

**USB-AUDIO INTERFACE**

**UW10**

English

Deutsch

Français

**Owner's Manual  
Bedienungsanleitung  
Mode d'emploi**

# SPECIAL MESSAGE SECTION

This product utilizes an external power supply (adapter). DO NOT connect this product to any power supply or adapter other than one described in the manual, on the name plate, or specifically recommended by Yamaha.

**WARNING:** Do not place this product in a position where anyone could walk on, trip over, or roll anything over power or connecting cords of any kind. The use of an extension cord is not recommended! If you must use an extension cord, the minimum wire size for a 25' cord (or less) is 18 AWG. NOTE: The smaller the AWG number, the larger the current handling capacity. For longer extension cords, consult a local electrician.

This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by Yamaha. If a cart, etc., is used, please observe all safety markings and instructions that accompany the accessory product.

## SPECIFICATIONS SUBJECT TO CHANGE:

The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units.

Do not attempt to service this product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. DO NOT operate for long periods of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist. IMPORTANT: The louder the sound, the shorter the time period before damage occurs.

Some Yamaha products may have benches and/or accessory mounting fixtures that are either supplied with the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that benches are stable and any optional fixtures (where applicable) are well secured BEFORE using. Benches supplied by Yamaha are designed for seating only. No other uses are recommended.

## NOTICE:

Service charges incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

## ENVIRONMENTAL ISSUES:

Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

## Disposal Notice:

Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc. If your dealer is unable to assist you, please contact Yamaha directly.

## NAME PLATE LOCATION:

The name plate is located on the bottom of the product. The model number, serial number, power requirements, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.

Model

---

Serial No.

---

Purchase Date

---

# PLEASE KEEP THIS MANUAL

# PRECAUTIONS

## PLEASE READ CAREFULLY BEFORE PROCEEDING

\* Please keep this manual in a safe place for future reference.



### WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

#### Cables

- Check the USB connector periodically and remove any dirt or dust which may have accumulated on it.
- Do not place the cable near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cable, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.

#### Do not open

- Do not open the instrument or attempt to disassemble the internal parts or modify them in any way. The instrument contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.



### CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the instrument or other property. These precautions include, but are not limited to, the following:

#### Location

- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not use the instrument in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the instrument, TV, or radio may generate noise.
- Do not place the instrument in an unstable position where it might accidentally fall over.
- Before moving the instrument, remove all connected cables.

#### Connections

- Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum. Also, be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.

#### Water warning

- Do not expose the instrument to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.
- Never insert or remove cables with wet hands.

#### Fire warning

- Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire.

#### If you notice any abnormality

- If the USB cable becomes frayed or damaged, or if there is a sudden loss of sound during use of the instrument, or if any unusual smells or smoke should appear to be caused by it, immediately disconnect the USB connector, and have the instrument inspected by qualified Yamaha service personnel.

#### Maintenance

- When cleaning the instrument, use a soft, dry cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

#### Handling caution

- Do not insert a finger or hand in any gaps on the instrument.
- Never insert or drop paper, metallic, or other objects into the gaps on the panel. If this happens, disconnect the USB cable. Then have the instrument inspected by qualified Yamaha service personnel.
- Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.

- Do not operate the instrument for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument, or data that is lost or destroyed.

# Welcome to the UW10


Thank you for choosing the Yamaha UW10 USB-Audio Interface. The UW10 is a USB interface that enables simultaneous transfer of audio data. Connect the UW10 to a computer that has a USB connector and enjoy the powerful features of digital audio.

Please read this Owner's Manual thoroughly to make the best use of the UW10. After you read this manual, please keep it in a safe place for future reference.

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The screen displays and illustrations in this Owner's Manual are for instructional purposes, and may appear somewhat different from the screens that appear on your computer or in the specifications for your unit.

- Before installing the software, be sure to read the software license agreement included at the end of this document. Opening the CD-ROM package indicates your consent to the license agreement.
- The company names and product names in this Owner's Manual are the trademarks or registered trademarks of their respective companies.
- OMS<sup>®</sup> and  are trademarks of Opcode Systems, Inc.
- MPEG Layer-3 audio compression technology licensed by Fraunhofer IIS and THOMSON Multimedia.
- "SoftSynthesizer" is a trademark of Yamaha Corporation.

# UW10 Features

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## ● Digital and analog interface

The UW10 functions as an interface that enables you to digitally record MDs and cassette tapes to a computer, or create music using an audio/MIDI sequencer and MIDI tone generators (MOTIF-RACK etc.). The analog inputs on the UW10 convert incoming analog signals into digital. This prevents audio deterioration due to computer noise and enables you to perform clean, clear sound recordings.

## ● Easy Hot Swap Connection

You can connect and disconnect a USB cable while the power to the computer is turned on. The power is provided through the USB bus power supply. For this reason, the UW10 does not require a power adapter.

## ● Versatile software programs

An included software program, called TWEplus Wave Editor, enables you to record via the UW10 and edit various wave files (MP3, WAV, AIFF). Another program, the S-YXG50 SoftSynthesizer, enables you to play MIDI data on the computer, record it, then convert it into a wave file in TWEplus, with the UW10 set in Track Down mode.

## ● Supports Windows

The UW10 supports Windows 98/Me/2000/XP.

## Notes on USB

Do not connect or disconnect a USB cable under any of the following circumstances. Otherwise, the computer may lock up or the UW10 functions may be disabled:

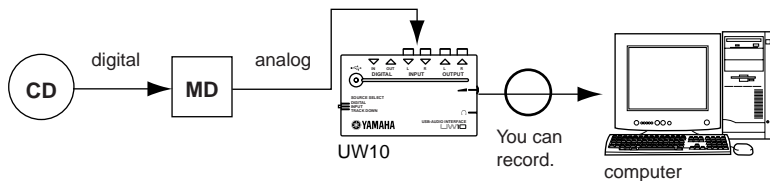
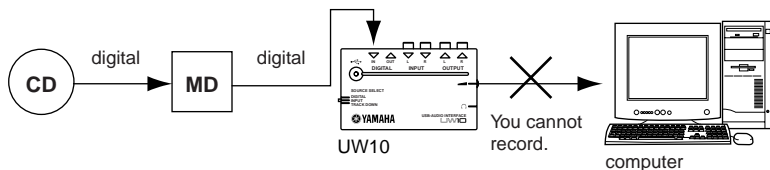
- The computer is checking the device or loading the driver.
- The computer is starting or quitting the OS.
- The computer is in Save Energy (Sleep) mode or is canceling the mode.
- An audio/MIDI application is active.

In addition, do not perform any of the following operations. Otherwise, the computer may lock up or the UW10 functions may be disabled:

- Frequently connecting and disconnecting the cables
- Placing the computer in Save Energy (Sleep) mode or cancelling the mode during audio data transfer
- Connecting or disconnecting the cables, restarting or shutting down the computer, or installing or uninstalling the driver while a large amount of data is being transferred

## Notes on musical copyrights

The UW10 supports SCMS (Serial Copy Management System) to protect copyrights associated with music software. When you copy data from CDs, or other music media purchased from stores, to your own media (such as MDs) using a digital connection, information regarding the digital recording generation is also recorded. If you route the recorded data to a DIGITAL IN jack, you will be unable to record the data on a computer. In this case, use the UW10's analog inputs (INPUT jacks) to record data on the computer.



It is prohibited to use copyrighted songs and sound data (that can be recorded via the UW10) for commercial purposes. It is also prohibited to reproduce, transfer, or distribute the data, or play the data for a commercial audience without permission from the owners of the copyright, except for personal use or applications that do not infringe the copyright. If you wish to use such data for occasions other than personal use, consult a copyright expert. Yamaha is not responsible for any data created, reproduced, or edited using the UW10, nor for any reproduction or use of such data.

# Package Contents

The UW10 package contains the following items. Check the contents for missing items.

- UW10 main unit
- CD-ROM
- USB cable (approx. 2 meters)
- Owner's Manual (this book)

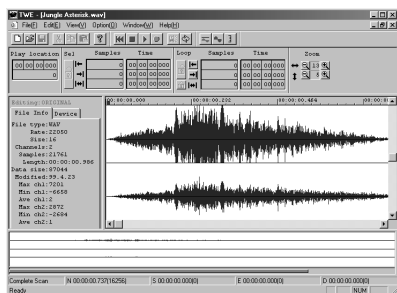
## About the included software

The included CD-ROM contains the following software programs. The "English" folder on the included CD-ROM contains the following software programs.

**NOTE** Each program's operating environment may be different from the UW10's operating environment (page 10). For more information, refer to the software on-line manuals.

### TWEplus Wave Editor

TWEplus Wave Editor enables you to record, play, and edit Wave files. It supports various file formats, such as MP3, WAV, and AIFF, and can convert these file formats from one into another. Double-click "Setup.exe" in the "TWEplus\_" folder to start the installer. Follow the instruction on screen to install the software. After you finish the installation, start the application by selecting from the "Start" menu [Programs | YAMAHA TWEplus | Wave Editor TWEplus]. For more information on using the software, refer to the on-line manual.



### SoftSynthesizer (S-YXG50)

The S-YXG50 is XG tone generator software that produces voices using the computer's CPU power. By installing SoftSynthesizer, you can enjoy high tonal quality from MIDI data without connecting an external MIDI tone generator. To start the installer, double-click "Setup.exe" in the "Syxg50\_" folder. Install SoftSynthesizer following the instructions on screen.



For more information on using the software, after you finish the installation, refer to the “S-YXG50 Help” file by selecting from the “Start” menu [Programs | YAMAHA SoftSynthesizer S-YXG50 | S-YXG50 Help].

**(NOTE) Windows 2000/XP Users:**

If you hear sound skips from the S-YXG50 on the Windows 2000/XP platform, you may be able to resolve the problem by following the steps below:

1. From the “Start” menu, select [Programs | YAMAHA XG SoftSynthesizer S-YXG50 | S-YXG50 Settings] to display the “Settings” window.
2. Click the “Information” tab. If the window indicates “Ver.4.01.xx Legacy” (xx is a version number) for the S-YXG50 version, proceed to Step 3.
3. Log on to Windows as Administrator, then open the “Syxg50\_” folder on the included CD-ROM.
4. Right-click “Turbo.inf” or “Normal.inf” in the folder to display the pop-up menu, then select “Install” from the menu.  
Normal.inf: The sound might skip occasionally, but most sound cards will output sound.  
Turbo.inf: The sound will not skip, but some sound cards may not output sound.
5. Restart the computer.

## XGplayer

You can use XGplayer to play MIDI data, which you can output via SoftSynthesizer, then record it as a wave file in TWEplus with the UW10 in Track Down mode.

This application is automatically installed when you install the S-YXG50 SoftSynthesizer. To start XGplayer after you finish the installation from the “Start” menu, select [Programs | YAMAHA SoftSynthesizer S-YXG50 | XGplayer].



## Acrobat Reader

The Acrobat Reader allows you to view an electronic version of the Owner’s Manual saved in PDF format.

To start the installer, open the “English” folder in the “Acroread\_” folder, then double-click “ar500enu.exe.” Install the software according to the instructions on screen.

## MidRadio Player

MidRadio Player receives and plays MIDI and Sound VQ data, sort of like a radio channel. You can listen to pieces of music continuously by connecting to the Internet and selecting your favorite channel. You can also purchase song data on the Internet.

To install MidRadio Player, double-click “mr4221E.exe” in the “Midradio\_” folder to start the installer, then follow the instruction on screen.

## ASIO driver

This driver software is required if you wish to use applications that support ASIO. Refer to the "ReadMe.html" in "English" folder in the "ASIOdrv\_" folder for information on how to install the driver.

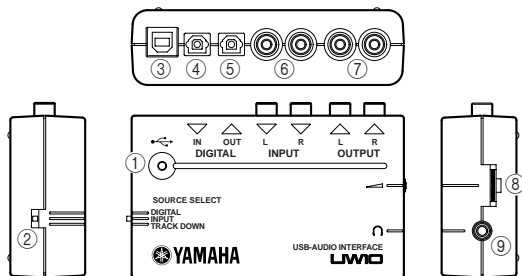
**(NOTE)** TWEplus does not support ASIO.

## System Requirements

Computer:	IBM PC/AT or compatible computer that features a USB connector
CPU:	Intel® Pentium® or Celeron® processor with 500MHz or faster (Windows XP: Intel® Pentium® or Celeron® processor, 750MHz or faster)
Memory:	64MB or more (128MB or more recommended)
Available hard disk space:	10MB or more (excluding the space required for Acrobat Reader and MidRadio Player)
Operating System:	Windows 98/98SE/2000/Me/XP

**(NOTE)** Some operating systems may require a superior environment than that specified above.

## Parts and Functions



### ① Power LED

The LED lights up when the USB connector is connected and the power is being supplied from the computer to the unit.

### ② SOURCE SELECT switch

Use this switch to select the INPUT jacks or the DIGITAL IN jack. If you select "TRACK DOWN," an audio signal input from the computer to the UW10 is returned to the computer unmodified (page 15).

In this case, the INPUT and DIGITAL IN jacks are disabled.

**⚠ CAUTION**

With some application programs, input audio signals may be output unmodified. In this case, do not set the SOURCE SELECT switch to "TRACK DOWN." Otherwise, audio signals may oscillate, causing hearing loss or damage to the playback device.

**③ USB connector**

Connect this connector to a computer's USB connector using a USB cable.

You do not have to turn off the power to the computer when you connect this connector.

**④ DIGITAL IN jack**

A digital signal is input here from an MD or CD player via an optical digital cable (with square plugs). Set the SOURCE SELECT switch on the side panel to "DIGITAL."

**⑤ DIGITAL OUT jack**

This jack is used to record a digital signal from the computer to a digital recorder, such as an MD recorder. Use an optical digital cable (with square plugs) to make the connection.

**(NOTE)** Signals input at INPUT and DIGITAL IN cannot be routed directly to the DIGITAL OUT jack.

**⑥ INPUT L/R jacks**

Connect an audio device, such as a CD player, here using RCA pin cables. You can record an audio signal input here to a computer. Set the SOURCE SELECT switch on the side panel to "INPUT."

**⑦ OUTPUT L/R jacks**

These jacks are used to connect powered speakers or a recording device, such as a tape recorder. Use RCA pin-plug cables for the L and R connections.

**⑧ Volume Dial**

The Volume Dial adjusts the level of signals output from the headphone jack and OUTPUT jacks. Use the Volume Dial to adjust the output level.

**⑨ Headphone jack**

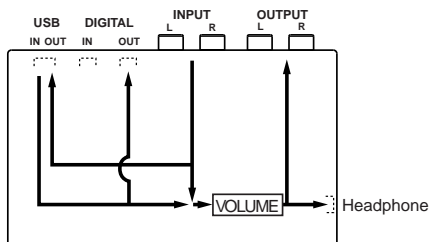
Connect a headphone stereo mini-plug here. Use the Volume Dial to adjust the headphone volume.

## Signal Flow

Depending on the SOURCE SELECT switch setting, the audio signal flow varies as follows:

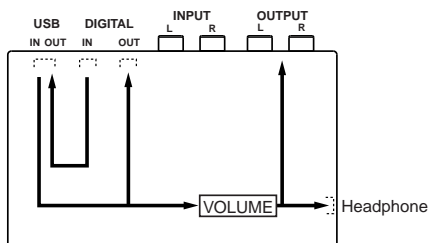
### When the switch is set to "INPUT":

Audio signals input at the INPUT jacks can be recorded to a computer via the USB connection.



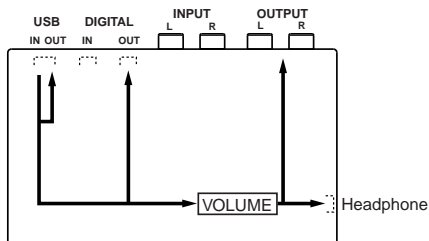
### When the switch is set to "DIGITAL":

Audio signals input at the DIGITAL IN jack can be recorded to a computer via the USB connection.



### When the switch is set to "TRACK DOWN":

Audio signals played on the computer can be returned via the USB connection to the computer for recording (page 15).



# Connections

Combining the UW10 with other devices allows for versatile applications as follows:

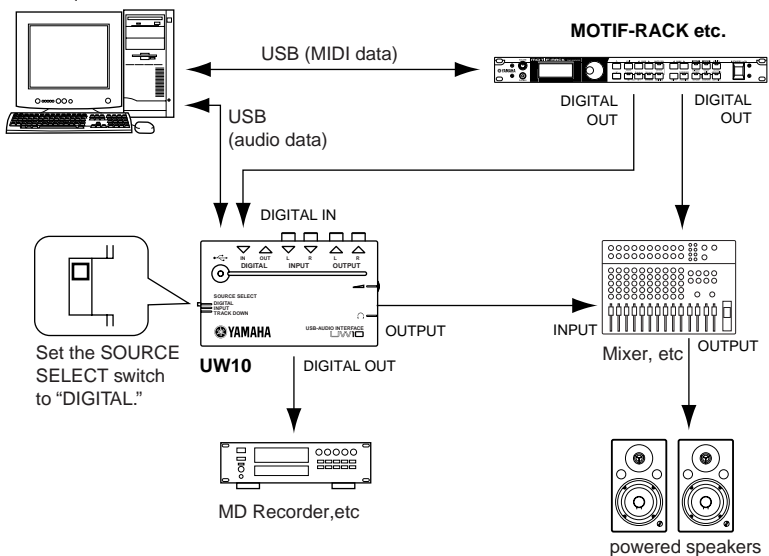
## ● High-quality music production system using digital connections

Using the UW10 along with a tone generator, such as MOTIF-RACK, enables high-quality recording.

Connect the UW10, the MOTIF-RACK and a computer using USB cables. Connect the MOTIF-RACK to the UW10's DIGITAL IN jack, and set the UW10's SOURCE SELECT switch to "DIGITAL."

Since the signal is sent from the UW10 or MOTIF-RACK to a mixer via an analog connection, you will be monitoring an analog signal through powered speakers or headphones. On the other hand, the signal is recorded via a digital connection from the UW10's DIGITAL OUT jack to a connected MD recorder. This configuration enables you to make high-quality digital recordings.

### PC + Sequence Software

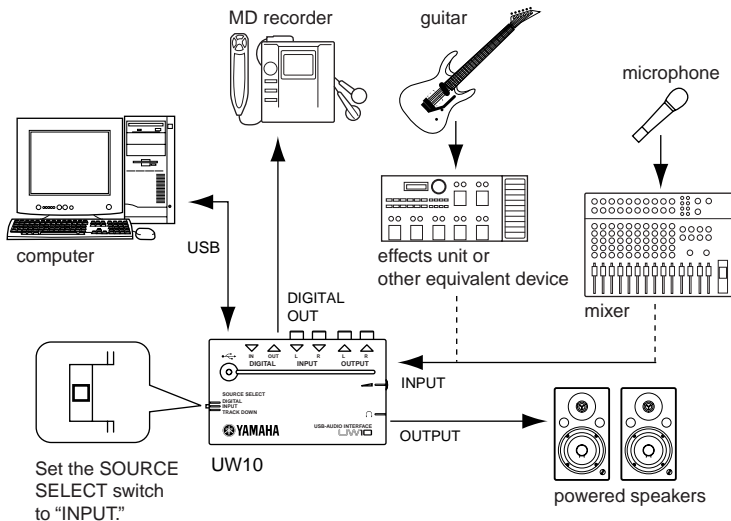


**NOTE** When you are using the connections illustrated above, set the Echo Back setting of your sequence software to "Off." Refer to the Owner's Manual for the sequence software for detailed information on setting the Echo Back parameter.

## ● Music production system using a guitar or microphone via analog connections

Analog audio signals input from a guitar or microphone are converted to digital for recording.

Patch the analog input from the guitar or microphone to the UW10's INPUT jacks via an effects unit or other equivalent device. In this case, set the UW10's SOURCE SELECT switch to "INPUT," and connect powered speakers or headphones to the UW10.



## ● Connecting audio devices

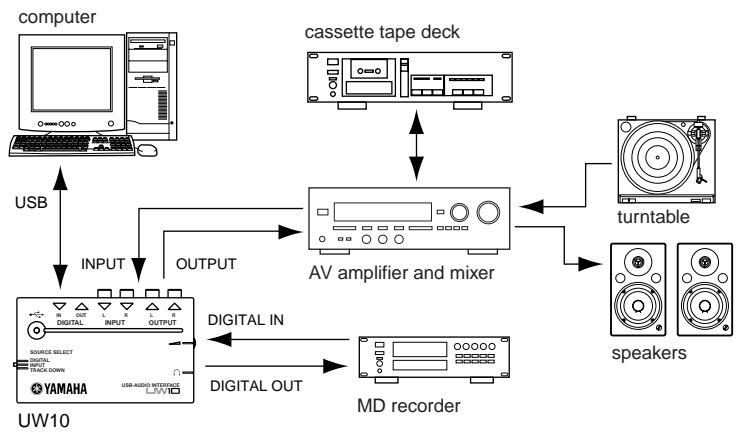
Digital or analog input from an audio device can be converted to wave files on a computer. You can also edit the wave files on the computer, then record them to an audio device.

Patch a digital signal from an MD player to the UW10's DIGITAL IN jack. Patch an analog signal from a cassette tape player or turntable to the UW10's INPUT jacks. Set the UW10's SOURCE SELECT switch to "DIGITAL" or "INPUT" depending on the jacks you are using. Connect an AV amplifier and mixer as necessary.

**(NOTE)** If you cannot adjust the output level of the audio device, some high volume sound sources may distort your recordings, or low volume sound sources may create recordings that are not inaudible. In this case, adjust the sound source level using the following measures:

- Connect the PHONE jack of the audio device to the UW10, then adjust the PHONE level on the audio device.
- Connect a mixer or other device that enables you to adjust the volume level between the audio device and the UW10.

If you try to record from a digital audio device (such as an MD or CD player) that has an optical digital output, use an optional optical digital cable (with square plugs) to connect the UW10. In this case, you do not have to adjust the level, since the recording level will be the same as the sound source level.

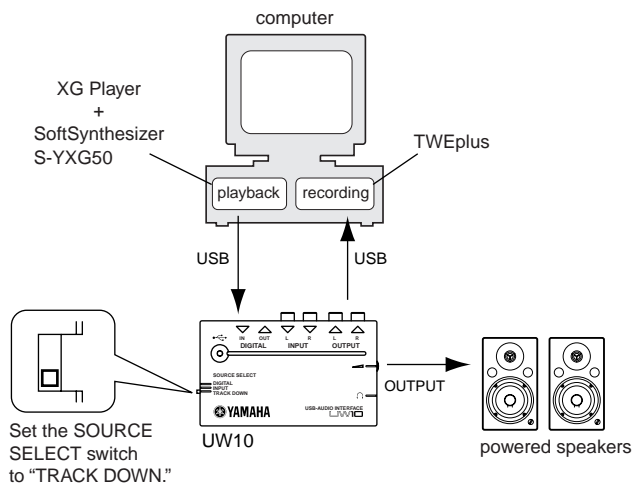


## ● Track down on the computer

You can track down multiple wave files or SoftSynthesizer audio signals into a single wave file, which can then be converted to an MP3 file using the included TWEplus wave editor.

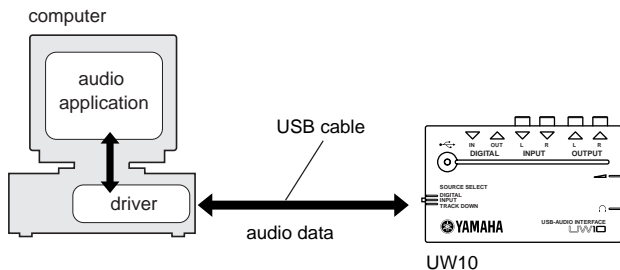
Connect the computer and the UW10, and set the UW10's SOURCE SELECT switch to "TRACK DOWN." While playing MIDI or audio data on the computer, record it using an audio editing application, such as TWEplus, to track down the data.

**(NOTE)** If you want to track down an external MIDI tone generator's sound along with the data on the computer, you will first need to convert the playback data into wave files.



# Installing the driver

Before you can use the UW10, you need to install the driver on the computer. The USB audio driver enables you to transfer audio signals between an audio application on the computer and the UW10 via a USB cable.



**NOTE** The UW10 does not work with a USB hub that is powered by the USB bus power supply.

## Installing the driver

Follow the instructions below to install the USB audio driver included in the Windows system, and set up Windows as needed.

- NOTE** Close all applications and windows on the computer, and disconnect the computer from the network and the Internet.
- NOTE** Disconnect all devices that are connected to the UW10's jacks, except for the USB connector.
- NOTE** Disconnect all USB devices, except for the UW10, from the computer. Connect the UW10 directly to the computer's USB connector, not via a USB hub.
- NOTE** Check the drive name (D:, E:, Q:, etc.) of your CD-ROM drive, which is listed below the CD-ROM icon in My Computer.
- NOTE** If the driver for another USB audio device has already been installed, you can use that driver for the UW10.
- NOTE** You need the ASIO driver software to use applications that support ASIO. Refer to the "ReadMe.html" file located in the "English" folder in the "ASIOdrv\_" folder for information on installing the driver software.

Windows 98/98SE users→page 17

Windows Me users→page 20

Windows 2000/XP users→page 20



## ● Installing the driver on a Windows 98/98SE system

1. Start the computer.
2. Use the included USB cable to connect the UW10 to the computer's USB connector. The UW10 is powered on and the system automatically displays the "Add New Hardware Wizard."



3. Click [Next].  
The system displays a screen that enables you to select a search method.



4. Check the radio button to the left of “Search for the best driver for your device. (Recommended).” Click [Next].

The system displays a screen that enables you to select a location in which to install the driver.



5. Uncheck all items, then click [Next].

6. When the system detects the driver and is ready for installation, it displays the following screen.

Make sure that the “USB Composite Device” is listed, then click [Next]. The system starts the installation.

**(NOTE)** The system may ask you to insert a Windows CD-ROM while it checks for the driver. Insert the Windows CD-ROM in the CD-ROM drive, specify the root folder of the CD-ROM drive (such as D:\Win98) and continue the installation. Drive and root folder names vary depending on the computer.



7. When the installation is complete, the following screen appears. Click [Finish].

**NOTE** Some computers may take about ten seconds to display this screen after installation is complete.



8. After a few seconds, the "Add New Hardware Wizard" is displayed again. Install "USB Audio Device" in the same manner as steps 3-7 described above.



The driver has been installed.

## ● Installing the driver on a Windows 2000/XP system

1. Start the computer.
2. Use the included USB cable to connect the UW10 to the computer's USB connector.  
The system displays the message "Found New Hardware" and automatically detects and installs the driver.

The window closes and the driver is installed.

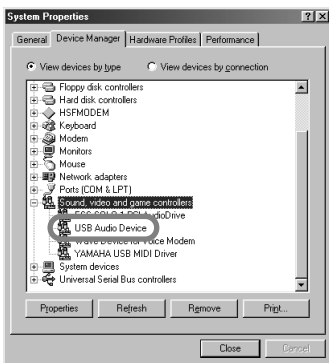
## ● Installing the driver on a Windows Me system

1. Start the computer.
2. Use the included USB cable to connect the UW10 to the computer's USB connector.  
The UW10 is powered on and the system automatically displays the "Add New Hardware Wizard."
3. Check the radio button to the left of "Automatic search for a better driver (Recommended)." Click [Next].
4. When the system finishes detecting and installing the driver, it displays the following message: "Windows has finished installing the new hardware device." Click [Finish].

The driver has been installed.

## ● Verifying the installation

You can verify whether the driver has been installed correctly by following the steps below:



1. Double-click [My Computer | Control Panel | System].

**(NOTE)** If the System folder does not appear in the Control Panel on the Windows Me system, click "view all Control Panel options."

**(NOTE)** For Windows XP users: Click "Switch to Classic View" to change the Control Panel to Classic View mode.

2. Click the “Device Manager” tab. “USB Audio Device” should be listed under “Sound, Video and Game Controllers.”

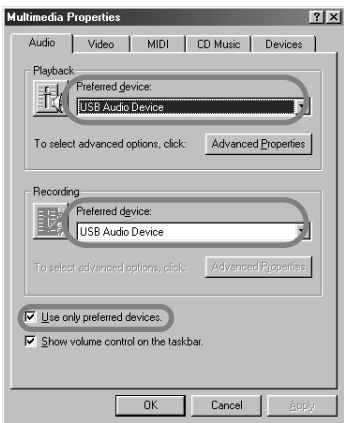
**(NOTE)** On a Windows 2000/XP system, click the “Hardware” tab, then click the “Device Manager” tab.

## ● Specifying the output destination of audio signals

This section explains how to set up Windows to use the UW10. For information on setting up your sequence software, refer to the owner’s manual for the corresponding software.

### Setup for audio playback and recording

Windows 98



Windows Me



1. Double-click [My Computer | Control Panel | (Sounds and) Multimedia].
2. Click the “Audio” tab.
3. Click the “Preferred device” box and select “USB Audio Device” in “Playback” and “Recording” respectively.

**(NOTE)** “USB Audio Device (1)” may appear, depending on the computer. If two or more USB audio devices are connected, the corresponding number appears in parentheses.

4. Click the “Use only preferred devices” checkbox.
5. On the Windows Me system, click the “Audio” tab and select “USB Audio Device” in “Sound Playback” and “Sound Recording” respectively.

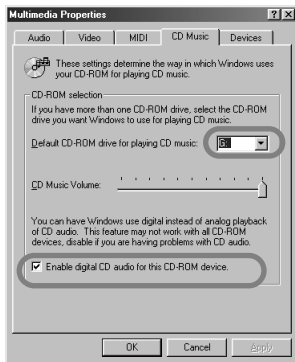
**(NOTE)** If you are using a voice recognition system or Internet Phone with another audio device, you may need to set the output destination to suit the environment. For more information, refer to the documentation for the audio device.

6. Click [OK].

## Setup for music CDs

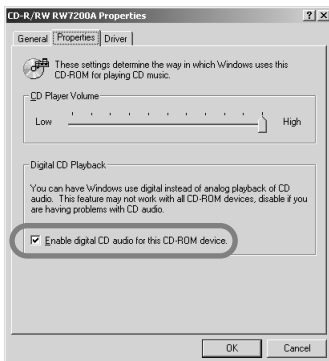
Follow the steps below to play a music CD in the computer's CD-ROM drive and output the sound digitally from the UW10.

Setup on a Windows 98 system



1. Double-click [My Computer | Control Panel | Multimedia].
2. Click the "CD Music" tab.
3. Make sure that the CD-ROM drive (e.g., "D:") is selected correctly.
4. Check the "Enable digital CD audio for this CD-ROM device" checkbox and click [OK].

Setup on a Windows Me/2000/XP system



1. Double-click [My Computer | Control Panel | System].
2. Select “Device Manager,” “CD-ROM” (the listed item with a “+” mark), then the CD-ROM drive name, then click “Properties.”  
 (NOTE) On a Windows 2000/XP system, click the “Hardware” tab, then click “Device Manager.”
3. Click the “Properties” tab.
4. Check the “Enable digital CD audio for this CD-ROM device” checkbox and click [OK].

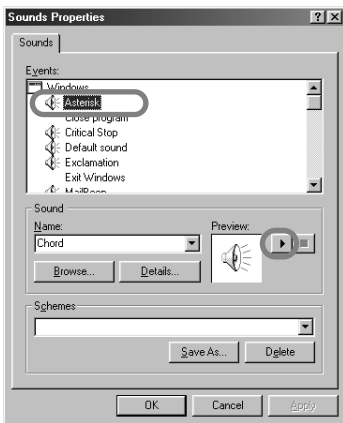
### Setup for Volume Control

1. From the “Start” menu, select [Programs | Accessories | Entertainment | Volume Control] to open the “Volume Control” window.
2. Move the slider to adjust the volume level.

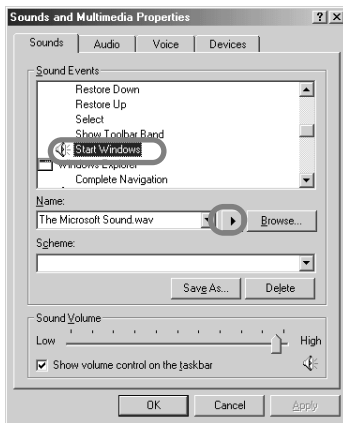
## ● Checking wave file playback

Follow the steps below to check to see whether you can hear a wave file play back from the UW10.

Windows 98



Windows Me



1. Select [My Computer | Control Panel | (Sounds and Multimedia) | Sounds].
2. Select an item with a speaker icon, then click the Play button to make sure that the playback sound is output from the headphones or speakers connected to the UW10.

## Setting up the included software

Before using the included software with the UW10, follow the procedure below to set up the application.

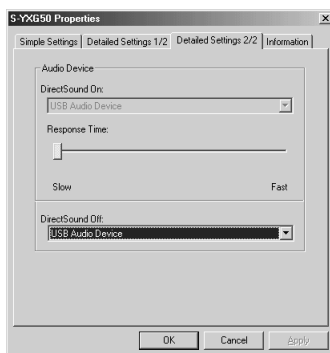
- **TWEplus Wave Editor**

From the menu bar, select [Options], then [Windows Sound Device Configuration], and set as shown below:



- **S-YXG50 SoftSynthesizer and XGplayer**

From the “Start” menu, select [Programs | YAMAHA SoftSynthesizer S-YXG50 | SYXG50], then set parameters as shown below:





## Sampling frequencies available for different OS and input jacks

Sampling frequencies available for recording in TWEplus vary depending on the operating system and the type of input jacks.

OS	SOURCE SELECT switch setting (Inputs being used)	Sampling frequency in the software				
		11.025 kHz	22.05 kHz	32 kHz	44.1 kHz	48 kHz
Windows98	DIGITAL	X	X	O	O	O
	INPUT	X	X	O	O	O
Windows98SE/Me/2000/XP	DIGITAL	X	X	O	O	O
	INPUT	O	O	O	O	O

## Sampling frequencies supported for playback on different operating systems

When you play data in TWEplus or using the S-YXG50, the frequency of the signals output from the DIGITAL OUT jack varies depending on the computer's operating system, as follows:

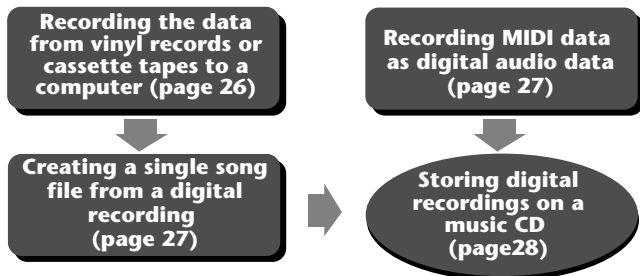
Make sure that the audio recording device (such as an MD recorder) connected to the DIGITAL OUT jack supports these sampling frequencies.

**(NOTE)** The data output from the analog OUTPUT jacks will play correctly using any of the sampling frequencies listed in the table.

OS	Sampling frequencies for software playback				
	11.025kHz	22.05kHz	32kHz	44.1kHz	48kHz
Windows98	44.1kHz	44.1kHz	32kHz	44.1kHz	48kHz
Windows98SE/Me/2000/XP	48kHz	48kHz	32kHz	44.1kHz	48kHz

# Using the UW10

## ● Work Flow



**(NOTE)** Make sure that the hard disk has enough free space. If there is insufficient space, you may be unable to record successfully.

## Recording the data from vinyl records or cassette tapes to a computer

### 1 Setting up the UW10

- 1-1 Connect the UW10 to a computer.
- 1-2 Use an audio cable to connect the UW10's INPUT jacks to the output jacks of the AV device that plays the recording source.

**(NOTE)** The output jacks on the AV device could be AUX OUT jacks, external output jacks, or a headphone jack. If you connect it to the headphone jack, you can raise the recording level.

- 1-3 Set the UW10's SOURCE SELECT switch to "INPUT."

### 2 Starting TWEplus

- 2-1 Start TWEplus on the computer.  
The "Browse for Folder" window opens.
- 2-2 Select a recording destination folder on the hard disk, then click [OK].

**(NOTE)** You can usually select the default folder.


### 3 Setting up a new file

- 3-1 From the [File] menu, select [New...].  
The "New" window opens.
- 3-2 Select a file format.  
Generally, select "WAVE 44100Hz 16bit stereo" for music CDs. This is the default setting.
- 3-3 Specify a "In Time" value for the "Length" parameter.  
Specify the duration that is slightly longer than that of one side of the vinyl record or cassette tape you wish to record. For example, if the recording source is a 60-minute cassette tape, specify something like "32 min 0 sec 0 msec."

3-4 Click the [New] button. The “New” window closes.

## 4 Digital recording

4-1 From the [Options] menu, select [Windows Sound Device Configuration...], then select “YAMAHA UW10” or “USB Audio Device” for “Input” and “Output”.

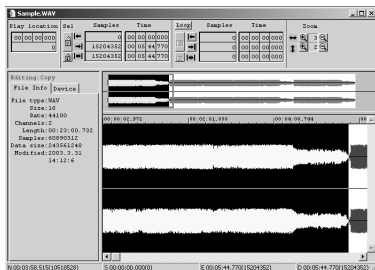
4-2 Click the Record button  in TWEplus, then immediately start playing the vinyl or cassette tape.

4-3 When the playback of one side finishes, click the Stop button  in TWEplus.

**(NOTE)** If the recording level is low, record the output from the AV device’s headphone jack, or raise the recorded level using the Normalize function.

## Creating a single song file from a digital recording

1 *Select a single song from the waveform of the recorded data by using the arrow tool.*



2 *From the [Edit] menu, select [Selection to New].*

The selected region opens as a new single file.

3 *From the [File] menu, select [Save As...] to save the song to a specified location on the hard disk.*

A single song is stored as a file in the computer.

Repeat this procedure to create more song files.

## Recording MIDI data as digital audio data

1 *Setting up the UW10*

1-1 Connect the UW10 to the computer.

1-2 Set the UW10’s SOURCE SELECT switch to “TRACK DOWN.”

## 2 Starting the S-YXG50 SoftSynthesizer

### 2-1 Start the S-YXG50 SoftSynthesizer

**NOTE** To start the S-YXG50 SoftSynthesizer, from the “Start” menu select [Programs | YAMAHA XG SoftSynthesizer S-YXG50 | XGPlayer].

2-2 Click the [Set] in XGPlayer.

2-3 Select “YAMAHA SXG Driver,” then click [OK].

2-4 Click the Song Select button in the XG Player’s Player window to select MIDI data that you wish to add to the play list and convert to audio data.

**NOTE** Play the selected MIDI data to make sure that the UW10 outputs the sound correctly.

## 3 Starting TWEplus

3-1 Start TWEplus on the computer.

The “Browse for Folder” window opens.

3-2 Select a recording destination folder on the hard disk, then click [OK].

**NOTE** You can usually select the default folder.

## 4 Setting up a new file

4-1 From the [File] menu, select [New...].

The “New” window opens.

4-2 Select a file format.

Generally, select “WAVE 44100Hz 16bit stereo” for music CDs. This is the default setting.


4-3 Specify a “In Time” value for the “Length” parameter.


Specify the duration that is slightly longer than that of the selected MIDI data. For example, if the data consists of three five-minute songs, specify something like “16 min 0 sec 0 msec.”

4-4 Click the [New] button. The “New” window closes.

## 5 Digital recording

5-1 From the [Options] menu, select [Windows Sound Device Configuration...], then select “YAMAHA UW10” or “USB Audio Device” for “Input” and “Output”.

5-2 Click the Record button  in TWEplus, then immediately activate the XGPlayer window and click the Play button.

5-3 When the playback in XGPlayer finishes, click the Stop button  in TWEplus.

## Storing digital recordings on a music CD

### 1 Start your CD writer software.

### 2 Save each song file on a music CD.

For more information on storing data on a music CD, refer to the documentation for your CD writer software.

# Specifications

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<b>Audio Capability:</b>	One stereo-line recording One stereo-line playback
<b>Sampling Frequencies</b>	Input: 32 kHz, 44.1 kHz, 48 kHz Output: 32 kHz, 44.1 kHz, 48 kHz
<b>Jacks and connectors:</b>	Digital in jack (optical) Digital out jack (optical) Line in jacks (RCA pin, L/R) Line out jacks (RCA pin, L/R) USB connector Headphone jack (stereo mini)
<b>Power Supply:</b>	USB bus power supply
<b>Dimensions:</b>	111(W) × 65(D) × 31(H) [mm]
<b>Weight:</b>	95g
<b>Option:</b>	Optical digital cable (with optical plugs)

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## Troubleshooting (FAQ)

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### ● The driver cannot be installed.

- **Is the USB cable connected correctly?**
  - Check the USB cable connection. (page 13)
  - Disconnect the USB cable, then re-connect it.
- **Is the USB function enabled on your computer?**
  - When you connect the UW10 to the computer for the first time, if the "Add New Hardware Wizard" (page 16) does not appear, the USB function on the computer may be disabled. Perform the following steps.
    1. Select [Control Panel | System | (Hardware) | Device Manager].
    2. Make sure that "Universal Serial Bus Controller" and "USB Route Hub" are not marked with "!" or "x." If one of these items is marked with "!" or "x," you cannot use USB connections. For more information, refer to the documentation that came with your computer.

- **Is any device recognized as an unknown device?**
  - If driver installation fails, the UW10 will be recognized as an “Unknown device,” and you will not be able to install the driver. Delete the “Unknown device” by following the steps below.
    1. Select [Control Panel | System | (Hardware) | Device Manager].
    2. Check the “View devices by type” radio button (for Windows Me users), or select “Devices by type” from the “View” menu (for Windows 2000/XP), then check whether there are any “Other devices.”
    3. If an “Other devices” is listed, double-click it. If there is “Unknown device” listed below it, select the “Unknown device”, then click the [Delete] button.
    4. Remove the USB cable from the UW10, then re-connect it.
    5. Try to install the driver again.
- **Are you using a USB hub?**
  - If the UW10 is connected to a USB hub that is powered by the USB bus power supply, the UW10 will not operate.
  - Connect the UW10 directly to the computer, then try to install the driver again. If the computer has multiple USB connectors, try to connect the UW10 to another USB connector.
- **Is another USB device connected to the computer?**
  - The driver may not be installed correctly if another USB device is active. Disconnect your printer, scanner, or other USB device, then try to install the driver again.
  - If the driver for another USB audio device has already been installed, you can use that driver for the UW10.

## ● **The UW10 does not operate correctly, or no sound is heard.**

- **Did you install the driver? (page 16)**
- **Are the USB cable, MIDI cables, and audio cables connected correctly? (page 13)**
- **Is the volume setting of the tone generator, playback device, and application program set to the appropriate level?**
- **Have you selected an appropriate device for your audio application?**
- **Is the sampling frequency set correctly?**
  - Refer to the table on page 25.
- **Are there wave files for which the sampling frequency and bit resolution settings vary?**
  - Some audio applications may not simultaneously play wave files with different sampling frequencies and bit resolutions.
- **(You cannot play a music CD)**
  - Check the “Enable digital CD audio for this CD-ROM device” checkbox (page 22).

- (You do not hear any sound digitally input from a connected MD or CD player.)
  - Is the SOURCE SELECT switch set correctly? (page 13.)
  - Is the input signal copyright protected? (page 7.)

## ● The sound is interrupted or distorted.

- Does your computer satisfy the system requirements? (page 10)
- Is any other application or device driver running?
  - Quit all unnecessary application programs.
- Are you playing multiple wave files?
  - Depending on the computer's performance, playing multiple wave files may cause skipping sound or interrupted playback.
- Have you tried to record or play several minutes of audio data?
  - The processing performance of some computers may decline depending on various factors, such as the processing speed of audio data, access to an external storage device, etc. You may be able to improve the performance by changing the settings as follows:
    - Select [Control Panel | (Sounds and) Multimedia | Audio | Detailed Properties].
    - Set "Hardware accelerator" to Maximum.
    - Set "Quality of sampling rate conversion" to Standard.
    - Select [Control Panel | System | (Hardware) | Device Manager | Disk Drive (or Hard Disk Controller)].
    - Select high-speed mode (e.g., DMA mode On).
    - Upgrade to a higher-speed driver.

**(NOTE)** For more information on upgrading the driver, visit the web site of the hard disk manufacturer.

Select [Control Panel | System | (Details) | Performance].

**(NOTE)** Yamaha recommends that only users with advanced knowledge about computers change this setting.

Make sure that the file system is correctly set. If the computer has enough free memory space (more than 128MB) and the size of the wave file to be recorded or played back is not large, you may be able to improve the performance by changing the setting for the virtual memory. Some computers may need updated device drivers (such as a hard disk controller) or BIOS. For more information, contact the customer support department or visit the home page of the computer manufacturer.

● **Cannot place the computer in Save Energy (Sleep) mode (or cancel the mode).**

- Is the computer placed in Sleep mode while the audio application is operating?
- Some computers do not feature Sleep mode. In this case, disconnect the USB cable, then connect it again.

● **The recorded level is very low.**

- Is the volume level of the computer low?  
→ Set the computer's "Volume Control" to maximum. (page 23.)
- To raise the recording level, record the output from the headphone jack of an AV device that plays the recording source, and raise the output level as needed. Alternatively, use the Normalize function after recording.



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Le présent contrat de licence est régi par le droit japonais, à la lumière duquel il doit être interprété.

## FCC INFORMATION (U.S.A.)

### 1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

### 2. IMPORTANT:

When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

### 3. NOTE:

This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation

of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

\* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

(class B)

## CANADA

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

(class B)

- This applies only to products distributed by Yamaha Canada Music Ltd.
- Ceci ne s'applique qu'aux produits distribués par Yamaha Canada Musique Ltée.

For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below.  
Pour plus de détails sur les produits, veuillez-vous adresser à Yamaha ou au distributeur le plus proche de vous figurant dans la liste suivante.

Die Einzelheiten zu Produkten sind bei Ihrer unten aufgeführten Niederlassung und bei Yamaha Vertriebshändlern in den jeweiligen Bestimmungsländern erhältlich.  
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**Yamaha Canada Music Ltd.**  
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Tel: 416-298-1311

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Tel: 686-00-33

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