



---

# Layers™ Pedal

---

The MXR Layers Pedal blooms with rich, organic sustain that imbues every strum and pluck with resonance and depth—pull off chord voicings you never thought possible, compose transcendent melodies, orchestrate harmonic ensembles, create lively stereo pads, and more—all from a standard MXR housing.

# External Controls



- 1 CTR jack can be used to connect an expression pedal or external footswitch or to send a dry output signal when using Dry/Wet Split mode (see Advanced Operation).
- 2 FOOTSWITCH governs creation and deletion of sustain layers. Pressing the footswitch engages a layer. Holding the footswitch holds a layer indefinitely until released. Upon release, the layer fades out according to the DECAY setting. A double tap will clear all layers and put the pedal in bypass.
- 3 ATTACK knob sets the attack, or fade in, time of each layer.
- 4 MIX knob controls the level of the wet signal.
- 5 SINGLE button limits sustain effect to a single layer. By default, there are 3 simultaneous layers that overlap with each other. When SINGLE button is engaged, only one layer will be active at a time.
- 6 TRIG knob sets the sensitivity for auto triggering layers with your pick attacks. When TRIG is in the OFF position (fully counterclockwise), auto triggering is disabled, and only the FOOTSWITCH can activate layers. The TRIG LED is red by default when auto triggering is enabled; when the input signal exceeds the set threshold, the TRIG LED will turn green. Note that, for a layer to be triggered, the signal must exceed the threshold (i.e. the TRIG LED is green), and the pedal must detect a pick attack.

## External Controls (cont.)



**7** DECAY knob sets the decay, or fade out, time of each layer. For a given DECAY setting, higher frequencies will decay faster than lower frequencies, just like they do for a physical vibrating string. When TRIG knob is in the OFF position, the effect signal will automatically bypass once all three layers have fully decayed. The three layers LEDs and the main bypass LED will turn off to indicate bypassed status.

**8** SUB OCT button transposes new layers down an octave. Previously created layers will not be affected. This allows you to have some layers at the normal transposition and others shifted down an octave. This mode can be adjusted on the fly using an expression pedal to morph between different settings (see Advanced Operation). There is also a setting for only transposing the lowest frequencies of a layer down an octave (see Advanced Settings)—useful for adding bass to a layer without having the whole chord or note transposed down.

---

# Basic Operation

---

## Power

The MXR® Layers™ Pedal requires a 9-volt (300mA) center-negative power supply and can be powered by the Dunlop ECB003 9-volt adapter or the MXR® Iso-Brick™, the Iso-Brick™ Pro, and the Iso-Brick™ Mini Power Supplies. This pedal cannot be powered by a battery.

---

## Bypass

The pedal always operates with a buffered analog dry signal, mixing in the wet signal when the effect is engaged. This scheme ensures seamless transitions between engaged and bypassed states.

---

# Advanced Operation

---

## USE A KEYBOARD SUSTAIN PEDAL OR OTHER EXTERNAL SWITCH TO TRIGGER LAYERS

A keyboard sustain pedal or other external switch can be used to trigger layers instead of the built-in footswitch if the built-in footswitch is inaccessible (e.g. during desktop use) or a different tactile response is desired. First, set the CTR switch to its TAP/EXP (left) position. Next, run a standard instrument cable from the external pedal/switch to the MXR Layers Pedal's CTR jack. Note that the external pedal/switch must be a normally-open discrete switch and not a continuous TRS switch.

---

## USE AN EXPRESSION PEDAL TO BLEND BETWEEN TWO SETTING CONFIGURATIONS

An expression pedal such as the DVP5 Volume (X)<sup>TM</sup>8 Pedal can be used to toggle and sweep between two different setting configurations. First, set the CTR switch to its TAP/EXP (left) position. Next, run a TRS cable from the expression pedal to Layers Pedal's CTR jack. Set rocker to its heel-down position. Adjust knobs, and set mode buttons as desired. Move rocker to its toe-down position. Adjust knobs and mode buttons as desired to a different setting configuration. Moving the rocker back and forth will transition smoothly between the sounds created by the two settings.

Note that SINGLE button Advanced Settings are expression controllable while SUB OCT button Advanced Settings are not (see Advanced Settings).

---

## STEREO INPUT

To operate in Stereo Input mode, remove the MXR Layers Pedal's bottom plate, locate the MONO/STEREO input switch, and set it to the STEREO (left) position. It is recommended to also enable Stereo Output when using the Stereo Input feature.

---

## STEREO OUTPUT

To operate in Stereo Output mode, run a TRS splitter cable from the Layers Pedal's OUTPUT jack to your chosen inputs, and set the CTR switch to its TAP/EXP (left) position. Next, press and hold the SUB OCT button, and rotate the DECAY knob fully clockwise to select Stereo Output mode. Center LEDs will flash to confirm. To change back to Mono Output mode, follow the same steps, and rotate the DECAY knob counterclockwise. With Stereo Output enabled, the three layers will be panned left, center, and right, represented visually by the layers LED positions. When modulation is enabled (see Advanced Settings), it is possible to auto pan the layers across the stereo field.

---

## DRY/WET SPLIT

The MXR Layers Pedal can split its dry and wet signals to run each signal into its own effect chain or to operate within a dry/wet stereo rig. First, set the CTR switch to its AUDIO (right) position. Run the wet signal from the OUT jack and the dry signal from the CTR jack to your chosen inputs. Note: Stereo Input and Stereo Output modes must be disabled for Dry/Wet Split mode to work properly.

---

# Advanced Settings

## INTRODUCTION

By pressing and holding the SINGLE or SUB OCT buttons while adjusting any of the pedal's knobs, you can fine-tune various functions. These functions allow you to add modulation and/or delay to your layers, route your dry signal through a delay, enable Stereo Output, and more. The MXR Layers Pedal's delay and modulation effects are based on those of the MXR Joshua® Ambient Echo but with darker tonality to allow your layers to stand out.

---

CONTROL	SINGLE	SUB OCT
<b>MIX</b>	<b>MODULATION AMOUNT</b> Sets the depth and rate of the modulation effect. As the MIX knob is rotated clockwise, rate increases and depth decreases. Setting the knob to its minimum position turns the modulation effect off.	<b>MUTE DRY SIGNAL</b> Rotate clockwise to mute dry signal or counterclockwise to restore dry signal. SINGLE LED will flash to confirm. Note that no sound will be heard if MIX knob is fully counterclockwise and that CTR jack will be completely muted if in dry/wet split mode.
<b>TRIG</b>	<b>DELAY TIME</b> Adjusts time between repeats. Setting the knob to its minimum position turns the delay off. Delay regen is tied to the DECAY knob.	<b>DRY SIGNAL DELAY SEND</b> Rotate clockwise to increase amount of dry signal sent to delay effect.
<b>ATTACK</b>	<b>MODULATION BLEND</b> The modulation effect consists of chorus and tremolo. Fully counterclockwise provides only the chorus effect, while fully clockwise provides only tremolo. The midpoint setting provides an equal blend of both. With Stereo Output enabled, the tremolo effect will pan layers across the stereo field.	<b>ROOT NOTE SUB OCTAVE</b> Rotate clockwise to engage Root Note Sub Octave mode or counterclockwise to disengage it. SUB OCT LED will flash to confirm. With SUB OCT button engaged, this mode will only apply the sub octave effect to the lowest frequencies of a layer.
<b>DECAY</b>	<b>DIFFUSION</b> Rotate clockwise to add diffusion to the layers for a textural effect. Fully counterclockwise turns the diffusion effect off.	<b>STEREO OUTPUT</b> Rotate clockwise to engage Stereo Output or counterclockwise to disengage it. Center LEDs will flash to confirm.
<b>SUB OCT</b>	<b>TAP TEMPO</b> Tap SUB OCT button while holding SINGLE to set delay time.	N/A

---

## RESTORE DEFAULTS

To return all parameters to their default settings, simply press and hold SINGLE and SUB OCT buttons for five seconds—the main LED will flash to confirm.



---

# Specifications

Input Impedance	1M $\Omega$
Output Impedance	100 $\Omega$
Maximum Input Level	+5 dBV
Noise Floor	-97 dBV
Current Draw	300 mA
Power Supply	9 volts DC

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Unauthorized changes or modifications to this product could void the user's authority to operate the equipment.

---

# End-User License Agreement

This End-User License Agreement (“EULA”) is a legal agreement between (a) you, either as an individual or a single entity (hereinafter referred to as “You” or “Your”) and (b) Dunlop Manufacturing, Inc. (“Dunlop”) that governs Your use of any Software Product, installed on or made available by Dunlop for use with Your Dunlop product. The term “Software Product” means the electronic effect installed on or made available by Dunlop for use with Your Dunlop product and may include associated medial, printed material and “online” or electronic documentation.

YOU AGREE TO BE BOUND BY THE TERMS OF THIS EULA BY USING ANY PART OF THE SOFTWARE PRODUCT AND/OR THE DUNLOP PRODUCT. YOU ALSO ACCEPT THIS EULA IF YOU KEEP THE DUNLOP PRODUCT FOR 30 DAYS.

IF YOU DO NOT AGREE TO THE TERMS OF THIS EULA, DUNLOP IS UNWILLING TO LICENSE THE SOFTWARE TO YOU. IN SUCH EVENT, YOU MAY NOT USE THE DUNLOP PRODUCT CONTAINING THE SOFTWARE PRODUCT AND YOU SHOULD RETURN THE DUNLOP PRODUCT TO YOUR PLACE OF PURCHASE FOR A FULL REFUND, IF APPLICABLE.

1. GRANT OF LICENSE: Dunlop grants to You the following individual, personal, non-sub licensable, nonexclusive license to use one (1) copy of the Software Product, in object code form only, provided You agree to and comply with all terms and conditions of this EULA as it may be amended from time to time. You acknowledge that Dunlop retains ownership of the Software Product, any portions or copies thereof, and all rights therein throughout the world.

THE DUNLOP PRODUCT (INCLUDING THE SOFTWARE PRODUCT CONTAINED THEREIN) IS PROVIDED “AS IS” AND SUBJECT TO THE WARRANTY DISCLAIMERS AND LIMITATIONS OF LIABILITY SET FORTH BELOW.

2. RENTAL: You may not copy, rent, lease, distribute, assign or otherwise transfer rights to the Software Product; use the Software Product for timesharing or service bureau purposes or otherwise for the benefit of a third party.

3. TRANSFER: You may permanently transfer the rights granted to You under this Agreement only as part of a permanent sale or transfer of the Dunlop product containing the Software

Product, provided You retain no copies, You transfer all of the Software Product (including all component parts, the media and printed materials, any upgrades and prior versions, these licensing terms, and , if applicable, the Certificate(s) of Authenticity), and only if the recipient agrees to the bound to by the terms and conditions of this Agreement.

4. RESTRICTIONS: You will only use the Software Product for lawful purposes and in compliance with all applicable laws. You hereby agree to defend and indemnify Dunlop against any claim or action that arises from Your use of the Software Product in an unlawful manner.

5. LIMITATION ON REVERSE ENGINEERING: You will not, directly or indirectly, reverse engineer, decompile, disassemble or otherwise attempt to discover the source code or underlying ideas or algorithms of the Software Product; modify, translate, or create derivative works based on the Software Product. Nothing contained herein shall be construed, expressly or implicitly, as transferring any right, license or title to You other than those explicitly granted under this EULA. Unauthorized copying of the Software Product or failure to comply with the above restrictions will result in automatic termination of this Agreement and will constitute immediate, irreparable harm to Dunlop for which monetary damages would be an inadequate remedy, in which case injunctive relief will be an appropriate remedy for such breach.

6. SUPPORT: Dunlop provides the Software Product “AS-IS” and does not provide support services for it.

7. PROPRIETARY RIGHTS: All intellectual property rights in the Software Product and user documentation are owned by Dunlop or its suppliers and are protected by law, including but not limited to United States copyright, trade secret and trademark law, as well as other applicable laws and international treaty provisions. The structure, organization and code of the Software Product are the valuable trade secrets and confidential information of Dunlop and its suppliers. You shall not remove any product identification, copyright notices or proprietary restrictions from the Software Product or Dunlop product.

8. TERMINATION: This Agreement is effective until terminated. Dunlop may terminate this Agreement immediately, without prior notice or liability, if You breach any of the terms or conditions of this Agreement. All sections of this Agreement



---

# End-User License Agreement (cont.)

which by their nature should survive termination will survive termination, including, without limitations, warranty disclaimers and limitations of liability. Upon termination of this Agreement for any reason, You must destroy the Software Product and all of its component parts.

9. NO WARRANTIES: WARRANTY DISCLAIMER THE SOFTWARE PRODUCT IS PROVIDED “AS IS” WITHOUT WARRANTY OF ANY KIND. The Software Product is offered on an “AS-IS” basis and Dunlop does NOT warrant that the functions contained in the Software Product will meet Your requirements or that the operation of the Software Product will be uninterrupted or error free. You should not use the Software Product for any applications in which failure could cause any significant damage or injury to persons or tangible or intangible property. DUNLOP DISCLAIMS ALL WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THE ENTIRE RISK OF THE QUALITY AND PERFORMANCE OF THE DUNLOP SOFTWARE IS WITH YOU. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

10. LIMITATION OF LIABILITY NOTWITHSTANDING: ANYTHING CONTAINED IN THIS AGREEMENT OR OTHERWISE, DUNLOP WILL NOT BE LIABLE WITH RESPECT TO THE SUBJECT MATTER OF THIS AGREEMENT UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY INCIDENTAL, CONSEQUENTIAL, EXEMPLARY OR PUNITIVE DAMAGES OF ANY KIND. SOME STATES AND COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

11. EXCLUSIVE REMEDIES: The entire liability of Dunlop, its parent, affiliates and/or distributors and Your exclusive remedy for any breach of the EULA or for any other liability relating to the Software Product and/or the Dunlop product shall be, at

Dunlop’s sole option, (a) return of the amount paid (if any) for the Software Product and/or the Dunlop product, or (b) repair or replacement of the Software Product and/or the Dunlop

product that is returned to Dunlop with a copy of Your receipt. You will receive the remedy elected by Dunlop without charge, except that You are responsible for any expenses You may incur (i.e. cost of shipping of the Software Product and/or the Dunlop product to Dunlop). However, this remedy is unavailable if failure of the Software Product and/or the Dunlop product resulted from accident, abuse, misapplication, abnormal use or a virus.

12. EXPORT RESTRICTIONS: You acknowledge that the Software Product, or any part thereof, or any process or service that is the direct product of the Software are of U.S. origin. You agree to comply with all applicable international and national laws that apply to these products, including the U.S. Export Administration Regulations, as well as end-user, end-use and destination restrictions issued by U.S. and/or other governments.

13. MISCELLANEOUS: The failure of either party to exercise in any respect any right provided for herein will not be deemed a waiver of any further rights hereunder. If any provision of this Agreement is found to be unenforceable or invalid, that provision will be limited or eliminated to the minimum extent necessary so that this Agreement will otherwise remain in full force and effect and enforceable. This Agreement will be governed by and construed in accordance with the laws of the state of California without regard to the conflict of law’s provisions thereof. Venue for any action brought shall be exclusively in the appropriate state and/or federal court located in San Francisco, California. Both parties agree that this Agreement is the complete and exclusive statement of the mutual understanding of the parties and supersedes and cancels all previous written and oral agreements, communications and other understandings relating to the subject matter of this Agreement, and that all modifications must be in writing and signed by both parties, except as otherwise provided herein. No agency, partnership, joint venture, or employment is created as a result of this Agreement and You do not have any authority of any kind to bind Dunlop in any respect whatsoever. In any action or proceeding to enforce rights under this Agreement, the prevailing party will be entitled to recover costs and reasonable attorneys’ fees. All notices under this Agreement will be in writing.