USB Audio Interface

User Manual
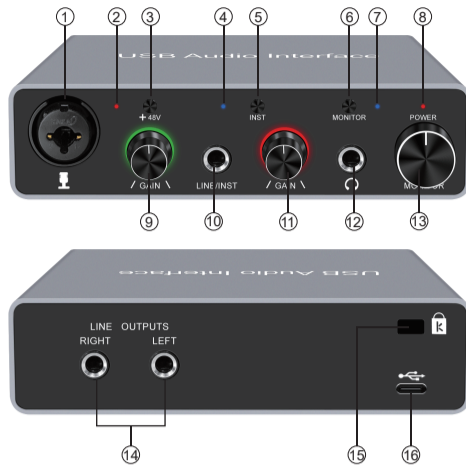

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AR001B-192K

Introduction

Record high-quality audio and build studio-grade songs with the AR001B audio interface. An all-encompassing recording companion for use at home or in the studio, capture crystal-clear vocals and track a range of instrumentation with the easy-to-use dual input.

Compatible with MacOSX and Windows, build your songs and monitor your recordings with active speakers or headphones in real-time with zero-latency.

For pristine sound in every environment - choose AR001B.

Operation Interface

① 🎤- combination XLR / ¼" connectors. Connect microphone audio sources to these connectors.
② +48V LED indicates that +48V phantom power is engaged.
③ +48V - phantom power switch for microphone input - enables 48V phantom power at the XLR socket (required for professional studio condenser microphones).
④ High Ohmage Input LED.
⑤ ✎/LINE - Instrument/Line level switch.
⑥ DIRECT MONITOR - selector activates direct monitoring of input signals with zero latency (no delay) when engaged.
⑦ MONITOR LED.
⑧ POWER LED.
⑨ GAIN 1 - adjust the input gain level for the microphone signal.
⑩ ✎/LINE - ¼" connectors. Connect instruments or line level audio sources to this connector.
⑪ GAIN 2 - adjust the input gain level for the instrument/line signal.
⑫ 🎧 - ¼" TRS output jack. If your headphones have a ¼" TRS jack plug, connect them directly; if they have a 3.5 mm TRS "mini jack", use a TRS ¼"-to-3.5 mm jack adaptor. Note that it is likely that headphones fitted with 4-pole TRRS plugs will not operate correctly.
⑬ PHONES - knob adjusts the output level at the headphones output.
⑭ LINE OUTPUTS LEFT and RIGHT - 2 x ¼" (6.35 mm).
⑮ The anti-theft lock hole.
⑯ USB 2.0 Type-C connector. Connect to a computer via this connector.

Specifications

Performance Specifications

Sampling precision	16Bit &24Bit ADC and DAC
Supported sample rates	DAC: 44.1 kHz, 48 kHz, 96kHz, 192kHz ADC: 44.1 kHz, 48 kHz, 96kHz, 192kHz

Microphone Input

Dynamic Range	95 dB (A-weighted)
Frequency Response	20 Hz to 20 kHz ±1 dB
THD+N	<0.01% (1kHz@0dBu)
Noise EIN	-110dBu (A-weighted)
Maximum Input Level	+8 dBu at minimum gain
Gain Range	50dB
Input impedance	3 kohms

Line Input

Dynamic Range	95dB (A-weighted)
Frequency Response	20 Hz to 20 kHz ±1 dB
THD+N	<0.01% (1kHz@0dBu)
Maximum Input Level	+17 dBu at minimum gain
Gain Range	50 dB
Input impedance	20 kohms

Instrument Input

Dynamic Range	95dB (A-weighted)
Frequency Response	20 Hz to 20 kHz ±1 dB
THD+N	<0.03%(1kHz@0dBu)

Maximum Input Level	+10dBu at minimum gain
Gain Range	45 dB
Input impedance	1 Mohms

LINE OUTPUTS

Dynamic Range	95 dB (A-weighted)
Maximum Output Level	+15.5 dBu balanced outputs
THD+N	<0.01%
Output impedance	221 ohms

Headphone Output

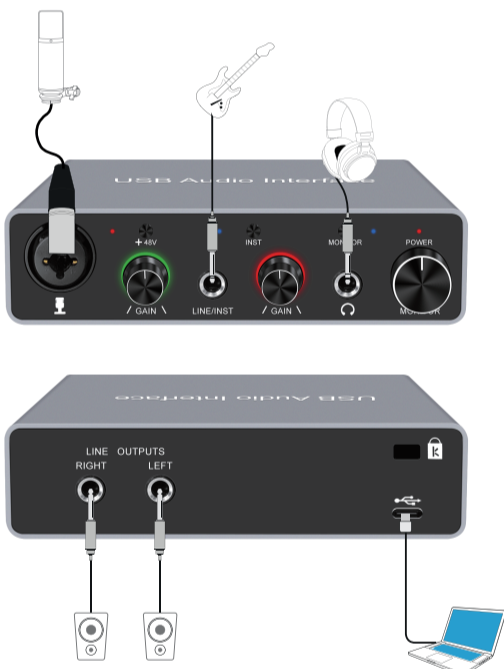|	
Dynamic Range	90 dB (A-weighted)
Maximum Output Level	+12 dBu
THD+N	<0.01%
Headphone impedance	30~300ohm

Physical and Electrical Characteristics

Analogue Input 1

Connector	Balanced, via female 3-pin XLR on front panel or TRS ¼ " (6.35 mm)
Phantom power	48 V phantom power switch

Analogue Input 2

Connector	¼ " (6.35 mm) jack socket on front panel INST mode: unbalanced, 2-pole (TS) LINE mode: balanced (TRS)
Line/Instrument switching	Front panel switch

Analogue Outputs

Main outputs	Balanced, 2 x ¼" TRS jacks on rear panel
Stereo headphone output	¼" TRS jack on front panel
Output level control (main and headphone)	On front panel
Direct Monitoring	Front panel switch; allows zero-latency monitoring of inputs

Other I/O

USB	1 x USB 2.0 Type C connector

Front Panel Indicators

POWER	Red LED
SIG	Green LED
CLIP	Red LED (light means audio signal in the channel is too loud)
Phantom power	Red LED

Weight and Dimensions

L x W x H	140 mm x 109 mm x 38 mm
Weight	337g

NOTE

1. The microphone input port uses a standard 3-pin XLR socket, which is compatible with most types of microphones.

2. If the microphone and the instrument input are used at the same time, the two inputs will be added in mono.

3. ⚠ This device only can work with Mac OS, Windows 10 and above operating systems.
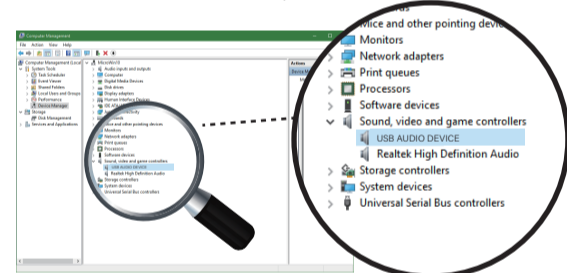
Fault Detect

Not working after connecting?

1. Try replacing the USB-C cable and retest the connection ensuring a firm connection is present.

2. Check if your operating system (Mac OSX or Windows) requires additional drivers. For use with most recording software, You could try installing driver ASIO4ALL.

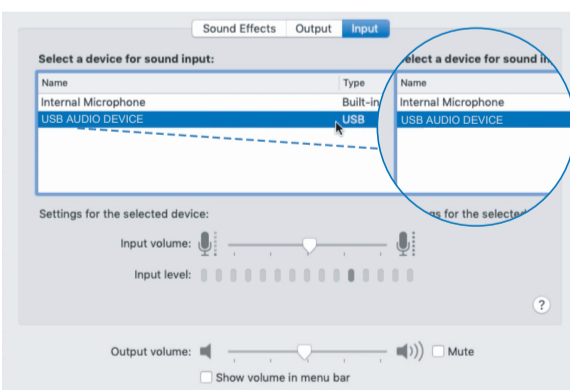Successfully connect the device to your computer by using a USB data cable.

(1) Windows
Step 1: Connect this product with computer via USB cable;
Step 2: Open device manager;
Step 3: The selected "Sound,video and game controllers" shows the device name " USB AUDIO DEVICE " of the product.
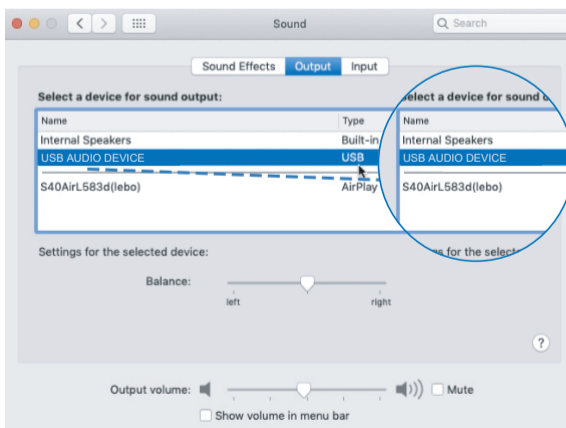
(2) Mac OS
Step 1: Open the settings in the Mac OS System Prefrences;
Step 2: Find the sound;
Step 3: Select the device" USB AUDIO DEVICE " for sound input.

When you need to monitor through this product, open the settings in the Mac OS System Prefrences, find the sound, and then select the device " USB AUDIO DEVICE " for sound output.

说明书制作说明:
名称:AR001B说明书
尺寸: 90*130mm
材质: 105g铜版纸
印刷: 彩印
装订方式: 折页
版本:
日期:2022.9.2