Firmware Update V1.10

MC-3+ smart clock USB

REVIVE RE-CLOCKING · USB-ISOLATOR · DSD DoP SUPPORT · 10 MHz READY · 1G CLOCK

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Thank you very much for buying the MC-3+ Smart Clock USB and your interest in the firmware update V1.10.

Content of the Update

Version V1.03 – Bug fixes

- Update procedure: Corrected an error in the update procedure that would prohibit further updates.

Version V1.10 – Bug fixes

- Clock-In LEDs: The DSD/DoP display is now deactivated when no USB connection is established.
- HOLD mode: Corrected an error that could cause a temporary mute of the outputs when transitioning into the HOLD mode.

Version V1.10 – New or updated functionality

- Mode change: The »USB-PCM« and »USB-DSD/DoP« references have now been unified as one USB-PCM/DSD/DoP reference. This is reflected on the front panel by the simultaneously illuminated top three LEDs »USB-PCM« and »USB-DSD/DoP«. The unit now auto-detects if a PCM or DSD/DoP stream is present.
- LED »AUDIO«: The LED »AUDIO« is now activated for USB reference operation and refers to both PCM and DSD/DoP audio streams.
- Default values: The default value for the Clock-Out menu when the DSD/DoP reference has been selected is now set to 44.1 kHz (after a factory reset or during first power up).
- Fade-In/Fade-Out: A fade-in/fade-out has been implemented to minimize or entirely prevent clicks and pops when switching modes and functions on the front panel. Furthermore, a fade-in is executed after every new synchronization (e.g. when the sampling rate has been changed).

General Notices

Please read the following information carefully to avoid malfunction or damage to your MC-3+USB!

Attention

At the moment the firmware update is only available for computers with Windows operating systems (Windows 7, Windows 8, Windows 8.1, Windows 10)!

- Please ensure that all unnecessary applications are closed before you begin with the update.
- The connection between the PC and the MC-3+USB needs to be maintained throughout the entire update process.
- Please also refrain from pressing any buttons on the front panel of the MC-3+USB for the duration of the update process

ZIP Archive Contents

- »MC3+_USB_from101_to103.bin«: Firmware update from version V1.01 to version V1.03
- »MC3+_USB_from102_103_to110.bin«: Firmware update from version V1.02 or V1.03 to version V1.10
- »MC3+_USB_from110_to103.bin«: Firmware to revert from version V1.10 to the lowest available version V1.03 in case version V1.10 does not perform to your satisfaction or causes any unforeseen compatibility issues.
- »MUTEC MC-3+ Smart Clock USB - Firmware Update Guide V1.10«: Update guide document

The Update Process

- Please ensure that the MC-3+USB is turned off and not connected to the PC.
- Keep the MENU key depressed and turn on MC-3+USB to perform a factory reset. Now connect it with the PC using a USB cable. Please make sure that only one MUTEC USB device is connected.

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- Extract the ZIP archive to a location of your choice, e.g. your desktop.
- Locate the folder in which the MUTEC USB audio driver has been installed, e.g. C:\Program Files\MUTEC_Driver\MUTEC_USB_Audio_Driver\
- Now execute the update utility "MUTECUSBAudioDfu.exe". In the top section of the window you'll be shown the current software version of your MUTEC device in the row labeled »Current Firmware«.

Figure 1: The update utility is ready to start

Click »Browse« and locate the extracted folder from the ZIP archive and select the desired firmware file.

The file names of the firmware files identify if the firmware is suited for your MUTEC product. The file name needs to contain the name of your product. Furthermore, the file names identify the final version number of the update, e.g. »from1.01 to 1.03«. In this example, the final version would be »V1.03«.

Attention

- *If your current firmware version is V1.01 it is required that you first execute an update to version V1.03. Please use the file »MC3+_USB_from101_to103.bin« in the ZIP archive for this first update process. Afterwards you may install the latest firmware version V1.10.*
- *Please note that the update utility has to be closed and restarted after every update process. It is not possible to execute two consecutive updates one after another. It is however not necessary to reboot your computer.*
- *In the event of an error during the update process the system will fall back to firmware version V1.01. In such a case we advise that you close and restart the update utility and repeat the update process.*
- *Please note: The update to version V1.03* ***cannot*** *be undone. It does however not include any functional or acoustically relevant changes.*

Click the Start button to launch the update process

The following process can take a few minutes. Please do not turn off the PC or the MC-3+USB until the process has been completed. An interruption of the update may cause damage to the device.

As soon as the firmware transmission has been completed the update utility will confirm the status as shown in Figure 2. The update will however not be finalized until the MC-3+USB has automatically power-cycled.

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Figure 2: Transmission completed

Under all circumstances please wait for the MC-3+USB to power-cycle automatically. If your MC-3+USB is out of sight, please monitor the status information row labeled »Current Firmware« in the update utility. The version number will switch automatically as soon as the update has been completed.

Please close the update utility upon completion.

Attention

When updating from version V1.01 to V1.03 power-cycling the unit will not be indicated by the usual LED sequence on the front panel. In this case please wait a few seconds until the firmware version is shown in the status information row labeled »Current Firmware« in the update utility.

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