



M-135 SMART GATE

Congratulations on choosing the **M-135 MXR Smart Gate** pedal! Like all Dunlop products, this unique effect is designed to give you quality sound through years of dependable service.

DESCRIPTION

The MXR Smart Gate features independent high and low adaptive filters and control circuits, which create the most transparent noise suppression system available today. Whichever noise gate filter cut-off point is selected, **Hiss, Mid, or Full Band**, the MXR Smart Gate knows to gate out noise slowly when notes are being held, and quickly when they are stopped short. It will not cut off the end of notes. The gate's attack time is extremely fast and will not degrade picking transients or harmonic overtones. Performance, road tuff housing, and easy operation make the M-135 Smart Gate live up to the status of the MXR classics.

POWER

The MXR M-135 Smart Gate uses one 9-volt battery. The battery access is through the bottom of the pedal. The Smart Gate uses the Dunlop ECB03 Adapter (ECB03E for Europe), a 9-volt DC regulated AC adapter. Plug polarity is positive on the barrel and negative in the center. **Note:** Battery must be installed to operate the Smart Gate unless an AC adapter is used.



- A** Footswitch toggles Effect On/Bypass (red LED indicates on).
- B** Trigger Level varies the sensitivity of the gate's threshold, allowing it to be adjustable to any input source.
- C** The Gate LED intensity shows level of noise reduction.
- D** Noise Band Cut Switch determines the lowest limit of noise gate filter.

DIRECTIONS

- For initial settings, set the **Trigger Level** to full counterclockwise and the **Noise Band Cut** to either Hiss, Mid or Full, depending on the frequency band of noise you are interested in suppressing.
- Insert a 9-volt battery and/or plug in AC adapter into the MXR Smart Gate. The MXR Smart Gate pedal will operate on either power source.
- Run a shielded cord from your input source (instrument, effects, recording system, mixer or effect loop send) to the Smart Gate's input jack located on the right side of the pedal.
- Run a shielded cord from your amplifier's input to the Smart Gate's output jack.
- To switch between Bypass and Smart Gate active, push down then release the top mounted footswitch. The Status LED will light when the Smart Gate is active.
- Turn on amplifier and play and sustain a note or chord.
- Adjust the **Trigger Level** towards the clockwise position until hiss is suppressed before the notes or program material has completely died out. The yellow LED will light when the gate has engaged.

APPLICATIONS

While the Smart Gate is a "set and forget" type device, some thought should be given as to which band cutoff frequency points are most effective in reducing noise with various types of input sources.

In general, the **Hiss** noise band cut works well with instruments and input sources that have high frequency boost (vocal mikes, keyboards, wins instruments, electric bass, etc.). The **Hiss/Mid** noise band cut is effective on instruments with high gain midrange frequency boosts (distorted electric guitar, amplified harmonica, etc.). The **Full Band** noise cut is most effective in quieting input sources with low-end hum and buzz problems (AC line noise, display noise, and noise from light dimmers).

To quiet a rack of noisy effects, place the Smart Gate last in the audio chain, right before the amplification system.

SPECIFICATIONS

Input Impedance:	1 Megohm
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Input Level:	2Vrms (+6dBV) max
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Output Impedance:	<1Kohm
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Signal to Noise:	CLOSED: 106dBV A weighted (Vref 1V RMS)
	OPEN: HISS >100dBV A weighted (Vref 1V RMS) MID >100dBV A weighted (Vref 1V RMS) FULL >96dBV A weighted (Vref 1V RMS)

Frequency Response:	BYPASS: 20Hz to 10KHz +0dB/-1dB					
	NOISE CUT "OFF" (ALL MODES): 20Hz to 20kHz \pm 1dB					
	NOISE CUT "ON": <table><tr><td>HISS</td><td>-3dB at 1kHz -20dB at 15kHz -25dB at 20kHz</td></tr><tr><td>MID</td><td>-3dB at 500Hz -30dB at 20kHz</td></tr><tr><td>FULL</td><td>>-30dB at 60Hz -15dB at 500Hz -25dB at 20Hz</td></tr></table>	HISS	-3dB at 1kHz -20dB at 15kHz -25dB at 20kHz	MID	-3dB at 500Hz -30dB at 20kHz	FULL
HISS	-3dB at 1kHz -20dB at 15kHz -25dB at 20kHz					
MID	-3dB at 500Hz -30dB at 20kHz					
FULL	>-30dB at 60Hz -15dB at 500Hz -25dB at 20Hz					

Power Draw:	15 Milliamps
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Power Requirement:	9VDC adapter with 5.5mm x 2.1mm positive barrel and negative center or standard 9 Volt battery
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