



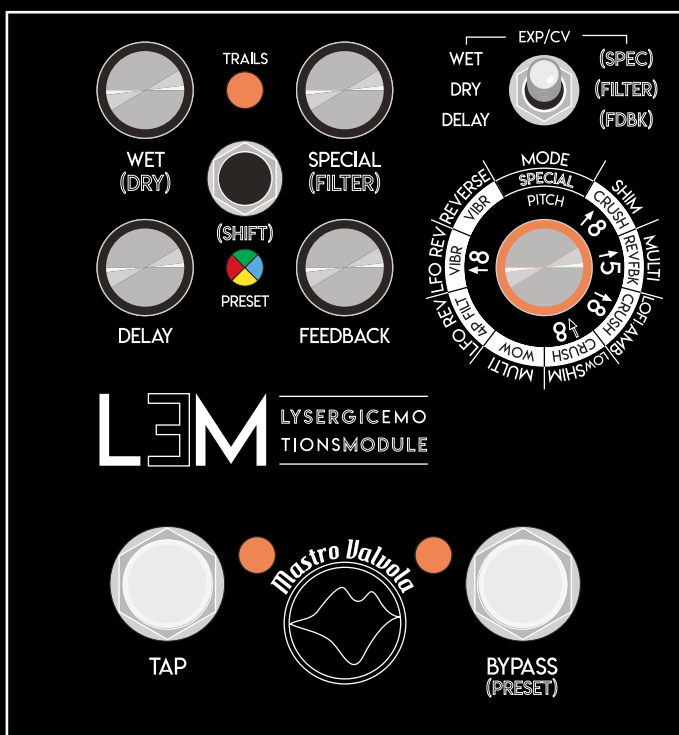
THE **LEM** IS A MULTI-HEAD DELAY PEDAL WITH 8 EFFECT MODES, DESIGNED TO INSPIRE DREAMY AND EXPERIMENTAL AMBIANCES. WHILE PLAYING WITH THIS EFFECT IT'S EASY TO RUN INTO UNIQUE, HYPNOTIC OR UNEXPECTED SOUND ENVIRONMENTS LIKE **SHIMMERING** REPEATS, **REVERSE** DELAYS, MULTI-HEAD MODULATIONS, **PITCH** SHIFTING, **LO-FI** SOUNDS AND MORE.

MAIN FEATURES

- 8 AMBIANCE TYPES
- 4 PRESETS
- TRUE BYPASS WITH TIMED **BYPASS** SYSTEM (TBS), TO MANAGE THE TRAILS AND THE BYPASS SWITCHING STYLE
 - SEPARATE DRY AND WET CONTROLS
- CTRL INPUT: **EXP/CV** OR **REMOTE** SWITCH

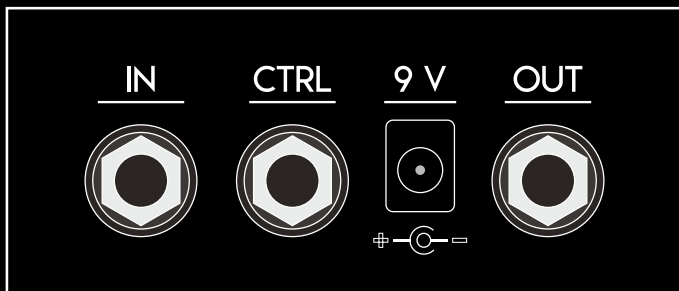
FRONT PANEL

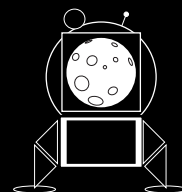
WET sets the level of the wet signal.
(DRY) sets the level of the dry signal.
DELAY sets the delay time.
SPECIAL each mode has a special effect, the Special knob controls it.
(FILTER) sets the frequency of the analog filter applied to the wet signal. The control is flat in its central position and allows you to emphasize the low frequencies going left, or the medium-high frequencies going right.
FEEDBACK sets the number of repeats.
(SHIFT) some of the controls have more than one function. The main function is indicated in **FILLED** text. Hold the **(SHIFT)** button to have access to the alternate function (**EMPTY TEXT IN BRACKETS**).
EXP / CV sets the parameter that can be managed with the Exp pedal or Control Voltage.
MODE switches between 8 types of delay modes.
TAP sets the delay time (Tap Tempo).
BYPASS (PRESET) bypasses or engages the effect. Holding **(SHIFT)** while pressing it will access the next preset. (see page 2)
TRAILS when the effect is engaged, hold the **(SHIFT)** button and bypass footswitch for 3 seconds to change the bypass mode to Trails Mode (this will make the repeats persist after the effect is turned off). When the Trails led is lit the Trails mode is engaged.



REAR PANEL

IN input mono jack
CTRL mono TS or stereo TRS cable
9V power jack 9 V DC - 100 mA
 center negative - isolated power supply
OUT output mono jack





MODES DESCRIPTION TABLE

MODE	SPECIAL	PTH	MODE DESCRIPTION - SPECIAL PARAMETER - PITCH
1 REVERSE	VIBR		Standard reverse delay - vibrato level - no pitch
2 LFO REV	VIBR	8↑	Low Freq. ramp Oscillator reverse delay - vibrato level - repetitive octave up pitch
3 LFO REV	4P FILT		Low Freq. ramp Oscillator reverse delay - 4 pole filter rate - no pitch
4 MULTI	WOW		Multi-head tape delay - WOW (tape speed fluctuations level) - no pitch
5 LOW SHIM	CRUSH	8↓	Low octave shimmer ambience - bit crusher resolution - octave down pitch
6 LO-FI AMB	CRUSH	8↑	LO-FI spatial ambience delay/reverb - bit crusher resolution - octave up pitch
7 MULTI	REV FDBK	5↑	Multi-head delay - % of each repeat playing forward or reverse - perfect fifth pitch
8 SHIM	CRUSH	8↑	Shimmer delay - bit crusher resolution - octave up pitch

SAVING A PRESET

When you have created an effect you like, you can save it in one of the 4 presets available.

- when the effect is engaged, just hold the (PRESET) and (SHIFT) button for 1 second. The led will start blinking fast;
- choose the colour of the preset you wish to save the effect by pressing the (PRESET) and (SHIFT) button (the first preset that will be available is the RED one, followed by GREEN, BLUE and then YELLOW; by pressing the (PRESET) button again after the YELLOW preset, you will exit the saving mode and go back to the previous mode);
- hold the (PRESET) and (SHIFT) button for 1 second on the chosen colour. The led will stop blinking.

When a PRESET is saved, the "now playing" parameters will be saved, including the EXP/CV control and the chosen TRAILS management mode.

When one of the presets is in use, modifying the position of one of the controls will update the relative parameter based on the new position and the led will start blinking slowly. To save the modified presets just follow the steps below.

Therefore:

Saving a preset from Manual mode, all parameters will be saved based on the position of the controls. Saving from the Preset mode, the parameters relative to the current preset will be saved, updating them based on the changes made to the controls.

CTRL (CONTROL) INPUT

The CTRL input supports 2 different methods of remotely controlling the effect. The LEM CTRL input has an automatic recognition function of the cable that is inserted. When a stereo (TRS) cable is inserted the pedal is set in the EXP / CV mode. Instead when a mono (TS) cable is inserted the pedal is set in the Remote Switch mode.

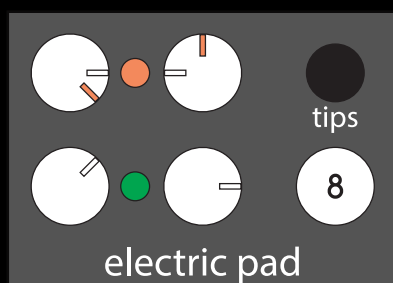
1. **Expression pedal or CV** (TRS cable). Parameter selectable via toggle switch on the front panel.
 - **Expression pedal**: the LEM supports most types of expression pedals for performance control. Just about any expression pedal that uses a TRS cable should work. Tip goes to wiper.
 - **Control Voltage** (CV) 0-5V range on Tip. The Ring should be left floating in this case.
2. **Remote**: TAP switch, PRESET switch or BYPASS switch.
 - Plug a mono cable into the CTRL port.
 - Hold the (SHIFT) button and the REMOTE footswitch for 3 seconds to switch between the 3 configurations. The first configuration that will be available is the TAP one, followed by PRESET and BYPASS. The "preset" LED will blink white to indicate that the configuration has been changed and saved. The configuration is remembered when the device is unplugged or power is turned off.

TIMED BYPASS SYSTEM (TBS)

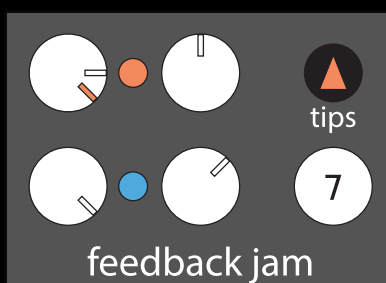
This relay-based, true bypass switching style allows you to simultaneously use momentary and latching style switching and to manage the repeats trails. When **Trails** mode is engaged and you turn the pedal off, the pedal uses the "buffered bypass" and the repeats trails die off naturally. When the repeats trails are completely dead the pedal automatically changes the bypass system in true-bypass through the internal relay.

- For standard latching operation, tap the footswitch once to activate the effect and then tap again to bypass.
- For momentary operation, hold the footswitch down for as long as you'd like to use the effect. Once you release the switch the effect will be bypassed.

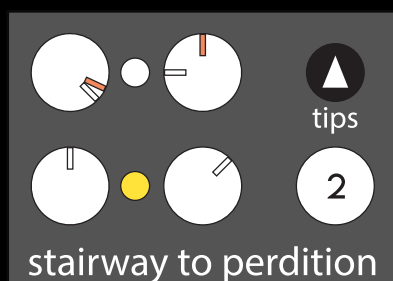
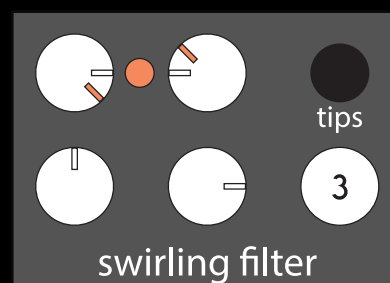
SETTINGS



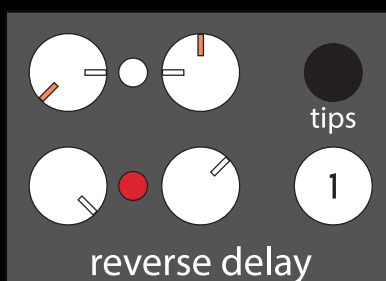
(factory green preset)



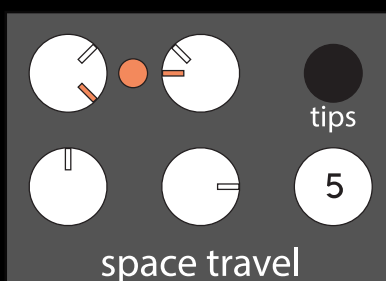
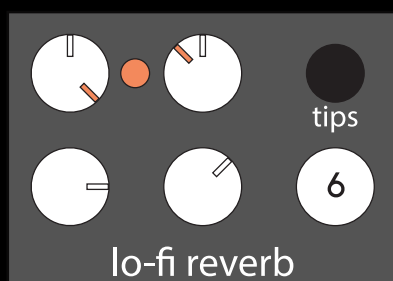
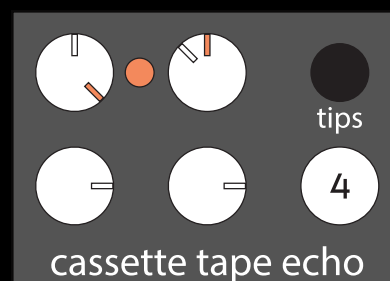
(factory blue preset)



(factory yellow preset)



(factory red preset)



Tips key: manage "special" with expression pedal modulate "wet" with Control Voltage
 use momentary bypass function