

I/F firmware update manual

Please read this manual thoroughly to familiarize yourself with the update procedures before updating the firmware.

Equipment used

Windows computer (with built-in USB 2.0 port)
USB cable

- The SOFTWARE maintenance port on the unit is a Micro-B (USB 2.0) port. Use a USB cable that has a Micro-B (USB2.0) connector and a connector that matches the USB port on the computer being used.
- Use a USB cable that supports data transmission. (Cables designed only for charging cannot be used.)

Supported operating systems

Windows 10 or later
(as of February, 2024)

Preparation

The SOFTWARE maintenance port on the unit is a Micro-B (USB 2.0) port. Use a USB cable that has a Micro-B (USB2.0) connector and a connector that matches the USB port on the computer being used.

- Cables designed only for charging cannot be used for firmware updates.

IMPORTANT NOTICE

Different firmware update programs are made for every model. Execution of a firmware update program for a different model will make the Grandioso K1X unusable.

1. Update the I/F firmware

- Conduct the firmware update after installing the DFU driver. If the DFU driver is already installed because, for example, the I/F firmware has been updated previously, select "Yes" in response to the first question. This will skip installation of the DFU driver. If this is the first time to update the I/F firmware, or whether the DFU driver has been installed is uncertain, select "No" to install the DFU driver.

1 Uncompress the downloaded file.

The following file will appear.

- K1X_IFvxxx_updater_withDriver.exe

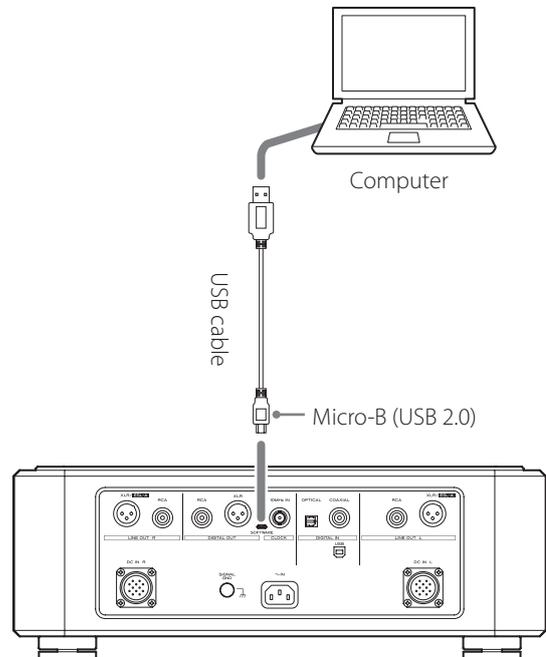
2 Double-click K1X_IFvxxx_updater_withDriver.exe.

Display example

- ESOTERIC I/F firmware updater
The firmware will be updated to aaa_IFvxxx.

- 3 Confirm that the file name begins with K1X. Then, connect to and update the unit according to the instructions on the screens that follow.

Connection example



- Refer to the unit's operation manual for the location of the SOFTWARE maintenance port.
- Cables designed only for charging cannot be used for firmware updates. Always use a USB cable that is capable of data transmission.
- The USB driver will be installed on the computer automatically. Wait until it is complete. When first connected, loading the driver takes some time.

2. Check the firmware version

The firmware version can be checked using the unit's setting mode item "Showing firmware versions" (F/W ver.).

- 1 When stopped or during playback, press and hold the MODE button.

- 2 Press and hold the MODE button again while Settings 1 is shown.

When the Settings 2 group is being shown, the MENU2 indicator appears at the top left of the display.

- 3 Press the MODE button repeatedly to show "F/W ver."

- 4 Press the skip (▶▶) button when "F/W ver." is shown.

The name of the interface firmware version will be shown.

3. Update the audio program

- Do this after installing the DFU driver (page 1).
- Before starting this procedure, confirm that a USB cable is not connected to the SOFTWARE maintenance port on the back of the unit.

1 Press the **POWER** button on the unit to turn it on.

2 Press and hold the **MODE** button for two or more seconds to open the **Settings 1** screen.

3 Press and hold the **MODE** button for two or more seconds again to open the **Settings 2** screen.

4 Press the **MODE** button repeatedly to show **"AUD_UPDATE"**.

5 Press the play (▶) button to show **"AUD WRITE"** on the unit's display.

6 Use a **USB** cable to connect the computer to the **SOFTWARE** maintenance port on the back of the unit.

ATTENTION

- Cables designed only for charging cannot be used for firmware updates. Always use a USB cable that is capable of data transmission.

7 Double-click **updater_K1X_DIGITAL_Vxxx_DAC_Vxxx.exe**.

* FPGA upgrade program

K1X_DIGITAL_V003_DAC_V003.dfu

1. Turn on the target and select MENU-[AUD UPDATE

* Don't connect the micro USB cable from PC to target yet!!

2. Push "PLAY" or ">" key. Then "AUD WRITE" message is displayed.

3. Connect the micro USB cable from PC to target.
(The DFU driver must be installed on the PC.)

Press any key to continue...

8 Confirm that **"K1X_DIGITAL_Vxxx_DAC_Vxxx.dfu"** is shown on the screen, and press the **Enter** key.

Do not turn the unit power off or disconnect the USB cable while updating. Doing so could make the unit not operate properly.

NOTE

The following screen will appear if the unit is not recognized by the computer. Click the x at the top right of the window to close it.

step1: Upgrading Digital FPGA

0 Device(s) found. Plug your DFU Device !

Target 00: Error Code: Unknown error 0x12340005.

Target: 00

Error Code: Unknown error 0x12340005.

TransferSize: 0

DFU State: (Unknown 0x75)

DFU Status: STATUS_OK

Request: (unknown 0xACEC7D69).

CurrentNBlock: 0x6976892C

CurrentLength: 0x76EA3C

Percent: 0

If the screen shown above appears, check the following items and repeat step 5.

- The DFU driver is installed (page 1).
- "AUD WRITE" appears on the unit's display.
- Use a USB cable to connect the computer to the SOFTWARE maintenance port on the back of the unit.

ATTENTION

- Cables designed only for charging cannot be used for firmware updates. Always use a USB cable that is capable of data transmission.
- Connecting to a different USB port on the computer might allow it to recognize the unit.

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9 When “* Writing is completed.” appears, press the Enter key to close the window.

step1: Upgrading Digital FPGA

1 Device(s) found:

Device [1]: STM Device in DFU Mode, having [3] alternate targets
Target 00: Upgrading - Download Phase (100)...Duration: 00:00:06
Upgrade successful !

step2: Upgrading DAC Lch FPGA

1 Device(s) found :

Device [1]: STM Device in DFU Mode, having [3] alternate targets
Target 01: Upgrading - Download Phase (100)...Duration: 00:00:08
Upgrade successful !

step3: Upgrading DAC Rch FPGA

1 Device(s) found :

Device [1]: STM Device in DFU Mode, having [3] alternate targets
Target 01: Upgrading - Download Phase (100)...Duration: 00:00:08
Upgrade successful !

* Writing is completed.

* Please unplug the micro USB cable.

Press any key to continue...

10 Disconnect the USB cable from the SOFTWARE maintenance port on the back of the unit.

This restart the unit.

4. Update the MQA decoder firmware

- Do this after updating the firmware of the unit.
- Before starting this procedure, confirm that a USB cable is not connected to the SOFTWARE maintenance port on the back of the unit.

1 Turn the unit off.

2 Press the POWER button on the unit to turn it on.

3 Press and hold the MODE button for two or more seconds to open the Settings 1 screen.

4 Press and hold the MODE button for two or more seconds again to open the Settings 2 screen.

5 Press the MODE button repeatedly to show “MQA_UPDATE”.

6 Press the play (▶) button to show “MQA WRITE” on the unit’s display.

7 Use a USB cable to connect the computer to the SOFTWARE maintenance port on the back of the unit.

ATTENTION

- Cables designed only for charging cannot be used for firmware updates. Always use a USB cable that is capable of data transmission.

8 Double-click MQA_vxxxxxx_updater.exe.

9 Click “Connect”.



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10 Click the “Download” button to start the update.



11 When “Succeeded” appears, press the POWER button on the unit to turn it off. Then, disconnect the micro USB cable from the unit’s SOFTWARE maintenance port.



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