

# TASCAM

D01378300D

# US-2x2HR

# US-4x4HR

## USB Audio/MIDI Interface

**OWNER'S MANUAL**

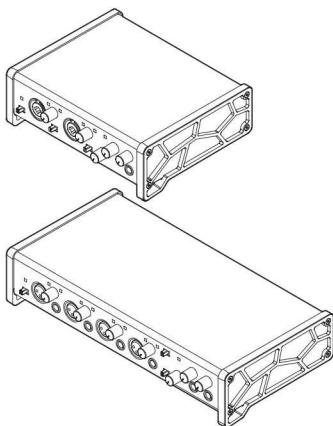
**MODE D'EMPLOI**

**MANUAL DEL USUARIO**

**BEDIENUNGSANLEITUNG**

**MANUALE DI ISTRUZIONI**

**取扱説明書**



ENGLISH

FRANÇAIS

ESPAÑOL

DEUTSCH

ITALIANO

日本語

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# OWNER'S MANUAL

## Introduction

Thank you for your purchase of the TASCAM US-2x2HR/US-4x4HR USB Audio/MIDI Interface. Before connecting and using this unit, please take time to read this manual thoroughly to ensure you understand how to properly set it up and connect it, as well as how to use its many useful and convenient functions. After you have finished reading this manual, please keep it in a safe place for future reference.

You can also download this Owner's Manual from the TEAC Global Site (<https://teac-global.com/>).

**Before connecting this unit to a computer, you must download and install a dedicated driver.**

## Note about the Reference Manual

This Owner's Manual explains each of the functions of this unit.

Please see the Reference Manual for detailed information about each of the functions.

You can download the Reference Manual from the TEAC Global Site (<https://teac-global.com/>).

## Included items

This product includes the following items. Take care when opening the package to avoid damaging the items. Keep the box and packing materials for transportation in the future. Please contact the store where you purchased this unit if any of these items are missing or have been damaged during transportation.

- Main unit.....x 1
- AC adapter (PS-P1220E, only included with US-4x4HR).....x 1
- USB cables (Type-A to Type-C) .....x 1
- Set of DAW software installation guides.....x 1
- Set of DAW plug-in software installation guides .....x 1
- Owner's Manual (this document) including warranty .....x 1

### ATTENTION

Always use the included AC adapter (PS-P1220E, DC12 V) with the US-4x4HR. Never use the included AC adapter with any other device. Doing so could cause damage, fire or electric shock.

### NOTE

The AC adapter (PS-P1220E, DC12 V) included with the US-4x4HR has alternate outlet plugs. Please see "Changing the outlet plug" in "4 – Preparation" of the Reference Manual for instructions.

# IMPORTANT SAFETY INSTRUCTIONS

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

## For U.S.A. Declaration of Conformity

Model Number:

US-2x2HR / US-4x4HR

Trade Name: TASCAM



Responsible party: TEAC AMERICA, INC.

Address: 10410 Pioneer Blvd. Suite #1  
Santa Fe Springs, California  
90670, U.S.A.

Telephone number: 1-323-726-0303

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## INFORMATION TO THE USER

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## CAUTION

Changes or modifications to this equipment not expressly approved by TEAC CORPORATION for compliance could void the user's authority to operate this equipment.

## For Canada

THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.  
CET APPAREIL NUMERIQUE DE LA CLASSE B EST CONFORME A LA NORME NMB-003 DU CANADA.



This product complies with the European Directives request and the other Commission Regulations.

1. Read these instructions.
  2. Keep these instructions.
  3. Heed all warnings.
  4. Follow all instructions.
  5. Do not use this apparatus near water.
  6. Clean only with dry cloth.
  7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
  8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
  9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
  10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
  11. Only use attachments/accessories specified by the manufacturer.
  12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
  13. Unplug this apparatus during lightning storms or when unused for long periods of time.
  14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- The apparatus draws nominal non-operating power from the AC outlet with its POWER or STANDBY/ON switch not in the ON position.
  - The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
  - Caution should be taken when using earphones or headphones with the product because excessive sound pressure (volume) from earphones or headphones can cause hearing loss.
  - If you are experiencing problems with this product, contact TEAC for a service referral. Do not use the product until it has been repaired.

## WARNING

- To prevent possible hearing damage, do not listen at high volume levels for long periods



## CAUTION

- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- Do not install this apparatus in a confined space such as a book case or similar unit.
- The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
- If the product uses batteries (including a battery pack or installed batteries), they should not be exposed to sunshine, fire or excessive heat.
- CAUTION for products that use replaceable lithium batteries: there is danger of explosion if a battery is replaced with an incorrect type of battery. Replace only with the same or equivalent type.

## For European Customers

### Disposal of electrical and electronic equipment

- (a) All electrical and electronic equipment should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
- (b) By disposing of the electrical and electronic equipment correctly, you will help save valuable resources and prevent any potential negative effects on human health and the environment.
- (c) Improper disposal of waste equipment can have serious effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.
- (d) The crossed out wheeled dust bin symbol indicates that electrical and electronic equipment must be collected and disposed of separately from household waste.
- (e) The return and collection systems are available to the end users. For more detailed information about disposal of old electrical and electronic equipment, please contact your city office, waste disposal service or the shop where you purchased the equipment.



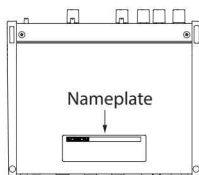
## CAUTION

- DO NOT REMOVE THE EXTERNAL CASES OR CABINETS TO EXPOSE THE ELECTRONICS. NO USER SERVICEABLE PARTS ARE INSIDE.
- IF YOU ARE EXPERIENCING PROBLEMS WITH THIS PRODUCT, CONTACT THE STORE WHERE YOU PURCHASED THE UNIT FOR A SERVICE REFERRAL. DO NOT USE THE PRODUCT UNTIL IT HAS BEEN REPAIRED.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

The nameplate is located on the bottom of the unit as shown below.

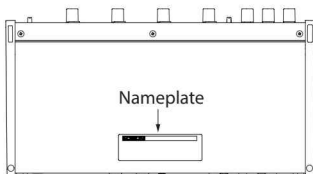
### US-2x2HR

Front side



### US-4x4HR

Front side



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## Conventions used in this manual

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In this manual, we use the following conventions:

- Information shown on a computer display is written like this: **"OK"**.
- References to "iOS" in this document also include "iPad OS".
- As necessary, additional information is provided under **TIP**, **NOTE** and **CAUTION** headings.

### **TIP**

These are tips about how to use the unit.

### **NOTE**

These provide additional explanations and describe special cases.

### **ATTENTION**

Failure to follow these instructions could result in damage to equipment or lost data, for example.

### **CAUTION**

Failure to follow these instructions could result in injury.

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## Precautions for placement and use

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- The operating temperature range of this unit is 5 - 35 °C.
- Do not install this unit in the following types of locations. Doing so could make the sound quality worse or cause malfunction.
  - Places with significant vibrations
  - Next to a window or in another location exposed to direct sunlight
  - Near heaters or other extremely hot places
  - Extremely cold places
  - Very humid or poorly ventilated places
  - Very dusty places
- To enable good heat dissipation, do not place anything on top of the unit.
- Do not place this unit on top of a power amplifier or other device that generates heat.

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## Beware of condensation

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Condensation could occur if the unit is moved from a cold place to a warm place, it is used immediately after a cold room has been heated or it is otherwise exposed to a sudden temperature change.

To prevent this, or if this occurs, let the unit sit for one or two hours at the new room temperature before using it.



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## Cleaning the unit

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Use a dry soft cloth to wipe the unit clean. Do not wipe with chemical cleaning cloths, thinner, alcohol or other chemical agents. Doing so could damage the surface or cause discoloration.

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## Using the TEAC Global Site

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You can download updates for this unit from the TEAC Global Site:

- <https://teac-global.com/>

In the TASCAM Downloads section, select the desired language to open the Downloads website page for that language.

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## Product registration

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Customers in the USA, please visit the following TASCAM website to register your TASCAM product online.

<https://tascam.com/us/>

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## About TASCAM customer support service

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TASCAM products are supported and warranted only in their country/region of purchase.

To receive support after purchase, on the TASCAM Distributors list page of the TEAC Global Site (<https://teac-global.com/>), search for the local company or representative for the region where you purchased the product and contact that organization.

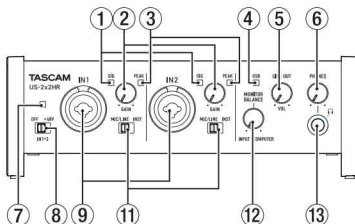
When making inquiries, the address (URL) of the shop or web shop where it was purchased and the purchase date are required.

Moreover, the warranty card and proof of purchase might also be necessary.

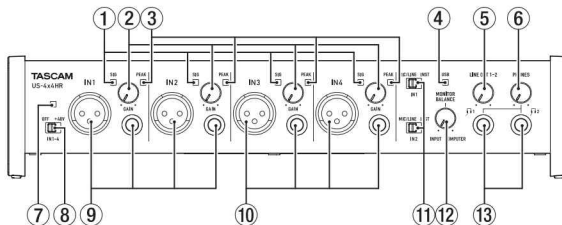
# Names and functions of parts

## Front panel

### US-2x2HR



### US-4x4HR



#### ① SIG indicators

These light green when signals (of at least  $-32$  dBFS) are input.

#### ② GAIN knobs

Use to adjust the input levels of the input jacks.

Adjust these so that the PEAK indicators do not light red.

#### ③ PEAK indicators

These light red when signals are about to distort ( $-1$  dBFS or higher).

#### ④ USB indicator

This lights when the USB connection is working.

#### ⑤ LINE OUT knob

Use to adjust the output level of the LINE OUT (BALANCED) 1-2 (⑮) jacks on the back of the unit.

## ⑥ PHONES knob

Use to adjust the output level of the PHONES jack (⑪1 and ⑪2 jacks on US-4x4HR).

### ⚠ CAUTION

Before connecting headphones, minimize the volume with the PHONES knob. Failure to do so could result in a sudden loud noise that could harm hearing, for example.

## ⑦ Phantom power indicator

The indicator lights when the phantom power switch is set to +48V.

### ATTENTION

When operating the US-4x4HR with USB bus power, use a commercially-available Type-C–Type-C cable to connect it to a USB Type-C port on the computer. If there is a problem with the power supply, the phantom power indicator will blink. In this case, use the included AC adapter (PS-P1220E, DC12 V).

## ⑧ Phantom power switch

Use this switch to provide +48 V phantom power to the IN1 and IN2 XLR jacks (and IN3/IN4 on the US-4x4HR).

### ⚠ CAUTION

Set the LINE OUT and PHONES knobs to their minimum values before changing the phantom power setting. Depending on the connected mics, sudden loud noises from monitoring equipment could occur, and this could damage the equipment or harm hearing.

## ⑨ IN1/IN2 jacks

On the US-2x2HR, these are XLR/TRS combo jacks for analog input.

On the US-4x4HR, these are separate XLR and standard TRS jacks for analog input.

These support high impedance input, including direct guitar input.

Use the MIC/LINE INST switches (⑪) to select balanced line (MIC/LINE) or unbalanced (INST) input for the TRS jacks.

When directly connecting a guitar, bass or other instrument, set the MIC/LINE INST switch (⑪) to INST.

## ⑩ IN3/IN4 jacks (US-4x4HR only)

These XLR analog mic input and standard line level TRS jacks are balanced input jacks.

### ATTENTION

On the US-4x4HR, IN1/IN2 (⑨) and IN3/IN4 (⑩) inputs each have two jacks (XLR and TRS). Do not input signals through both jacks of the same input at the same time. If signals are input through both at the same time, neither signal will be received properly.

### ⑪ MIC/LINE INST switches



Set according to the IN1/IN2 jack input sources.

Set to “MIC/LINE” when connecting electronic instruments, audio devices, mics and similar equipment. Set to “INST” when connecting a guitar, bass or other equipment with high output impedance.

### ⑫ MONITOR BALANCE knob

Use this to adjust the monitoring balance between the signals from this unit’s input jacks and the output signals from the computer.

### ⑬ PHONES jack

Use this standard stereo jack to connect stereo headphones. (Use 1 and 2 jacks on US-4x4HR.)

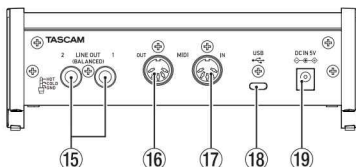
These output the same signals as the LINE OUT (BALANCED) 1-2 jacks.

Use an adapter to connect headphones with a mini plug.

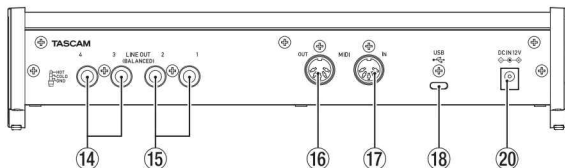
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## Rear panel

### US-2x2HR



### US-4x4HR



### ⑭ LINE OUT (BALANCED) 3-4 jacks (US-4x4HR only)

These standard TRS jacks are analog line outputs.

### ⑮ LINE OUT (BALANCED) 1-2 jacks

These standard TRS jacks are analog line outputs.

The signals output from the LINE OUT (BALANCED) 1-2 jacks (1-4 jacks on US-4x4HR) can be set in the Settings Panel.

For details about other settings, see “Settings Panel screen” in “5 – Using the Settings Panel” of the Reference Manual.

**16 MIDI OUT connector**

This 5-pin DIN is a standard MIDI output connector.  
This outputs MIDI signals.

**17 MIDI IN connector**

This 5-pin DIN is a standard MIDI input connector.  
Use this to input MIDI signals.

**18 USB port**

This is a USB Type-C port.  
Use a USB cable to connect the unit to a computer or an iOS device.

**19 DC IN 5V connector (US-2x2HR only)**

When connected to an iOS device or other equipment that cannot power this unit, a dedicated AC adapter (PS-P520E, DC5V, sold separately) with power supply must be connected to the DC IN 5V connector. (see “When using an iOS device” on page 17)

**20 DC IN 12V connector (US-4x4HR only)**

Under the following conditions, connect the included DC12V AC adapter (PS-P1220E, DC12V) here. (see “Using with an AC adapter” on page 17)

- When the USB bus power supply current is insufficient
- When connected to an iOS device or other equipment that cannot power this unit

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## Installing the dedicated software

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To use this unit, a dedicated software must be installed on a computer.

The dedicated software might be updated at any time. Download the latest software for the operating system you are using from the TEAC Global Site (<https://teac-global.com/>).

- When you install the dedicated software on a Windows computer, the Windows driver and the Settings Panel application will be installed.
- When you install the dedicated software on a Mac, only the Mac Settings Panel application will be installed. The standard OS driver will be used.
- With an iOS device, the standard OS driver will be used, so there is no need to install any.

### ATTENTION

Before starting to install software, quit other applications.

## Installing the Windows dedicated software

### ATTENTION

- Complete installation of the Windows dedicated software on the computer before connecting the unit to it with the USB cable.
- If you connected the unit to the computer using the USB cable before installing the Windows dedicated software and the *"Found New Hardware Wizard"* launched, close the Wizard and disconnect the USB cable.

### Windows dedicated software installation procedures

1. Download the latest Windows dedicated software from the TEAC Global Site (<https://teac-global.com/>) and save it on the computer to be used with the unit.
2. Uncompress the saved software (zip file) on the computer desktop or another location.
3. Double-click the *"TASCAM\_US-HR\_Installer\_x.xx.exe"* file in the folder that appears after uncompression to automatically launch the installation software.

### ATTENTION

If you open a zip file without decompressing it and doubleclick the *"TASCAM\_US-HR\_Installer\_x.xx.exe"* file in the folder that opens, installation will not start. Right-click the zip file and select *"Extract All"*, for example, to decompress it and then try again.

4. When a *"Security Warning"* or *"User Account Control"* screen appears, click the *"Yes"* button.
5. Read the contents of the User License Agreement, and select *"I accept the agreement"* if you agree to the terms. Then, click the *"Next >"* button. (Fig.A)
6. Next, click the *"Install"* button. (Fig.B)

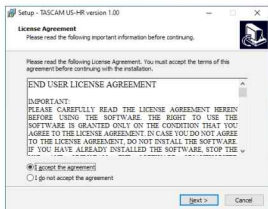


Fig.A

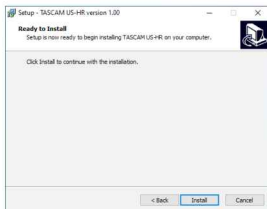


Fig.B

7. Next, click the *"Install"* button to start installation (Windows 8.1/Windows 7). (Fig.C)

8. The following screen appears when installation has completed. (Fig.D)  
Click the **“Finish”** button.



Fig.C



Fig.D

The installer will quit and the Windows Settings Panel will launch.

#### NOTE

The first time you connect the unit by USB to the computer after installing the software, installation of the device driver will be executed. Some time might be necessary before the unit is recognized because Windows Update will be automatically searched at this time. If the unit is still not recognized after a while, open the software installation screen from the notification area at the bottom right of the computer display, and click **“Skip obtaining driver software from Windows Update”** to stop the search.

## Installing the Mac dedicated software

#### NOTE

- Install the Mac dedicated software on the computer before connecting the unit to it with the USB cable.
- Depending on the Gatekeeper setting, a warning message might appear during installation. For information about Gatekeeper, Please see “Working with Gatekeeper” in “3–Installation” of the Reference Manual.

### Mac dedicated software installation procedures

1. Download the latest Mac dedicated software for the operating system you are using from the TEAC Global Site (<https://teac-global.com/>) and save it on the computer to be used with the unit.
2. Double-click **“US-HR\_Installer\_x.xx.dmg”**, which is the saved disk image file for the Mac dedicated software, and double-click **“US-HR\_Installer.pkg”** inside the folder that opens. (Fig.A)

#### NOTE

Depending on the computer’s settings, the downloaded zip file might not have been uncompressed automatically. In this case, uncompress the zip file first and then double-click the disk image file.

3. When the installer starts, click the **“Continue”** button. (Fig.B)



Fig.A

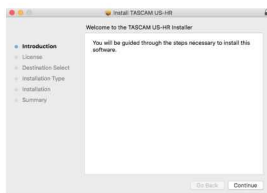


Fig.B

4. Next, select the desired language and click the **“Continue”** button. (Fig.C)
5. Click the **“Read License”** button and check the contents of the Software License Agreement. If you agree to the contents of the license, click **“Agree”**. (Fig.D)
- Then, click the **“Next”** button.

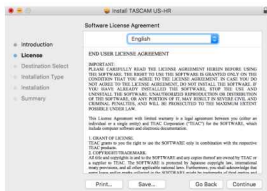


Fig.C



Fig.D

6. Next, click the **“Install”** button to start installation. (Fig.E)
7. The following screen appears when installation has completed. (Fig.F)
- Click the **“Close”** button.

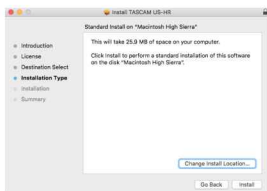


Fig.E

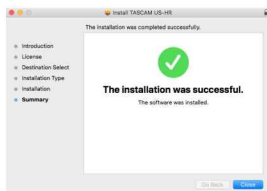


Fig.F



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## Connecting the power

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### When using a computer (Windows/Mac)

When this unit is connected to a computer using an included USB cable, it will operate using USB bus power, so connecting a separate power supply device is not necessary.

#### ATTENTION

When operating the US-4x4HR with USB bus power, use a commercially-available Type-C–Type-C cable to connect it to a USB Type-C port on the computer. If there is a problem with the power supply, the phantom power indicator will blink. In this case, use the included AC adapter (PS-P1220E, DC12 V).

#### NOTE

Depending on the computer, the USB port might not be able to supply enough power to operate the unit. In this case, connect and use a dedicated AC adapter.

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### When using an iOS device

When this unit is connected to an iOS device, connecting a dedicated AC adapter is necessary to supply power to the unit. Connect the dedicated AC adapter before connecting the USB cable.

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### Using with an AC adapter

#### US-2x2HR

Connect an AC adapter (PS-P520E, DC5V, sold separately) to the DC IN 5V connector. See “Using with an AC adapter” in “4 – Preparation” of the Reference Manual for instructions about connecting the adapter.

#### ATTENTION

We highly recommend using a dedicated AC adapter (PS-P520E, DC5 V, sold separately) with the US-2x2HR. When using another external power supply device, use one with the following specifications.

- Power supply voltage: 5 V
- Power supply current: 700 mA or more

Using a power supply device with specifications other than the above could cause malfunction, overheating, fire or other problems.

If trouble should occur, stop using the unit and contact the retailer where you purchased it or a TEAC service center to request repair.

## US-4x4HR

Under the following conditions, connect the included DC12V AC adapter (PS-P1220E, DC12 V) to the DC IN 12V connector.

- When the USB bus power supply current is insufficient
  - When connected to an iOS device or other equipment that cannot power this unit
- See “Using with an AC adapter” in “4 – Preparation” of the Reference Manual for instructions about connecting the adapter.

### ATTENTION

Always use the dedicated AC adapter (PS-P1220E, DC12 V) that was shipped with the unit. Using a different AC adapter could cause malfunction, overheating, fire or other problems.

### NOTE

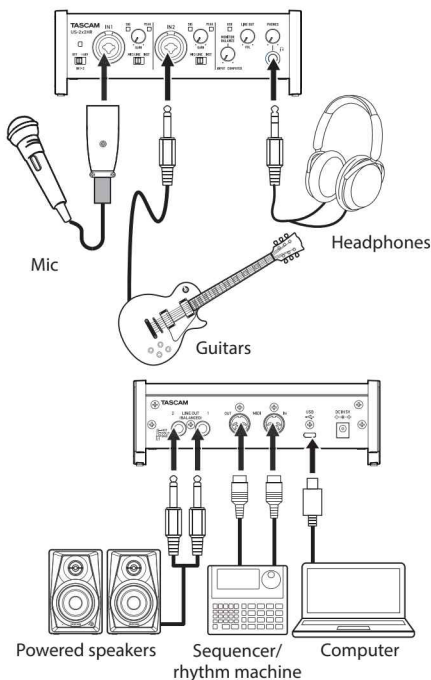
The included dedicated AC adapter (PS-P1220E, DC12 V) is shipped with 2 types of outlet plugs. Attach the type of plug that matches the power outlet that you are using. Please see “Changing the outlet plug” in “4 – Preparation” of the Reference Manual for instructions.

## Connecting other equipment

This is an example of US-2x2HR connections.

### Precautions before making connections

- Carefully read the operation manuals of the devices to be connected and then connect them correctly.
- Before making connections, turn this unit and all equipment to be connected off (standby).
- Install all connected devices, including this unit, so that they are powered from the same line. When using a power strip or similar device, be sure to use one that has high current capacity (thick cable) in order to minimize fluctuations in power voltage.



Examples of connections to a US-2x2HR

### CAUTION

Lower the LINE OUT and PHONES knobs before changing the phantom power switch between +48V and OFF. Depending on the connected mics, sudden loud noises from monitoring equipment could occur, and this could damage the equipment or harm hearing.

### ATTENTION

- Before connecting condenser mics, turn this unit and all equipment to be connected off (standby).
- The phantom power switch changes the setting for all input channels simultaneously (2 inputs on US-2x2HR and 4 inputs on US-4x4HR). Do not set the phantom power switch to +48V when connecting a mic that does not require phantom power.
- Do not connect or disconnect mics while the phantom power switch is set to +48V. Doing so could cause a loud noise and might damage this unit and connected equipment.
- Set the phantom power switch to +48V only when using a condenser microphone that requires phantom power. Setting phantom power to +48V when a dynamic mic or other equipment that does not require it is connected could damage this unit and the connected equipment.
- When using condenser mics that require phantom power and dynamic mics together, be sure to use balanced dynamic mics. Unbalanced dynamic mics cannot be used when phantom power is enabled.
- Supplying phantom power to some ribbon mics could break them. If you are unsure, do not supply phantom power to a ribbon mic.
- If you connect this unit to a laptop computer that is running on battery power and set the phantom power switch to +48V, the computer battery charge will be consumed more quickly.

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## Connecting with iOS devices

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To connect with an iOS device that has a Lightning connector use a Lightning to USB Camera Adapter\* and the USB cable included with this product.

To connect with an iOS device that has a USB Type-C connector, use a commercially-available Type-C–Type-C cable.

\* You must obtain a genuine Apple Lightning to USB Camera Adapter separately.

### NOTE

When connected, this unit will not provide power to the iOS device.

## Making various settings

### NOTE

In order to enable the computer to handle digital audio signals smoothly, other loads on the computer should be minimized as much as possible.

We recommend that you quit unneeded applications before use.

## Opening the Settings Panel

Open the Settings Panel in the following manner.

### Windows

- From the Start menu select *"US\_HR SettingsPanel"* under *"TASCAM"*.

### Mac

- On the Launchpad, click *"US-HR\_SettingsPanel"*.
- Using the Finder, open the Applications folder and double-click *"US-HR\_SettingsPanel"* to open the Settings Panel.

## Using the Settings Panel



### ① IN 1-2 buttons

Set the monitoring signal for the IN1/IN2 jacks to *"Mono"* or *"Stereo"*.

### ② IN 3-4 buttons (US-4x4HR only)

Set the monitoring signal for the IN3/IN4 jacks to *"Mono"* or *"Stereo"*.

### ③ Audio Input ON switches

Turn input on/off for each channel separately.

#### ④ LINE OUT 1-2

Select the signals output from the unit's LINE OUT (BALANCED) 1-2 jacks and PHONES ( ① and ② on US-4x4HR) jacks.

#### ⑤ LINE OUT 3-4 (US-4x4HR only)

Select the signals output from the unit's LINE OUT (BALANCED) 3-4 jacks.

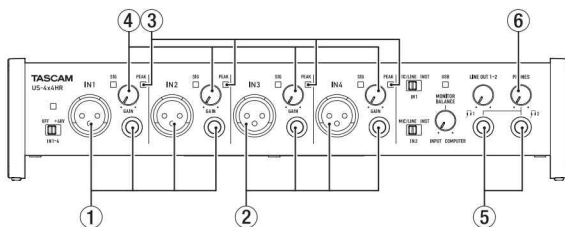
For details about other settings, see “Settings Panel screen” in “5 – Using the Settings Panel” of the Reference Manual.

## Adjusting the input sound

Analog audio signals input into this device from mics, guitars, keyboards and other audio equipment can be converted into digital signals and transmitted to the computer via USB.

You can use the features of this unit to adjust the digital signals that are sent to the computer. In addition, by connecting speakers (through an amplifier if not powered) or headphones to this unit, you can monitor audio signals that are input to this unit and output from the computer.

Use the various controls on the front of the unit as necessary while listening to the input sound.



Example using a US-4x4HR

Use the GAIN knobs (④) to adjust the analog input levels of the IN1/IN2 jacks (①) and IN3/IN4 jacks (②, US-4x4HR only) so that the PEAK indicators (③) above and to the right of the knobs do not light.

To listen to the monitoring signal using headphones, connect headphones to a PHONES jack (⑤) and adjust the PHONES knob (⑥).

### NOTE

If you cannot hear the input sound through the headphones or the LINE OUT (BALANCED) 1-2 jacks, check the settings of the MONITOR BALANCE knob on the front of the unit and the **IO Settings** item on the **Settings Panel** screen.

# Troubleshooting

Please read this chapter if you are unable to use the unit properly even after setting it up following the procedures in this manual.

If you are still unable to resolve your problems please contact TASCAM customer support (see the end of this manual) with the following information about the operating environment and details about the trouble.

## Operating environment

- Computer manufacturer:
- Model:
- CPU:
- Memory (RAM):
- Operating system:
- Applications used:
- Antivirus software:
- Wireless LAN use:

If these measures do not resolve the issue, please contact the retailer where you purchased this unit or a TEAC service center.

See the end of this document for contact information.

## The dedicated software cannot be installed

### 1. Check the operating system

The operating system being used might not be compatible with the software that you are trying to install. Check the compatible operating system of the software you are trying to install again.

### 2. Stop software running in the background

Antivirus software and other software that runs in the background can prevent installation. Quit software that runs in the background and try installation again.

## The unit is connected, but the computer does not recognize it

### 1. Install the dedicated software

- If you have not done so, install the dedicated software. (see "Installing the dedicated software" on page 13)

### 2. Change the USB port

- This unit cannot be used with USB 1.1. Use a port that supports at least USB 2.0 or USB 3.0.
- Do not use a USB hub with this unit. Always connect the unit directly to a USB port on the computer.
- If the above methods do not resolve the problem, connect the unit to a different USB port on the computer.

## There is no sound even when playing back on the computer

Confirm that the MONITOR BALANCE knob on the unit is not turned all the way to the left (toward INPUT). If that is the case, turn the MONITOR BALANCE knob to the right of center (toward COMPUTER).

In addition, check the status of the unit's connection with the computer. Moreover, if you make the following settings, sound will be output through this unit, but no sound will be output by the computer's speakers or headphone jack.

### Windows

- See the "Windows" section of "6 - Application Guide" in the Reference Manual, and make settings according to the OS.

### Mac

1. Quit all applications and open "*System Preferences...*" from the Apple menu.
2. Open "*Sound*".
3. On the "*Output*" tab, select "*US-2x2HR*" or "*US-4x4HR*".

After completing the setting, restart the computer and check the sound of playback. Depending on the application that you are using, you might need to make additional device settings.

In particular, DAW software operate using audio engines with settings that are different from the OS settings, so confirm the DAW settings first after installing the dedicated software for this unit.

Please see the manuals for the applications that you are using for detailed setting procedures.

## Sound breaks up or there is noise

The processing load on the computer causes sound to break up and noise to occur. Here are some methods to reduce the load on the computer.

1. A wireless LAN and software running in the background, including antivirus software, regularly put processing loads on the computer, which can cause sound to break up and other noise. Stop wireless LAN transmission, antivirus software and other software running in the background when using this unit.
2. Set the buffer size (latency) in the audio application that you are using or in this unit's Settings Panel to a larger value (Windows only).

### NOTE

Consult the maker of the audio application that you are using for methods to reduce its load on your computer.



3. Change the settings of your computer so that they are optimal for audio processing.

### Using Windows

- Performance Options

- ① Open the Control Panel using the appropriate method for the OS you are using (Windows 10/Windows 8.1/Windows 7).
  - In Windows 10, open the **"Control Panel"**. Then, click the **"System"** icon.
  - In Windows 8.1, right-click the ordinary Start screen (Metro user interface screen) and then click **"All apps"**. Then, right-click **"Computer"** and select **"Properties"**.
  - In Windows 7, right-click **"Computer"** from the Windows Start button, and select **"Properties"**.
- ② Click **"Advanced system settings"**.
- ③ Click **"Settings"** in the **"Performance"** section of the **"Advanced"** tab of the **"System Properties"** window.
- ④ In the **"Visual Effects"** tab of the **"Performance Options"** window, select **"Adjust for best performance"**.

### Using Mac

- ① Open **"System Preferences..."** from the Apple menu, and select **"Energy Saver"**.
- ② Set **"Computer sleep"** to **"Never"**.
- ③ Set **"Display sleep"** to **"Never"**.

### NOTE

Depending on the macOS version and Mac computer model, this setting might not be available.

4. Connect to a different USB port.

Since the unit might not properly function with some USB ports, try connecting it to a different USB port.

### NOTE

- Try again after disconnecting other USB devices (Keyboards and mice can be left connected).
- Do not use a USB hub. Always connect the unit directly to a USB port on the computer (built-in).

### Support for bundled software, including DAW software

TASCAM does not provide end-user support for the bundled DAW Software.

Please check the Help menu of the installed software to find where this support is available.

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# Specifications

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## General

### Sampling frequencies

44.1, 48, 88.2, 96, 176.4, 192 kHz

### Quantization bit depth

24-bit

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## Analog inputs

### Mic inputs (Balanced)

US-2x2HR: IN1/IN2

US-4x4HR: IN1/IN2, IN3/IN4

Connectors:

XLR-3-31 equivalent  
(1: GND, 2: HOT, 3: COLD)

Maximum input level:  
+9 dBu (2.183 Vrms)

Gain range: 56 dB

Input impedance: 2.2 k $\Omega$

### Instrument inputs (Unbalanced)

US-2x2HR: IN1/IN2

US-4x4HR: IN1/IN2

(MIC/LINE INST switch set to INST)

Connectors:

6.3mm (1/4") standard TS jacks  
(Tip: HOT, Sleeve: GND)

Maximum input level:  
+10 dBV (3.162 Vrms)

Gain range: 56 dB

Input impedance: 1 M $\Omega$  or more

### Line inputs (Balanced)

US-2x2HR: IN1/IN2

US-4x4HR: IN1/IN2, IN3/IN4

(MIC/LINE INST switch set to MIC/LINE)

Connectors:

6.3mm (1/4") standard TRS stereo  
jacks (Tip: HOT, Ring: COLD, Sleeve:  
GND)

Maximum input level:

+20 dBu (7.746 Vrms)

Gain range: 56 dB

Input impedance: 10 k $\Omega$

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## Analog outputs

### Line outputs (Balanced)

US-2x2HR: LINE OUT (BALANCED) 1-2

US-4x4HR: LINE OUT (BALANCED) 1-2  
LINE OUT (BALANCED) 3-4

Connectors:

6.3mm (1/4") standard TRS stereo  
jacks (Tip: HOT, Ring: COLD, Sleeve:  
GND)

Maximum output level:

+20 dBu (7.746 Vrms)

Rated output level:

+4 dBu (1.228 Vrms)

Output impedance: 210  $\Omega$

### Headphones output (PHONES)

Connector:

6.3mm (1/4") standard stereo jack

Maximum output

US-2x2HR: 18 mW + 18 mW or higher

US-4x4HR: 45 mW + 45 mW or higher  
(THD+N 0.1% or less, into 32  $\Omega$   
load)

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## Control input/output ratings

### MIDI IN connector

Connector: 5-pin DIN

Format: standard MIDI

### MIDI OUT connector

Connector: 5-pin DIN

Format: standard MIDI

**USB**

Connector: 4-pin USB Type-C  
 Transfer rate:  
 USB 2.0 High Speed (480 Mbps)

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**Audio performance**

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**Mic amp EIN (equivalent input noise)**

−128 dBu or less

**Frequency response****MIC/LINE IN**

At 44.1/48 kHz, 20 Hz - 20 kHz:  
 +0 dB/−0.4 dB (JEITA)

At 88.2/96 kHz, 20 Hz - 40 kHz:  
 +0 dB/−0.4 dB (JEITA)

**LINE OUT**

At 44.1/48 kHz, 20 Hz - 20 kHz:  
 +0.2 dB/−0.1 dB (JEITA)

At 88.2/96 kHz, 20 Hz - 40 kHz:  
 +0.2 dB/−0.4 dB (JEITA)

**S/N ratio**

110 dB

(MIC IN, GAIN knob at minimum, 20 kHz SPCL LPF+A-Weight)

108 dB

(LINE IN, GAIN knob at minimum, 20 kHz SPCL LPF+A-Weight)

110 dB

(LINE OUT, LINE OUT knob at maximum, 20 kHz SPCL LPF+A-Weight)

**THD + N**

0.0013%

(MIC IN, 1 kHz sine wave, −5 dBFS input, GAIN knob at minimum, 20 kHz SPCL LPF)

0.0011%

(LINE IN, 1 kHz sine wave, −5 dBFS input, GAIN knob at minimum, 20 kHz SPCL LPF)

0.0012%

(LINE OUT, 1 kHz sine wave, −4 dBFS input, LINE OUT knob at maximum, 20 kHz SPCL LPF)

**Crosstalk**

95 dB or more (MIC/LINE IN to LINE OUT, 1 kHz sine wave, GAIN knob at minimum)

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**Computer system requirements**

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Check the TEAC Global Site (<https://teac-global.com/>) for the latest information about supported operating systems.

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**Windows****Supported operating systems**

Windows 10 32-bit

Windows 10 64-bit

Windows 8.1 32-bit

Windows 8.1 64-bit

Windows 7\*

Windows 7 32-bit SP1 or later

Windows 7 64-bit SP1 or later

\* Operation has been confirmed with the final version of Windows 7.

**Computer hardware requirements**

Windows computer with a USB 2.0 (or higher) port

**CPU/processor speed**

2 GHz or faster dual core processor (x86)

**Memory**

2 GB or more

**ATTENTION**

Operation of this unit was confirmed using standard computers that

meet the above requirements. This does not guarantee operation with all computers that meet the above requirements. Even computers that meet the same system requirements might have processing capabilities that differ according to their settings and other operating conditions

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## Mac

### Supported operating systems

macOS Catalina (10.15 or later)  
macOS Mojave (10.14 or later)  
macOS High Sierra (10.13 or later)

### Computer hardware requirements

Mac with a USB 2.0 (or higher) port

### CPU/processor speed

2 GHz or faster dual core processor

### Memory

2 GB or more

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## iOS devices

Operation has been confirmed with Apple devices running the following iOS versions.

iPadOS13  
iOS13  
iOS12  
iOS11

### ATTENTION

To connect an iOS device that has a Lightning connector, a genuine Apple Lightning to USB Camera Adapter (sold separately) is necessary.

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## Supported audio drivers

### Windows

ASIO2.0, WDM, MIDI

## Mac

Core Audio, Core MIDI

## iOS device

Core Audio

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## Other

### Power

#### Used with a computer

USB bus power or connected to the dedicated AC adapter below

#### Used with an iOS device

Connected to the dedicated AC adapter below

US-2x2HR: TASCAM PS-P520E,  
DC 5 V

US-4x4HR: TASCAM PS-P1220E,  
DC 12 V

### Power consumption

US-2x2HR: 1.75 W

US-4x4HR: 2.25 W

### Dimensions

US-2x2HR: 186 × 65 × 160 mm

US-4x4HR: 296 × 65 × 160 mm

(W × H × D, including protrusions)

### Weight

US-2x2HR: 1.1 kg

US-4x4HR: 1.6 kg

### Operating temperature range

5–35 °C (41 - 95°F)

- Illustrations in this manual might differ in part from the actual product.
- Specifications and external appearance might be changed without notification to improve the product.
- Detailed specifications are provided in the Reference Manual.