



Joshua[®] Ambient Echo

The MXR Joshua Ambient Echo is a one-stop shop sunk deep into iconic soundscapes, from tonal trips out of the '60s and '70s to the ethereal ambience of the '80s soundscapes. Once upon a time, it took a whole rack processor to get these tones, but this pedal comes with everything you need to capture that distinct tonal palette in a modern and user-friendly format—and it's already dialed in and ready to go.

External Controls



- 1 CTR jack allows an expression pedal to control settings or a tap switch to set tempo of echoes
- 2 FOOTSWITCH toggles effect on/bypass (large blue LED indicates on) and engages Tap mode
- 3 REGEN knob sets number of echoes
- 4 DELAY knob adjusts tempo of echoes
- 5 ECHO 2 button adds secondary echoes at $\frac{1}{4}$ note tempo (illuminates blue when on)
- 6 TRAILS button toggles effect Trails mode on/off (illuminates red when on)
- 7 VOICE knob adjusts mix of -1, +1, and +2 octave signal blend
- 8 MOD knob adjusts intensity of modulation
- 9 MIX knob adjusts overall volume of effect signal
- 10 DIVISION knob selects ratio of primary echoes to the tempo

Basic Operation

Power

The MXR® Joshua® Ambient Echo requires 9 volts (300mA) and can be powered by the Dunlop ECB003 9-volt adapter or the MXR® Iso-Brick™ Pro, Iso-Brick™, and Mini Iso-Brick™ power supplies. This pedal cannot be powered by a battery.

Directions

1. Run a cable from your instrument to the Joshua Ambient Echo's INPUT jack and run another cable from the Joshua Ambient Echo's OUTPUT jack to your amplifier.
2. Start with all knobs except VOICE and DIVISION at 12 o'clock. Set VOICE and DIVISION knobs fully counterclockwise. Turn the effect on by depressing the footswitch.
3. Rotate DELAY knob clockwise to increase tempo of echoes or counterclockwise to decrease it.
4. Rotate MOD knob clockwise to increase the intensity of the modulation effect or counterclockwise to decrease it.
5. Rotate VOICE knob clockwise to mix in a blend of -1, +1, and +2 octave signals.
6. Rotate REGEN knob clockwise to increase number of echoes or counterclockwise to decrease it.
7. Rotate DIVISION knob clockwise to cycle through rhythm settings: ¼ note, dotted ⅛ note, ⅛ note, ⅛ note triplet, double echo with an ⅛ note, and dotted ⅛ note.
8. Rotate MIX knob clockwise to increase overall volume of effect signal or counterclockwise to decrease it.
9. To engage a second echo at a 1/4 note division, push the ECHO 2 button. To change the second echo's division, press and hold the ECHO 2 button, and turn the DIVISION knob to select your new preference.
10. Push the TRAILS button to allow your echoes to gradually fade out according to your REGEN setting rather than stop abruptly when disengaging the pedal. This button will illuminate red when Trails mode is engaged.

Advanced Operation

FOOTSWITCH: BYPASS & TAP TEMPO

1. By default, the FOOTSWITCH toggles the pedal on or off in a true bypass system. When Trails Mode is engaged, buffered bypassing is used.
2. The FOOTSWITCH can also be used as a tap switch to set the tempo of your primary echoes. Press and hold for 1 second to engage tap tempo mode, and then tap your desired rhythm.

USE AN EXPRESSION PEDAL TO BLEND BETWEEN TWO SETTING CONFIGURATIONS

An expression pedal such as the DVP5 Volume (X)[™] 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 the Joshua Ambient Echo's CTR jack. Set rocker to its heel-down position. Adjust knobs and set mode buttons 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.

USE AN OFF-BOARD TAP SWITCH TO CONTROL TEMPO

An off-board tap switch such as the M231 MXR TRS Split + Tap can be used to control the tempo of echoes. First, set the CTR switch to its TAP/EXP (left) position. Next, run a standard mono patch cable from the tap switch's output jack to the Joshua Ambient Echo's CTR jack. While the Joshua Ambient Echo is on, tap your desired rhythm onto the MXR TRS Split + Tap.

FREEZE MODE

While using an off-board tap switch as described above, holding down the off-board switch will freeze the echo lines at max feedback and prevent any new signal from engaging with the echo until the switch is released.

STEREO OUTPUT

To operate in stereo mode, run a TRS splitter cable from the Joshua Ambient Echo's OUTPUT jack to your chosen inputs. Press and hold the ECHO 2 button, and rotate the VOICE knob fully clockwise to select stereo output mode. ECHO 2 and TRAILS buttons will flash to confirm. To change back to mono output mode, follow the same steps, and rotate the VOICE knob counterclockwise.

The CTR jack can also be used as a right channel audio output. Set the CTR switch to its right position, and run an instrument cable from the Joshua Ambient Echo's CTR jack to a separate output source. The ring connection on the OUT jack will be muted.

Advanced Settings

By pressing and holding the ECHO 2 or TRAILS buttons while adjusting any of the pedal's knobs, you can fine-tune various functions. We recommend leaving these settings as they are unless you understand how they work at a deep level as any changes can alter the overall sound of the pedal.

KNOB	ECHO 2	TRAILS
DELAY	HARD OR SOFT FLASHING Rotate counterclockwise for soft-flashing ECHO 2 and bypass LEDs or clockwise for hard flashing LEDs.	1/4 NOTE VISUAL REFERENCE Rotate clockwise to make TRAILS LED flash at primary 1/4 note tempo or counterclockwise for a solid LED.
MOD	SYMMETRICAL REGENERATION By default, this pedal employs symmetrical regeneration to ensure that dual echo signals set to different rates fade out at the same time. To disable this feature, rotate the knob counterclockwise. TRAILS LED will flash to confirm.	MODULATON RATE/DEPTH By default, the MOD knob controls both the depth and rate of the modulation effect, but each can be adjusted independently. To adjust the modulation depth, hold down the TRAILS button and rotate the MOD knob as needed. To adjust the modulation rate, release the TRAILS button, and rotate the MOD knob as needed. The MOD knob will continue to function as a rate control until default settings are restored through a factory reset (see RESTORE DEFAULTS section below).
VOICE	STEREO MODE Rotate clockwise to engage stereo mode or counterclockwise to disengage it. ECHO 2 and TRAILS LEDS will flash to confirm.	HIGH CUT FILTER Rotate clockwise to reduce high-end frequency range. The cut-off frequency can be adjusted from 12kHz fully counterclockwise to 2kHz at noon to 200Hz fully clockwise.
REGEN	ECHO 2 REGEN Rotate clockwise to increase the number of secondary signal's echoes in relation to the primary signal's regeneration or counterclockwise to decrease it.	REVERB DECAY Rotate clockwise to increase reverb decay or counterclockwise to decrease it. Making this adjustment will disconnect this setting from being controlled by the DELAY knob until default settings are restored through a factory reset (see RESTORE DEFAULTS section below).
TAP	ECHO 2 RHYTHMIC DIVISION Rotate to select rhythmic division of secondary echo signal. Note: When setting ECHO 2 rhythmic division to 1/8 and dotted 1/8 (DIVISION knob fully clockwise), the division will instead be 1/16.	COMPRESSION THRESHOLD Rotate clockwise to raise compression threshold or counterclockwise to lower it. Midpoint is the default setting.
MIX	ECHO 2 MIX Rotate clockwise to increase the mix of the secondary echo signal relative to the first or counterclockwise to decrease it.	REVERB MIX Rotate clockwise to increase the mix of reverb or counterclockwise to decrease it.

RESTORE DEFAULTS

To return all parameters to their default settings, simply press and hold ECHO 2 and TRAILS buttons for five seconds—the main LED will flash to confirm.

Specifications

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