IR-FORMATS

pro IR series

cabIR.eu

fine impulse responses

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Dear speaker cabinet impulse response user,

we want to thank you for your trust in our „pro IR series“ impulse response library. We are convinced, you will love it.

Our cabIR.eu ***„pro IR series“*** impulse response libraries are offered exclusively in the standardized .wav-format – but in five different kHz/bit resolution formats and two different sample-sizes.

500 ms | 44.1 kHz-16 bit | wav	170 ms | 44.1kHz-16bit | wav
500 ms | 44.1 kHz-24 bit | wav	170 ms | 44.1kHz-24bit | wav
500 ms | 48 kHz-16 bit | wav	170 ms | 48kHz-16bit | wav
500 ms | 48 kHz-24 bit | wav	170 ms | 48kHz-24bit | wav
500 ms | 96 kHz-24 bit | wav	170 ms | 96kHz-24bit | wav

The provided downloadable zip-files differ only in format and sample-size and contain the same amount of IR's, so you just need to download the format, that is suited best for your hardware or software platform.

The difference between the 500ms and 170ms format:

To put it straight:

500ms is for computer-based convolution hosts (for example: software amp plugins and/or convolution reverb plugins. Computer-based solutions usually are able to read the .wav-format directly without problems.

170ms for hardware-amp modeling devices, that support the import of user-IR's. Usually IRs have to be converted into a specific proprietary format suitable for the used hardware modeling device. In most cases the producers of the modeling devices usually provide the proper conversion tools. Stated below you can choose the suitable kHz/bit-format for your hardware, respectively follow the instructions from the enclosed manual of the device manufacturer.

Some examples:

- Fractal Audio Systems™ Axe-Fx: 48kHz/24bit
- Line6™ Helix: 48kHz/16bit
- Yamaha™ THR Series: 44.1kHz/16bit
- Kemper™ Profiler: 44.1kHz/24bit
- Two-Notes™ Torpedo: 96kHz/24bit

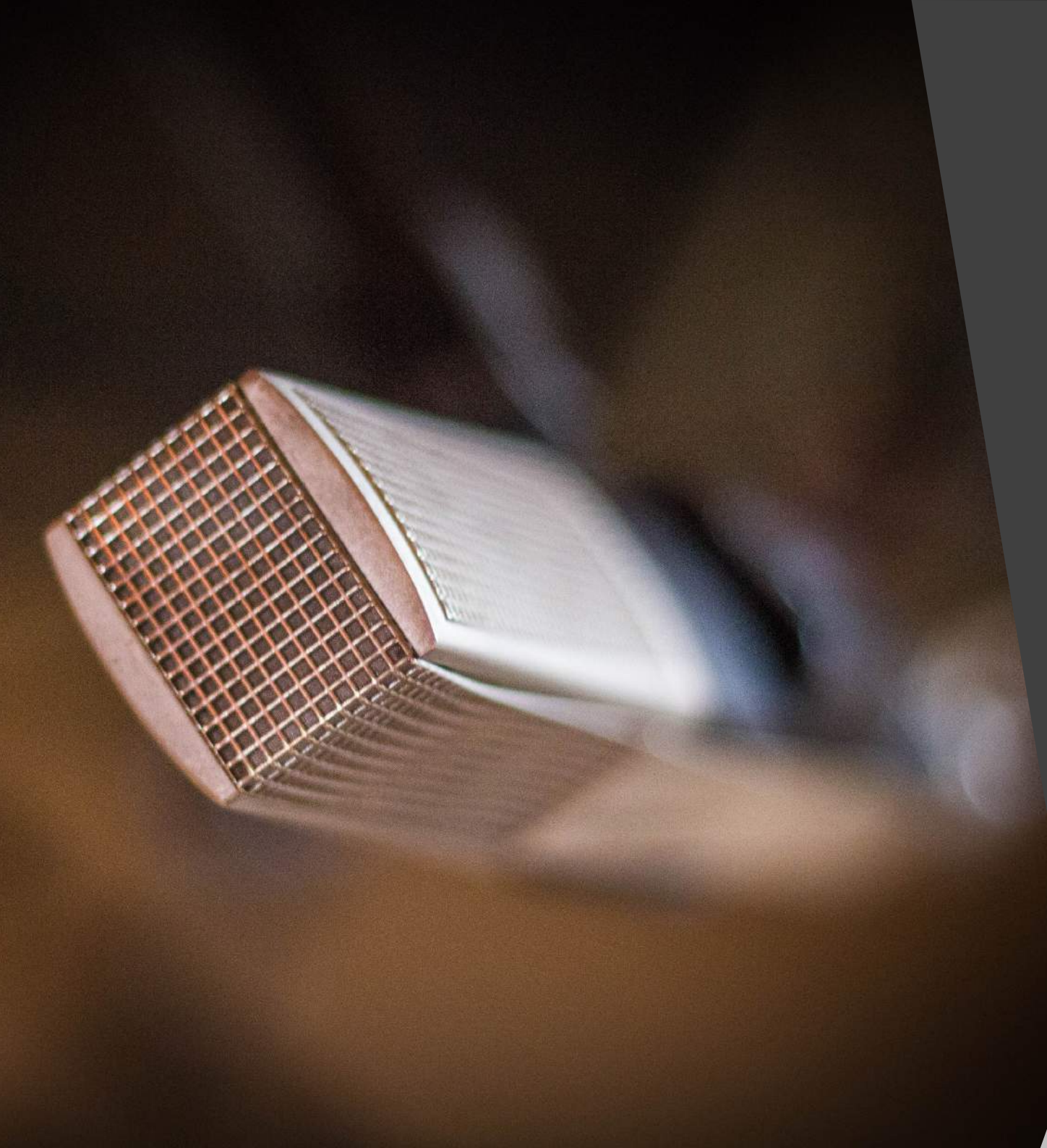
Background

Realtime convolution requires intense processing power - the better the resolution, respectively the sample-length of the IR, the more processing power will be needed.

Hardware units usually „cut" the length of the IR's to 2048 samples. This is absolutely sufficient for the authentic reproduction of the captured speaker cabinet sound, regarding close-mic positions of the cabinet.

Vastly longer reverb tails, that appear , for example, at room-mic or rear-cabinet mic positions, get cut off very hard, which can sound similar to a „Gated reverb". To prevent this effect, we have created the 170ms-formats, where existing reverb tails are faded out. As a result, the „Gate"-effect disappears.

Contrary to this, the 500ms-formats offer the accurate image of the real room, that is captured by the microphone during the recording. At least convolution-reverb plugins can reproduce this room amount completely.



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