

Quick Start Guide

Introduction

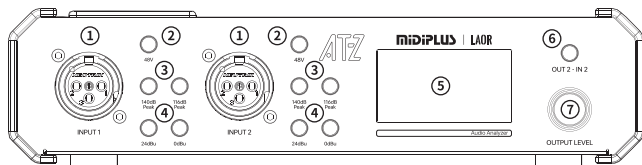
Thank you for choosing the **MIDIPLUS & LAOR** AT-2 Audio Analyzer. The AT-2 features 2 XLR inputs, 2 XLR outputs, 2 RCA outputs, and 1 IMP output. It is equipped with a 1.9-inch TFT LCD for real-time monitoring of input/output status. Designed specifically for measurement purposes, it is compatible with most audio measurement software, including Smaart, SysTune, SATlive, ARTA Software, REW, Audio Tools. The AT-2 is deeply integrated with VOS4, making it even more user-friendly. The AT-2 support low-latency ASIO driver on Windows OS and work straight away without needing to install any drivers on macOS. Please read this manual before you start using, to help you quickly understand the basic operations and features of the AT-2.

VOS4 download link: www.chaopinspace.cn

Features

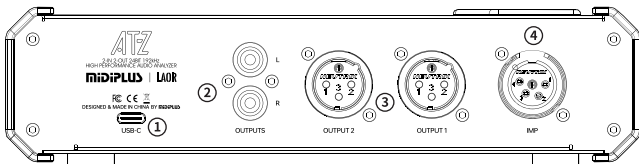
- USB Audio Analyzer designed specifically for acoustic calibration software
- 2 In / 2 Out, supporting up to 24-bit / 192kHz resolution
- 2 XLR inputs with individual 48V phantom power switches
- 2-stage gain setting for SPL measurement
- 2-stage gain setting for voltage measurement
- Outputs via XLR balanced connectors and RCA unbalanced connectors
- One-touch analog loopback on Channel 2 for reference loopback
- 1.9-inch Color display for real-time input/output level visualization
- Output Level adjustment precision of 0.1 dB
- Robust, durable full-metal chassis

Hardware Features



1. **INPUTS:** Used to connect the measuring microphones/dynamic microphones/condenser microphones, mixing consoles, audio processors, and other devices.
2. **48V Phantom Power Switch:** Toggles the 48V phantom power for XLR input (LED lits when enabled).
3. **SPL Range buttons:** Switches between high SPL (Sound Pressure Level) measurement mode and low SPL measurement mode during acoustic measurements. (Supports manual/software automatic control).
4. **Voltage Range buttons:** Switches between high voltage range and low voltage range during electrical measurements. When the voltage range button is lit, the 48V phantom power will be disabled. (Supports manual/software automatic control)
5. **Display Screen:** Displays the audio signal voltage of the input/outputs and the output attenuation level.
6. **OUT2-IN2 Switch:** When this switch is lit, the analog signal from OUTPUT 2 is looped back to INPUT 2. The voltage range button of INPUT 2 will automatically select 0dBu and become non-adjustable. When the switch is off, the signal loop is disconnected, and INPUT 2 can be operated normally.

7. Output Level Knob: Rotate counterclockwise to attenuate the output level. The attenuation level is simultaneously displayed on the screen. 0dB indicates no attenuation.



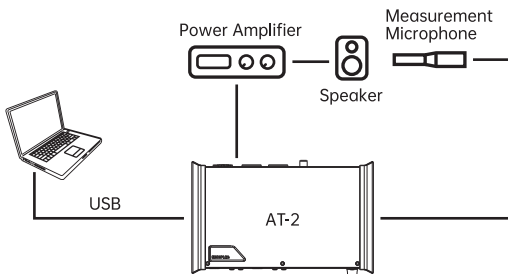
1. USB Port: For connecting a computer.

2. Unbalanced RCA Outputs: "L" is the Left channel; "R" is the Right channel.

3. Balanced XLR Outputs: "OUTPUT 1" is the Left channel, "OUTPUT 2" is the Right channel.

4. IMP Connector: Connects to the Impedance Adapter Box specific for AT-2, measuring the Speaker impedance curves, Capacitance, inductance, and resistance values.

Connection Example:



Measurement Procedure:

1. Connect the measurement microphone to the INPUT 1
2. Enable the 48V phantom power for INPUT 1 to power the measurement microphone.
3. Setting the INPUT 1 as measurement channel and INPUT 2 as reference channel in your software (automatically set in VOS).
4. Activate the pink noise generator in the software.
5. Adjust the speaker volume, and the frequency response curve will appear.

Driver download link: <http://midiplus.com/support.aspx?id=1>

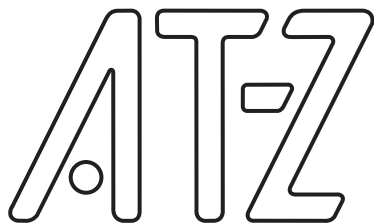
VOS & Tutorial link: <https://www.chaopinspace.cn/#/>



For more detailed tutorials, please follow the WeChat Official Account: CHAOPINSPACE.

Specifications:

Model	AT-2
THD+N	$\leq 0.0012\%$ (-98.723), @ 0dBFS, 10Hz-22KHz
Dynamic Range (A+ Weighted)	106dB
Input Impedance	2K Ω
Output Impedance	47 Ω
Maximum Output Level	+12dBu
Frequency Response	10Hz-22kHz, ± 0.2 dB
I/O	2×XLR Inputs, 2×RCA Outputs, 2×XLR Outputs, 1×IMP Connector, 1×USB-C Port
Buttons	2×48V Buttons, 4×SPL Range Buttons, 4×Gain Range Buttons, 1×OUT2-IN2 Button
Knob	1×Output Level Knob
Screen	1.9-inch TFT LCD
Accessories	Quick Start Guide, USB cable
Weights	0.8 kg
Dimensions (W×H×D)	205×51×131 mm



快速入门指南

简介

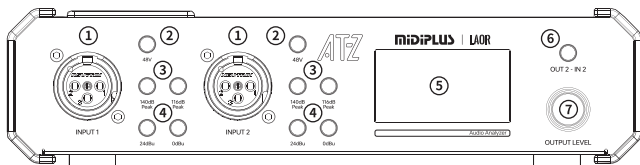
感谢您选择 **niDiPLUS & LAOR** AT-2测量音频接口, 这款测量音频接口带有2个XLR输入、2个XLR输出、2个RCA输出和1个IMP输出接口, 配有1.9英寸TFT液晶屏幕, 可实时观察输入/输出状态。作为一款针对测量用的音频接口。可兼容大部分音频测量软件, 如: Smaart, SysTune, SATlive, ARTA Software, REW, Audio Tools等, 其中AT-2更与VOS4深度整合, 使用更为便捷。AT-2支持Windows平台的低延迟ASIO驱动, 且在Mac平台下免安装驱动使用。在开始使用之前请阅读此手册, 以帮助您快速了解AT-2的基本功能。

VOS4 软件下载地址: www.chaopinspace.cn

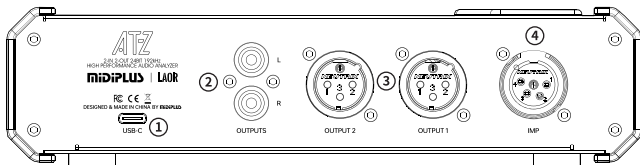
产品特性

- 专为声学校正软件而设计的USB音频分析仪
- 2进2出, 最高支持24bit/192kHz
- 2个独立控制48V的XLR输入通道
- 2级声压级测量档位用于声学测量
- 2级电压测量档位用于电学测量
- 带有XLR平衡输出和RCA非平衡输出
- 通道2支持一键模拟信号回路, 用于参考回路
- 1.9英寸彩色显示屏可实时显示输入输出电平
- 输出电平支持0.1 dB高精度调节
- 结实耐用的全金属机身

硬件功能

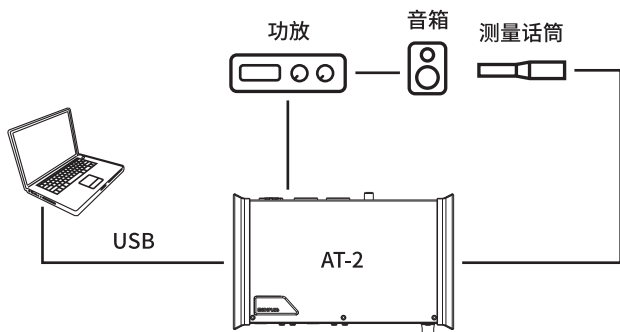


1. 输入接口:用于连接测量麦克风/动圈麦克风/电容式麦克风、调音台和音频处理器等设备。
2. 48V幻象电源开关:切换该通道幻象电源状态,灯亮时为开启,灯灭关闭。
3. 声压级档位按钮:在声学测量时,切换高声压级测量模式,与低声压级测量模式。(支持手动/软件自动控制)
4. 电压档位按钮:在电学测量时,切换高电压档位与低电压档位,点亮电压档位按钮时48V幻象电源关闭。(支持手动/软件自动控制)
5. 显示屏:显示输入/输出接口的音频信号电压值,与输出衰减值。
6. OUT2-IN2开关:此开关点亮时,OUTPUT 2的模拟信号回路到INPUT 2,INPUT 2的电压档位按钮将自动选择0dBu且不可操作,开关熄灭时断开信号回路,INPUT 2 可正常操作。
7. 输出电平旋钮:逆时针旋转衰减输出电平,同时屏幕上会显示衰减量,0dB表示无衰减。



1. USB接口：用于连接电脑。
2. 非平衡RCA输出接口：“L”为左声道输出；“R”为右声道输出。
3. 平衡XLR输出接口：“OUTPUT 1”为左声道输出；“OUTPUT 2”为右声道输出。
4. IMP阻抗盒子接口：连接为AT-2专门配置的适配盒（阻抗盒），用于测量喇叭的阻抗曲线、电容、电感 and 电阻值。

连接示意：



AT-2设置:

- 1.测量话筒接入INPUT 1接口。
- 2.启用INPUT 1的48V开关,使测量话筒工作。
- 3.在软件上设置测量通道为INPUT 1,参考通道为INPUT 2。(在VOS软件中会自动设置)
- 4.点亮测量软件的粉红噪声播放按钮。
- 5.调整音箱的音量,曲线即可出现。

驱动下载地址:<http://midiplus.com/cn/support.aspx?id=1>

VOS & 教程地址:<https://www.chaopinspace.cn/#/>



更多详细教程,请关注微信公众号:超频空间。

产品规格:

型号	AT-2
总谐波失真加噪声	$\leq 0.0012\%$ (-98.723), @ 0dBFS, 10Hz-22KHz
动态范围 (A加权)	106dB
输入阻抗	2K Ω
输出阻抗	47 Ω
最大输出电平	+12dBu
频率响应	10Hz-22kHz, ± 0.2 dB
I/O接口	2 $\times$ XLR输入接口; 2 $\times$ RCA输出接口; 2 $\times$ XLR输出接口; 1 $\times$ IMP输出接口; 1 $\times$ USB-C接口
按键	2 $\times$ 48V开关按键; 4 $\times$ 声压级档位切换按键; 4 $\times$ 电压档位切换按键; 1 $\times$ OUT2-IN2开关按键
旋钮	1 $\times$ 输出电平旋钮
屏幕	1.9英寸 TFT液晶屏幕
包装清单	快速上手指南、USB线
重量	0.8 kg
尺寸 (宽 $\times$ 高 $\times$ 深)	205 $\times$ 51 $\times$ 131 (毫米)