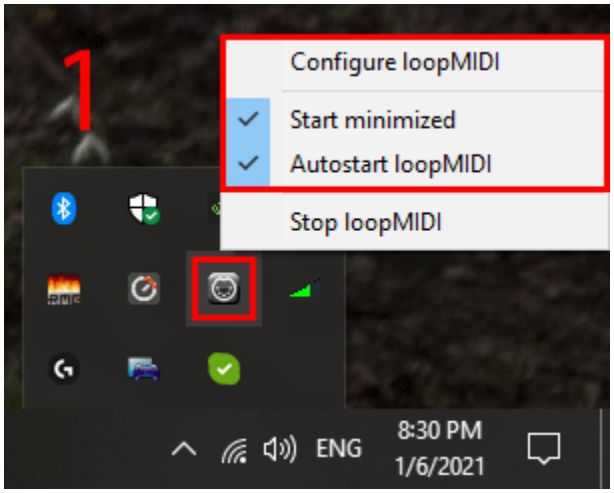
TotalKeyMix is a tool to control the volume of RME TotalMix with hotkeys in Windows. It was created by Stephan Römer using AutoHotKey and posted on the RME-audio forum and the old AutoHotKey forum. By default it is configured to accept the media volume buttons, replacing their default Windows system volume control function.

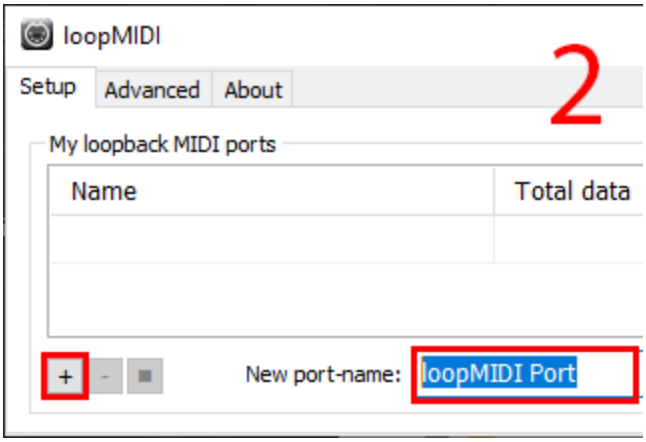
The latest version of TotalKeyMix can be downloaded from the RME-audio forum or AutoHotKey forum.

The following steps describe how to connect TotalKeyMix with RME TotalMix. To learn more about TotalKeyMix please read original_web_page.pdf included in the v.1.0.2 folder. The tool Stephen originally used, MIDI Yoke, is not supported anymore, but loopMIDI (used in this guide) or LoopBe1 are compatible with newer versions of Windows.

1. Install loopMIDI then launch it. Right click on its icon in the taskbar notification area to enable **Start minimized** and **Autostart loopMIDI** in order to allow TotalKeyMix to function at startup. Next, click on **Configure loopMIDI**.



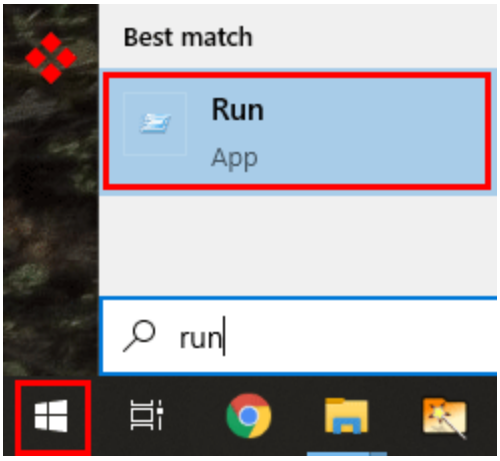
2. Add a new virtual MIDI port by clicking on the **+** sign.



3. Restart the computer.

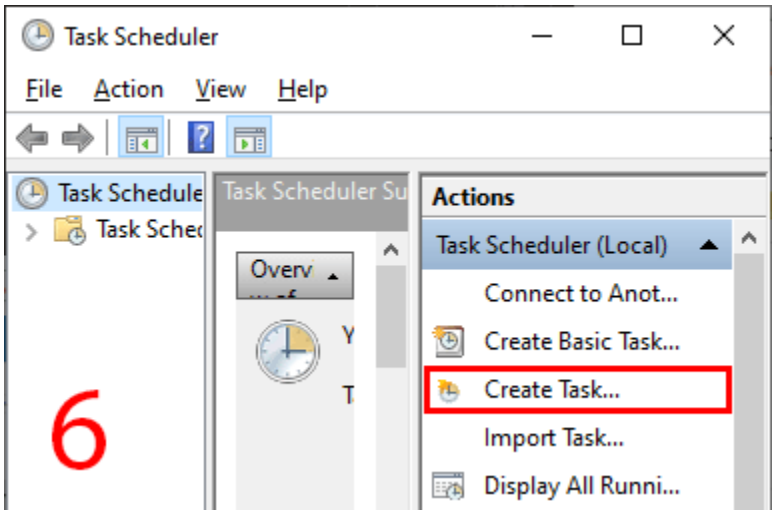
4. Extract TotalKeyMix .zip file in a custom, non-protected folder ex. C:\Programs\TotalKeyMix\.

   - If previously installed, click **Windows Start** button, type **run**, click **Run** and type **shell:startup** to open Windows startup folder and delete the TotalKeyMix shortcut.



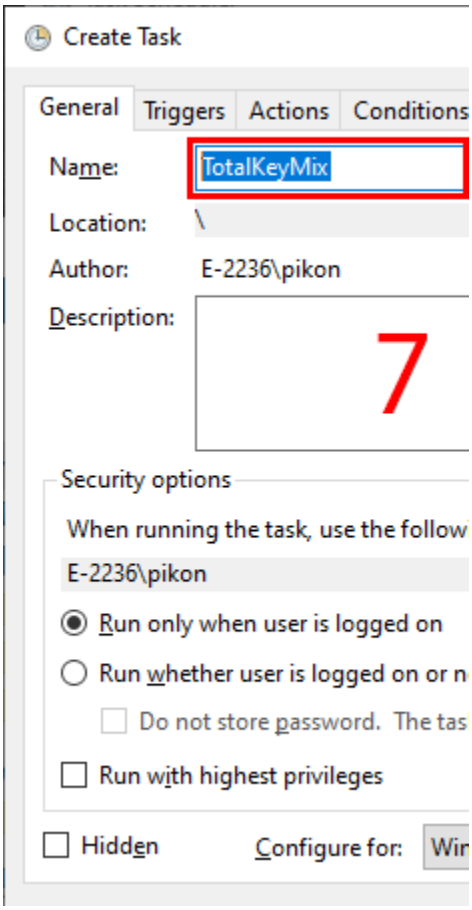
5. Windows Task Scheduler can be configured to run the program at startup. Click **Windows Start** button, type **task scheduler** and click **Task Scheduler** to open it.

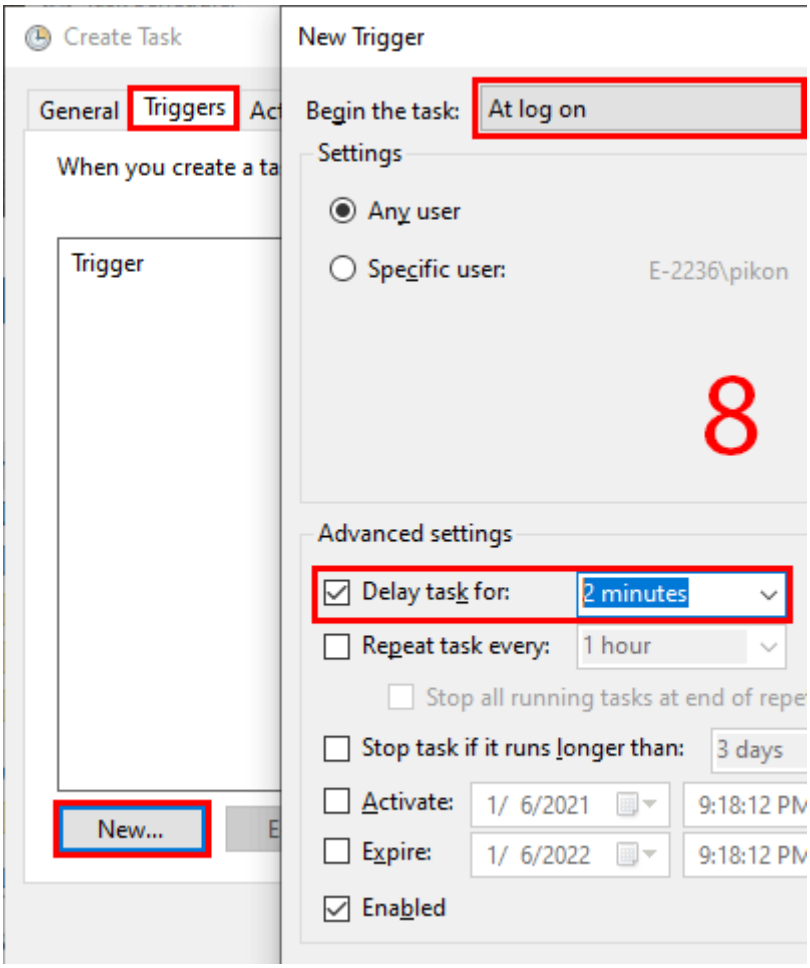
6. Click **Create Task** from the Actions menu.



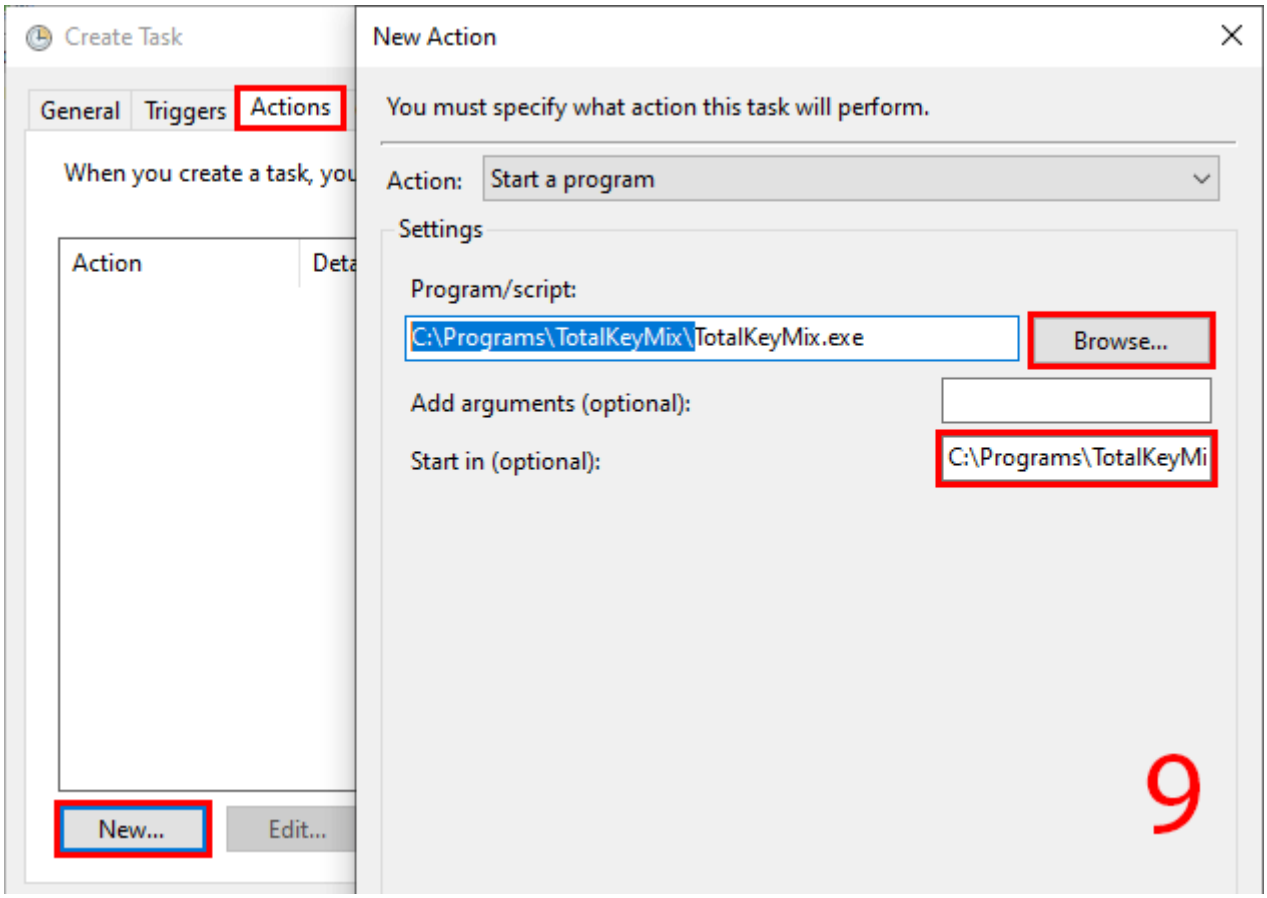
7. Type **TotalKeyMix** in the **Name** field to assign the task a name.

8. Select the **Triggers** tab and click **New.** In **Begin the task** list select **At log on**, enable **Delay task for** and enter **2 minutes**. For faster computers with SSD boot drive a smaller delay of **30 seconds** can be used.

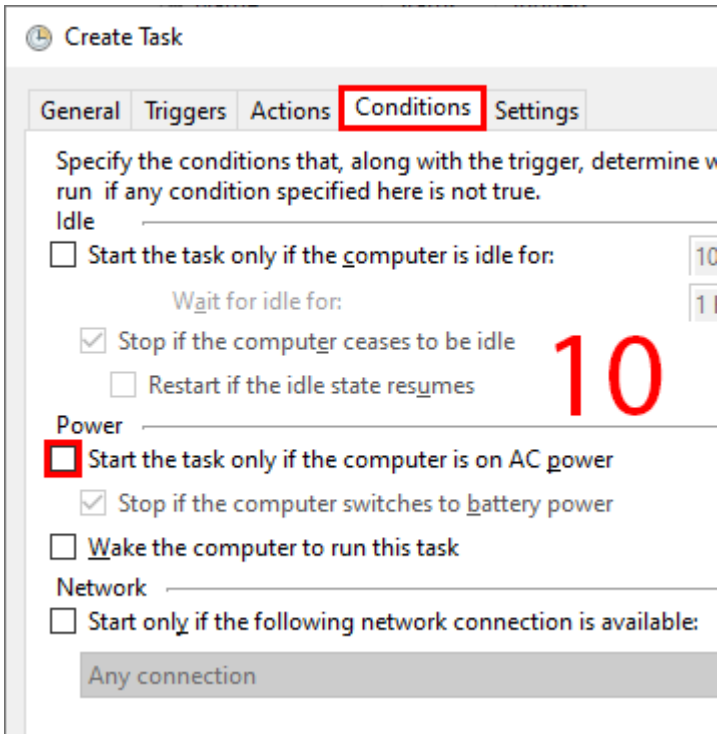




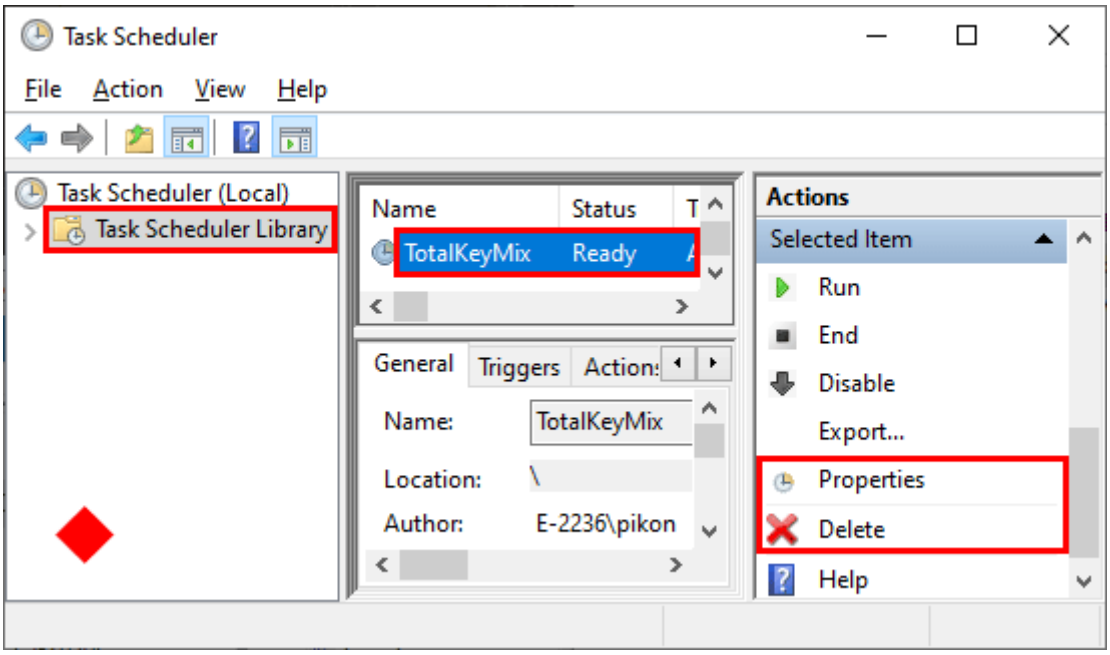
9. Select the **Actions** tab and click **New**. Use the **Browse** button to locate TotalKeyMix.exe file. In **Start in (optional)** field enter the folder where the .exe is located ex. C:\Programs\TotalKeyMix\.



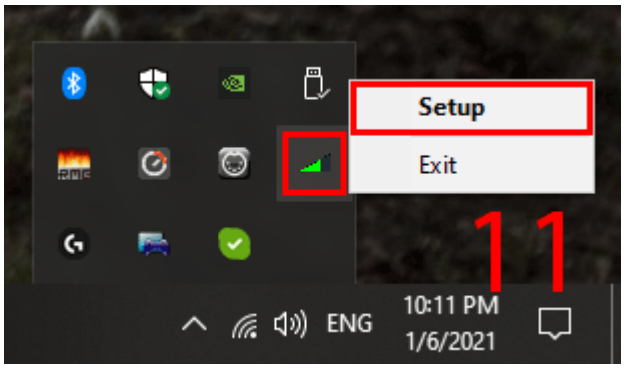
10. Select the **Conditions** tab and disable the AC power conditions.



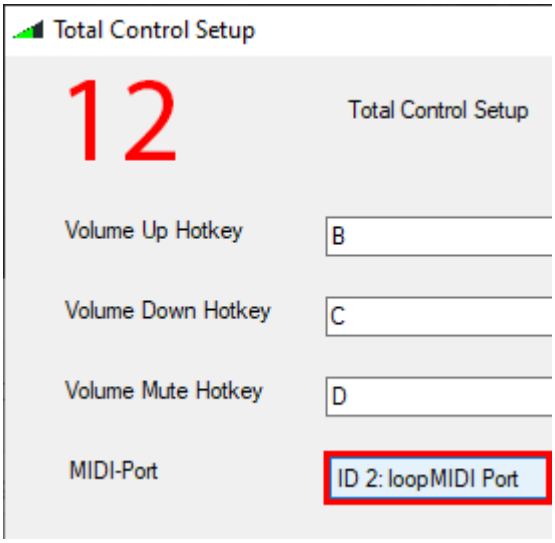
- The newly created TotalKeyMix task can be edited or deleted by clicking on **Task Scheduler Library**, selecting **TotalKeyMix** and clicking on **Properties** or **Delete**.



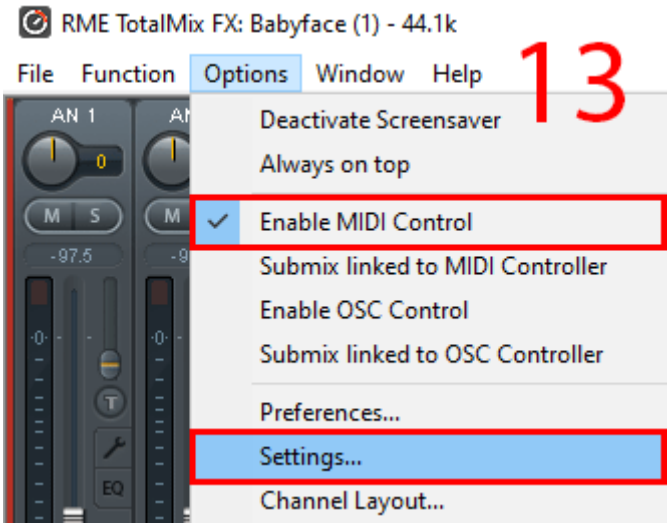
11. Launch TotalKeyMix.exe then right click on its icon in the taskbar notification area and click on **Setup**.

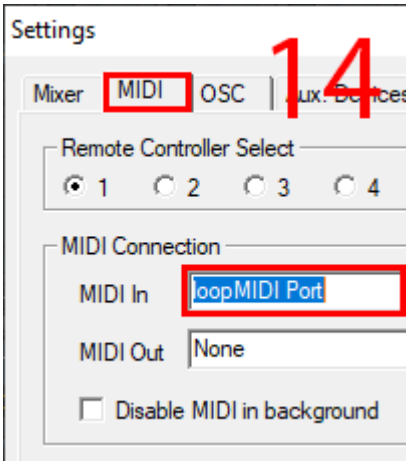


12. Select the correct MIDI port name created in step 2.



13. Open RME TotalMix then click on **Options** and **Enable MIDI Control**. Next, click on **Settings**.





14. Select the **MIDI** tab and in the **MIDI In** list select the port created in step 2.

15. Using MIDI to control TotalMix will prevent Windows from entering standby when idling. You can follow the thread here and check the progress of this issue. Using Windows built-in powercfg utility, the OS can be forced to ignore a system interrupt in order to allow standby to function normally.
    - Run Command Prompt as admin: click on the **Windows Start** button, type **cmd**, right-click **Command Prompt** and then click on **Run as administrator**.
    - Type the following line to add a driver ignored by standby:
      powercfg -requestsoverride DRIVER "teVirtualMIDI - Virtual MIDI Driver x64" SYSTEM

      - Additional powercfg commands:
        - to check what interrupts standby:
          powercfg –requests
        - to display a list of ignored processes, services or drivers by standby:
          powercfg –requestsoverride
        - to remove:
          powercfg -requestsoverride DRIVER "teVirtualMIDI - Virtual MIDI Driver x64"

      The driver name needs to be enclosed in quotation marks "". **teVirtualMIDI - Virtual MIDI Driver x64** is the driver name for loopMIDI, the name for LoopBe1 can be displayed with **powercfg -requests** command. In order for the driver to show in the list, the system needs to try to enter standby first.

16. To change which output fader TotalKeyMix controls, open **config.ini** file in Notepad and edit **MidiChannel=1** and **MidiCC=7** using the following:

MIDI Channel 1, CC7: Main Fader	MIDI Channel 9, CC110: SPDIF L Fader
MIDI Channel 9, CC102: AN 1 Fader	MIDI Channel 9, CC111: SPDIF R Fader
MIDI Channel 9, CC103: AN 2 Fader	MIDI Channel 9, CC112: AS 1 Fader
MIDI Channel 9, CC104: AN 3 Fader	MIDI Channel 9, CC113: AS 2 Fader
MIDI Channel 9, CC105: AN 4 Fader	MIDI Channel 9, CC114: ADAT 3 Fader
MIDI Channel 9, CC106: AN 5 Fader	MIDI Channel 9, CC115: ADAT 4 Fader
MIDI Channel 9, CC107: AN 6 Fader	MIDI Channel 9, CC116: ADAT 5 Fader
MIDI Channel 9, CC108: AN 7 Fader	MIDI Channel 9, CC117: ADAT 6 Fader
MIDI Channel 9, CC109: AN 8 Fader	MIDI Channel 10, CC102: ADAT 7 Fader
	MIDI Channel 10, CC103: ADAT 8 Fader

17. The hotkeys used to control the volume up, volume down and mute can be configured in TotalKeyMix setup menu (step 12) and clicking in the corresponding field. By default the multimedia keys for volume up, volume down and mute are assigned. Ignore the letters shown in the menu as not all keys can be displayed correctly. The hotkeys can also be changed in the **config.ini** file. A list of keys recognized by AutoHotKey can be found here.

18. To adjust the Volume steps edit **VolumeStep=2** in **config.ini** file.

19. The following two additional settings are recommended for Windows 10 to ensure that the OS loads all drivers, services and programs correctly on startup and after standby:
    - Settings\Accounts\Sign-in options\Privacy -> turn off use my sign-in info to automatically finish setting up my device
    - Control Panel\Hardware and Sound\Power Options\Choose what the power buttons do -> disable turn on fast startup

The script source files are included in the source folders and can be compiled using AutoHotKey 1.0.48.05 or ANSI version of 1.1.*. Using compiler 1.1.* or newer might result in an .exe file being detected as a virus, so the included .exe files have been compiled using 1.0.48.05. The additional script file **general functions.ahk** must be in the same folder as TotalKeyMix_1.x.x.ahk files when compiling.

Additional credits go to TomB from the AutoHotKey forums for implementing the MIDI functions into AutoHotKey and Kip Chatterson (creator of KeyMce/GenMce) who helped Stephan with the script framework of the MIDI implementation. The Volume On-Screen-Display (OSD) was coded by Rajat. The original files provided by Stephan are included in the v.1.0.2 folder together with a compiled .exe and the web page where TotalKeyMix was first published converted to a .pdf.

Changes since v.1.0.2 (Petre Ikonomov):

1.2.3:
- Compiled using 1.1.33.10 version of AutoHotKey (ANSI). An .exe compiled using 1.0.48.05 compiler is included in case the new compiler incorrectly triggers virus detection.
- Created a larger icon included in the .exe file.

1.2.2:
- Reverted back to using 1.0.48.05 compiler as the .exe in v.1.2.1 was being detected as a virus.

1.2.1:
- Compiled using 1.1.33.02 version of AutoHotKey (ANSI).

1.2:
- Added instructions for Task Scheduler startup.

1.1:
- Added On-Screen-Display.
- Simplified the code for volume up/down.
- Modified the mute button to set the volume to 0, it no longer triggers Dim.
- Added more options in the config.ini file.
- Created a larger .ico file for higher DPI scaling.