BLACK ROOSTER AUDIO

RO-140

VINTAGE PLATE REVERB

RO-140 | PRODUCT OVERVIEW & MANUAL

GENERAL OVERVIEW

CUSTOM VINTAGE REVERB

RO-140 | VINTAGE PLATE REVERB

The reverb effect is a quintessential element of modern-day music and sound design production, generating instant depth and atmosphere in any mix. Engineers now have the ability to mimic any space by using this effect, tricking the ear and simulating everything from grandiose width to cosy intimacy. Still, recording with the desired type and amount of reverberation hasn't always been this simple.

Out of the sheer need for excellent reverberation and the costly nature of high-quality recording locations, engineers have experimented with foil and metal plates to reproduce expensive reverb rooms since the 50s. However, installing and controlling a real metal plate reverb has never been easily attainable, nor has it been readily available to every producer or small studio. Additionally, it is not a cost- or time-effective option in the slightest - as it often happens, this type of hardware remained exclusive to a select few elite studios for a long time. Nevertheless, plate reverberation is audible in many 50s and 60s hit songs, where engineers extensively used this technique.

Achieving the perfect amount and type of reverb for your tracks can make - or break - your mix. It is part of the foundation of cinematic audio, and music wouldn't be the same without it. It allows you to add depth, emotion, body and grandiosity to your mix, without having to add any additional elements.

A plate reverb's original purpose was to emulate reverberant rooms, but they have become somewhat of a legend themselves.

The difference between a classic vintage piece of hardware such as the EMT 140 and most modern, purely impulse response based plug-ins is very apparent to any good ear.

This is why we pride ourselves in having physically modelled not one, but six plate reverbs to create the RO-140 - offering maximum authenticity as well as a few unexpected twists. You won't believe the results that this tool can produce!

This versatile plate reverb plug-in allows you to take your productions to the next level by uncovering a new level of detailed audio customization. Not only does it capture the sound of sought-after hardware classics, but it also allows you to create your own sound, with a virtually infinite amount of combinations between plate materials and plate sizes, dampening and pre-delay controls.

The result of countless development hours is a highly customizable plate reverb that will add just the right amount of silky smooth vintage flair to your productions.

FURTHER INFO

PLUGIN ACTIVATION & SYSTEM REQUIREMENTS

All Black Rooster Audio plug-ins are equipped with a straightforward and easy to use, serial-based activation system. We did our best to ensure that our system works well for both online and offline users. By supporting USB key activation, mobile use is supported just as easily as permanent licence activation on your computer's hard disk is.

For detailed information on activation and the current system requirements of our plug-ins, please refer to https://blackroosteraudio.com/en/faq

GENERAL OVERVIEW

FEATURE OVERVIEW

VINTAGE PLATE REVERB EMULATION

The RO-140 was faithfully modelled after its legendary hardware counterparts, while still remaining a Black Rooster Audio original plug-in at its core. Our signature plate simulation approach allows for authentically capturing the analogue unit's sound and feel as closely as possible while still including some unexpected twists - just as you'd expect from any kick-ass Black Rooster Audio plug-in.

The six material options allow for the most genuine plate reverb emulation, while the plate size options provide you with a virtually infinite amount of possibilities.

INSPIRED BY THE CLASSICS

This plug-in was inspired by the EMT 140 and other classic plate reverbs, giving you the best out of each classic piece of hardware in one small yet powerful package.

6 PHYSICALLY ACCURATE PLATE MATERIALS

The RO-140 includes six physically modelled plate materials - gold, silver, steel, aluminum, bronze and titanium - each of which has an adjustable size through its dynamic plate size controller, allowing for maximum customizability.

CLASSIC DAMPENING CONTROL

Get complete control over the reverb decay time with the physically modelled version of a classic dampening control, and choose between 10 damper positions by clicking the + and - buttons.

CLASSIC PRE-DELAY CONTROL

The classic pre-delay control determines the amount of delay between the dry and wet signals. It was purposefully placed after the plate reverb emulation to enable users to modulate the reverb tail with the DAW automation.

ADJUSTABLE GAIN-STAGING AT THE IN- AND OUTPUT STAGE

This gives you the ability to control the pre-processing input gain level, as well as the post-processing output gain level.

SSE2 OPTIMIZED CODE

DSP operations are pipelined using the SSE2 instruction set. This ensures a high-performance operation despite its very complex computations.

HIGH DPI/RETINA SUPPORT

The user interfaces support high pixel density on both Windows and Mac OS systems, giving you the most enjoyable user experience on high DPI displays. Please refer to your DAW manual to learn whether it is HighDPI compatible if you're working on Windows.

PLUG-IN CONTROLS

» BASS CUT

This control applies a high pass filter which cuts the bass at any desired frequency between 10Hz and 1000Hz.

» DAMPER

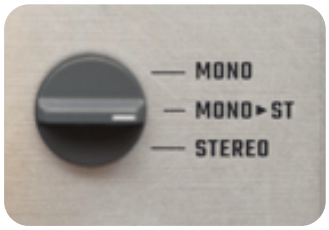
Control the reverb's decay time by using the + and - buttons, and choose between 10 positions (1 to 10).

» PLATE MATERIAL SELECTION

Choose between six different physically modelled plate materials, each with its own unique reverb sound.

» 3-BAND PARAMETRIC EQ

Shape your reverb signal using the 3-band parametric EQ section.
Low: A low shelf filter with a frequency cut off of 200Hz.
Mid: A band pass filter with a frequency cut off of 400Hz.
High: A high shelf filter with a frequency cut off of 900Hz.



» OUTPUT MODES

Choose between three output modes - mono, mono to stereo and stereo.

- The mono option sends the signal from the output of the bass cut into a plate with only one electrical transducer and one pickup.
- In comparison, mono to stereo sends it to a plate with one electrical transducer and two pickups placed on separate parts of the plate, yielding a stereo image even when using a mono source.
- The stereo option sends each channel from the output of the bass cut into two separate, but identical mono plates with one electrical transducer and one pickup each.

PLUG-IN CONTROLS

» PRE/DELAY

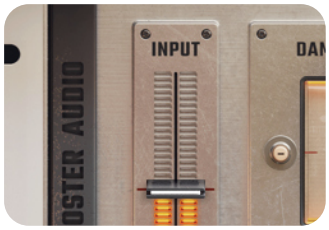
This control allows you to change the amount of delay between the wet and dry signals. The range is split from 0 .. 1ms for the first third and from 1 .. 500ms.

» PLATE SIZE

Use this control to change the size of the reverb plate. The transducers and pick-ups will move in real-time according to the plate size.

» DRY/WET

Use this control to determine the amount of reverb in your signal. The higher the percentage, the more reverb your output signal will carry and the less dry it will be - and vice versa.



» INPUT & OUTPUT CONTROLS

These sliders control the input and output gain before and after processing, respectively.

PREFS & INSTRUCTIONS

ADDITIONAL PLUG-IN PREFERENCES

(GEAR ICON MENU AT THE BOTTOM)

GUI SIZE

In the GUI size menu, you can select your preferred GUI ranging from a list of four settings, if you're looking to change the default sizing. Please note that the GUI size setting is a global preference that affects all Black Rooster Audio plug-ins installed on your system.

KNOB BEHAVIOUR & KEYBOARD SHORTCUTS

Use the plug-in settings menu to select your preferred knob mode globally. Please note that all of our plug-ins share the same settings across all DAW applications. Choose between "Host Setting", "Circular", "Relative Circular" and "Linear".

• By default, the knob mode is set to "Host Setting", which means that the knob mode is dictated by the DAW application. Some VST hosts allow you to change the knob mode setting in their preference menu. Our plug-ins will respect the host knob mode in that setting.
• In "Circular" or "Relative Circular" mode, all knobs will react to circular mouse gestures and you have to drag your mouse in a clockwise or counter-clockwise direction to change its value.
• In the "Linear" mode you have to drag your mouse up or down when selecting a knob to change its value. Use the knob sensitivity menu and adjust it to your liking. Please note that this function is only available in linear mode.

ALL OF OUR PLUGINS SUPPORT THE FOLLOWING KEYBOARD SHORTCUTS

AU Hosts on Mac OS
Alt + Click - Reset control to its default value Shift + Drag - Fine control
Shift + Mousewheel - Fine control

VST Hosts on Mac OS
CMD + Click - Reset control to its default value
Shift + Drag - Fine control (only a applicable in linear knob mode) Shift + Mousewheel - Fine control

VST Hosts on Windows
Ctrl + Click - Reset control to its default value
Shift + Drag - Fine control (only a applicable in linear knob mode) Shift + Mousewheel - Fine control