

*Sigi's Finest*  
**UK**  
*Collection*

**MR-ART71**  
pro IR series

SPEAKER CABINET  
IR LIBRARY

**cabIR.eu**  
fine impulse responses



based on a '71 Marshall™ 2096 guitar cabinet, loaded with Celestion™ G12-H30™ „pulsionic cone” speaker from 1971

A warmly very "special thank you" to Siegbert "Sigi" Merker of [www.marshall-forever.de](http://www.marshall-forever.de).

Without him we wouldn't have been able to realize this IR-Collection.



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# THE CABINET

## ...some specs about the cab

This cab from the Artiste™-series, made in 1971, is an absolute rarity. In those days Marshall tried to develop extra versatile models for expanded target audiences.

Despite the fact, that the Artiste™-amps were not really accepted at all, the oversized, but slim cabs, loaded with Celestion™ G12-H30™ speakers, really shine.

Using a bigger and more powerful magnet than the G12-M25™, this cab can handle a power rating of 120 watts. This cab is surprisingly balanced and very versatile for many different styles.

This cab works perfect for **Classic Rock**, **Hard Rock** and **Blues**.

## Cab

Manufacturer	Marshall™
Model	2069
Construction	4x12" straight box, closed design, oversized
Time of production	1973-1977
Year of manufacture	1971
Power rating / Watt	120W
<b>Resonance frequency in Hz</b>	<b>110 Hz</b>
Comment	Artiste™ series, oversized, but very slim cab

## Speaker

Manufacturer	Celestion™
Model	G12-H30™ (Greenbacks)
Year of manufacture	1971
Power rating / Watt	30W
Comment	Pulsonic Cone, Greenbacks

## \_add-on\_SIGNATURE-Mixes

Signature Mixes ( \_SIG\_) from Anand Mahangoe ( \_AM) and Thibault de Robillard ( \_TR).

## \_OVERVIEW

Quickstart with whole Multi-Mic IRs ( \_MULTI\_) of a single speaker A, B, C and D or of all cabinet-speaker ( \_CAB\_) in three different virtual Power-Amp-Voicings ( \_I / \_P / \_T).

**HINT:** This folder is intended for experiencing the sonic difference and the effects of the virtual Power-Amp Voicings.

- └─ \_add-on\_SIGNATURE-Mixes
- └─ \_OVERVIEW
- └─ I\_dealized-Null-Amp
  - └─ MIX-Ambient
  - └─ MIX-Cabinet
  - └─ MIX-Speaker-A
  - └─ MIX-Speaker-B
  - └─ MIX-Speaker-C
  - └─ MIX-Speaker-D
  - └─ SINGLE-MICS\_MPT\_minimal-phase
  - └─ SINGLE-MICS\_RAW\_real-phase
- └─ P\_ush-Resonance-Amp
  - └─ MIX-Ambient
  - └─ MIX-Cabinet
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  - └─ MIX-Speaker-C
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- └─ T\_ube-Amp
  - └─ MIX-Ambient
  - └─ MIX-Cabinet
  - └─ MIX-Speaker-A
  - └─ MIX-Speaker-B
  - └─ MIX-Speaker-C
  - └─ MIX-Speaker-D
  - └─ SINGLE-MICS\_MPT\_minimal-phase
  - └─ SINGLE-MICS\_RAW\_real-phase

# STRUCTURE

## Idealized-Voicing

Description: Cab IR's without any influence of a tube power amp.

Sound: 100 % neutral, no bass or high boost.

Perfect for: Digital modeling devices with the ability to simulate the behavior of real tube power amps or real tube power amps.

Details: Equal to a power amp with idealized properties like most solid-state power amps, without any feedback interaction caused by the power amp. The entire power-amp sound has to be shaped by the digital modeling device or a real tube power amp.

Filename symbol: \_I

Name of folder: I\_idealized-Null-Amp

## Push-Voicing

Description: Guitar cab with the „Push“ of a tube power amp.

Sound: Pronounced bass boost, no high boost.

Perfect for: Digital modeling devices without proper tube power amp simulation, or solid state power amps, if tube amp sound is wanted.

Details: This voicing simulates the „Push“ of a tube power amp - but without the typical high boost caused by the impedance behavior of the speakers. In the high frequency range this voicing is 100 % neutral, the boost only occurs in the bass range.

Filename symbol: \_P

Name of folder: P\_ush-Resonance-Amp

### Hint: Virtual Resonance-Control

Mixing the \_I-Voicing and the \_P-Voicing, enables you to regulate the amount of „Thump“ in the low frequency bottom end by taste - just like the resonance controls of a tube power amp.

## Tube-Voicing

Description: Guitar cab with the entire boost of a tube power amp.

Sound: Bass boost and high boost.

**Perfect for:** Digital modeling devices without proper tube power amp simulation or solid state power amps, if tube amp sound is wanted.

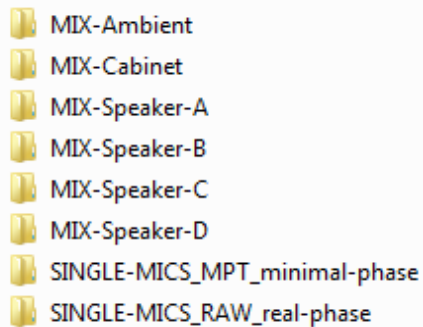
Details: The IR's were produced by using a high quality tube power amp. This is where the „Push“ comes from - the accentuation of the cab's resonance frequency at 110 Hz. Additionally, there happens a presence boost in the higher frequency range, caused by the interaction with the tube power amp, which results to a more „direct“ sound.

Filename symbol: \_T

Name of folder: \_T\_ube-Amp

### Hint: Virtual Tube Power Amp Coloration

Mixing the \_I-Voicing and the \_T-Voicing enables you to regulate the tube power amp coloration by taste.



## MIX-Ambient

AMBIENT-Mixes: Two mono-IR's, declared as LEFT (**\_L\_**) and RIGHT (**\_R\_**) submit to a stereo-couple. The room (**\_room\_**) and „back-cab“ (**\_rear\_**) mic positions are mixed to the MULTI-IR's, so, as a result, these IR's demonstrate a very „3D-like“ sound of the cabinets in the real room, when mixing the room- and rear-mic from the SINGLE-MIC\_RAW Folder together.

**HINT:** Spatial perception originates first of all through the so-called time-of-arrival difference. The room- and rear-IR's contain this information, and can help to create useable „room simulations“.

**NOTE:** The authentic room- and reverb tail of the 500ms IR's will only be useful, if the IR's get loaded into a convolution host with the ability to handle the full length of the IR's. Existing hardware solutions will cut the IR's and their reverb tail.

## SINGLE-MICS\_MPT\_minimal-phase

64 „close-mic“ IR's, 3 room-position IR's (**\_room\_**) and 1 „back-cab“-position IR (**\_rear\_**) are contained in this folder. The IR's of the MPT-Folder are „minimal phase transformed“. They are phase neutral and contain no time-of-arrival difference or „pre-delay-offset“

**NOTE:** These MPT-IR's are very useful to prevent phase issues when mixing IR's. MPT-IR's are „phase-aligned“ and great for direct and transparent „in your face“ mixing results.

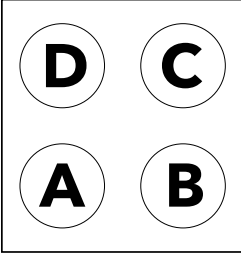
## SINGLE-MICS\_RAW\_real-phase

64 „close-mic“ IR's, 3 room-position IR's (**\_room\_**) and 1 „back-cab“-position IR (**\_rear\_**) are contained in this folder. The IR's in the RAW-folder contain the authentic „pre-delay“ from the speaker to the microphone. They don't behave phase neutral and as a result, comb filter effects can occur when mixing these IR's.

**NOTE:** These RAW-IR's are very useful for mixing, if phase issues are supposed to occur. Phase issues and comb filter effects can „soften“ the „top-end“. As a result these Mix-IR's sound less harsh, and can have more character. Contrary to the MPT-IR's they sound less direct and „in your face“.

# DECLARATION

## IR-Names: Declaration

<u>_SIG_</u>	Signature-Mix by Anand Mahangoe ( <u>_AM</u> ) and Thibault de Robillard ( <u>_TR</u> )
<u>_MULTI_</u>	Mix of miscellaneous microphone types and -positions.
<u>_CAB_</u>	Cabinet-Mix (all speakers)
<u>_A_   _B_   _C_   _D_</u>	Close-Mic. or speaker-mix of the mentioned speakers
	Speaker-Position
<u>_AMBIENT_(spk.)_L_</u> <u>_AMBIENT_(spk.)_R_</u>	AMBIENT-Mixes are stereo couples: the two Mono-IR's, LEFT (L) and RIGHT (R) amount to a stereo couple. Mixes contain MULTI-Mic., <u>_room_</u> and <u>_rear_</u> positions.
<u>_M(No.)_</u>	MPT-IR or MPT-Mix-IR
<u>_R(No.)_</u>	RAW-IR or RAW-Mix-IR
<u>_room_</u>	Room position
<u>_rear_</u>	„back-cabinet“ position

### Mikrophone names: Declaration (from top to bottom)

_414_	based on AKG™ C414	condenser
_451_	based on AKG™ C451	condenser
_E8K_	based on Behringer™ ECM8000	condenser
_441_	based on Sennheiser™ MD441	dynamic
_SM7_	based on Shure™ SM7B	dynamic
_57_	based on Shure™ SM57	dynamic
_906_	based on Sennheiser™ e906	dynamic
_421_	based on Sennheiser™ MD421	dynamic
_X1R_	based on sE Electronics™ X1R	ribbon



# OVERVIEW

## Available formats

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

## Overview and quantity

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_OVERVIEW	15

	I_dealized-Null-Amp	P_ush-Resonance-Amp	T_ube-Amp
MIX-Ambient	10	10	10
MIX-Cabinet	15	15	15
MIX-Speaker-A	30	30	30
MIX-Speaker-B	30	30	30
MIX-Speaker-C	30	30	30
MIX-Speaker-D	30	30	30
SINGLE-MICS_MPT_minimal_phase	68	68	68
SINGLE-MICS_RAW_real_phase	68	68	68

TOTAL-IRs

863

UNIQUE-IRs

644

OUR „OBJECTIVE  
SWEET SPOT METHOD“  
GUARANTIES MAXIMUM  
SOUND-EFFICIENCY  
FOR ANY EXISTING  
PERIPHERY



## ABOUT CABIR.EU

**cabIR.eu emerged as a result of our dissatisfaction about the obtainable speaker cabinet impulse response libraries on the market up to now.**

We got to know each other on a guitar player convention, where we began to produce our own genuine impulse responses. This IR-library is the result of teamwork, friendship, a lot of know-how, innovation and creativity.

We always wanted to go further than others. And so, we are really proud to give you this genuine IR's as an inspiring sound tool.

We are confident, that you will love them!

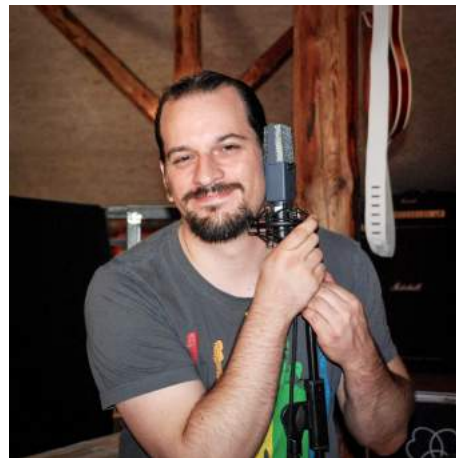
# THE TEAM

Countless hours of collective hard work have molded a trusted community and close friendship:



**Markus Hohmann**

Founder and CEO of cabIR.eu. Guitarist, audio advisor, IR-explorer, sound enthusiast and founder of the german axefx.de forum. A perfectionist beyond imagination.



**Thomas Stubics**

Recording, acoustics and rock music are his passion. He has almost 20 years of experience as product manager, project leader and acoustic engineer in the professional audio industry (AKG™, Harman™, sE Electronics™, ..) His masterpieces are AKG™ K271, K240, K812, C214, C414 XLS/XLII, P220, P820 Tube.



**Bastian Bührig**

IT-Specialist and dedicated prog-guitar-wizard. He loves cats and DIY-Audio-Projects. Always laid back and on hand with a good solution, when needed. Lives in and loves Hannover-Linden!



**Andreas Gammauf**

He is the most chaotic guy in the gang. Visionary, Slavedriver and professional disturber of the peace. Andy knows how to drive people nuts - but someone's got to do it. Advertising expert and IR-Freak.

A close-up, low-angle shot of a microphone grille, showing the fine mesh and the metallic finish. The background is dark and out of focus.

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