FOSTEX

Quick Start Guide

HP-A8

32-bit DAC headphone amplifier

Thank you very much for purchasing the HP-A8.
This manual provides the basics of the HP-A8. Read this before you use the unit for the first time.

<Note>: If you connect the HP-A8 to a Windows computer via USB, you must install the dedicated USB Audio Class 2.0 driver which can be downloaded from the Fostex website (www.fostex.com).
If you use a Mac computer, you do not need to download a driver.

WARNINGS and PRECAUTIONS

- CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
  ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES, APAR DE LA FENTE LARGE, FOND.

- WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
  AVIS: Pour réduire le risque d'incendie ou de choc électrique, ne pas exposer cet appareil sous la pluie et l'humidité.

- CAUTION: Use of any controls or adjustments or performance of procedures other than those herein specified may result in hazardous radiation exposure.
  ATTENTION: L'utilisation de tout contrôle ou de réglages ou de procédures autres que celles indiquées ci-après peut entraîner une exposition à des radiations dangereuses.

- WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
  AVIS: Les changements ou modifications à cette unité n'étant pas expressément approuvé par la partie responsable de la conformité pourrait annuler l'autorité de l'utilisateur de faire fonctionner l'équipement.

- WARNING: Do not place the unit on top of any soft, porous, or sensitive surfaces to avoid damaging the surface. Use a protective barrier between the unit and surface to protect the surface.
  AVIS: Ne placez pas l'appareil au-dessus de toutes les surfaces souples, poreux, ou sensibles pour éviter d'endommager la surface. Utilisez une barrière de protection entre l'unité et la surface à protéger la surface.

- WARNING: Use of this unit near fluorescent lighting may cause interference regarding use of the remote. If the unit is displaying erratic behavior move away from any fluorescent lighting, as it may be the cause.
  AVIS: L'utilisation de cet appareil à proximité d'éclairage fluorescent peut provoquer des interférences sur l'utilisation de la télécommande. Si l'appareil affiche un comportement erratique s'éloigner de tout éclairage fluorescent, telle qu'elle peut être la cause.

- WARNING: Do not install this equipment in a confined space such as a book case or similar unit.
  AVIS: Ne pas installer cet équipement dans un espace confiné comme une bibliothèque ou une unité similaire.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
AVERTISSEMENT: POUR RÉDUIRE LE RISQUE DE CHOC ÉLECTRIQUE, NE PAS ENLEVER LE COUVERCLE (NI LE DOS).

ATTENTION
RISQUE D' ÉLECTROCUTION
NES PAS OUVRIR

NO USERSERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
AUCUNE PIÈCE À L'INTÉRIEUR. ENTRETIEN DE PERSONNELQUALIFIE.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
Le symbole de l'éclair fléché dans un triangle équilatéral, est destiné à alerter l'utilisateur de la présence d'une "tension dangereuse" dans le boîtier du produit qui peuvent être de ampleur suffisante pour constituer un risque d'électrocution aux personnes.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.
Le point d'exclamation dans un triangle attire l'attention de l'utilisateur sur la présente d'une importante littérature concernant le fonctionnement et l'entretien (les réparations) de l'appareil dans les manuels fournis.

SAFETY INSTRUCTIONS

1) Read these instructions.
   Lisez ces instructions.
2) Keep these instructions.
   Conservez ces instructions.
3) Heed all warnings.
   Respectez tous les avertissements.
4) Follow all instructions.
   Suivez toutes les instructions.
5) Do not use this apparatus near water.
   Ne pas utiliser cet appareil près de l'eau.
6) Clean only with dry cloth.
   Nettoyer uniquement avec un chiffon sec.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
   Ne pas bloquer les ouvertures de ventilation. Installer conformément aux instructions du fabricant.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
   Ne pas installer près de sources de chaleur telles que radiateurs, registres de chaleur, poêles ou autres appareils (y compris les amplificateurs) produisant de la chaleur.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
   Ne détruisez pas la sécurité de la terre ou polarisées – fiche. Une fiche polarisée possède deux lames dont une est plus large que l'autre. Une prise de terre possède deux lames et une broche de terre. La lame large ou la troisième broche sont prévues pour votre sécurité. Si la fiche fournie ne rentre pas dans votre prise, consultez un électricien pour remplacer la prise obsolète.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
    Protégez le cordon d'alimentation d'être piétiné ou pincé, particulièrement au niveau des fiches, des prises, et le point où ils sortent de l'appareil.

11) Only use attachments/accessories specified by the manufacturer.
    N'utilisez que des accessoires spécifiés par le fabricant.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
    Utilisez seulement avec la charrette, position, trépied, support ou table spécifiée par le fabricant, ou a vendu avec l'appareil . Lorsqu'une charrette est utilisée, utilise la prudence quand déplacer la combinaison de charrette / appareil pour éviter la blessure de pointe–sur.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
    Débranchez cet appareil pendant les orages ou lorsqu'il n'est pas utilisé pendant de longues périodes de temps.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
    Confiez toute réparation à un personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce cordon d'alimentation ou la fiche est endommagé, liquide a été renversé ou des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement, ou s'il est tombé.
15) The apparatus shall be used in an open area.
    Cet appareil doit être utilisé dans un endroit a aire ouverte.
16) Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on appalatus.
    L'appareil ne doit pas éclaboussures et aucun objet ne contenant de liquide, tel qu'un vase, ne doit être placé sur lobjet.
17) Mains plug is used as disconnect device. It shall remain readily operable and should not be obstructed during intended use. To completely disconnect the apparatus from supply mains, the main plug of the apparatus shall be disconnected from the mains socket outlet completely.
    La prise du secteur et utilisé pou déconnecter le système. La prise du secteur ne doit pas être obstruée ou doit être facilement accessible pendant son utilisation. Pour être complément déconnecté de l'alimentation d'entrée, la prise doit être débranchée du secteur.

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For the more detailed information, see the "Owner's manual (details)" that will be uploaded to the Fostex website (www.fostex.com) later and updated as needed.

FCC (U.S.A.) & ICES-003 (Canada) INFORMATION

1. IMPORTANT NOTICE
This product, when installed as indicated in the instructions contained in this manual, meets FCC and ICES-003 requirements. Changes or modifications not expressly approved by Fostex Company for compliance could void the user's authority to operate the equipment. DO NOT MODIFY THIS PRODUCT.

2. IMPORTANT
In order to comply with FCC and ICES-003 requirements, use high quality shielded cables for connection to accessories and / or another products. If any cables are supplied with this product, they MUST be used. Follow all installation instructions. Failure to do so could void your FCC / ICES-003 authorization to use this product in the USA / Canada.

3. NOTE
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

4. Compliance with Part 15 of FCC Rules and Canadian ICES-003.
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 many cause undesired operation.

This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Overview

The HP-A8 is a DAC headphone amplifier offering superb analog and digital circuitry designs. You can listen to music reproduced by a personal computer or digital audio device with high quality sound.

- High quality 32-bit DAC (AK4399) and all discrete analog circuitry headphone amplifier for maximum sound quality
- Self-developed USB driver up to 32bit/192kHz on Mac (24bit on Windows)
- Asynchronous mode using high precision TCXO (temperature compensated crystal oscillator) suppresses clock jitter.
- Audiophile quality electronic volume is used for level control.
- Large capacity toroidal power transformer for ample power supply.
- Audio source selectable from a personal computer, digital audio device or analog audio device.
- Built-in SD (SDHC) card drive to reproduce DSF file on an SD card, as well as be used for future software upgrade using an SD card.
- Two headphone jacks as well as the line output (RCA jacks) for analog output.
- Internal clock or External clock mode selectable.
- Up-sampling function (x 2, x 4 or OFF).
- Selectable digital filter type.
- 24-step selectable gain for headphone output.
- Direct analog output mode bypassing the volume circuit.
- Comes with a handy dedicated remote controller.
- OLED (organic electroluminescent display) represents current system information as well as menu information.

Supplied accessories

The following accessories are supplied with the HP-A8.

- Remote controller x 1
- Power cord x 1
- Quick start guide (this manual) x 1

After purchasing the HP-A8, check that all the above items are included in the package.

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* Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

* Mac is a trademark of Apple Inc., registered in the U.S. and other countries.

* All other trademarks are the property of their respective owners.

Front panel
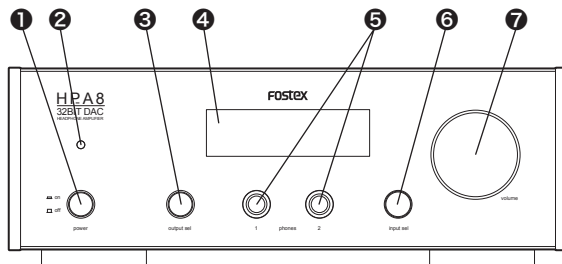
❶ [POWER] switch

This switch turns on or off the unit.
When the switch is down, the unit is on.

❷ [ON] indicator

When the unit is on, this indicator lights in red.

❸ [OUTPUT SEL] switch

This switch selects weather analog audio is output from the [PHONES] (1 and 2) jacks or the [ANALOG OUT] jacks.
When the switch is up, audio is output from the [PHONES] (1 and 2) jacks.
When the switch is down, audio is output from the [ANALOG OUT] jacks.

> <Memo>:Regardless of the [OUTPUT SEL] switch setting, the digital audio signal is always fed to all [DIGITAL OUT] jacks (except when the input source is an analog source or a DSF file).

❹ Display

Shows various information of the unit.
See E-6 for details.

❺ [PHONES] (1 and 2) jacks
(stereo phone jacks)

These jacks are used to connect to headphones. You can connect headphones to both jacks simultaneously, allowing monitoring by two persons at a time.
The audio signal is output from these jacks when the [OUTPUT SEL] switch on the front panel is up.

❻ [INPUT SEL] dial

You can select the input source from the following by rotating this dial.

AES/EBU	External device connected to the [AES/EBU] jack on the rear panel
USB	Computer connected to the [USB] jack on the rear panel
RCA	External device connected to the [ANALOG] jacks on the rear panel
SD	SD card inserted to the [SD CARD] slot on the rear panel
COX	External device connected to the [DIGITAL IN - COAXIAL] jack on the rear panel
OPT1	External device connected to the [DIGITAL IN - OPTICAL 1] jack on the rear panel
OPT2	External device connected to the [DIGITAL IN - OPTICAL 2] jack on the rear panel

> <Memo>:The currently selected input source is shown on the display.

In the menu mode, this dial is used for selecting the item or value (see "Using the menu" on page E-11).

❼ Audio volume dial

This dial controls the audio output volume of the [PHONES] (1 and 2) and [ANALOG OUT] jacks.
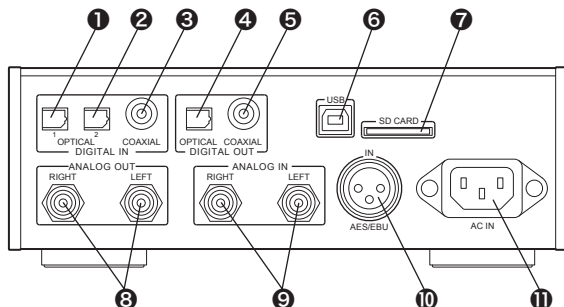Audiophile quality electronic volume is used.
The current volume position is shown at the right top on the display.

> <Memo>:When the "DIRECT" menu item is set to "ON", this dial does not affect the output volume of the [ANALOG OUT] jacks.

Rear panel

❶ **[DIGITAL IN - OPTICAL 1] connector**
   (optical rectangular)

This connector receives an S/PDIF digital audio signal and is used for connecting to a digital audio playback device such as a CD player.
To listen to the audio source of this connector, select "OPT1" by rotating the [INPUT SEL] dial on the front panel.

❷ **[DIGITAL IN - OPTICAL 2] connector**
   (optical rectangular)

This connector receives an S/PDIF digital audio signal and is used for connecting to a digital audio playback device such as a CD player.
To listen to the audio source of this connector, select "OPT2" by rotating the [INPUT SEL] dial on the front panel.

❸ **[DIGITAL IN - COAXIAL] connector**
   (RCA jack)

This connector receives an S/PDIF digital audio signal and is used for connecting to a digital audio playback device such as a CD player.
To listen to the audio source of this connector, select "COX" by rotating the [INPUT SEL] dial on the front panel.

❹ **[DIGITAL OUT - OPTICAL] connector**
   (optical rectangular)

This connector is used for connecting to a digital audio device.
This connector outputs the digital audio signal the unit receives in the S/PDIF format.

<Memo>:When the input source is an analog source or a DSF file, no signal is output from the [DIGITAL OUT] connector.

❺ **[DIGITAL OUT - COAXIAL] connector**
   (RCA jack)

This connector is used for connecting to a digital audio device.
This connector outputs the digital audio signal the unit receives in S/PDIF format.

<Memo>:When the input source is an analog source or a DSF file, no signal is output from the [DIGITAL OUT] connector.

❻ **[USB] connector**

This connector is used to connect to a personal computer using a USB cable. You can receive a digital audio signal from the computer.
To listen to the digital audio of a personal computer, select "USB" by rotating the [INPUT SEL] dial on the front panel.

❼ **[SD CARD] slot**

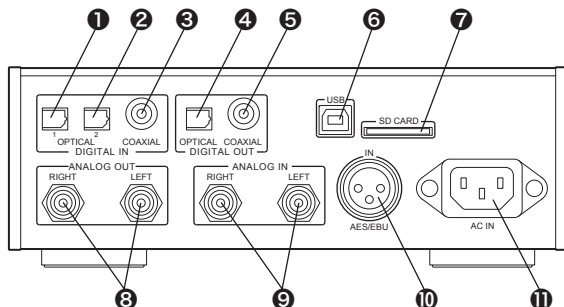This slot is used to insert an SD (or SDHC) card. Be sure to insert a card with the label side up.
The HP-A8 can play back a DSF file on an SD card. You can also use an SD card for future version upgrade.
When you remove an SD card, follow the correct procedure (see "Removing an SD card" on page E-10).

<Memo>:The unit does not support SDXC cards.

Rear panel

❽ **[ANALOG OUT] (LEFT, RIGHT) connectors (RCA jack)**

These connectors are used to connect to an audio amplifier, etc.
The audio signal is output from these connectors when the [OUTPUT SEL] switch on the front panel is down.

❾ **[ANALOG IN] (LEFT, RIGHT) connectors (RCA jacks)**

This connector receives an analog audio signal.
It is used to connect to an analog audio playback device or a digital audio playback device that does not have a digital output.

To listen to the audio source of the [ANALOG IN] connectors, select "ANALOG" by rotating the [IN-PUT SEL] dial on the front panel.

❿ **[AES/EBU] input connector (XLR female)**

This connector receives an AES/EBU digital audio signal and is used for connecting to a digital audio playback device such as a CD player.
To listen to the audio source of this connector, select "AES/EBU" by rotating the [INPUT SEL] dial on the front panel.

⓫ **[AC IN] connector**

Connect the supplied power cord to this connector.

Display

The following three display modes are available.

• **Normal display mode**

Normally the display shows the current input source, Fs condition and volume level position.

```
OPT 1      -20.0dB
48.0K
```

• **Menu display mode**

Pressing the [MENU] key on the remote controller enters the menu mode. In the menu mode, the display shows a menu item and the current setting for that menu item.

```
→ AMP GAIN
   10.0dB
```

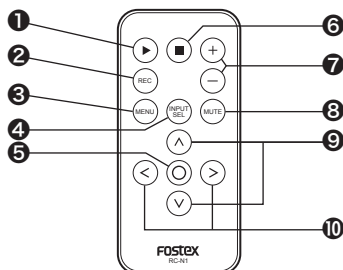For details about the menu mode, see "Using the menu" on page E-11.

• **SD display mode**

When "SD" is selected as the input source, the display shows something like the one below. You can see the volume level position, playback/stop status and current folder/file name.

```
SD         -20.0dB
■JAZZ/BLUES#1.dsf
```

Remote controller

❶ [▶] key

When the SD card is selected as the audio source, pressing this key starts playback of the current audio file.

❷ [REC] key

(This key does not function with the HP-A8.)

❸ [MENU] key

Pressing this key enters the menu mode.
Pressing this key in the menu mode exits the menu mode.

❹ [INPUT SEL] key

This key is used for selecting the audio source (except in the menu mode).
It acts the same as the [INPUT SEL] dial on the front panel.

❺ [○] key

Press this key to unmount the SD card before removing it physically from the [SD CARD] slot. (see "Removing an SD card" on page E-10 for details).
In the menu mode, this key works differently (see "Using the menu" on page E-11 for details).

❻ [■] key

When you play back an audio file on an SD card, pressing this key stops playback.

❼ [+] / [–] key

These keys are used to control the audio output volume of the [PHONES] (1 and 2) and [ANALOG OUT] jacks.
They work the same as the audio volume dial on the front panel.

<Memo>:When the "DIRECT" menu item is set to "ON", these keys do not affect the output volume of the [ANALOG OUT] jacks.

❽ [MUTE] key

Pressing this key mutes the output signal from the [PHONES] and [ANALOG OUT] jacks. Pressing the key again releases muting.
Note that the [ANALOG OUT] connectors are not muted when the "DIRECT" menu item is set to "ON".

<Memo>:If you use the audio volume dial on the front panel or the [+] / [-] keys on the remote controller while the unit is muted, the volume changes after mute is released.

❾ [∧] / [∨] key

(These keys do not function with version 1.)

❿ [＜] / [＞] key

When the SD card is selected as the audio source, pressing the [<] or [>] key selects the previous or next file.
Holding down the [<] or [>] key fast-rewinds or fast-forwards the file.
In the menu mode, these keys are used for selecting the menu item or setting (see "Using the menu" on page E-11 for details).

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Example 1: Listening to the audio from an external digital audio device

Connecting an external digital audio source device

Connect an external digital audio source device to any of the four [DIGITAL IN] connectors ([OPTICAL 1], [OPTICAL 2], [COAXIAL] and [AES/EBU]).
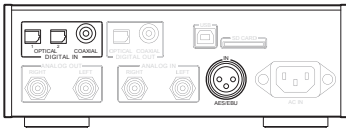
Connecting the audio monitor device

• To monitor via speakers
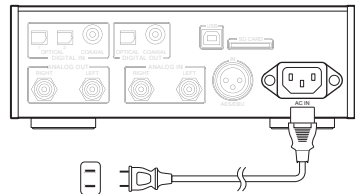 Connect an audio amplifier or powered speakers to the [ANALOG OUT] connectors.

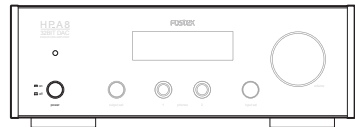• To monitor via headphones
  Connect headphones to the [PHONES 1] or [PHONES 2] connector.

Turning on the power

<Caution>:When you connect to an amplifier, turn down the volume of the amplifier before you turn on the power.

1) Connect the unit to the AC wall outlet using the supplied power cord.

2) Depress the [POWER] switch on the front panel. The unit turns on while the [ON] indicator lights up in red.

Selecting the output

Set the [OUTPUT SEL] switch on the front panel appropriately depending on whether you monitor via speakers or headphones.
To monitor via speakers, set the [OUTPUT SEL] switch to the down position.
To monitor via headphones, set the [OUTPUT SEL] switch to the up position.
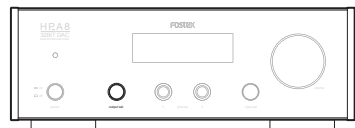
Example 1: Listening to the audio from an external digital audio device (continued)

Selecting the audio source

Select the audio source (input source) by rotating the [INPUT SEL] dial on the front panel (or using the [INPUT SEL] key on the remote controller).

You can select from "OPT1", "OPT2", "AES/EBU" and "COX" depending on the connector to which the source device is connected.
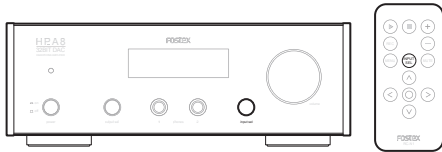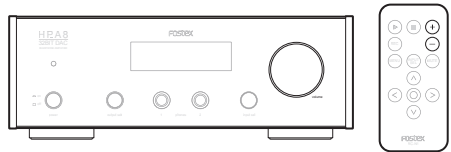
Adjusting the audio level

You can adjust the audio level using the audio volume dial.

The audio volume dial affects the output levels of both the [PHONES (1 and 2)] and the [ANALOG OUT] connectors.

Note that, however, when the "DIRECT" menu item is set to "ON", the audio volume dial does not affect the output levels of the [ANALOG OUT] connectors.

Example 2: Listening to a DSF file on an SD card

Preparing an SD card

1) Format an SD card to FAT32 using a personal computer.

2) Create a folder to the card and give a folder name within 30 alphanumeric characters.

3) Copy a DSF file from your computer to the SD card. Note that the file name must be within 30 alphanumeric characters.

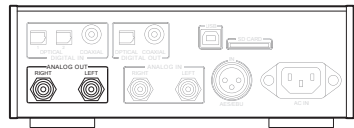<Note>:The original DSF file should be retained on your computer.

Inserting the SD card

Insert the SD card that contains a DSF file to the [SD CARD] slot on the rear panel. Be sure to insert a card with the label side up.
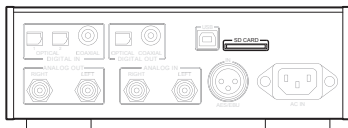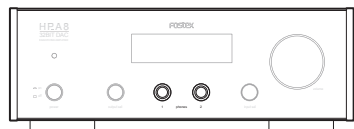
Connecting a monitor device

• To monitor via speakers
Connect an audio amplifier or powered speakers to the [ANALOG OUT] connectors.

• To monitor via headphones
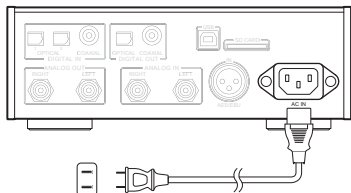Connect headphones to the [PHONES 1] or [PHONES 2] connector.

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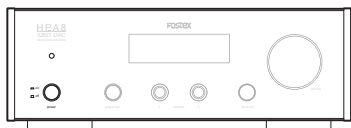## Example 2: Listening to a DSF file on an SD card (continued)

Turning on the power

<Caution>:When you connect to an amplifier, turn down the volume of the amplifier before you turn on the power.

1) Connect the unit to the AC wall outlet using the supplied power cord.

2) Depress the [POWER] switch on the front panel. The unit turns on while the [ON] indicator lights up in red.
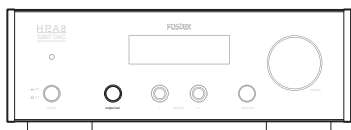
Selecting the output

Set the [OUTPUT SEL] switch on the front panel appropriately depending on whether you monitor via speakers or headphones.
To monitor via speakers, set the [OUTPUT SEL] switch to the down position.
To monitor via headphones, set the [OUTPUT SEL] switch to the up position.

Selecting the audio source

Select the audio source (input source) by rotating the [INPUT SEL] dial on the front panel (or using the [INPUT SEL] key on the remote controller.
You can select from "OPT1", "OPT2", "AES/EBU" and "COX" depending on the connector to which the source device is connected.
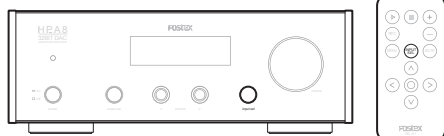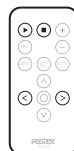
Operating an SD card

Select a desired DSF file using the [<] / [>] keys on the remote controller.
Pressing the [<] or [>] key selects the previous or next file.
After selecting the file, press the [▶] key to start playback.
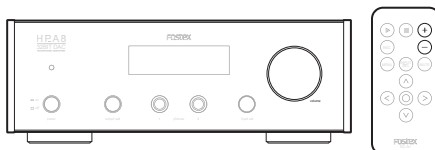To stop playback, press the [■] key.

Adjusting the audio level

You can adjust the audio level using the audio volume dial.
The audio volume dial affects the output levels of both the [PHONES (1 and 2)] and the [ANALOG OUT] connectors.
Note that, however, when the "DIRECT" menu item is set to "ON", the audio volume dial does not affect the output levels of the [ANALOG OUT] connectors.

Removing an SD card

Before you remove an SD card physically, do not forget to unmount the card.

1) Press the [○] key on the remote controller.
The SD card is unmounted and the display shows "EJECT".
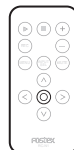
2) Press the SD card lightly.
The card is ejected partly.

3) Pull the SD card out.

You can set the various options.

Basic menu operation

urning on the power
You can change the setting of a desired menu item by the procedure below.

1) Press the [MENU] key on the remote controller to enter the menu mode.
   The menu display appears.
   "➢" points the menu item on the upper row.

```
➢  AMP GAIN
   10.0dB
```

2) Select the menu item by rotating the [INPUT SEL] dial on the front panel or pressing the [<] / [>] keys on the remote controller.

3) Press the [INPUT SEL] dial on the front panel or [○] key on the remote contoller.

```
   AMP GAIN
➢  10.0dB
```

"➢" moves down to the lower row and you can now change the setting of the menu item.

<Memo>:If you press the [INPUT SEL] dial on the front panel or [○] key on the remote contoller again, "->" moves up and returns to the condition of procedure 1) above.

4) Select the desired setting by rotating the [INPUT SEL] dial on the front panel or pressing the [<] / [>] keys on the remote controller.

For details about the menu, see the "Owner's manual (details)" that can be downloaded from the Fostex website (www.fostex.com).

Menu items

The following menu items are available.

● AMP GAIN
Sets the headphone amplifier gain.
You can select between "0 dB" and "12 dB" in steps of 0.5 dB (default: "0 dB").
Set to the appropriate value according to the headphone sensitivity.

● UP SAMPLING
Selects the upsampling options from "X1", "X2" and "X4" (default: "X1").

● DIGITAL FILTER
Selects the digital filter type of the DAC between the followings.
• SHARP ROLL-OFF (default): Conventional digital filter.
• MINIMUM DELAY: Digital filter which eliminates pre-echo effect, developed by AKM (ASAHI KASEI Microdevices Corporation).

● MSCK SEL
Selects the master clock for the DAC.
• DIR (default): Clock of the external digital audio source.
• XTAL: Internal high precision TCXO clock

<Memo>:When the audio source is set to "USB" or "SD", the internal clock is used as the master clock regardless of the setting of this menu item.

● DIRECT
Selects whether the analog output signal is sent to the [ANALOG OUT] connectors through the volume control circuit or directly.
• OFF (default): The signal is sent to [ANALOG OUT] through the volume control circuit.
• ON: The signal is directly sent to [ANALOG OUT], bypassing the volume control circuit.

<Memo>:As for the [PHONES] output, the signal is always sent through the volume control circuit, regardless of the setting of this menu item.

● SYSTEM INFO
The current system version is shown.
This menu item is also used when upgrading the system software.
For details about software upgrading, see the Fostex website (www.fostex.com).

Declaration of EC Directive

This equipment is compatible with the EMC Directive (2004/108/EC) - Directive on approximation of member nation's ordinance concerning the electromagnetic compatibility and with the Low Voltage Directive (73/23/EEC) - Directive on approximation of member nation's ordinance concerning electric equipment designed to be used within the specified voltage range.

The Affect of Immunity on This Equipment

The affect of the European Specification EN61000-6-1 (coexistence of electromagnetic waves - common immunity specification) on this equipment are as shown below.

In the electrical fast transient/burst requirements, surge, conducted disturbances by radio-frequency fields, power frequency magnetic field, radiate electromagnetic field requirements and static electricity discharging environment, this could be affected by generation of noise in some cases.

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