

GOZE 72

CAPTURED FROM KAHAYAN MP 1X

Story, specifications and capture process



Goze 72 stereo interface - Earth Studio

The story behind the Earth Studio sound

At Earth Studio, Christophe Goze records his guitars through a hardware Kahayan MP 1X preamp, “Made from original 1272”. This preamp contributes to the studio’s sonic identity. Because Christophe travels extensively, and because Kahayan no longer manufactures this model, the idea arose to capture this 1272 so he could travel with its distinctive sound. Goze 72 was born from that idea: the Earth Studio sound, wherever the music goes.

EARTH STUDIO

Plug-in version: V1.8 | AU + VST3 | Apple Silicon

Document: September 2026

1. The hardware reference

Kahayan MP 1X / 1272 architecture



Manufacturer photo - Kahayan Pro Audio

Manufacturer information

- Two independent Class-A microphone / line channels.
- Discrete signal path, with no integrated circuits in the main audio path.
- Stepped gain control in 5 dB increments; specified maximum gain: 65 dB.
- Balanced XLR output through an output transformer.
- Unbalanced jack output taken before the transformer.
- Polarity reverse, 48 V phantom power and instrument input.

The intended sound

Kahayan describes the MP 1X as clear and transparent, with deep bass and an extremely natural top end. Listening and measurement support that description: the intermediate gain positions remain very clean, while the character becomes most audible near the highest gain settings.

About the model

The MP 1X is now discontinued. Kahayan presents the 12K72 as its successor: the same sound with an updated name and front panel.

Studio measurement chain



Mono captures at 96 kHz / 24-bit. The Hosa ATT-448 is a passive attenuator used here to match the line output to the preamp input. The Apollo return was set to line mode with +10 dB input gain.

2. What the captures revealed

Measurements from the Earth Studio unit

Five signals were recorded at each setting: silence, 1 kHz calibration, level steps, a frequency sweep and a multitone signal. The new Input 5 and Input 7 captures precisely define the circuit's clean operating range.

These measurements form the unmodified MIC mode reference in Goze 72 V1.8.

Hardware setting	Output	Highest step	Measured THD
Input 5 / 11	3 / 12	-16.62 dBFS	0.0048 %
Input 7 / 11	3 / 12	-6.24 dBFS	0.0067 %
Input 8 / 11 (HOT)	1 / 12	-7.54 dBFS	0.0223 %

The HOT capture uses a different Output setting, so absolute levels are not compared directly.

+10.38 dB

Additional gain measured
between Input 5 and Input 7.

≈ 0.003 dB

Maximum gain variation across
the five highest steps at Input 7.

0.0223 %

THD at the highest Input 8 step:
the colour becomes audible.

Musical interpretation

- The hardware remains genuinely transparent at positions 5 through 7.
- No significant gain compression was detected in this range.
- The harmonic transition becomes clear between positions 7 and 8.
- The response remains nearly flat; the sense of softness comes mainly from harmonics and dynamic behaviour, not from dramatic equalisation.
- Measured background noise is approximately -104 to -108 dBFS RMS, depending on the setting.

Input control progression



3. References and scope

Transparency about the model

Sources

Kahayan Pro Audio - MP 1X

<https://www.kahayan.es/microphone-preamp-mp-1x>

Internal capture report

measurement-analysis.md - Goze 72 / Earth Studio project

Measurement set

Silence, calibration, level steps, sweep and multitone - 96 kHz / 24-bit

MIC and BOOST operating modes

- MIC is the direct measured capture of the Earth Studio Kahayan MP 1X / 1272 signal path, with no additional tonal curve.
- BOOST begins with the same 1272 capture, then adds Christophe Goze's preferred broad curve: approximately +2.5 dB at 90 Hz and +2.5 dB at 14 kHz.
- BOOST also retains the gentle upper-mid relaxation and progressive saturation developed for the Earth Studio sound.
- In stereo, LINK couples Input, Output and MIC / BOOST. The two Phase switches remain independent.
- The measured analogue noise is controlled by the optional ANALOG button.

The normal limits of a capture

Goze 72 is calibrated from one real unit through a specific conversion chain. It does not claim to reproduce every tolerance found across all 1272-style preamps, or every impedance interaction with every converter. It should be understood as a musical capture of the Earth Studio unit, not as a universal measurement of the entire 1272 family.

The sound that travels with you

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