SFORZATO DSP-09EX

User's Manual

Ver. 101524

Index

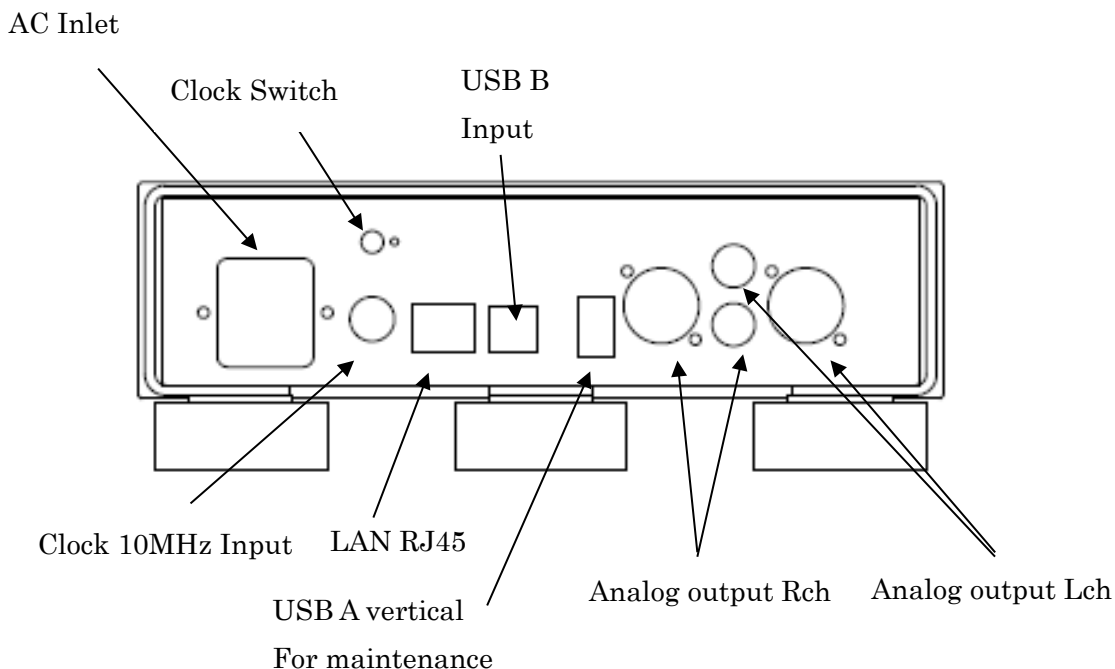Please read carefully this manual before use.

DSP-09EX is roon ready.

Roon ready;

Being Roon Ready means that SFORZATO uses Roon streaming technology, for an incredible user interface , simple setup, rock-solid daily reliability, and the highest levels of audio performance, without compromise.

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1. How to connect

DSP-09EX back panel

AC Inlet

Clock Switch

USB B
Input

Clock 10MHz Input   LAN RJ45

USB A vertical
For maintenance

Analog output Rch   Analog output Lch

1) How to connect

　① DSP-09EX generates a lot of heat due to the considerable current flow inside to emphasize sound quality. When installing the DSP-09EX, please be careful to dissipate heat. Touching the main unit while it is in operation is not a problem if the temperature is about the same as that of a bathtub, but if the temperature becomes so high that you cannot continue to touch it with your bare hands, it may malfunction. In the worst case, it may damage the hardware.

　② First, make sure that the DSP-09EX power cable is unplugged. Also, make sure that the power switches are turned off. The power switch is located at the bottom, front and center of the main unit.

　③ Make sure the switch labeled "clock" is on the INT side. When connecting other external clocks, refer to the manual for the clock. When using an external clock, set the switch to the EXT side. Use only SFORZATO products for the external clock. Other clocks are not guaranteed to work.

　④ Insert LAN cable to the LAN connection terminal on the rear panel and connect the DSP-09EX to your home LAN network. If you are using a Melco or fidata NAS, you can connect directly to the NAS. Please refer to the NAS manual for details.

　⑤ Connect the analog output to the amplifier using RCA or XLR cables. For details

on the connection method, please refer to the amplifier manual. If both RCA and XLR outputs are connected, only the hot side of the XLR will have two loads connected to it, resulting in a significant degradation of sound quality.

⑥ Connect the power cord to the DSP-09EX and plug it into an outlet.

⑦ When turning on the power switch, turn off the amplifier power or switch the selector to avoid damage to the loudspeakers by the switch noise of DSP-09EX.

⑧ Turn on the power of DSP-09EX.

⑨ When using an external clock, turn on the clock power supply before the DSP-09EX.

⑩ DSP-09EX uses a large capacitor in the power supply section, so even if the power switch is turned off, it does not immediately turn off inside the DSP-09EX. When turning the power switch off and on again, wait about 5 seconds before turning it back on. If the power switch is turned off and then turned on immediately, it may not come back on properly.

⑪ When turning off the power, please be very careful not to damage the loudspeakers by the switch noise of DSP-09EX by turning off the amplifier or switching the selector.

2. Software Installation

In order to use the DSP-09EX, it is useful to have some software on your PC.

1）NAS Utility software

2）Ripping softw

3）Etc.

1) NAS Utility Software

SFORZATO recommends Melco or I-O Data fidata for NAS. Other NAS may have problems and are not guaranteed to work.

Dedicated utility software for each NAS can be downloaded from their respective websites.

Buffalo: NasNavigator2

fidata:　LAN Disk Connect (windows) Magical Finder (Mac, iOS, Android)

Install these on your PC. Please refer to the respective NAS manuals for installation procedures and usage.

2) Ripping Software

In order to play a CD on the DSP-09EX, it is necessary to read the data from the CD on

a PC and save it on a NAS in advance. There are two types of ripping software recommended by SFORZATO。

        Exact Audio Copy (free)

        dBpoweramp　(paid)

Please refer to the software manual for how to install and use the software

3) Other Software

If you want to edit the album name, composer name, etc. of the ripped CD data on your PC, it is convenient to install the following software. (You can use DSP-09EX without this software.)

        MediaMonkey (free)

        http://www.mediamonkey.com/download/

Please refer to the software manual for how to install and use the software.

MediaMonkey does not support DSD; if you want to edit the album name, composer name, etc. of the DSD data (.dsf), you can use Tag & Rename (paid, trial period available)

        http://www.softpointer.com/tr.htm

can be used. It is also possible with dBpoweramp.

3. Software installation on iPhone / iPod / android device

You can remotely control the DSP-09EX using your iPhone or tablet device. To do so, you will need to install software for the remote control on your iPhone / tablet device.

SFORZATO recommends Taktina, which supports streaming services from TIDAL, Qobuz, and Amazon as well as music playback on your NAS. (Streaming services require a separate contract with the service provider;

Other OpenHome and DLNA standard control software can also be used.

4. how to operate

1) When using Taktina application

        (a) Select DSP-09EX MediaStreamer in Device Select in Setting.

        (b) Click the upper right arrow to return to the first screen.

        (c) Select the NAS that contains the song you want to play from Server.

        (d) Select the song you want to listen to from the NAS. The right side of the screen shows the songs in the NAS, and the left side shows the playlist (the order in which the songs are played). Tap the song's jacket picture to add it to the playlist. To play, tap the title in the playlist or tap the triangle button. Press and hold to play immediately, add to the end of the playlist, or add to the next

song in the playlist. If you press and hold an album, you can operate on the entire album.

(e) If you have a contract with a streaming service, you can also use the streaming service. The operation is the same as for the server.

(f) For details on how to use the Taktina application, please refer to the Taktina manual on the Interface, Inc.

https://www.itf.co.jp/prod/audio_solution/taktina

2) When using Diretta (LAN DAC mode)

Connect to a Windows PC and playback via LAN using the PC's music playback application.

(a) Download and install the driver software for Diretta from the download page of SFORZATO's web page.

(b) Set the output destination to SFORZATO Diretta in the music playback software on your PC. The music will be played from DSP-09EX.

(c) It is also possible to connect Soundgenic or fidata with diretta. (c) It is also possible to connect to Soundgenic or fidata via diretta, but Taktina cannot control it, so please use the fidata application to control it. (Please refer to the fidata/soundgeic manual for details.)

(d) In the renderer of the fidta application, you will see two names: DSP-09EX and fidata/soundgenic name [DSP-09EX], select fidata/soundgenic name [DSP-09EX] and play it. Select the fidata/soundgenic name [DSP-09EX] and playback. fidata/soundgenic acts as a renderer to manage playlists and decompress flacs, and DSP-09EX acts as a LAN DAC. connection.

3) When using with Roon

When using DSP-09EX with Roon ready, there is nothing to change in the DSP-09EX settings. Please refer to the manual of roon for details.。

4) When using USB

You can use USB to connect to a PC to play sound sources such as You Tube and other streaming services that cannot be listened to with the network player functionality.

(a) Download the driver for your PC from the download page of SFORZATO's web page.

(b) Install the driver on your PC.

(c) Connect the PC and the USB B terminal of DSP-09EX with a USB cable.

(d) Set the input to USB using the front button operation (see below).

(e) Select SFORZATO USB AUDIO as the output destination in the music playback software on the PC. The DSP-09EX will play sound when music is played.

5. Front panel switch

There are two buttons on the front of the DSP-09EX: Select and Phase.

The functions of each are as follows.

Select button

Allows you to select input from LAN input or USB input. Each press of the button switches between them.

Press and hold the button to enter the menu mode to update the firmware, etc.

In menu mode, the following display appears.

Config File:

You can change the name of the file when viewed from a control application such as Kazoo for the DSP-09EX.

Update:

Updates the CPU module software. Select button to display "Factory Reset".

Factory Reset:

Press the Phase button to return to the factory reset state.

Version:

Press the Phase button to display the software version, and press the Select button to display the Maintenance Log.

Maintenance Log:

Records error status and other information. Select button to display Exit.

Exit:

Exit: Press the Phase button to exit the menu mode, or press the Select button to return to the beginning.

Phase button

Each press of the button switches the absolute phase of the output. Depending on the song, it may feel more natural to switch between phases for playback. Select as desired.

6. how to update software

DSP-09EX has three built-in microcontrollers, each of which needs to be updated separately. Depending on the contents of the update, such as bug fixes or additional functions, the update may be performed for all or only one of the microcontrollers. Please follow the procedure specified at the time of update release.

How to update CPU module software

1) Prepare a FAT32 formatted USB flash drive. exFAT is not supported.

2) Download the latest CPU module software (.swu file) from the download page on our web page and copy it to the top level of the USB memory.

3) Insert the USB memory stick into the vertical USB A port on the rear panel for maintenance and turn on the power of the main unit.

4) Press and hold the Select button to enter the menu and proceed to Update.

5) Press the Display button to display "Idle" and then "ready". After updating, turn the power back on when the display changes to reboot.

6) The update is now complete.

If the display does not change from idle to ready, use the Select button to set the input/output combination to LAN input/USB output, turn off the power once, insert a USB memory stick into the horizontal USB terminal (terminal for connecting a USB DAC), turn on the power, and perform the menu operation in the same way. (The USB memory device will not be recognized unless the output is set to USB in the input/output selection in the Select button.)

Some USB memory devices may not be recognized properly. In that case, please try a different USB memory.

How to update DSP software (windows PC required)

1) 1) Download the latest DSP update software from the download page on our web page.

2) 2) Connect DSP-09EX and PC with USB cable.

3) 3) Turn on the power of DSP-09EX and set input/output to USB with select button.

4) 4) Run the update software on the PC.

5) 5) Click the HID search button on the software screen. The connection can be confirmed. If a connection error appears, check if the USB connection is correct and

the input of DSP-09EX is set to USB.
6) 6) Click the Write button. Wait until it finishes.
7) 7) The DSP will now be updated. Turn off the power and start it up again.

<u>How to update sub-microcontroller software (requires windows PC)</u>

Never turn off the power while the sub-microcontroller is being rewritten. If the power supply is turned off in the middle of rewriting the sub-microcontroller, it will need to be repaired.

1) Download the latest DSP update software from the download page on our web page.

2) Connect DSP-09EX and PC with USB cable.

3) Turn on the power of DSP-09EX and set input/output to USB with select button.

4) Run the update software on the PC.

5) Click the HID search button on the software screen. You will be warned not to turn off the power while updating. If a connection error appears, check if the USB connection is correct and the input of the DSP-09EX is set to USB.

6) Click the Write button. Wait until it finishes.

7) The sub-microcontroller will now be updated. Turn off the power and start it up again.

7. Update Histroy
   10/15/24   first version