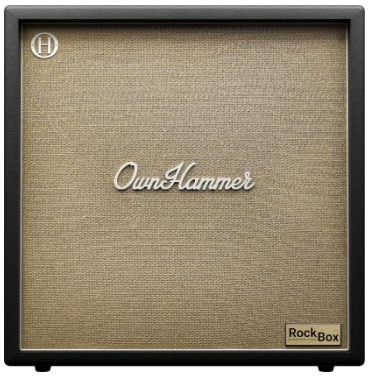
OwnHammer

Rock-Box IR Libraries • Feature Set Information

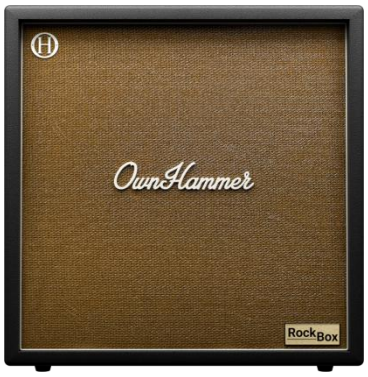
CABINETS AND VOICINGS

The OwnHammer Rock-Box cabinets are proprietary enclosures, designed and built in-house singularly for impulse response capture and towards multiple sound design goals: to maximize fidelity and musicality for use in a broad range of styles and applications, to provide a tone that is both something familiar and something new, and to exude a neutrality that allows the individuality of different speakers, guitars, pickups, amps, and playing nuances to shine through unencumbered. Various unique construction choices were implemented to accomplish this complex requirement set to outstanding result, providing a tone with clean low end, magical midrange, smooth high end, and incredible note clarity across the entire spectrum.

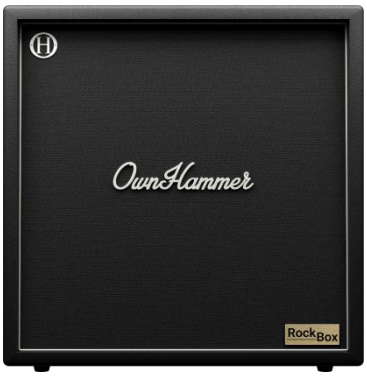
Included are IR's of two individual cabinet options, the Classic and Modern, as well as a 50/50 mix:



CLASSIC



BLEND



MODERN

Each of the two cabinets were captured with multiple microphones, and rendered into various mic blends.

The Classic (CLSC) cabinet – the primary sound the Rock-Box tone was built around – contains five such multi-mic mixes. These are labeled as A, B, C, D, and E, with "A" being the tightest and most forward sounding, and "E" being the fattest and most laid back. In addition to accommodating various potential use cases and personal tastes, these microphone inclusion based voicings can also help balance out various pickup types and amp tones.

The Modern (MDRN) cabinet contains a singular multi-mic blend that best suits this alternate tonality, providing a more scooped sound; slightly more information in the low and high end, and slightly less in the midrange.

The Blend (BLEND) cabinet is the result of a 50/50 mix between the CLSC-C voicing and MDRN voicing.

MIC POSITIONS

Included for each voicing are five mic position locations: 1, 2, 3, 4, and 5. These represent different mic placements swept across the sweet spot area of the speaker, with position "1" being brightest, and position "5" being darkest. The use of numeric notations are arbitrary, and do not represent any unit of measure or specific placement location.

SUMMARY FILE

Included in the Summary folder is a copy/paste of the “BLEND-3” IR for convenience, especially when comparing numerous Rock-Box speaker options within one directory location.

AUDITIONING TIPS

The easiest method for quickly exploring the contents of a Rock-Box library is to first start out comparing all seven of the position “3” files. This will give a general representation of the speaker specimen, the difference in character and overall frequency response of each voicing, and how all that will pair with the source instrument, amp configuration, and use application. From there, different mic placement positions within the voicing of choice can provide small shifts in the overall brightness or darkness of the sound within that overall signature.

INCLUDED FILE FORMAT

OwnHammer Rock-Box libraries contain impulse response (IR) files in wave audio (.wav) format for use in any convolution reverb loader, be it plug-ins in DAW based hosts or external hardware devices/modelers. These files are formatted in 44.1 kHz, 48 kHz, 88.2 kHz, and 96 kHz sample rates, with all subsequent files universally provided in mono channel count, 24-bit depth, and 208 ms in length.

All files have been minimum phase transformed, which is a mathematical process that allows for impulse responses to be universally time, phase, and polarity aligned, no matter the source. To this end, these IR’s can be used in parallel alongside any IR that has also been properly minimum phase transformed.

WHICH FILES TO USE

When using impulse response files in recording software or standalone applications, it is often best to select the sample rate that matches that of the DAW session and/or audio card/device settings. This can save on resource utilization, as well as prevent severe processing artifacts if the loading platform the files are imported into does not have automated real time sample rate conversion to correct for such manual errors.

For the loading of IR’s into OEM hardware/modeling platforms, look to those platforms’ provided documentation to discover their native operating sample rate, as well as any needed instruction on file loading/import procedure. OwnHammer is not responsible for providing this information, nor supporting third party systems and products.