1, 2, and 3 is determined by the Delay Time when entering LOOP or SAMPLE mode, or by the CLOCK IN CV.
Playback Head Spacing In ECHO Mode

**HEADS**: Selects between three different modes for the tape heads. Even spacing, triplet spacing, and rhythmic shifted pitches.

**EVEN**: Sets the Playback heads with even spacing between each other.
- **Head 1**: 1/16th note delay
- **Head 2**: 1/8th note delay
- **Head 3**: dotted 8th note delay
- **Head 4**: quarter note delay

**TRIPLET**: Sets the Playback heads with triplet spacing between each other.
- **Head 1**: 1/16th note triplet delay
- **Head 2**: 1/8th note triplet delay
- **Head 3**: quarter note triplet delay
- **Head 4**: quarter note delay

**SHIFT**: Changes the playback speed of each of the four Playback heads with varispeed resulting in pitch-shifted delay repeats. In **LOOP** and **SAMPLE** modes, **SHIFT** head configuration results in playback at the speed and pitches noted below.
- **Head 1**: +1 octave +5th; 3x speed
- **Head 2**: +1 octave; 2x speed
- **Head 3**: -1 octave; half speed
- **Head 4**: No shift; quarter note repeats

**NOTE**: In **LOOP** and **SAMPLE** modes, **HEAD 1**, **2**, and **3** Delay times are determined by the Delay Time when entering **LOOP** or **SAMPLE** mode. **Head 4** time is determined by the TAP IN/TAP OUT action.
Effect Level

**DRY**: Sets the level of DRY (input) signal sent to the output. Controls the output level of the incoming unprocessed signal from the LEFT and RIGHT INPUTS to the LEFT and RIGHT OUTPUTS. With a mono input connected to LEFT INPUT, the dry signal will appear simultaneously at both the LEFT and RIGHT OUTPUTS.

**REC LVL**: Controls the level of the incoming unprocessed signal fed into the Delay Line Record head. LED shows signal level feeding into the tape machine with **BLUE** LED indicating zero gain (no signal sent to RECORD HEAD), **GREEN** LED indicating low signal (clean), **AMBER** LED indicating onset of saturation, and **RED** LED indicating the input signal is significantly saturating the record head. With high levels of saturation (RED LED), fat and rounded harmonically rich tones are sent into the delay line.

**TAPE MECHANICS AND REVERB**

**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, magnetic drum style repeats with a peaking response.

**TAPE AGE**: Controls the bandwidth of the tape. Set to minimum for a fresh, full bandwidth tape. Turn clockwise for warmer repeats. At maximum setting, a mildly peaking filter response creates atmospheric repeats at high feedback settings.

**CRINKLE**: Controls the amount and severity of tape irregularities including friction, creases, splices, and contaminants. Set to minimum for a fresh, clean tape. Set to maximum for a tape that has been mangled and chewed.

**WOW & FLUTTER**: Controls the amount of mechanically related tape speed fluctuations. Turn the knob fully counterclockwise for a perfectly tuned tape machine or fully clockwise for a tape machine in need of service.

**SPRING**: Controls the output mix of the integrated spring reverb tank. The DRY and WET knobs control the signals feeding into the spring reverb effect.
Preset Panning Options

**PAN:** Selects between three different stereo panning modes for the tape heads. When only one output jack is connected, all head signals will appear at that output summed to mono.

**LRRL:** Tape heads 1 and 4 are panned 100% to the **LEFT**, and tape heads 2 and 3 are panned 100% to the **RIGHT**.

**CENTER:** All tape heads are centered, and a psychoacoustic stereo image is produced when using stereo monitoring.

**LRLR:** Tape heads 1 and 3 are panned 100% to the **LEFT**, and tape heads 2 and 4 are panned 100% to the **RIGHT**.
Custom Panning

The panning for all four tape heads can be set manually when **PAN** switch is set to **CENTER**. To set the panning for each of the playback heads, turn the **PLAYBACK LEVEL** knob while pressing and holding down that head’s corresponding **FEEDBACK** button while in **FEEDBACK (GREEN)** mode. Turn left for left panning, right for right panning, or set to 12 o’clock noon for center panning.

To adjust the panning for Playback Head 1:

1. Set **PAN** to **CENTER**

2. Press and hold **GREEN FEEDBACK ON/OFF** button under **PLAYBACK LEVEL 1** knob.

3. While holding down **FEEDBACK ON/OFF**, turn **PLAYBACK LEVEL 1** knob to adjust panning for **PLAYBACK HEAD 1**.

**NOTE:** When all 4 tape heads are centered, a psycho-acoustic image is produced when monitoring in stereo.
TRANSPORT CONTROLS

Allows for control of the corresponding transport function. To activate transport controls press TRANSPORT button below. Buttons are RED during this operation.

SCRUB AUDIO: When tape is paused, the SPEED/PITCH knob scrubs audio.

NOTE: The audio in the scrub buffer represents about 1 foot of tape, so the length of audio in the buffer depends on the SPEED knob position when PAUSE is engaged. Slower speeds result in more recorded audio in the scrub buffer.

INFINITE: Disables the Record head and continuously plays the most recent delay cycle or loop length audio.

FORWARD/REVERSE: Reverses the playback direction of the tape from the moment the function is engaged.

In ECHO mode, the entire tape length is heard in reverse until REVERSE is pressed again.

In LOOP or SAMPLE Mode, the loop or sample is played in reverse.

RESTART: Restarts the playback of the loop or sample from the starting point in LOOP or SAMPLE mode. Aligns shifted head audio in ECHO operation. Restarts deck immediately from PAUSE, without mechanical lag.

PAUSE: Stops/Starts the playback of the tape with mechanical slowdown/startup effect. The speed of the slowdown/startup effect can be adjusted by PLAYBACK LEVEL 4 knob when the TRANSPORT and PAUSE buttons are RED (transport is paused).

MOMENTARY MODE: Power up Magneto while holding the desired transport control button to change between Momentary (flashes RED) and Latch (flashes GREEN) for that transport function. CV control will also be changed for the desired function to either Gate (RED) or Trigger (GREEN).

Example: Tape playback is reversed only while pressing and holding REVERSE button.

RESTART is always trigger regardless of custom settings. By default, transport controls are all latching switches except for RESTART.
Pitch Quantize

Press and hold the TAP button at any time to enter PITCH QUANTIZE mode (AMBER TAP LED).

This mode restricts the SPEED/PITCH knob values to relative speeds corresponding to the pitch intervals of user selectable scales.

To select a scale, press and hold the TRANSPORT button and turn the SPEED/PITCH knob to scroll through the 15 available scales. The currently selected scale will be displayed via the four FEEDBACK/TRANSPORT button LEDs, according to the table below.

SPEED CV voltages are quantized to ½ steps when in PITCH QUANTIZE mode.

SPEED CV responds to -3V to +3V, dependent on the position of the SPEED/PITCH knob. All scales have a two octave range, except for Chromatic which has a 1.2 octave range.

NOTE: When Pitch Quantize is active, the SPEED/PITCH range is 2 octaves [4:1 speed range].

SPEED / PITCH

- 1st Octave
- 2nd Octave
- HALF
- NORMAL
- DOUBLE

**Scales:***
- Pentatonic
- Minor Blues
- Major
- Dorian
- Phrygian
- Lydian
- Mixolydian
- Aeolian
- Locrian
- Harmonic Minor 5th
- Harmonic Minor
- Whole Tone
- Major in Octave jumps
- Harmonic Series
- Chromatic [1.2 octaves]
Self-Oscillation

Self-oscillation can create an infinite variety of inspiring sonic textures and can allow you to play Magneto like a musical instrument. To use self-oscillation, turn the SPEED/PITCH knob fully counter-clockwise, turn REPEATS up to 100%, and tap a very short delay.

No input signal is necessary for Magneto to self-oscillate. However, the tonality of the sound can be impacted in interesting ways if an input signal is present.

While Magneto is in self-oscillation, try adjusting the SPEED/PITCH knob, as well as the tape mechanics knobs (LOW CUT, TAPE AGE, CRINKLE, WOW & FLUTTER). The oscillating sound will evolve and change, moving through different pitches and tonalities as the knobs are adjusted.

To lock in the pitch of the oscillating tone, press the INFINITE transport control button. Although the sound will still be affected by adjustments to the tape mechanics knobs while INFINITE is engaged, the pitch will remain locked. That is, the pitch will stop evolving, but can be controlled with the SPEED/PITCH knob and/or the SPEED CV input. Note that you have the option to use PITCH QUANTIZE mode whether or not INFINITE is engaged.

SPEED CV Input and Self-Oscillation

The SPEED CV input is calibrated for 1V/octave over a range of -3V to +3V. When voltage is supplied to the SPEED CV input, the SPEED/PITCH knob still influences the resultant speed/pitch, and the incoming CV is added to the knob position. Zero volts at the SPEED CV input will not cause the speed/pitch to deviate from the knob position value. The SPEED/PITCH knob’s effective voltage is 0V at minimum, and +3V at maximum. The SPEED CV input adds to this effective voltage, being limited at the top end to +3V (fastest speed/highest pitch), and limited to -3V at the bottom end. By using the SPEED CV input, you can achieve a six octave range, allowing you to go three octaves lower than would be possible using the SPEED/PITCH knob alone without any incoming CV.

Stereo Panning and Self-Oscillation

With the PAN switch set to CENTER (and no custom panning set), your self-oscillating tone will remain in the center of the stereo image. However, if the PAN switch is set to LRLR or LRRL, the self-oscillating tone will be stereoized in a manner that depends in part on the volume levels of each playback head. This can be great for creating a wide stereo sound. However, one should be aware that, for instance, with PAN set to LRLR and PLAYBACK LEVEL knobs for heads 2 and 4 set to minimum, the self-oscillating tone would primarily be heard on the left side of the stereo image.

TIP: Let Chaos Reign! Using self-oscillation is an interactive experience where Magneto takes on a life of its own, and a kind of feedback loop is created between Magneto and you. Rather than aiming to dial in a specific sound, try just setting the process in motion and experimenting. You are likely to discover unexpected textures and tonalities that will lead you into inspiring new sonic territory.
Control Voltage Inputs

CONTINUOUS CV INPUTS (-5V TO +5V)

- **SPEED**: Controls the tape speed. (-3V to +3V, calibrated for 1V/octave).
- **WET**: Modifies the WET level.
- **REPEATS**: Modifies the REPEATS level.
- **SPRING**: Modifies the SPRING reverb level.

**TIP**: Connecting the GATE signal from a source to the RESTART CV will create a zero-latency suboctave from HEAD 3 with Magneto in SHIFT mode.

**TIP**: The knob corresponding to the continuous CV inputs acts as an offset that is mixed with the CV input.

CV INPUTS (0–5V RISING EDGE TRIGGER)

- **CLK IN**: Sets the delay time in quarter notes. (0 – 5v rising edge trigger) Clock period range – 50ms to 15s.
- **REC GATE**: Toggles the record head ON and OFF, REC LVL LED lit BLUE when input signal to the delay line is muted.
- **SHIFT**: Toggles the SHIFT effect for the Playback heads on and off.
- **INFINITE**: Toggles INFINITE transport control on and off.
- **FORWARD/REVERSE**: Toggles the FORWARD/REVERSE transport function.
- **RESTART**: Engages the RESTART transport function.
- **PAUSE**: Toggles the PAUSE transport function.
- **TAP**: Controls the function of the physical TAP button. Sets delay time in ECHO mode. Sets splice in/out/clear in LOOP mode. Sets sample record start/stop/clear in SAMPLE mode.

**TIP**: When using the SHIFT head mode with a sequenced or clocked system, sending a synchronous clock (or divided clock) to the RESTART CV will align the Shift pointers and create rhythmic pitched delays that are in sync with the input.
Control Voltage Clock Outputs

CLK 1-4 OUTs send clock outputs of Playback heads 1-4. Dependent on the HEADS switch setting and the ECHO/LOOP/SAMPLE mode setting, output clocks are always at 50% duty cycle and are phase aligned with incoming Clock or Tap signals. Examples below are for a clocked or tapped delay time of 1000ms.

ECHO MODE

EVEN:
- CLK 1 OUT: 1/16 note clock output (ex. 250ms)
- CLK 2 OUT: 1/8 note clock output (ex. 500ms)
- CLK 3 OUT: dotted 1/8 note clock output (ex. 750ms)
- CLK 4 OUT: 1/4 note clock output (ex. 1000ms)

TRIPLET:
- CLK 1 OUT: 1/16 note triplet clock output (ex. 167ms)
- CLK 2 OUT: 1/8 note triplet clock output (ex. 333ms)
- CLK 3 OUT: 1/4 note triplet clock output (ex. 667ms)
- CLK 4 OUT: 1/4 note clock output (ex. 1000ms)

SHIFT:
- CLK 1 OUT: 1/8 note triplet clock output (ex. 333ms; 3x speed)
- CLK 2 OUT: 1/8 note clock output (ex. 500ms; 2x speed)
- CLK 3 OUT: 1/2 note clock output (ex. 2000ms; half speed)
- CLK 4 OUT: 1/4 note clock output (ex. 1000ms; full speed)

In LOOP and SAMPLE modes, CLK1, CLK2, and CLK3 are the same as in ECHO mode, but CLK4 is the loop or sample length clock output.
DIP Switches

DIP switches are located on the back of the unit. Adjusting these switches will likely require Magneto to be removed from the rack.

**S1 - FEEDBACK CV MODE:**

**ON:** Allows CV trigger control of the FEEDBACK ON/OFF buttons when transport CV jack is plugged in while Transport LED is OFF. Also provides CV control of the Transport controls when a CV jack is plugged in when Transport LED is RED. Each transport CV can be assigned to either Transport or Feedback ON/OFF.

**OFF:** Standard CV control of transport whenever transport CV jacks are plugged in. [DEFAULT is OFF.]

**S2 - DUAL SPLIT MODE:**

**ON:** Selects Dual Split mode where LEFT audio IN/OUT is a mono four head tape delay, and RIGHT audio IN/OUT is mono spring reverb.

**OFF:** Standard stereo IN/OUT with the delay signal feeding into the Spring reverb. [DEFAULT is OFF.]

- **LEFT IN** - Delay Input
- **RIGHT IN** - Reverb Input
- **LEFT OUT** - Delay Output
- **RIGHT OUT** - Reverb Output
Block Diagram

TRANSPORT CONTROL AND MECHANICS

SPEED  WOW & FLUTTER  CRINKLE

TAPE

REPEATS (LEVEL)

RECORD HEAD

TAPE AGE

LOW CUT

FEEDBACK SWITCHES

PLAYBACK LEVELS

REVERB

SPRING (LEVEL)

OUTPUT

TAPE SPEED

WOW & FLUTTER

CRINKLE

TAPE

REVERB

DRY (LEVEL)

WET (LEVEL)

MONO SIGNAL

STEREO SIGNAL

INPUT

INPUT

REC LVL

SEND

RETURN

REPEATS (LEVEL)
Specifications

- Power
  - +12V rail: 210mA
  - -12V rail: 210mA
  - +5V rail: 0mA
- Rack Width: 28hp
- Rack Depth: 41mm, 1.61"
- Sampling Rate: 96kHz
- Audio Input Impedance: 22 kOhm
- Maximum Audio Input Level: 20 Vpp
- Audio Output Impedance: 1 kOhm
- Maximum Audio Output Level: 20 Vpp
- Signal To Noise Ratio: 114dB typical
Questions?

For additional help with setup, connections, power, and mounting, please visit strymon.net/support/magneto or email us at support@strymon.net.

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.