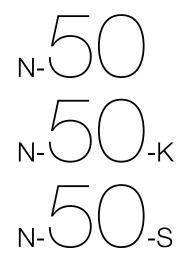


Operating Instructions



Driver software for USB D/A Converter Functionality

About these Operating Instructions

The N-50 is equipped with a USB D/A converter function that allows you to play high-quality music files stored on your computer, or the use of a media streaming service to play music files from the internet. Files can be played merely by connecting the N-50 to your computer by means of a USB cable, but in order to use the D/A converter function, a dedicated driver must be installed on your computer.

These operating instructions provide a wide range of information regarding use of the USB D/A converter function, from instructions on how to install the driver software on your computer, to help with troubleshooting issues.

Computer Environment

To utilize this driver, your computer must be equipped with a USB port supporting USB Rev2.0 HS. Use of the USB D/A converter function has been confirmed with the following operating systems.

- Microsoft[®] Windows[®] XP (32 bit)
- Microsoft[®] Windows[®] Vista (32 bit/64 bit)
- Microsoft[®] Windows[®] 7 (32 bit/64 bit)
- Mac OSX 10.6 10.7

🖉 Note

- Operation has been confirmed with the following media player software: for Windows OS, Windows Media Player 11/12. For the MAC OS, iTunes 10.4.
- In order to play music files on your computer using a Digital In USB port, it is recommended that you close all programs other than the media player software.
- Supported sampling rates / bits rates may differ depending on your computer's OS and the version of media player software used.

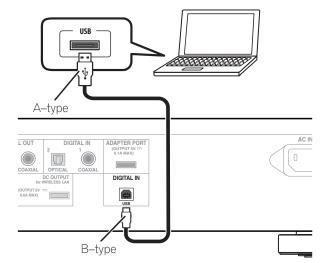
 $\label{eq:marks} Microsoft^{\circledast}, Windows^{\circledast} \mbox{ Vista, and Windows^{\circledast} \mbox{ XP are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.}$

Installing the driver software

Download and use the compressed installation program (Setup.exe) to install the driver on your computer. The compressed installation program file will be saved in the folder you designate at the time of download.

🖉 Note

- It is unnecessary to install the driver when using Mac OS X.
- 1 Use the USB cable to connect the N-50 to your computer. Turn on the power to the N-50.

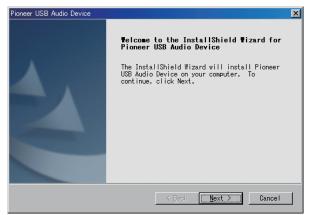


2 Extract the compressed file contents to the desired folder, then click on the "Setup.exe" installer program in the folder.

The InstallShield wizard will appear.

Pioneer USB Audio Device - InstallShield Wizard				
ئ	Pioneer USB Audio Device Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.			
	Cancel			

3 Click on [Next].



4 Click on [Install].

Pioneer USB Audio Device
Ready to Install the Program The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
<u> </u>

The following screen will appear; wait until the step 5 instructions appear.

Pioneer USB Audio Device	
Setup Status	A SA
The InstallShield Wizard is installing Pione	er USB Audio Device
Installing	
	Cancel

5 Click on [Finish].

Pioneer USB Audio Device	
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Pioneer USB Audio Device. Before you can use the program, you must restart your computer. (* Yes, I want to restart my computer now. (* No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
	K Back Finish Cancel

The driver installation is completed.

6 Reboot your computer to finalize installation of the driver.

Procedure finished.

To uninstall the driver

- 1 Click on the [Start] button at lower left of your monitor screen, then click on ([Settings] →) [Control Panel].
- 2 From the Control Panel menu, click on [Add or Remove Programs].
- **3** Select [Pioneer USB Audio Device] and click [Remove]. The uninstaller dialog will appear.
- 4 **Click [Next] to execute the uninstall process.** The driver software will be uninstalled.
- 5 Reboot your computer.

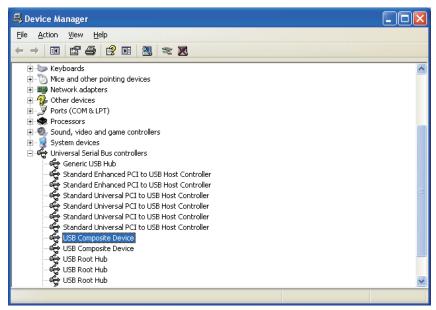
Troubleshooting (Windows XP)

When using Windows Vista, see page 6; for Windows 7, see page 10; for Mac OS X, see page 14.

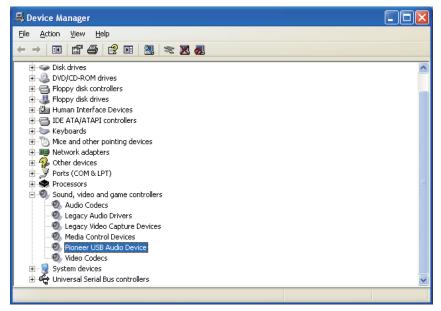
1. No sound

In the event the N-50's power is set to Standby, or the source input is set to something other than **Digital In USB**, do not start your computer's media player software. Change the input to **Digital In USB** before starting your computer's media player.

- 1 Click on [Start] → ([Settings] →) [Control Panel] → [System].
- 2 Click on the [Hardware] tab then click on [Device Manager].
- 3 Click on [Universal Serial Bus controllers] and confirm that [USB Composite Device] is listed.



4 Click on [Sound, video and game controllers] and confirm that [Pioneer USB Audio Device] is listed.



If the above devices are not listed as described, confirm that the N-50's input source is set to **Digital In USB**, then either disconnect and reconnect the USB cable, or set the power to Standby then turn it On again.

- 5 Click on [Start] → ([Settings] →) [Control Panel] → [Sound, Speech, and Audio Devices] → [Sounds and Audio Devices].
- 6 Open the sound and audio Properties.

Procedure continues.

7 Click on the [Audio] tab, then confirm that [Pioneer USB Audio Device] is listed as the [Default device] for [Sound playback].

 \rightarrow If another device has been selected, open the drop-down menu and select [Pioneer USB Audio Device], then click on [Apply] to change the selection.

Sounds and Audio Devices Properties 🛛 🔹 🕐 🔀					
Volume	Sounds Audio Voice Hardward	e			
- Sound p	playback				
Ø,	<u>D</u> efault device:				
9	Pioneer USB Audio Device	~			
	Adva <u>n</u> ced				
Sound	recording	51			
2	D <u>e</u> fault device:				
18	No Recording Devices	~			
	Volume Advanced				
MIDI m	usic playback	51			
	De <u>f</u> ault device:				
<u></u>	Microsoft GS Wavetable SW Synth	~			
	Volume About				
Use of	Use only default devices				
	OK Cancel Apply				

- 8 To enable the new setting, reboot your computer.
- 9 Confirm that your media player's sound volume is set to Maximum.

In the event your media player requires an output plugin setting, confirm that [Pioneer USB Audio Device] is selected.

Procedure finished.

2. To disable the operating system's sound scheme

Under default OS settings, computer events may be accompanied by audio signals and beeps that are audible through the speakers attached to the N-50. In the event you do not wish to hear such non-music signals, follow the instructions listed below:

- 1 Click [Start] \rightarrow [Control Panel] \rightarrow [Sounds and Audio Devices].
- 2 Click on the [Sounds] tab, and for the [Sound scheme], select [No Sounds], then click on [Apply].

Sounds and	Audio Dev	ices Prope	rties	?	\mathbf{X}	
Volume	Sounds	Audio	Voice	Hardware		
				ts in Windows Ir save one you		
Sound s <u>c</u> h	eme:					
No Sound	s			*		
		S	av <u>e</u> As	<u>D</u> elete		
then select sound sche	To change sounds, click a program event in the following list and then select a sound to apply. You can save the changes as a new sound scheme. Program events:					
Windows Image: Constraint of the second						
Sounds: (None) Browse						
		OK	Cancel			

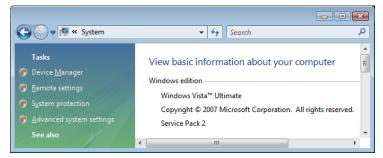
Troubleshooting (Windows Vista)

When using Windows XP, see page 4; for Windows 7, see page 10; for Mac OS X, see page 14.

1. No sound

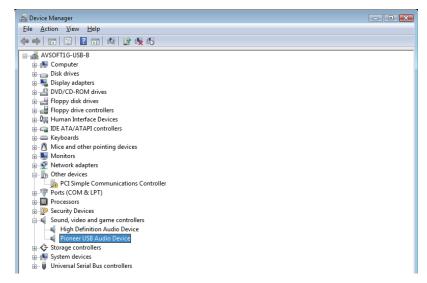
In the event the N-50's power is set to Standby, or the source input is set to something other than **Digital In USB**, do not start your computer's media player software. Change the input to **Digital In USB** before starting your computer's media player.

- 1 Click on [Start] → [Control Panel] → [System and Maintenance] → [System].
- 2 From the [Tasks] list, click on [Device Manager].



Procedure continues.

3 Click on [Sound, video and game controllers] and confirm that [Pioneer USB Audio Device] is listed.



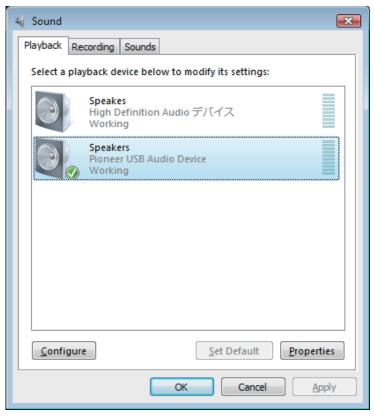
4 Click on [Universal Serial Bus controllers] and confirm that [USB Composite Device] is listed.

🚔 Device Manager	- • •
<u>Eile Action View Help</u>	
🖶 🖳 Monitors	*
🛪 💇 Network adapters	
🗄 🖳 🌆 Other devices	
Ports (COM & LPT)	
Processors	
a - 😥 Security Devices	
😥 📲 Sound, video and game controllers	
E 🔄 😌 Storage controllers	
🕀 🚛 System devices	
🖃 📮 Universal Serial Bus controllers	
— 💗 Generic USB Hub	
Intel(R) ICH8 Family USB Universal Host Controller - 2830	
Intel(R) ICH8 Family USB Universal Host Controller - 2831	
 Intel(R) ICH8 Family USB Universal Host Controller - 2834 Intel(R) ICH8 Family USB Universal Host Controller - 2835 	
Intel(R) ICH8 Family USB2 Enhanced Host Controller - 2836	
Intel(R) ICH8 Family USB2 Enhanced Host Controller - 2836 Intel(R) ICH8 Family USB2 Enhanced Host Controller - 283A	E
USB Composite Device	-
USB Composite Device	
USB Root Hub	

If the above devices are not listed as described, confirm that the N-50's input source is set to **Digital In USB**, then either disconnect and reconnect the USB cable, or set the power to Standby then turn it On again.

- 5 Click on [Start] \rightarrow [Control Panel] \rightarrow [Hardware and Sound] \rightarrow [Sound].
- 6 Under the [Playback] tab, confirm that for [Speakers], [Pioneer USB Audio Device] is checked as the default device.

 \rightarrow If another device has been selected, select [Pioneer USB Audio Device], and click to [Set Default].



7 Double click on [Speakers] ([Pioneer USB Audio Device]), and display its Properties.

Procedure continues.

8 Under the [Levels] tab, set the [Speakers] level to maximum.

If the Speaker Mute indicator (at the left side of the Balance button) is lighted, click it to turn it off.

🕘 Speakers Prope	rties	×
General Levels	Advanced	
	100 (I) Balance	
	OK Cancel	Apply

9 Confirm that your media player's sound volume is set to Maximum.

In the event your media player requires an output plugin setting, confirm that [Pioneer USB Audio Device] is selected.

2. To disable the operating system's sound scheme

Under default OS settings, computer events may be accompanied by audio signals and beeps that are audible through the speakers attached to the N-50. In the event you do not wish to hear such non-music signals, follow the instructions listed below:

- 1 Click [Start] \rightarrow [Control Panel] \rightarrow [Hardware and Sound] \rightarrow [Sound].
- 2 Click on the [Sounds] tab, and for the [Sound scheme], select [No Sounds], then click on [Apply].

🖌 Sound 💽				
Playback Recording Sounds				
A sound theme is a set of sounds applied to events in Windows and programs. You can select an existing scheme or save one you have modified.				
Sound Scheme:				
No Sounds ▼ Save As Delete				
To change sounds, click a program event in the following list and then select a sound to apply. You can save the changes as a new sound scheme.				
Program				
Windows				
Asterisk				
Close program				
Critical Battery Alarm				
Critical Stop				
Default Beep				
Play Windows Startup sound				
Sounds:				
(None) Test Browse				
OK Cancel Apply				

Procedure finished.

3. To set the sampling frequency for audio data output from your computer

By synchronizing the sampling frequency of playback files with the transmission sampling rate, sound can be transmitted without the need for frequency conversion.

When a high sampling frequency is set on a computer with inadequate processing capacity, audio playback may be disrupted. In this event, the bit rate and frequency should be set to low values such as 2-channel, 24-bit, 44100 Hz.

- 1 Click on [Start] \rightarrow [Control Panel] \rightarrow [Hardware and Sound] \rightarrow [Sound].
- 2 Under the [Playback tab], for [Speakers], double click on [Pioneer USB Audio Device] to display the Properties.

🐳 Sound 🔤	
Playback Recording Sounds	
Select a playback device below to modify its settings:	
Speakes High Definition Audio デバイス Working	
Speakers Pioneer USB Audio Device Working	
<u>C</u> onfigure <u>Set Default</u> <u>Properties</u>	
OK Cancel Apply]

3 Under the [Advanced] tab, select for [Default Format] the desired output sampling rate, then click on [Apply].

Speakers Properties					
General Levels Advanced					
Default Format Select the sample rate and bit depth to be used when running in shared mode.					
24 bit, 48000 Hz (Studio Quality) ▼ 16 bit, 44100 Hz (CD Quality) 16 bit, 48000 Hz (DVD Quality) 16 bit, 96000 Hz (Studio Quality) 16 bit, 44100 Hz (Studio Quality) 24 bit, 44100 Hz (Studio Quality) 24 bit, 44000 Hz (Studio Quality) 24 bit, 44100 Hz (Studio Quality) 24 bit, 48000 Hz (Studio Quality)					
24 bit, 96000 Hz (Studio Quality) 24 bit, 192000 Hz (Studio Quality)					
Restore <u>D</u> efaults					
OK Cancel Apply					

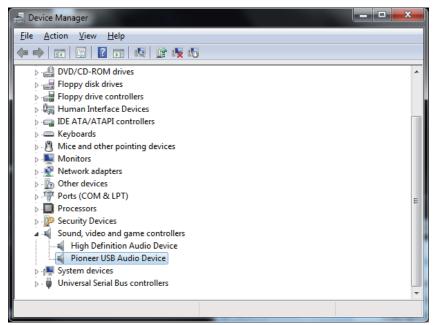
Troubleshooting (Windows 7)

When using Windows XP, see page 4; for Windows Vista, see page 6; for Mac OS X, see page 14.

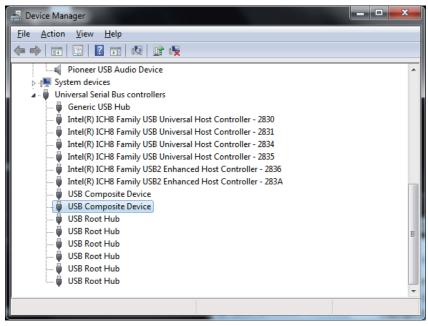
1. No sound

In the event the N-50's power is set to Standby, or the source input is set to something other than **Digital In USB**, do not open your computer's media player software. Change the input to **Digital In USB** before starting your computer's media player.

- 1 Click on [Start] → [Control Panel] → [System and Security].
- 2 Under [System], click on [Device Manager].
- 3 Click on [Sound, video and game controllers] and confirm that [Pioneer USB Audio Device] is listed.



4 Click on [Universal Serial Bus controllers], and confirm that [USB Composite Device] is listed.



If the above devices are not listed as discribed, confirm that the N-50's input source is set to **Digital In USB**, then either disconnect and reconnect the USB cable, or set the power to Standby then turn it On again.

5 Click on [Start] \rightarrow [Control Panel] \rightarrow [Hardware and Sound] \rightarrow [Sound].

Procedure continues.

6 Under the [Playback] tab, confirm that for [Speakers], [Pioneer USB Audio Device] is checked as the [Default Device].

 \rightarrow If another device has been selected, select [Pioneer USB Audio Device], and click on [Set Default].

🛞 Sound					×
Playback	Recording	Sounds	Communications		
Select a	playback de	evice belo	w to modify its se	ettings:	
	P Ready	ers Definition	Audio デバイス		
	Speake Pionee		dio Device		
<u>C</u> onfi	gure		<u>S</u> et Defa	ault 🔻 🗹	erties
			ОК	Cancel	Apply

7 Double click on [Speakers] ([Pioneer USB Audio Device]), and display its Properties.

Procedure continues.

8 Under the [Levels] tab, set the [Speakers] level to maximum.

If the Speaker Mute indicator (at the left side of the Balance button) is lighted, click it to turn it off.

General Levels	Advanced			
	0	100	Balance	
	ОК	Cance	App	

9 Confirm that your media player's sound volume is set to Maximum.

In the event your media player requires an output plugin setting, confirm that [Pioneer USB Audio Device] is selected.

2. To disable the operating system's sound scheme

Under default OS settings, computer events may be accompanied by audio signals and beeps that are audible through the speakers attached to the N-50. In the event you do not wish to hear such non-music signals, follow the instructions listed below:

- 1 Click [Start] \rightarrow [Control Panel] \rightarrow [Hardware and Sound] \rightarrow [Sound].
- 2 Click on the [Sounds] tab, and for the [Sound scheme], select [No Sounds], then click on [Apply].

🛞 Sound	x
Playback Recording Sounds Commu	nications
A sound theme is a set of sounds ag and programs. You can select an ex have modified. Sound Scheme:	
Windows 標準 ▼	Save As Delete
Afternoon Calligraphy Characters Cityscape Delta Festival Garden Heritage Landscape No Sounds Quirky Raga Savanna Sonata Windows 標準	vent in the following list and n save the changes as a new
(None) 👻	▶ <u>T</u> est <u>B</u> rowse
ОК	Cancel Apply

Procedure finished.

3. To set the sampling frequency for audio data output from your computer

By synchronizing the sampling frequency of playback files with the transmission sampling rate, sound can be transmitted without the need for frequency conversion.

When a high sampling frequency is set on a computer with inadequate processing capacity, audio playback may be disrupted. In this event, the bit rate and frequency should be set to lower values such as 2-channel, 24-bit, 44100 Hz.

- 1 Click on [Start] \rightarrow [Control Panel] \rightarrow [Hardware and Sound] \rightarrow [Sound].
- 2 Under the [Playback] tab, for [Speakers], double click on [Pioneer USB Audio Device] to display the Properties.

🔅 Sound		
Playback Re	cording Sounds Communications	
Select a pla	yback device below to modify its settings:	
	Speakers High Definition Audio デバイス Ready	
	Speakers Pioneer USB Audio Device Default Device	
Configur	e <u>S</u> et Default Properties	
	OK Cancel Apply	

3 Under the [Advanced] tab, select for [Default Format] the desired output sampling rate, then click on [Apply].

Speakers Properties	×
General Levels Advanced	
Default Format	
Select the sample rate and bit depth to be used v in shared mode.	vhen running
24 bit, 192000 Hz (Studio Quality)	▶ <u>T</u> est
16 bit, 44100 Hz (CD Quality) 16 bit, 48000 Hz (DVD Quality) E16 bit, 88200 Hz (Studio Quality)	
16 bit, 96000 Hz (Studio Quality) 16 bit, 192000 Hz (Studio Quality)	this device
24 bit, 44100 Hz (Studio Quality) 24 bit, 48000 Hz (Studio Quality)	
24 bit, 96000 Hz (Studio Quality) 24 bit, 192000 Hz (Studio Quality)	
Restore <u>D</u> efaults	
OK Cance	
	Apply

Troubleshooting (Mac OS X)

When using Windows XP, see page 4; for Windows Vista, see page 6; for Windows 7, see page 10.

1. No sound

In the event the N-50's power is set to Standby, or the source input is set to something other than **Digital In USB**, do not start your computer's media player software. Change the input to **Digital In USB** before starting your computer's media player

- 1 Click on [System Preferences...] \rightarrow [Sound].
- 2 Select the [Output] tab, then under [Select a device for sound output], select [Pioneer USB Audio Device].

0	Sound	
Show All	Q	
	Sound Effects Output Input	
Select a device for sound	l output:	
Name	Туре	
Internal Speakers	Built-in	
Pioneer USB Audio Device	USB	
Settings for the selected d	levice:	
Settings for the selected d		
Settings for the selected d	levice: The selected device has no output controls	
Settings for the selected d		
Settings for the selected d		
Settings for the selected d		
Settings for the selected d		(?)
	The selected device has no output controls	?
		?
Use audio port fo	The selected device has no output controls	?
	The selected device has no output controls	7

If the above devices are not listed as described, confirm that the N-50's input source is set to **Digital In USB**, then either disconnect and reconnect the USB cable, or set the power to Standby then turn it On again.

Procedure finished.

2. To disable the operating system's sound scheme

Under default OS settings, computer events may be accompanied by audio signals and beeps that are audible through the speakers attached to the N-50. In the event you do not wish to hear such non-music signals, follow the instructions listed below:

- 1 Click [System Preferences...] \rightarrow [Sound].
- 2 Click on [Sound Effects] tab, and for the item [Selected sound output device], click [Internal Speakers].

	Sound Effects Output Input
Select an alert sound:	
Name	Туре
Basso	Built-in
Blow	Built-in
Bottle	Built-in
Frog	Selected sound output device
Alert vo	Pioneer USB Audio Device

3 Select the [Output] tab, and for the item [Select a device for sound output], click on [Pioneer USB Audio Device].

Show All	Sound	٩
Select a device for sound	Sound Effects Output	Input
Name		Туре
Internal Speakers		Built-in
Pioneer USB Audio Device		USB
Settings for the selected de	vvice: The selected device has no	output controls
Use audio port fo Output volume		+ Mute

3. To set the sampling frequency for audio data output from your computer

By synchronizing the sampling frequency of playback files with the transmission sampling rate, sound can be transmitted without the need for frequency conversion.

1 Click on [Finder] \rightarrow [Applications] \rightarrow [Utilities] \rightarrow [Audio MIDI Setup].

0 0	Applications
FAVORITES	Name
📃 All My Files	🕨 🕅 Utilities
	Ime Machine
P AirDrop	💮 TextEdit
Desktop	System Preferences
Applications	🗐 Stickies
Documents	🎯 Safari
bocuments	Kemote Desktop Connection
DEVICES	🔇 QuickTime Player
🖾 iDisk	🖗 Preview
	🛃 Photo Booth

0 0	Applications
FAVORITES	Name
All My Files	💥 RAID Utility
AirDrop	Podcast Publisher
Desktop	Podcast Capture
	Network Utility
Applications	🍇 Migration Assistant
Documents	🖗 Keychain Access
	🗐 Java Preferences
DEVICES	😻 Grapher
iDisk	🕅 Grab
	Bisk Utility
	🧭 DigitalColor Meter
	Console
	🗶 ColorSync Utility
	Boot Camp Assistant
	🕹 Bluetooth File Exchange
	🏧 Audio MIDI Setup
	🚱 AppleScript Editor

Procedure continues.

- 2 Select [Pioneer USB Audio Device].
- 3 Select the bit rate and sampling frequency for the desired audio file.

000		Audio Devices	
Built-in Input 2 in / 0 out Built-in Output 0 in / 2 out	₽	Pioneer USB Audio Device Clock source: Default	
Pioneer USB Audio De 0 in/ 2 out		Input Output	
		Source: Default Format: 192000.0 H v 2ch-32bit Integer 441000.0 Hz Asster 88200.0 Hz 96000.0 Hz 1 96000.0 Hz 1 1 92000.0 Hz 1 92000.0 Hz	←
+ - *		Configure Speakers	

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