

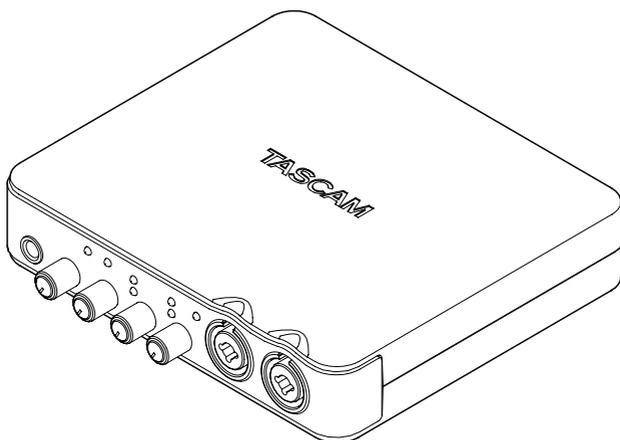
TASCAM

D01139820A

US-200

USB 2.0 Audio/MIDI Interface

OWNER'S MANUAL



Before connecting this unit to a computer, you must install the dedicated driver from the included CD-ROM onto the computer.

IMPORTANT SAFETY INFORMATION

- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- 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.

Declaration of Conformity

Model Number: US-200
 Trade Name: TASCAM
 Responsible party: TEAC AMERICA, INC.
 Address: 7733 Telegraph Road, Montebello, California, 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.

This appliance has a serial number located on the bottom panel. Please record the model number and serial number and retain them for your records.

Model number _____
 Serial number _____

FOR U.S.A.

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 instructions, 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.

产品有毒有害物质或元素的名称及含量

机种: US-200		有毒有害物质或元素					
	品名	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
1	CHASSIS部份	○	○	○	○	○	○
2	PCB Assy部份	×	○	○	○	○	○
3	线材部份	○	○	○	○	○	○
4	附属品部份	○	○	○	○	○	○
5	SEAL部份	○	○	○	○	○	○
6	包装部份	○	○	○	○	○	○

○: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。
 ×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。
 (针对现在代替技术困难的电子部品及合金中的铅)

■ 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 collection facilities designated by the government or local authorities.
- (b) By disposing of 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 electrical and electronic equipment can have serious effects on the environment and human health because of the presence of hazardous substances in the equipment.
- (d) The Waste Electrical and Electronic Equipment (WEEE) symbol, which shows a wheeled bin that has been crossed out, indicates that electrical and electronic equipment must be collected and disposed of separately from household waste.



- (e) Return and collection systems are available to end users. For more detailed information about the disposal of old electrical and electronic equipment, please contact your city office, waste disposal service or the shop where you purchased the equipment.

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1 – Introduction

Thank you for your purchase of the TASCAM US-200 USB 2.0 Audio/MIDI Interface.

Before connecting and using the unit, please take time to read this manual thoroughly to ensure you understand how to properly set up and connect the unit, as well as the operation of 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 the Owner's Manual from the TASCAM web site (<http://tascam.com/>).

Please also check the above site for the latest manual updates.

If any data is lost from another MIDI device, hard disk, MO disc or other media in the same system where this unit is used, TASCAM will bear no responsibility for its recovery, nor will it provide any compensation for such loss.

Main features

- USB 2.0 audio/MIDI interface
- 24-bit/96 kHz audio interface
- 2-channel analog input signals (L, R) can be input at the same time
- Two XLR mic inputs (balanced) with high performance microphone preamps
- Two standard input jacks (combined with the XLR connectors)
- One of the 1/4" phone inputs can be switched to allow direct input (high impedance) of an electric guitar or electric bass.
- 2 unbalanced stereo line outputs (RCA jacks) and a headphone output
- Output level from the unbalanced stereo line output and headphones jacks can be adjusted using a volume knob (same knob controls both simultaneously)
- MIDI IN/OUT
- Direct Monitor function allows zero-latency monitoring of the input
- Inputs 1 and 2 can be set to be monitored as either a stereo pair or as two mono channels
- Input and overload LED indicators included for each input channel
- MON MIX knob allows the balance between the input signals and the output from the computer to be adjusted for monitoring
- Power can be supplied from a USB bus, which is convenient for mobile use
- Dedicated Windows (Windows XP, Windows Vista, Windows 7) and Macintosh (OS 10.5, OS10.6) drivers included
- USB 2.0 High Speed (480 MHz) compatible
- Can supply 48 V phantom power to 2 mic inputs
- Cubase LE 5 bundle

A note about computer operation

If you are unsure about how to perform basic computer operations appearing in this manual, please refer to the owner's manual that came with your computer.

To use this unit, you must use the included CD-ROM to install the dedicated driver on your computer. For details about installation, see "Installing the driver and control panel" in "3 – Installation".

1 – Introduction

Product parts

The US-200 package contains the following items.

Take care when opening the package not to damage the items. Keep the package 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..... 1
- USB Cable 1
- CD-ROM (containing drivers) 1
- DVD-ROM (Cubase LE5)..... 1
- Cubase LE5 Quick Start Guide..... 1
- Warranty card..... 1
- Owner's Manual (this document) 1

Manual conventions

- Buttons, jacks and other parts on the unit and external devices are indicated like this:
LEVEL.
- When we show messages, for example, that appear on the screen, we show them like this: OK.
- Additional information is introduced in the styles below when needed:

TIP

These are tips about how to use the unit.

NOTE

These provide additional explanations and describe special cases.

CAUTION

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

Trademarks

- TASCAM is a trademark of TEAC Corporation, registered in the U.S. and other countries.
- Microsoft, Windows, Windows Vista, Windows 7, and Windows Media Player are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Apple, Macintosh, Mac, Mac OS X and iTunes are trademarks of Apple Inc.
- Pentium and Intel are trademarks of Intel Corporation in the U.S. and/or other countries.
- AMD Athlon is a trademark of Advanced Micro Devices, Inc.
- Cubase is a registered trademark of Steinberg Media Technologies GmbH. ASIO is a trademark of Steinberg Media Technologies GmbH.
- Other company names, product names and logos in this document are the trademarks or registered trademarks of their respective owners.

Cautions on installation

- The unit's nominal operating temperature is between 5° and 35° C (41° – 95° F).
- Do not install in the following types of places. Doing so could degrade the sound quality and/or cause malfunctions.
 - Places with significant vibrations or that are otherwise unstable
 - Near windows or other places exposed to direct sunlight
 - Near heaters or other extremely hot places
 - Extremely cold places
 - Places with bad ventilation or high humidity
 - Very dusty locations
- Make sure that the unit is mounted in a level position for correct operation.
- Do not place any object on the unit for heat dissipation.
- Avoid installing this unit on top of any heat-generating electrical device such as a power amplifier.

Beware of condensation

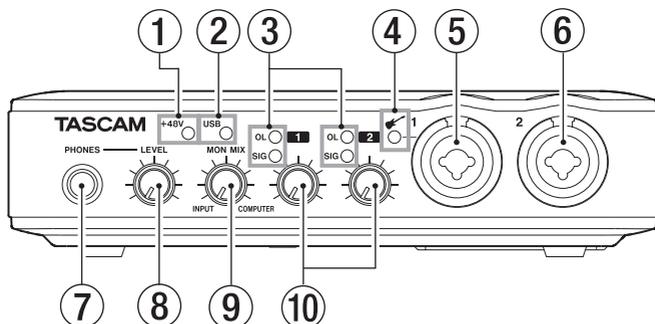
If the unit is moved from a cold to a warm place, or used after a sudden temperature change, there is a danger of condensation; vapor in the air could condense on the internal mechanism, making correct operation impossible. To prevent this, or if this occurs, let the unit sit for one or two hours at the new room temperature before using.

Cleaning the unit

To clean the unit, wipe gently with a soft dry cloth. Do not use any benzene, paint thinner, ethyl alcohol or other chemical agents to clean the unit as they could damage the surface.

2 – Names and Functions of Parts

Front panel



① +48V indicator

This lights when the **PHANTOM (+48V)** switch is set to ON.

CAUTION

Do not connect or disconnect microphones when this indicator is lit.

② USB indicator

This lights when the USB connection is active.

③ OL and SIG indicators

OL (overload) indicators

These light just before the input signal distorts (when it exceeds -2 dBFS).

SIG (signal) indicators

These light when a signal (of -30 dBFS or more) is input through the corresponding channel.

④ indicator

This lights when the **INST/LINE** switch is set to **INST**.

⑤ MIC/LINE/INST IN 1 (balanced/unbalanced) connector

Use this connector for balanced analog XLR microphone input or as a standard TRS jack. Use the **INST/LINE** switch on the rear panel to set the function of this standard TRS jack to either balanced line input (**LINE**) or unbalanced guitar input (**INST**).

• XLR (1: GND, 2: HOT, 3: COLD)

• TRS (Tip: HOT, Ring: COLD, Sleeve: GND)

⑥ MIC/LINE IN 2 (balanced) connector

Use this connector for balanced analog XLR microphone input or as a standard TRS jack for balanced analog input.

• XLR (1: GND, 2: HOT, 3: COLD)

• TRS (Tip: HOT, Ring: COLD, Sleeve: GND)

⑦ PHONES jack

Use this standard jack to connect stereo headphones. Use an adapter to connect headphones with a miniplug.

CAUTION

Before connecting headphones, turn the **LEVEL** knob to minimize the volume. Failure to do so might cause sudden loud noises, which could harm your hearing or result in other trouble.

NOTE

The **LEVEL** knob also adjusts the line output level.

2 – Names and Functions of Parts

⑧ **LEVEL knob**

Use this to adjust the level output from the **LINE OUT 1/2** jacks and the **PHONES** jack. This does not adjust the level output from the **LINE OUT 3/4** jacks.

CAUTION

Before connecting headphones, turn the **LEVEL** knob to minimize the volume. Failure to do so might cause sudden loud noises, which could harm your hearing or result in other trouble.

⑨ **MON MIX knob**

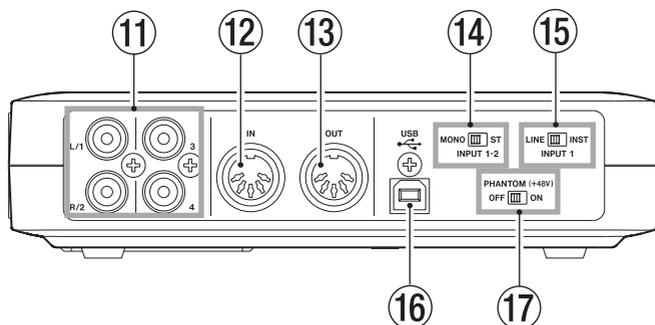
Use this knob to adjust the balance between the signals input through the unit's connectors (**MIC IN** and **LINE IN**) and the signal output from the computer by USB. Turn it all the way to the left (**INPUT**) to output and monitor only the signals input through the unit, and turn it all the way to the right (**COMPUTER**) to output and monitor only the signals sent from the computer by USB.

⑩ **Gain knobs**

Use these to individually adjust the input levels of **MIC/LINE/INST IN 1** and **MIC/LINE IN 2** connectors. Turn them all the way to the left to minimize the level and all the way to the right to maximize it.

2 – Names and Functions of Parts

Rear panel



⑪ **LINE OUT 1/2/3/4 (unbalanced) jacks**

These RCA pin jacks are unbalanced analog line outputs.

These jacks can output signals sent from the computer via USB, signals from the built-in monitoring mixer or a combination of both. Use the US-200 software control panel on the computer to set which signals are output. Connect these jacks to recorders, speakers with built-in amplification and external effect devices, for example.

NOTE

- The **LINE OUT 1/2** jacks can output the analog signals input through the unit.
- The **LEVEL** knob, which also controls the headphone output, can be used to adjust the output level of the **LINE OUT 1/2** jacks.
- The **LINE OUT 3/4** jacks cannot output the analog signals input through the unit. Furthermore, their output levels cannot be adjusted from the unit.

⑫ **MIDI IN jack**

This is a standard DIN 5-pin MIDI input jack.

Use it to input MIDI signals to the computer connected by USB.

⑬ **MIDI OUT jack**

This is a standard DIN 5-pin MIDI output jack.

Use it to output MIDI signals from the computer connected by USB to a connected MIDI device.

⑭ **ST/MONO switch**

When monitoring two inputs (**MIC/LINE/INST IN 1** and **MIC/LINE IN 2**), use this switch to set it to mono or stereo.

When set to **MONO**, the two inputs are mixed, and the mix is sent to both **LINE OUT 1** and **2** jacks.

When set to **ST**, the signal input from the **MIC/LINE/INST IN 1** connector is output through the **LINE OUT 1** jack, and the signal input from the **MIC/LINE IN 2** connector is output through the **LINE OUT 2** jack.

When only using the **MIC/LINE/INST IN 1** connector input, set this switch to **MONO** to monitor the signal through both the **LINE OUT 1** and **LINE OUT 2** jacks.

⑮ **INST/LINE switch**

Set this switch according to the input connected to the **MIC/LINE/INST IN 1** connector. Set it to **INST** when directly connecting an electric guitar or electric bass guitar, for example. Set it to **LINE** when connecting an electronic instrument or audio equipment, for example.

2 – Names and Functions of Parts

⑩ USB port

Use the included USB cable to connect this unit to a USB 2.0-compatible computer.

NOTE

- The US-200 obtains power from the host computer via the USB cable. In rare cases, a computer's USB port may not be able to supply enough power to operate the US-200.
- This is not compatible with USB 1.1 (12 MHz) and cannot be used to connect by USB 1.1.
- This is not compatible with computer Suspend (Sleep) mode. For this reason, the unit might not operate properly after a connected computer is brought out of Suspend (Sleep). In this case, disconnect the USB cable once and then reconnect it.

⑪ PHANTOM (+48V) switch

Use this switch to provide +48 V phantom power to microphone input connectors **1** and **2**.

CAUTION

- Set this switch to **OFF** before turning this unit's power on or off (connecting or disconnecting the USB cable).
- Before changing the setting of this switch to **ON** or **OFF**, turn the **LEVEL** knob to its minimum level. Depending on the microphone connected, a loud noise could occur, which might damage equipment or harm hearing.
- Do not connect or disconnect microphones when this switch is set to **ON**.
- Turn this switch on only if you are using condenser microphones that require phantom power.
- Unbalanced dynamic microphones should never be connected to phantom-powered connectors.

- Some ribbon mics can be damaged by phantom power. If unsure, do not supply phantom power to a ribbon mic.
- When this switch is **ON**, if the unit is connected to a computer running on battery power, the battery will be drained more quickly.
- Do not use phantom power when line level equipment is connected to an XLR connector.

3 – Installation

System requirements

See the TASCAM website (<http://tascam.com/>) for updated information about OS compatibility.

Windows

Supported operating systems:

Windows XP 32-bit SP3 or later
Windows XP 64-bit SP2 or later
Windows Vista 32-bit SP2 or later
Windows Vista 64-bit SP2 or later
Windows 7 32-bit
Windows 7 64-bit

Supported computer systems:

Windows compatible computer with a USB 2.0 port

CPU/clock speed:

Pentium 4 1.0 GHz or faster
AMD Athlon 1.0 GHz or faster
(or equivalent processor)

Memory:

1 GB or more

NOTE

Although this product has been checked for use with typical computers that meet the above operating requirements, we cannot guarantee that it will operate with all computers that meet these requirements. Please be aware that even in the same conditions, computer processing capabilities can vary depending on differences in design and specifications.

Mac OS X

Supported operating systems:

Mac OS X 10.5.8 or later
Mac OS X 10.6.3 or later

Supported computer systems:

Apple Macintosh equipped with a USB port

CPU:

Any Mac with an Intel processor, or PPC G4 1 GHz or faster

Memory:

1 GB or more

Installing the driver and control panel

In order to use this unit, you must install the driver on to your computer. As described below, this is an easy process using the CD-ROM included with the unit.

Drivers are updated from time to time. You can download the most recent version of the driver from the TASCAM website (<http://tascam.com/>).

Disconnect the unit from the computer before starting driver installation.

CAUTION

- Handle the enclosed CD-ROM with care. If the disc becomes scratched or dirty, a computer might not be able to read it, making installation of the software impossible. If the included disc becomes unreadable, it can be replaced for a fee.
- Never attempt to play the enclosed CD-ROM in an ordinary audio CD player, as the resulting noise could damage the speakers or harm your hearing.

Installing the driver and control panel for Windows

NOTE

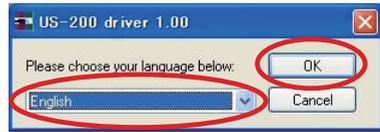
- During driver installation, a warning that “this software ... has not passed Windows Logo testing” will appear. This message appears when installing a driver that has not received Windows Logo testing. This message appears because the drivers for TASCAM products have not undergone Windows Logo testing. We have, however, confirmed their proper operation. When this message appears, click Continue anyway or Install to continue the installation.
- During installation, you must connect the unit in step 7. You should complete the installation step in less than one minute. Installation may fail if you take too much time.

Installation on a Windows computer

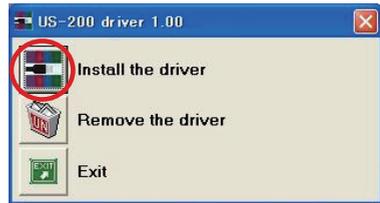
- 1 Confirm that the unit and the PC are not connected by a USB cable.
- 2 Insert the included driver installation CD-ROM into the PC where you will install it.
- 3 Click the Install Driver button when the screen below appears. (If this screen does not appear automatically, find and open the Autorun2.exe program in the Autorun folder on the driver CD-ROM.)



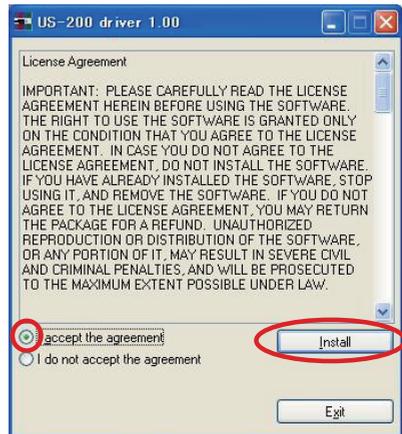
- 4 When the language selection screen (below) appears, select the language you prefer and then click the OK button.



- 5 Click the Install the driver button when the screen below appears.

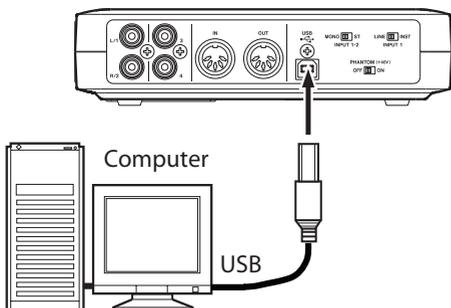


- 6 Read the contents of the License Agreement, and select I accept the agreement if you agree to the terms. Next, click the Install button to start installation.



- 7 When the screen below appears, use the supplied USB cable to connect the unit to the PC.

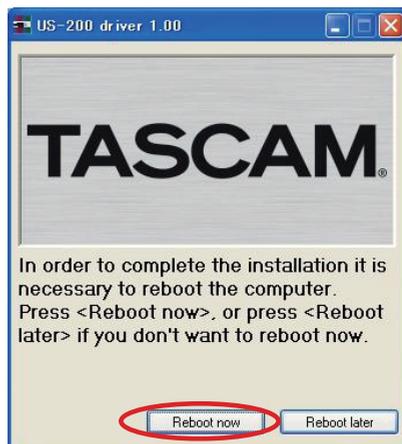
3 – Installation



8 Installation of the driver proceeds.



- 9 When the screen below appears, the installation is complete. Click the **Reboot now** button to restart the PC to use the driver.



- 10 After the PC has restarted, open the TASCAM US-200 (Start > Control Panel) or US-200 Control Panel (Start > All Programs > TASCAM). If the Driver Version, Device and other data appear correctly, the installation has succeeded.



Installing the driver for Mac OS X

- 1 Confirm that the US-200 is not connected to the computer.
- 2 Double-click the TASCAM_US200_Driver_1.00.dmg on the included CD-

ROM. The TASCAM_US200_1.00.mpkg" is created on the desktop.

- 3 Double-click the TASCAM_US200_1.00.mpkg on the desktop to launch the installer.**
- 4 Follow the instructions on the screen to conduct the installation.**
- 5 Restart the computer and then connect the unit.**

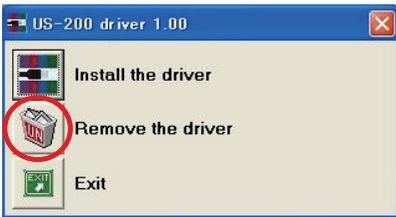
Uninstalling the driver

■ Windows

There are two ways to uninstall the driver as shown below.

Using the Installation CD-ROM:

- 1 Follow steps 1 to 4 under “Installing the driver and control panel for Windows” (See page 13.)**
- 2 At step 5 of the procedure, click Remove the driver.**



- 3 Follow the instructions on the screen for the remaining procedure.**

Using Windows “Add or Remove Programs”

- 1 Open the Control Panel from the Start menu.**
- 2 Double click on Add or Remove programs.**
- 3 Select US-200 driver from the list and click Change or Remove Programs.**
- 4 Follow the instructions on the screen for the remaining procedure.**

■ Mac OS X

- 1 Insert the CD-ROM into the computer, open TASCAM_US200_Driver_1.00.dmg and double click TASCAM US-200 remover icon.**



TASCAM US-200 remover

- 2 Follow the instructions on the screen for the remaining procedure.**

Frequently asked installation questions and answers (FAQ)

Windows driver installation

- Q:** When I connect the unit to a computer, the Windows Hardware Wizard appears and I cannot install the driver. Am I making a mistake during the installation procedures?
- A:** Close the Windows “Hardware Wizard” and disconnect the unit. You must install the driver before connecting this unit. Insert the CD-ROM included with the product. The menu for installing the driver appears automatically.
- Select Install Driver, and follow the instructions shown on the screen. If you have downloaded the driver from the TASCAM website (<http://tascam.com/>), expand the ZIP archive, launch the setup.exe file, and follow the instructions on the screen.
- Q:** I loaded the installation CD-ROM into a Windows computer, but the driver installation menu does not appear. How can I access this menu?
- A:** The automatic playback settings for the disc drive might be disabled.

3 – Installation

Open the supplied driver CD-ROM using Windows Explorer, and double-click the Autorun2.exe file to manually open the installation menu.

Follow the procedures in “Installing the driver and control panel for Windows” on page 13 to install the driver.

Improving computer performance

In this manual, we will offer only the following basic tip to improve performance when using this unit.

Do not run other applications.

Processing digital audio places a considerable load on your computer. You probably use the computer for applications other than audio, but we recommend that you avoid running them when using audio programs. This means that if you are running other applications (especially ones that are graphics-intensive or that use Internet tools) at the same time as an audio application, processing may not be able to keep up the audio data.

Cubase LE 5 installation

See the included Cubase LE 5 Quick Start Guide for details.

4 – US-200 control panel settings

Overview

The Control Panel lets you make various settings for the US-200's functionality.

On Windows, the US-200 Control Panel shortcut can be found in the Windows Start menu > Control Panel or the Start menu > All Programs > TASCAM.

On Mac OS X, the US-200 Control Panel is located in the Applications folder. Other useful audio and MIDI settings for Mac OS X can be found in Applications/Utilities/Audio MIDI Setup.



The Control Panel is divided into the following two sections.

Status section

This shows the current status of the driver and the connected hardware.

You cannot edit the settings from this section.

Setting section

You can edit the various settings of the driver.

Control panel menus and settings

Audio Performance

The US-200 driver temporarily stores input and output audio sample in buffers. The size of these buffers can be adjusted. A smaller buffer size will reduce the delay when monitoring the audio signal, but will require your computer to perform the processing faster. If the processing does not occur in time (e.g., if other system operations are occurring), you may hear clicks, pops, or dropouts in the audio signal. A larger buffer size provides more safety against such problems caused by other system activities, but will produce greater delay when monitoring the audio signal. You should select the buffer size that works best for your system.

On the Windows version of the US-200 Control Panel, the Audio Performance setting permits you to adjust the buffer size that will be used by all audio applications. The lowest latency setting is the minimum buffer size, and the highest latency setting is the maximum buffer size.

On Mac OS X, the buffer size is determined by each audio application. Consequently, there is no Audio Performance setting on the Mac OS X version of the US-200 Control Panel. Some applications select the buffer size automatically while others permit the user to select the buffer size. Please consult your audio application's documentation for details.

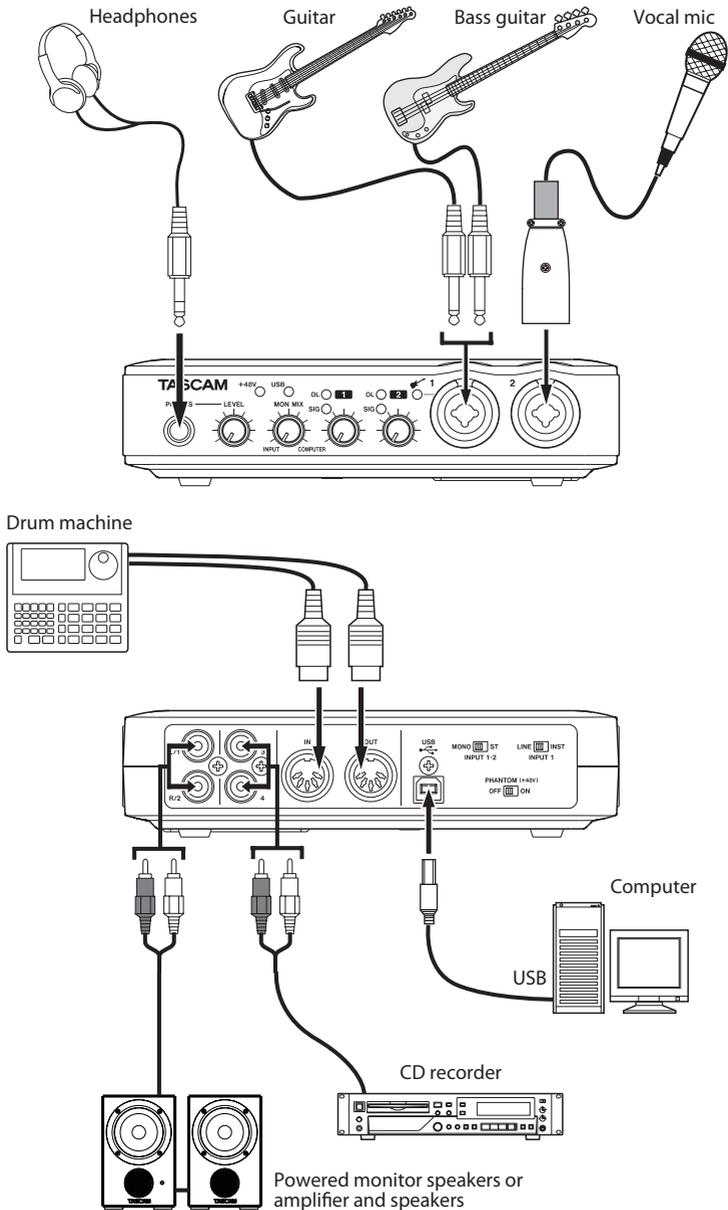
4 – US-200 control panel settings

LINE OUTPUTS 1/2 and LINE OUTPUTS 3/4

The computer can send 4 signal channels by USB to this unit. Use this setting to select which signals are output from the unit's **LINE OUT 1/2** and **LINE OUT 3/4** jacks. You can select ch1+2 or ch3+4 for each output pair.

By using this setting, even with applications that only output two channels, including Windows Media Player and iTunes, you can output the application sound from both the **LINE OUT 1/2** jacks and **LINE OUT 3/4** jacks of this unit.

5 – Connections



Example of using US-200 connections

5 – Connections

USB connections

Use the included USB cable to connect the US-200 to your computer as shown in the illustration.

NOTE

- Set the **PHANTOM (+48V)** switch to **OFF** when connecting the USB cable to this unit.
- Some USB devices access the USB bus frequently. To avoid dropouts and clicks in the audio signal, we strongly recommend that you do not connect any USB devices other than keyboards and mice to the USB bus used by this unit.
- The USB indicator might stay lit even after the connected computer is shut down. This occurs with some computers that continue to supply power over connected USB cables even when they are shut down.

Audio connections

Connect the output signal of your mic, guitar, keyboard, or other audio device to the US-200, where it will be converted into digital audio and sent via USB to your computer. Connect the output of the US-200 to your speakers (via an amp) or headphones, so you will be able to monitor the audio signals coming into the US-200 or being produced by your computer.

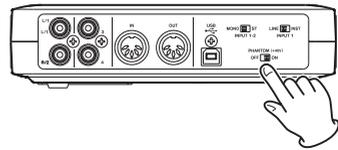
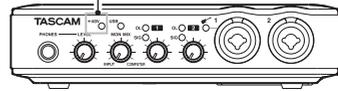
The balance between the input signal from the mic and guitar and the output signal from the computer should be adjusted by the **MON MIX** knob.

Microphones

Connect microphones to the **MIC/LINE/INST IN 1** and **MIC/LINE IN 2 XLR** connectors on the front panel. When using a condenser microphone that requires phantom power,

set the **PHANTOM (+48V)** switch on the rear panel to **ON**. When the **PHANTOM (+48V)** switch is set to **ON**, the **+48V** indicator on the front panel lights.

+48V (PHANTOM) indicator



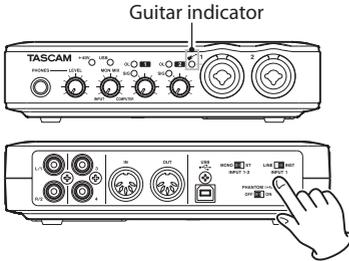
CAUTION

- Connecting a dynamic microphone with an unbalanced connection to the unit when the **PHANTOM (+48V)** switch is **ON** could damage this unit and make it unusable.
- Do not connect or disconnect a mic with an input when this switch is **ON**. Loud noises might be produced and damage could be caused to equipment.
- Before changing the setting of the **PHANTOM (+48V)** switch to **ON** or **OFF**, turn the **LEVEL** knob to its minimum level. Depending on the microphone connected, a loud noise could occur, which might damage equipment or harm hearing.
- Set the **PHANTOM (+48V)** switch to **OFF** before turning this unit's power on or off (connecting or disconnecting the USB cable).
- Do not use phantom power when line level equipment is connected to an XLR connector. It might damage equipment.

Guitars

Connect a guitar or bass guitar to the **MIC/LINE/INST IN 1** standard TRS jack on the front panel, and set the **INST/LINE** switch on the rear panel to **INST**.

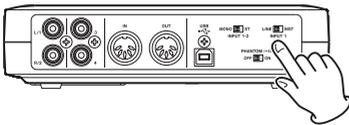
When the **INST/LINE** switch is set to **INST**, the  indicator on the front panel lights.



Connecting keyboards, drum machines, sound modules, cassette/MD/CD players and other analog line level devices

Connect analog signal outputs from these types of devices to the **MIC/LINE/INST IN 1** and **MIC/LINE IN 2** standard TRS jacks on the front panel.

When using the **MIC/LINE/INST IN 1** jack with these types of devices, set the **INST/LINE** switch on the rear panel to **LINE**.



Analog record player

The output of an analog record player cannot be connected directly to the US-200. You must connect a phono amp between your analog record player and the US-200. (Alternatively, you can connect it via an audio amp that has **PHONO** inputs.)

Line input devices, including MD/CD recorders and effect boxes

Connect the **LINE OUT 3/4** jacks to the analog line inputs of compatible devices.

Monitor speakers

Connect monitor speakers (powered monitor speakers or an amplifier and speakers) to the **LINE OUT 1/2** jacks on the rear panel.

Headphones

Connect headphones to the standard stereo **PHONES** jacks on the front panel.

Connecting MIDI devices

Connect your sound module, keyboard/synthesizer, drum machine, or other MIDI device to the US-200 as shown below.

If you want to monitor the sound of a sound module, keyboard/synthesizer or drum machine, connect the output of that device to this unit's **LINE IN**. Alternatively, to monitor using an external mixer, connect the outputs of that device and the **LINE OUT** jacks of this unit to the external mixer inputs.

You can use the **MIDI IN/MIDI OUT** connectors on the rear panel to transmit and receive MTC (MIDI Time Code). This allows the MTC-compatible DAW (Digital Audio Workstation) computer application to synchronize with your MIDI equipment.

NOTE

When using Windows Media Player, if the MIDI music playback output destination (default device) is set to Microsoft GS Wavetable SW Synth in the Sounds and Audio Devices part of the Control Panel, you cannot listen to MIDI performances through this unit's **LINE OUT 1/2/3/4** and **PHONES** output.

6 – Application Guide

In this chapter, we explain how to set some audio applications for use with this unit.

Cubase LE 5

For details see the included Cubase LE 5 Quick Start Guide.

Windows XP and Windows Media Player

- 1 **Close all applications and then open the Control Panel from the Start menu.**
- 2 **Open** Sounds and Audio Devices.

NOTE

If you do not see the above item, click Sounds, Speech, and Audio Devices and it should appear.



Sounds and Audio Devices

- 3 **Click the Audio tab, and set the Default device: for Sound playback to TASCAM US-200.**



- 4 **Click** OK.

- 5 **Start Windows Media Player, select an audio file and begin playback.**

NOTE

- If you change this setting while Windows Media Player is running, the software will not recognize that the device has been changed. In this case, restart Windows Media Player.
- If you still cannot hear sound after making the setting and completing the procedures above, restart the computer.
- After making this setting, sound will be output through this unit, but no sound will be output by the computer's speakers or headphone jacks.

Windows Vista or Windows 7 and Windows Media Player

- 1 **Close all applications and then open the Control Panel from the Start menu.**
- 2 **Open** Sound.

NOTE

If the above item does not appear, click Hardware and Sound and it should appear.



Sound

- 3 **Click the Playback tab, click** Speakers TASCAM US-200 **and click the** Set Default button. **This moves the green check mark to** Speakers TASCAM US-200.

6 – Application Guide

Mac OS X and iTunes

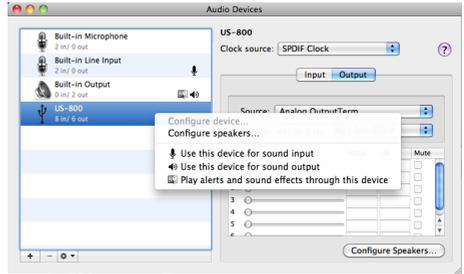
- 1 **Double-click** Audio MIDI Setup, which is in the Utilities folder inside the Application folder.
- 2 **Open the Audio Devices window. Select US-200 and control-click it to open a pop-up menu. Click Use this device for sound output. The speaker mark will move to the US-200 item.**



- 4 **Click OK.**
- 5 **Start Windows Media Player, select an audio file and begin playback.**

NOTE

- If you change this setting while Windows Media Player is running, the software will not recognize that the device has been changed. In this case, restart Windows Media Player.
- If you still cannot hear sound after making the setting and completing the procedures above, restart the computer.
- After making this setting, sound will be output through this unit, but no sound will be output by the computer's speakers or headphone jacks.



- 3 **Start iTunes, select an audio file and start playback.**

7 – MIDI implementation chart

Function		Transmitted	Received	Remarks
Basic Channel	At power ON Changed	X	X	Through
		X	X	
Mode	At power ON Messages Altered	X	X	Through
		X	X	

Note Number	Range	X	X	Through

Velocity	Note ON Note OFF	X	X	Through
		X	X	
After Touch	Polyphonic Channel	X	X	Through
		X	X	
Pitch Bender		X	X	Through
Control Change		X	X	Through
Program Change	Range #	X	X	Through

System Exclusive		X	X	Through
System Common	Song Pos Song Sel Tune	X	X	Through
		X	X	
		X	X	
System Real Time	Clock Commands	X	X	Through
		X	X	
Other	Local on/off All note off Active sensing Reset	X	X	Through
		X	X	
		X	X	
		X	X	
Notes				

Mode 1: Omni on, Poly
Mode 3: Omni off, Poly

Mode 2: Omni on, Mono
Mode 4: Omni off, Mono

O: Yes
X: No

8 – 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 with the following information about the operating environment and details about the trouble.

Operating environment

- Computer manufacturer
- Model
- CPU
- Installed memory
- OS
- Applications used
- Antivirus software use
- Wireless LAN use

Please see the back of this manual for contact information.

■ Installation fails. Installation completes, but the computer does not recognize the unit.

If some trouble is causing installation to fail, or installation completes but the computer does not recognize the unit, check the following.

- 1) USB indicator lit
Is the USB indicator on the front panel of the unit lit? If the USB indicator is not lit, confirm that the USB cable is properly connected.

NOTE

Always use the included USB cable.

- 2) Change the USB port
Since the unit might not function properly with some USB ports, try connecting to a different built-in USB port on the computer, and reinstall the driver (when using Windows).

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 built-in USB port on the computer.
- 3) Stop other software running in the background
Since antivirus software and other software that runs in the background can interfere with installation, stop other software before beginning installation. See “3 – Installation” on page 12 of this manual for how to install and uninstall the driver.

■ There is no sound even when audio is playing back.

The audio output must be set on the computer.

Please confirm the following while the unit is connected to the computer.

Note that after making the following settings, sound will be output through the unit, but no sound will be output by the computer's speakers or headphone jacks.

Windows XP

- 1 **Shut down all applications, and open the Control Panel from the Start Menu.**
- 2 **Open Sounds and Audio Devices.**

NOTE

If do not see the above item, click Sounds, Speech, and Audio Devices and it should appear.

- 3 **Click the Audio tab, and set the Default device: for Sound playback and Sound recording to TASCAM US-200.**

8 – Troubleshooting

Windows Vista and Windows 7

- 1 **Shut down all applications, and open the Control Panel from the Start menu.**
- 2 **Open Sound.**

NOTE

If the above item does not appear, click Hardware and Sound and it should appear.

- 3 **Click the Playback tab, right-click Speakers US-200 and click the Set Default button.**

Mac OS X

- 1 **Shut down all applications and open System Preferences from the Apple menu.**
- 2 **Open Sound.**
- 3 **From the Output tab, select US-200 output.**

After completing the settings, restart the computer and check the playback sound.

Depending on the application you are using, other device settings might also be necessary in addition to those above.

In particular, since DAW (Digital Audio Workstation) software operates using audio engines that are different from OS settings, confirm the DAW driver settings first after installing the driver for this unit. Check the manuals for the software that you are using for details about how to make these settings.

For the bundled Cubase LE 5 software, see the manual on the included Cubase LE 5 DVD-ROM.

■ The sound breaks up or there is noise.

The processing load on the computer can cause sound to break up and noise to occur. Some ways to reduce the load on a computer are introduced below.

- 1) If a wireless LAN, antivirus software or other software are running in the background, they regularly use the

computer's CPU, and this burden can cause sound to break up and noise to occur.

Stop wireless LAN transmission, antivirus software and other software running in the background when using this unit.

- 2) Try increasing the buffer size (latency) setting in the audio application that you are using and/or in the control panel for this unit.

NOTE

Consult the maker of your audio application for methods to reduce its burden on your computer.

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

Windows XP

- 1 **Right-click My Computer and select Properties.**
- 2 **Click the Advanced tab.**
- 3 **Click Settings in the Performance section.**
- 4 **On the Performance Option screen, select the Adjust for Best Performance option.**

Windows Vista

a) Turn Aero off.

- 1 **Right-click the desktop and select Personalize.**
- 2 **Choose Window Color and Appearance and then click Open classic appearance properties for more options.**
- 3 **Select Windows Vista Basic or any option other than Windows Aero.**

b) Performance settings

- 1 **Right-click Computer and select Properties.**
- 2 **Click Advanced system settings.**
- 3 **Click the Advanced tab.**
- 4 **Click Settings in the Performance section.**

- 5 **On the Performance Option screen, select the Adjust for Best Performance option.**

Windows 7

a) Turn Aero off.

- 1 **Right-click the desktop and select Personalize.**
- 2 **Set the theme to any of the Basic and High Contrast Themes.**

b) Performance settings

- 1 **Right-click Computer and select Properties.**
- 2 **Click Advanced System Settings.**
- 3 **Click the Advanced tab.**
- 4 **Click Settings in the Performance section.**
- 5 **On the Performance Options screen, select Adjust for Best Performance option on the Visual Effects tab.**

Mac OS X

- 1 **Open System Preferences from the Apple menu and select Energy Saver.**
- 2 **Click the Sleep tab.**
- 3 **Set Put the computer to sleep when it is inactive for: to Never.**
- 4 **Set Put the display(s) to sleep when the computer is inactive for: to Never.**
- 5 **Click the Options tab. If a Processor performance setting is available, set it to Highest.**

NOTE

Depending on the Mac OS version and model these settings might not be available.

■ Questions related to Cubase LE 5

Since Cubase LE 5 is a product provided by Steinberg Media Technologies GmbH, it is not supported by TASCAM.

Please use the Cubase LE 5 Help menu for information about how to use this software.

9 – Specifications

AD/DA audio converter

Sampling frequency

44.1/48/88.2/96 kHz

Quantization bit rate

24-bit

Analog audio inputs

Microphone inputs (MIC IN 1-2)

Balanced

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

Input impedance: 2.2 k Ω

Nominal input level: -14 dBu (0.15 Vrms)

Minimum input level: -57 dBu (0.001 Vrms)

Maximum input level: +2 dBu (0.98 Vrms)

Line inputs (LINE IN 1-2)

Balanced

Connectors:

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

Input impedance: 15 k Ω

Nominal input level: +4 dBu (1.23 Vrms)

Minimum input level: -39 dBu (0.008 Vrms)

Maximum input level: +20 dBu (7.75 Vrms)

Instrument input (INST IN 1)

Unbalanced

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

Input impedance: 1 M Ω

Nominal input level: -13 dBV (0.22 Vrms)

Minimum input level: -56 dBV (0.001 Vrms)

Maximum input level: +3 dBV (1.41 Vrms)

Analog audio outputs

Line outputs (LINE OUT 1-4)

Unbalanced

Connectors: RCA pin jacks

Output impedance: 200 Ω

Nominal output level: -10 dBV (0.316 Vrms)

Maximum output level: +6 dBV (2 Vrms)

Headphones outputs (PHONES)

Connectors:

6.3-mm (1/4") stereo phone jack

Maximum output: 18 mW + 18 mW (1 kHz, 0.1%, 32 Ω)

Control I/O

MIDI input (MIDI IN)

Connector: 5-PIN DIN

Format: standard MIDI format

MIDI output (MIDI OUT)

Connector: 5-PIN DIN

Format: standard MIDI format

USB (USB)

Connector: 4-pin USB type B

Format: USB 2.0 HIGH SPEED (480 MHz)

Audio performance

Frequency response

20 Hz-20 kHz +0.5/-1.0 dB (44.1/48 kHz, JEITA)

20 Hz-40 kHz +0.5/-1.5 dB (88.2/96 kHz, JEITA)

Signal-to-noise ratio

98 dB or higher (LINE IN to LINE OUT with Gain knobs at minimum, 44.1 kHz, JEITA)

Total harmonic distortion

0.0045% or less (LINE IN to LINE OUT with Gain knobs at minimum, JEITA)

Computer requirements

For information about the latest OS compatibility, please check the TASCAM web site (<http://tascam.com/>).

Windows

Supported Operating system

Windows XP 32 bit SP3 or later
Windows XP 64 bit SP2 or later
Windows Vista 32 bit SP2 or later
Windows Vista 64 bit SP2 or later
Windows 7 32 bit
Windows 7 64 bit

Supported computer system

Windows compatible computer with a USB 2.0 port

CPU/clock:

Pentium 4, 1 GHz or faster
AMD Athlon, 1 GHz or faster
(or equivalent processor)

Memory:

1 GB or more

Supported protocol:

ASIO 2, WDM (MME)

Macintosh

Supported operating system:

Mac OS X 10.5.8 or later
Mac OS X 10.6.3 or later

Supported computer system:

Apple Macintosh series equipped with a USB port as standard equipment

CPU/clock:

Intel processor, or PPC G4 1 GHz or faster
Memory:

1 GB or more

Supported protocol:

CoreAudio, CoreMIDI

General

Power

Supplied via USB (5V, maximum current 500 mA)

Power consumption

2.0 W

External dimensions (W x H x D)

172 x 41 x 151 mm/6.772 x 1.614 x 5.945 in.
(without projections)

172 x 44 x 164.3 mm/6.772 x 1.732 x 6.469 in.
(with projections)

Weight

480 g/16.93 oz.

Operating temperature range

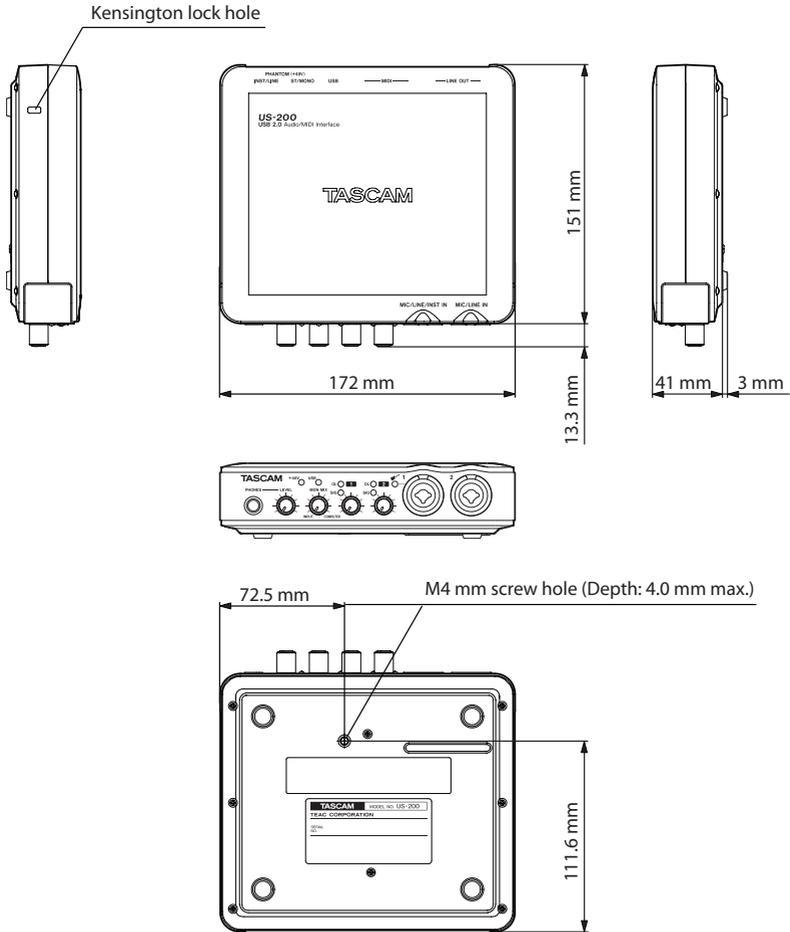
5-35° C/41-95°F

Bundled software

Cubase LE 5 (for Windows or Mac OS X)

9 – Specifications

Dimensional drawing



- Illustrations in this manual may differ in part from the actual product.
- Specifications and the external appearance may be changed without notification to improve the product.

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US-200

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