



快速入门指南

简介

欢迎使用 **niDiPLUS** AMP-73 专业话筒放大器。本产品采用先进的麦克风前置放大器技术，确保在低增益设置下提供更低的噪声水平、更低的总失真率以及更高的动态范围。AMP-73 的增益调节功能允许用户在广泛的增益范围内优化信号的噪声比和带宽表现。

AMP-73 搭载高性能、超低噪声、高摆率、专业旗舰级运算放大器，音频专用电容，高精度、低温漂金属膜电阻，通过精密电路设计实现超低谐波失真，精准捕捉人声/乐器的情感细节与泛音，确保音频信号的原始特性得以保留，音色更加自然，为专业录音打造多维度的临场体验。

使用前请仔细阅读以下指南，以确保您能够安全、有效地使用 **niDiPLUS** AMP-73。

重要安全说明

1. 请勿在靠近水的地方使用本产品。
2. 请用干布清洁本产品。
3. 请勿将本产品安装在热源附近。
4. 妥善保护电源线，使其不被踩踏或刺破。
5. 请只使用制造商指定的附属设备和配件。
6. 遇闪电雷鸣或长期不使用本产品时，请拔掉电源插头。
7. 请避免有水滴溅或喷洒到产品上面，请不要把任何带液体的器皿(如花瓶等)放在产品上。
8. 请不要将点燃的蜡烛等放在产品上。

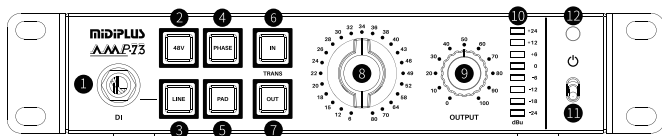
警告:为避免触电危险,请勿打开后盖及其他部件。产品内部没有可供用户维修的部件。

请将维修事项交由合格的专业人员进行。

产品特性

- 输入增益高达80dB
- 麦克风输入支持48V幻象电源
- 前面接口支持Line和DI输入
- 独立的输入增益/输出电平控制
- 8段LED电平表
- 反相与-20dB Pad按键
- 输入/输出变压器路由开关
- Jason输入变压器
- 配有机架耳,可装配于机架

硬件功能



- 1.DI接口:用于连接动圈麦克风、乐器(例如电吉他)或线性输入
- 2.48V幻象电源开关:用于开启XLR输入的48V幻象电源供电,灯亮开启,灯灭关闭
- 3.LINE切换开关:用于开启DI输入接口的线路输入,灯亮表示LINE IN,灯灭表示DI
- 4.PHASE开关:用于开启输入的相位反转,灯亮开启,灯灭关闭
- 5.PAD开关:用于开启输入的-20dB衰减,灯亮开启,灯灭关闭
- 6.IN变压器开关:开启时将输入信号路由至输入变压器,关闭时旁通
- 7.OUT变压器开关:开启时将输出信号路由至输出变压器,关闭时旁通
- 8.增益档位旋钮:用于调节输入的增益量,每个档位标明当前增益值
- 9.输出电平旋钮:用于调节输出电平
- 10.输出电平表:用于显示当前输出电平大小
- 11.电源开关:用于开关AMP·73
- 12.开机指示灯:指示AMP·73开机状态



- 1.电源接口:用于连接AC适配器
- 2.OUTPUT接口:平衡式线性电平输出接口
- 3.MIC INPUT接口:XLR输入接口,用于连接麦克风

注意:

- 1.如若DI接口与XLR接口同时接入,DI接口优先,XLR接口无输入
- 2.操作IN或OUT变压器按键开关时,可能会产生正常电子爆破音,操作前请把输出音量调到最小
- 3.插拔电容麦克风线时,请先关闭48V幻象电源

故障排除:

如果AMP·73出现某些问题,请尝试以下基本检查以排除故障

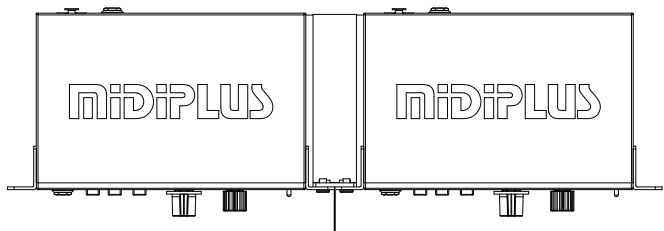
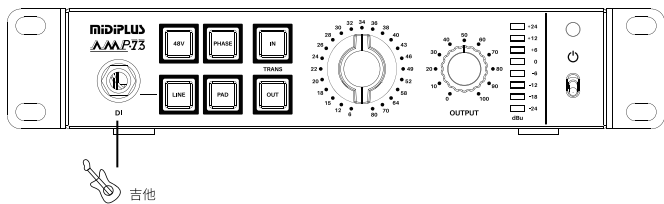
无法开机

- 检查交流电源插座是否通电
- 检查电源线是否已正确连接

没有声音

- 检查是否开启48V幻象电源为电容麦克风供电
- 检查是否DI接口连接着其他设备
- 检查增益旋钮是否扭到合适的位置
- 检查音量旋钮是否扭到合适的位置
- 检查输入/输出连接的线材是否损坏
- 检查输入/输出接口是否完全接入
- 检查是否已经开机

连接示意



连接支架(需另购)
两台AMP·73可使用连接支架连接起来

技术规格

- 输入
 - 增益范围: +6dB 至 +80dB
 - 输入阻抗 (Mic/DI/Line): 2k Ω /1.1k Ω /12k Ω
- 平衡输出
 - 输出阻抗: 100 Ω @1kHz
 - 最大输出: +20dBu (负载600 Ω)
- 麦克风输入
 - 变压器输入和输出关闭, Pad关闭, 从20Hz ~ 20kHz @ +20dBu 输出, 48kHz 带宽

增益 (负载600 Ω)	@+6 dB	@+30 dB	@+58 dB	@+80dB
频率响应	± 0.11 dB	± 0.11 dB	± 0.12 dB	± 1.9 dB
总谐波失真加噪声	-108.3 dB	-108.9 dB	-89.9 dB	-66.3 dB
动态范围 (A加权)	120 dB	115 dB	94 dB	76 dB
EIN @150 Ω (A加权)	-102 dBu	-121 dBu	-126 dBu	-126 dBu

- 变压器输入和输出打开, Pad关闭, 从20Hz ~ 20kHz @ +20dBu 输出, 48kHz 带宽

增益 (负载600 Ω)	@+6 dB	@+30 dB	@+58 dB	@+80dB
频率响应	± 5.5 dB	± 0.10 dB	± 0.29 dB	± 1.0 dB
总谐波失真加噪声	-77.5 dB	-80.7 dB	-81.5 dB	-64.3 dB
动态范围 (A加权)	120 dB	115 dB	93 dB	70 dB
EIN @150 Ω (A加权)	-101dBu	-120 dBu	-125 dBu	-125 dBu

产品规格

型号	AMP·73
I/O接口	1 × 6.35mm DI输入接口、1 × XLR输入接口、 1 × AC 17.5V × 2 电源接口、1 × 6.35mm 输出接口
按键	1 × 48V幻象电源开关按键、1 × LINE IN切换按键 1 × PHASE 切换按键、1 × PAD 衰减开关按键 1 × IN 输入变压器开关按键、1 × OUT 输出变压器开关按键
旋钮	1 × 输入增益档位旋钮、1 × 输出电平旋钮
包装清单	1 × AMP·73、2 × 机架耳 1 × 机架耳安装螺丝(套) 1 × AC电源适配器
重量	1.17 kg
尺寸	241.2 × 130.1 × 45.6 mm



Quick Start Guide

Introduction

Welcome to the **MIDIPLUS** AMP·73 Professional Microphone Preamp. This product incorporates advanced microphone preamplifier technology, ensuring lower noise levels, reduced total harmonic distortion (THD), and a higher dynamic range even at low gain settings. The AMP·73's gain adjustment feature allows users to optimize the signal-to-noise ratio and bandwidth performance across a wide gain range.

The AMP·73 is equipped with a high-performance, ultra-low noise, high-slew-rate, flagship professional operational amplifier (Op-Amp), audio-specific capacitors, and high-precision, low-temperature drift metal film resistors. Through precision circuit design, it achieves ultra-low harmonic distortion, precisely captures the emotional nuances and overtones of vocals/instruments, and ensures the original characteristics of audio signals are preserved. With a more natural tonal quality, it delivers a multi-dimensional immersive experience tailored for professional recording.

Before use, please read the following guidelines carefully to ensure the safe and effective operation of your **MIDIPLUS** AMP·73.

Important Safety Instructions

1. Do not use this apparatus near water.
2. Clean only with a dry cloth.
3. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Protect the power cord from being walked on or pinched, especially at plugs and connectors.
4. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

5. Only use attachments/accessories specified by the manufacturer.
6. Unplug this apparatus during lightning storms or when unused for long periods of time.
7. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
8. Do not place a lighted candles on the apparatus.

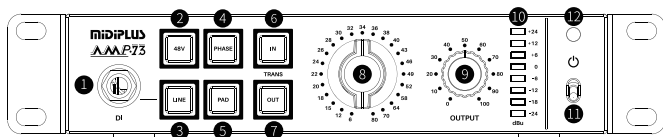
Caution:

To reduce the risk of electric shock do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified personnel.

Features

- 80dB of gain on tap
- 48V Phantom Power Support
- Front-Panel Line/DI Input
- Independent Input Gain and Output Level Controls
- 8-Segment peak Level Meter
- Phase Reverse and -20dB Pad Buttons
- Input/Output Transformer Routing Switch
- Jason Transformer
- Rack-Mountable Design

Hardware Features



- 1.DI Input: Connect Dynamic microphone, instrument (e.g., electric guitar) or line-level device.
- 2.48V Phantom Power Switch: Activates 48V phantom power for the XLR input. The indicator light turns ON when enabled and OFF when disabled.
- 3.Line Toggle Switch: Switches the DI input between line-level and instrument-level signals. The light indicates Line In when ON and DI when OFF.
- 4.Phase Switch: Inverts the input signal's phase. The light turns ON when activated and OFF when disabled.
- 5.Pad Switch: Applies -20dB attenuation to the input signal. The light turns ON when enabled and OFF when disabled.
- 6.Input Transformer Switch: Routes the input signal through the input transformer when ON, or bypasses it when OFF.
- 7.Output Transformer Switch: Routes the output signal through the output transformer when ON, or bypasses it when OFF.
- 8.Gain Control Knob: Adjusts the input gain with stepped gain value.
- 9.Output Control Knob: Controls the output level.
- 10.Output Level Meter: Displays the output level.
- 11.Power Switch: Turns the AMP-73 ON or OFF.
- 12.Power Indicator: Indicates the power status.



- 1.Power Port: Connect the included AC adapter to power the AMP-73.
- 2.Output: Balanced output for line-level device connectivity.
- 3.MIC Input: XLR connector for professional microphone connectivity.

Important Notes

1. Priority Routing: If both the DI Input and XLR Input are connected simultaneously, the DI Input takes priority, and the XLR Input will be disabled.
2. Transformer Switching Caution: When toggling the Input, Output Transformer Switches, transient electronic pops may occur. Always reduce the output volume to minimum before operating these switches.
3. Phantom Power Safety: Always turn off the 48V Phantom Power before plugging/unplugging condenser microphones to avoid potential damage.

Troubleshooting

If your AMP·73 encounters issues, perform the following basic checks to resolve common problems.

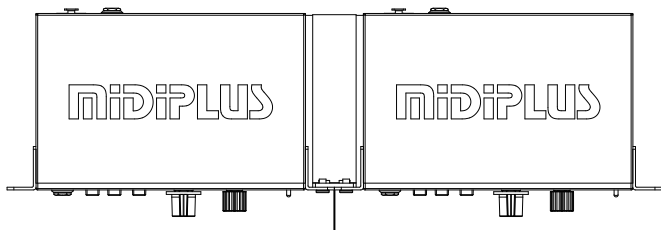
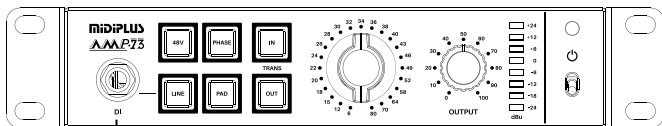
No Power

- Verify that the AC power outlet is active.
- Ensure the power cable is securely connected to the AMP·73 and the outlet.

No Audio Output

- For Condenser Microphone: Confirm the 48V Phantom Power switch is ON.
- Input Priority: Check if another device is connected to the DI input, which may override the XLR input (see Priority Routing in Notes).
- Adjust the Gain Control Knob to an appropriate level (avoid minimum/-maximum extremes).
- Adjust the Output Control Knob to an audible level.
- Inspect all input / output cables for physical damage or loose connections.
- Ensure all input/output connectors (XLR, TRS, etc.) are fully seated.
- Confirm the AMP·73 is powered ON (check the Power Indicator Light).

Connection Example



Mounting bracket(Sold separately)

Two AMP-73 units can be interconnected via the included mounting bracket

Technical Specifications

- Input
 - Gain range: +6dB to +80dB
 - Input Impedance (Mic/DI/Line): 2k Ω /1.1k Ω /12k Ω
- Balanced Output
 - Output impedance: 100 Ω @1kHz
 - Maximum output: +20dBu into 600 Ω
- Mic Input
 - Trans In off, Trans Out off, Pad off, 20Hz to 20kHz @+20dBu output, 48kHz Bandwidth.

Gain (into 600 Ω)	@+6 dB	@+30 dB	@+58 dB	@+80dB
Frequency Response	± 0.11 dB	± 0.11 dB	± 0.12 dB	± 1.9 dB
THD+N	-108.3 dB	-108.9 dB	-89.9 dB	-66.3 dB
Dynamic Range (A-weighted)	120 dB	115 dB	94 dB	76 dB
EIN @150 Ω (A-weighted)	-102 dBu	-121 dBu	-126 dBu	-126 dBu

- Trans In on, Trans Out on, Pad off, 20Hz to 20kHz @+20dBu output, 48kHz Bandwidth.

Gain (into 600 Ω)	@+6 dB	@+30 dB	@+58 dB	@+80dB
Frequency Response	± 5.5 dB	± 0.10 dB	± 0.29 dB	± 1.0 dB
THD+N	-77.5 dB	-80.7 dB	-81.5 dB	-64.3 dB
Dynamic Range (A-weighted)	120 dB	115 dB	93 dB	70 dB
EIN @150 Ω (A-weighted)	-101dBu	-120 dBu	-125 dBu	-125 dBu

Specifications:

Model	AMP·73
I/O	1 × 6.35mm DI Input, 1 × XLR Input, 1 × AC 17.5V × 2 Input Port, 1 × 6.35mm Output
Buttons	1 × 48V Phantom Power Button, 1 × Line In Button, 1 × Phase Button, 1 × Input Transformer Button, 1 × Pad Button, 1 × Output Transformer Button
Knob	1× Stepped Gain Control Knob, 1× Output Control Knob
Accessories	1 × AMP·73 Unit, 2 × Rack Ears, 1× AC Power Adapter, 1× Rack Ear Mounting Screw Set
Weight	1.17 kg
Dimensions	241.2 × 130.1 × 45.6 mm

www.midiplus.com