USB Audio Interface

User Manual

AR007-192K

Introduction

You can use this product to record high-quality audio on your computer.
Not only record the human voice through the microphone input port; also can record the instrument sound of an electric guitar or bass through the instrument input port of the ¼-inch (6.35 mm) jack; at the same time, you can connect the physical output to the speaker, active monitors, headphones or any other audio equipment for real-time monitoring.

Operation Interface

A:

B:

① ③ INST switcher - blue LED indicates that high ohmage state is selected, gain range and input impedance will be changed.

② ④ +48V - phantom power switch for microphone input - enables 48V phantom power at the XLR socket (required for professional studio condenser microphones)

⑤ •←← USB LED - The LED light will be powered when connect to computer

⑥ PHONES - knob adjusts the output level at the headphones output.

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(7) GAIN 1 - adjust the input gain level for the channel 1.

(8)(10)🎤 Line 🎸 - "Combo" input sockets - connect microphones, instruments (e.g., guitar), or line level signals here. Combo sockets accept both XLR and ¼" (6.35 mm) jacks. Microphones connect using XLR plugs; instruments and line level signals should be connected via ¼" (6.35 mm) jack plugs of either TS or TRS type.

(9) Volume VU meter - used for confirming sign level Green = signal, Red = clipping, CLIP LED indicates that the audio signal in the channel is too loud. Turn the corresponding GAIN knob counter-clockwise until the CLIP LED no longer light.

(11) GAIN 2 - adjust the input gain level for the channel 2.

(12) DIRECT MONITOR - this switch determines how input sources are to be monitored and steps between three Direct Monitoring modes: OFF, MONO and STEREO. When set to OFF, monitoring of input sources is via the DAW; in ◯ MONO or ⬭ STEREO, monitoring is taken directly from the preamp inputs and is therefore free of any possible latency effect.

(13) OUTPUT - adjust the output signal level of the [LINE OUTPUT].

(14) 🎧 - 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.

(15) The anti-theft lock hole.

(16) LINE OUTPUTS LEFT and RIGHT - 2 x ¼ " (6.35 mm) TRS jack sockets; connect to powered studio monitors.

(17) USB 2.0 Type-C connector - Connect to a computer via this connector.

(18) MIDI INPUT / MIDI OUTPUT.

Specifications

Performance Specifications

Sampling precision	16Bit / 24Bit - ADC&DAC
Supported sample rates	DAC: 44.1 kHz, 48 kHz, 96 kHz,192 kHz ADC: 44.1 kHz, 48 kHz, 96 kHz,192 kHz
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	50 dB
Input impedance	3 kohms

Line Input	
Dynamic Range	95 dB (A-weighted)
Frequency Response	20 Hz to 20 kHz ±1 dB
THD+N	<0.01% (1kHz@0dBu)
Maximum Input Level	+19 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	+11dBu at minimum gain
Gain Range	45 dB
Input Impedance	1 Mohms
Line Outputs	
Dynamic Range	95 dB (A-weighted)
Maximum Output Level (0dBFS)	+15.5 dBu balanced outputs
THD+N	<0.01%
Output impedance	221 ohms
Headphone Output	
Dynamic Range	90 dB (A-weighted)
Maximum Output Level	+10 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 INST mode: unbalanced, 2-pole (TS) LINE mode: balanced (TRS)
Phantom Power	Front panel switch
Line/Instrument switching	Front panel switch
Analogue Input 2	
Connector	Balanced, via female 3-pin XLR on front panel INST mode: unbalanced, 2-pole (TS) LINE mode: balanced (TRS)
Phantom Power	Front panel switch
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)	On front panel
Output level control (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
MIDI	1 x MIDI input, 1 x MIDI output
Weight and Dimensions	
L x W x H	175 mm x 120mm x 47mm
Weight	480g

Fault Detect

1. Not working after connecting?

We recommend replacing the USB-C cable to retest and check whether the connection is correct and firm.

2. How to confirm successful contacted with your computer by USB data cable?

(1) Windows

Step 1: Connect this product with computer via USB cable;

Step 2: Computer open device manager;

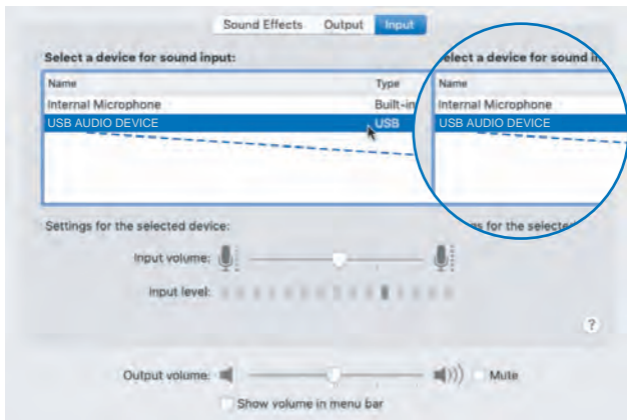Step 3: The selected "Sound,video and game controllers" shows the device name " USB AUDIO DEVICE" of the product.
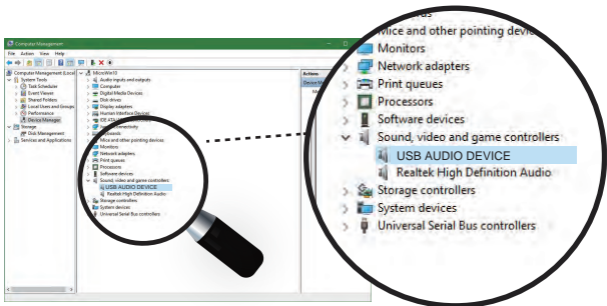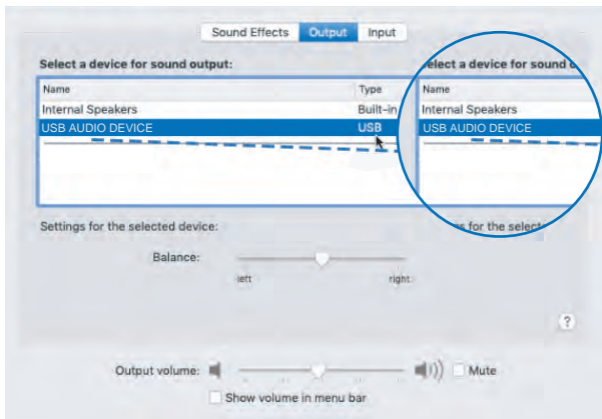
(2) Mac OS

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.

3. Does it make noisy when use?
We recommend that you only connect the USB-C cable, turn on the monitor, and it is normal to hear the current sound with headphones, and it indicates the product is no problem; if there are other noises, you can try to re-plug or replace the cable.

NOTE

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

2. Mac, Windows10 or above driver-free installation, you can install [ASIO4ALL] if you have special needs.