



Windows Utility

System Requirements	2
Installation	3
Using the Utility	5
Bluetooth Settings	12
Change History	17

The content of this communication and/or document, including but not limited to images, specifications, designs, concepts and information is confidential and is not to be used for any purpose or disclosed to a third party without the express and written consent of Keymat Technology Ltd., Copyright 2018. All rights reserved.

System Requirements

The utility requires .NET framework to be installed on the PC and will communicate over the same USB connection but via the HID-HID data pipe channel, no special drivers are required.

Compatibility

Windows 11	✓
Windows 10	✓

The utility can be used to configure the product to

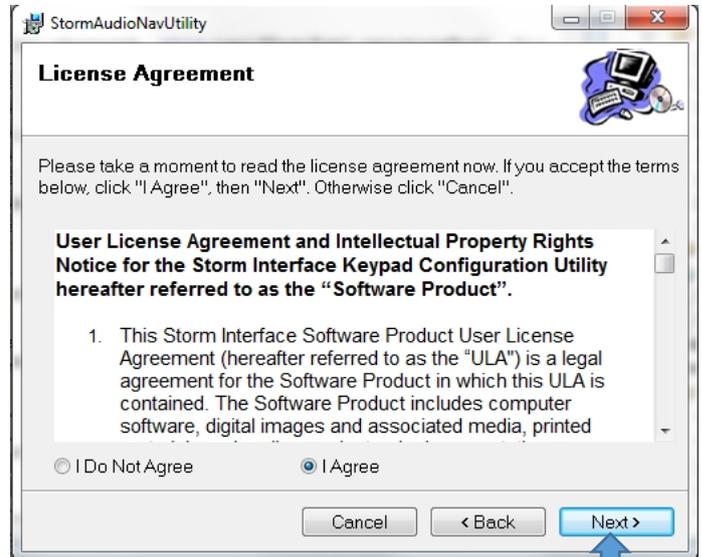
- Select Code Table
- LED brightness (0 to 9)
- Test AudioNav
- Create customised keypad table
- Configure Bluetooth settings
- Reset to factory default
- Load Firmware

Installing the Configuration Utility

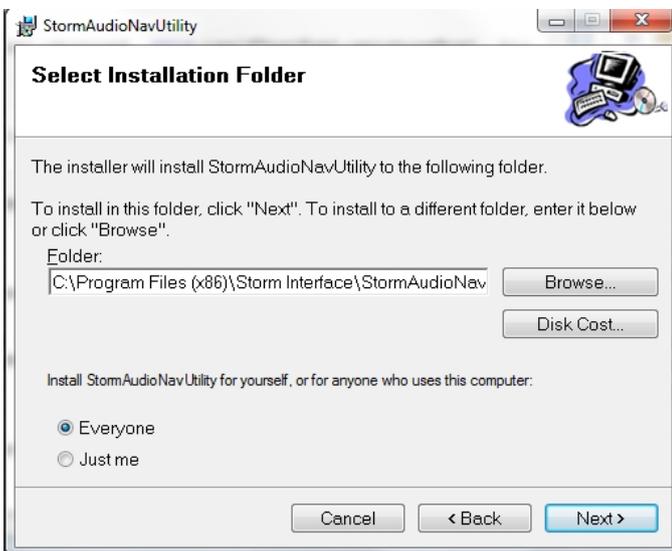
To install the Configuration Utility download from www.storm-interface.com/downloads, double click on the downloaded .exe file and the Setup Wizard will launch



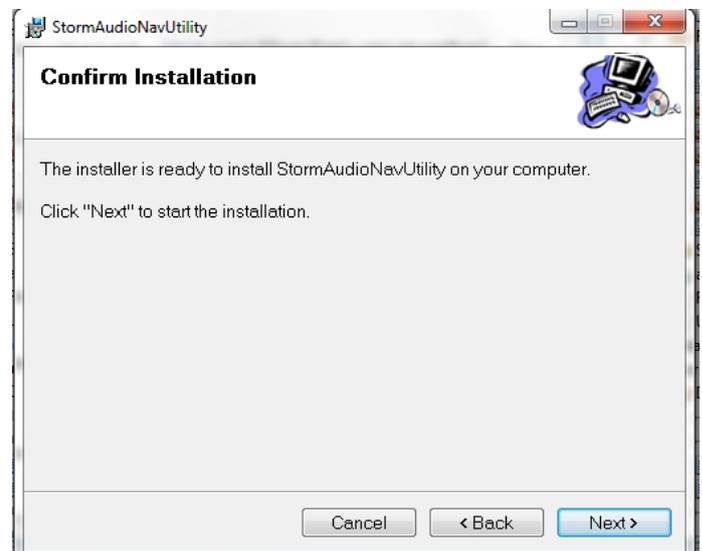
Click on "Next"



Select "I Agree" and Click on "Next"



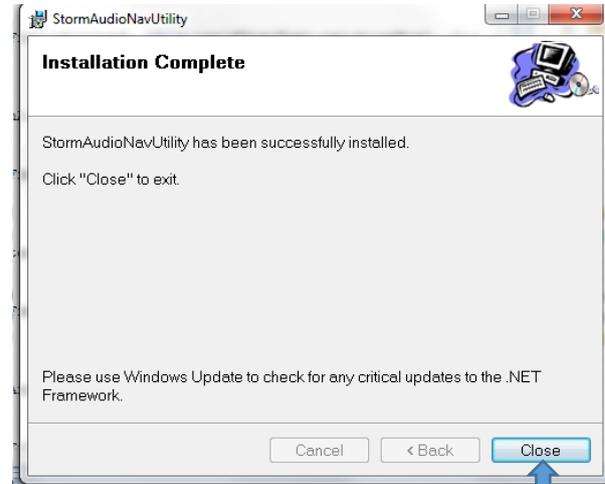
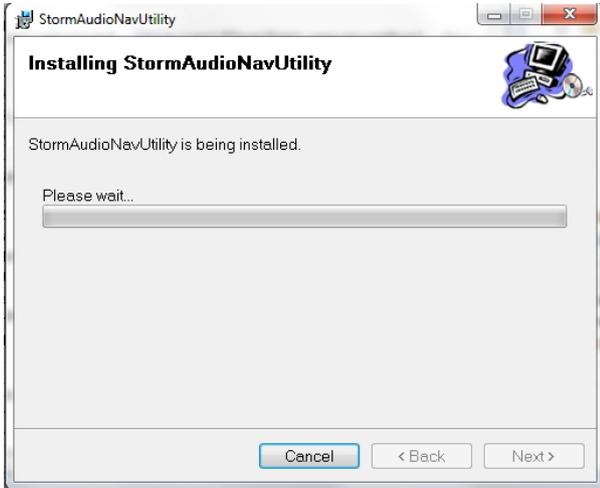
Select if you would like to install for just you or everyone and select location if you do not want to install at default location. Then click on "Next"



Click on "Next" to confirm.

The content of this communication and/or document, including but not limited to images, specifications, designs, concepts and information is confidential and is not to be used for any purpose or disclosed to a third party without the express and written consent of Keymat Technology Ltd., Copyright 2018. All rights reserved.

The “Disk Cost” shows available space at your chosen folder. The program requires 10MB of space.

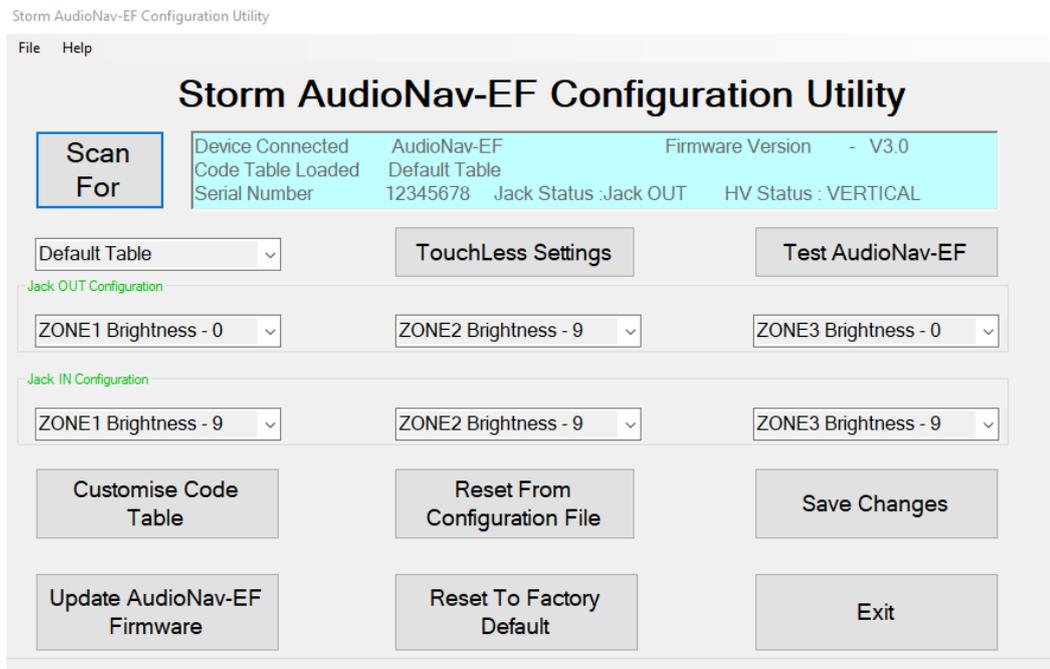


Click on “Close” for successful installation.

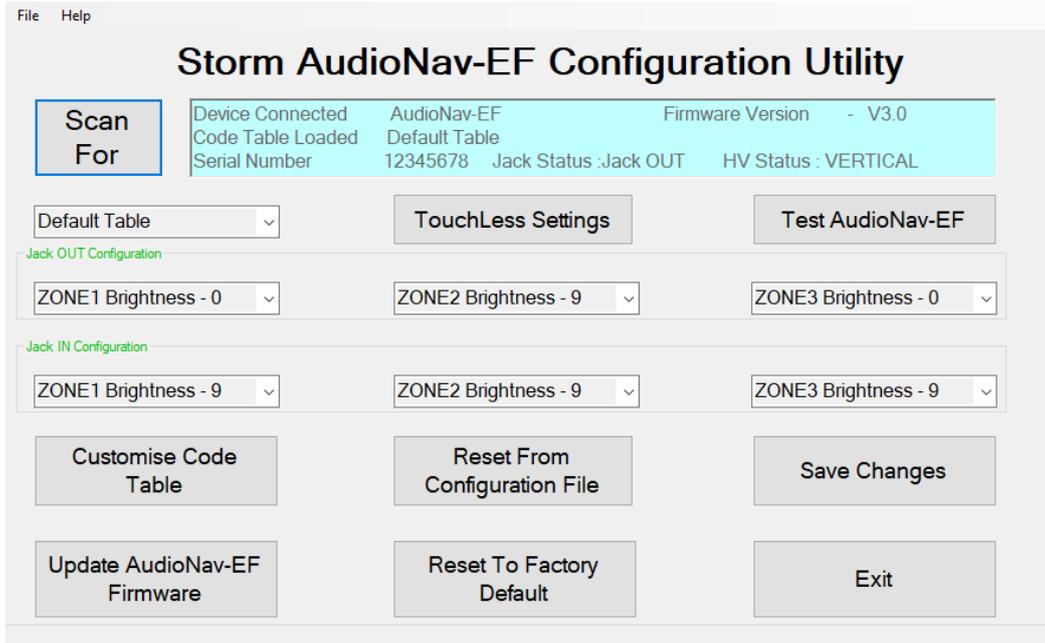
A shortcut will be installed on your desktop.



Double-click this to start the Utility and the following screen will appear. If an AudioNav EF device is connected it will be detected automatically and the details displayed in the blue panel at the top



The content of this communication and/or document, including but not limited to images, specifications, designs, concepts and information is confidential and is not to be used for any purpose or disclosed to a third party without the express and written consent of Keymat Technology Ltd., Copyright 2018. All rights reserved.



The screenshot shows the Storm AudioNav-EF Configuration Utility interface. At the top, there is a menu bar with 'File' and 'Help'. The main title is 'Storm AudioNav-EF Configuration Utility'. Below the title, there is a 'Scan For' button. To the right of this button is a status table with the following information:

Device Connected	AudioNav-EF	Firmware Version	- V3.0
Code Table Loaded	Default Table		
Serial Number	12345678	Jack Status	:Jack OUT
		HV Status	: VERTICAL

Below the status table, there are several configuration options and buttons:

- A 'Default Table' dropdown menu.
- A 'TouchLess Settings' button.
- A 'Test AudioNav-EF' button.
- A section for 'Jack OUT Configuration' with three dropdown menus for 'ZONE1 Brightness - 0', 'ZONE2 Brightness - 9', and 'ZONE3 Brightness - 0'.
- A section for 'Jack IN Configuration' with three dropdown menus for 'ZONE1 Brightness - 9', 'ZONE2 Brightness - 9', and 'ZONE3 Brightness - 9'.
- A 'Customise Code Table' button.
- A 'Reset From Configuration File' button.
- A 'Save Changes' button.
- An 'Update AudioNav-EF Firmware' button.
- A 'Reset To Factory Default' button.
- An 'Exit' button.

The following functions are available and will be described on the following pages :-

Select a Code table

Create a customised code table

Change the LED brightness

Test the AudioNav EF

Update the Firmware

Reset the AudioNav EF to factory defaults

Configure Bluetooth Touchless settings

Reset the AudioNav EF from a saved configuration

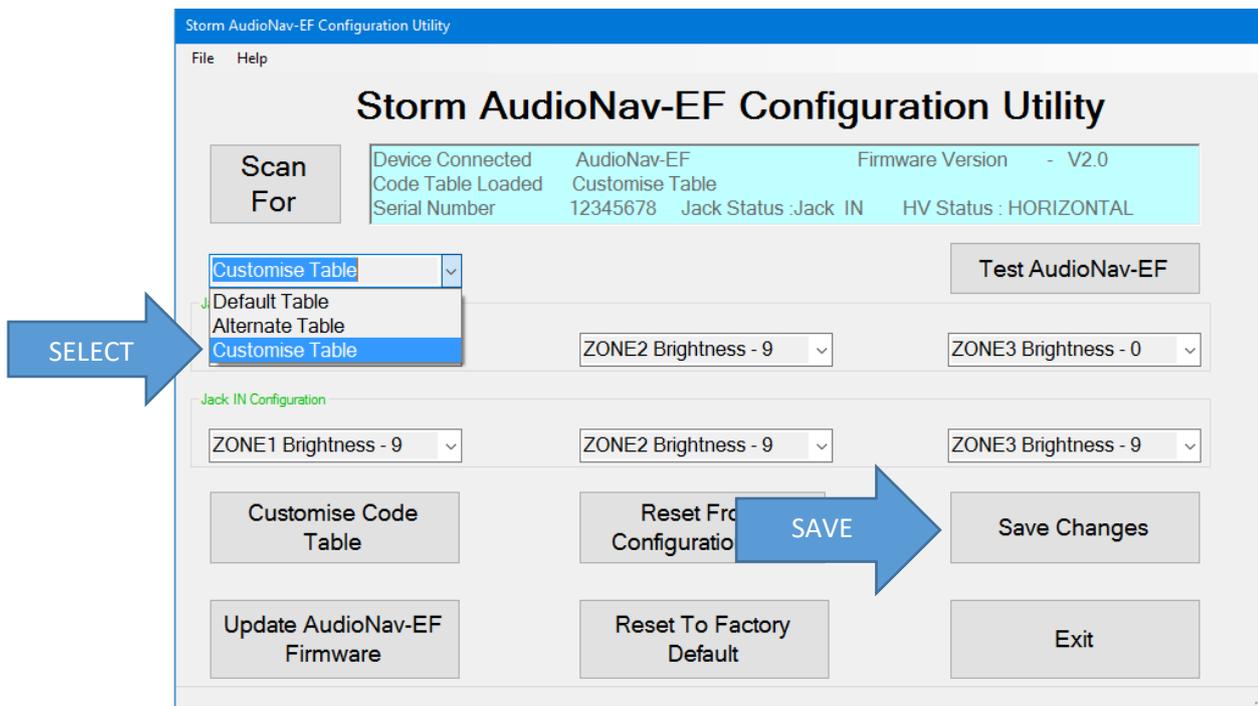
Select a Code Table

The user can select from three tables:

Function	FACTORY DEFAULT CODE TABLE		ALTERNATE CODE TABLE		CUSTOMISED CODE TABLE Set initially to the factory default values
	Hex	USB Description	Hex	USB Description	
Right	0x4F	Right Arrow			
Left	0x50	Left Arrow			
Down	0x51	Down Arrow			
Up	0x52	Up Arrow			
Select	0x28	Enter			
Jack IN	0x6A	F15			
Jack OUT	0x6B	F16			
Increase Volume 	01 02	Windows Multimedia Codes			
Decrease Volume 	01 04				
Increase Playback Speed 	0x72	F23			
Reduce Playback Speed 	0x73	F24			

Once a table has been selected then the keypad will hold that configuration unless it is disconnected.

Once the keypad has been disconnected that configuration will be lost unless you save the configuration in memory by clicking on "Save Changes"



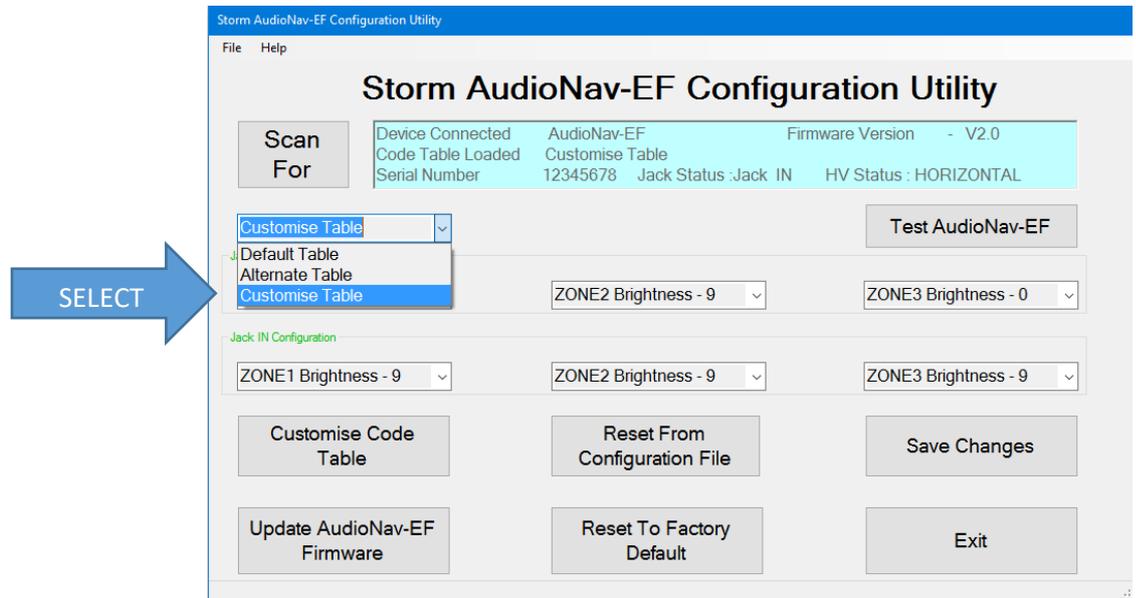
The content of this communication and/or document, including but not limited to images, specifications, designs, concepts and information is confidential and is not to be used for any purpose or disclosed to a third party without the express and written consent of Keymat Technology Ltd., Copyright 2018. All rights reserved.

Create a Custom Code Table

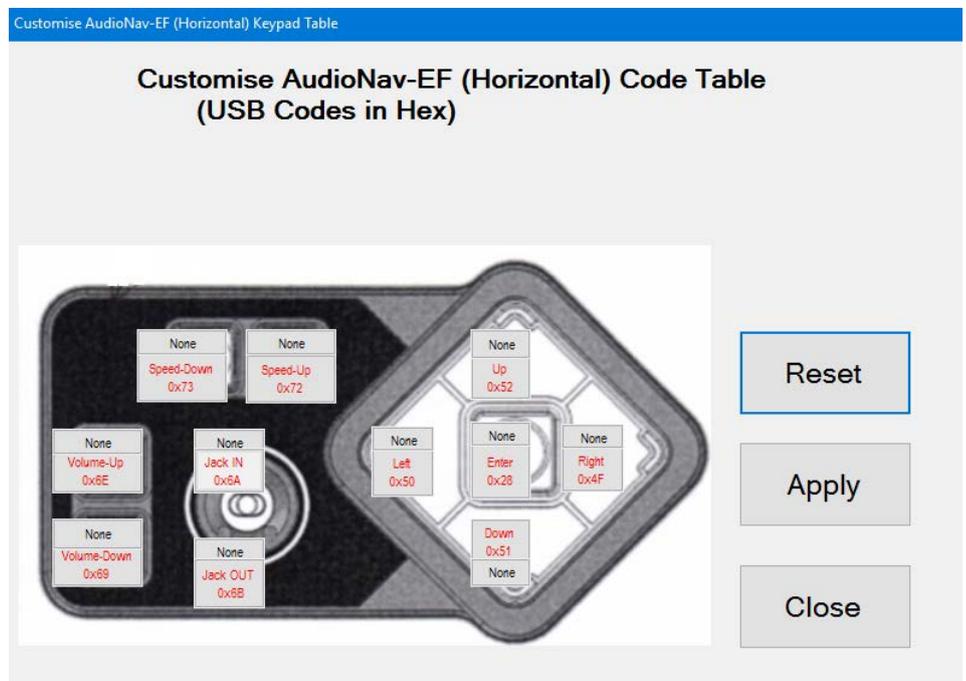
First select Customise Table

Note that Multimedia Control Codes (Vol Up / Down) are not available in Customised Table.

Please note: JACK IN/OUT and Horizontal/Vertical codes can also be customised.



Click on 'Customise Code table. The following will be displayed



The content of this communication and/or document, including but not limited to images, specifications, designs, concepts and information is confidential and is not to be used for any purpose or disclosed to a third party without the express and written consent of Keymat Technology Ltd., Copyright 2018. All rights reserved.

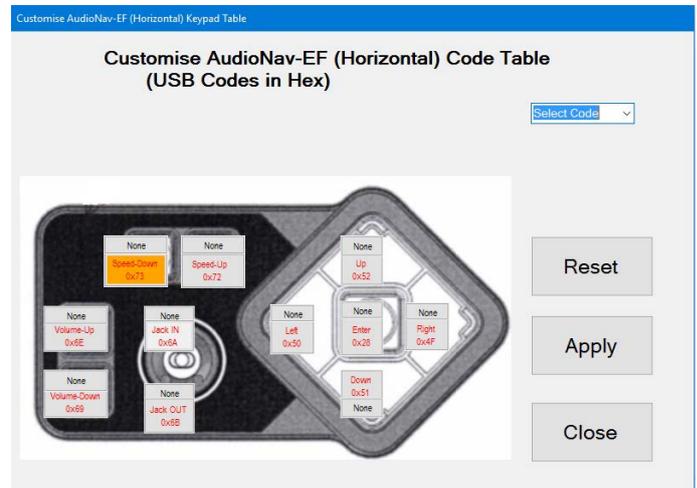
Choosing a USB Code

The current customised code table will be displayed from memory on the keypad.

Attached to each key is another button (“NONE”),
this shows the modifier for each key.

To customize a key, click on the key and
Key Code combo box will appear, with “Select Code”

The button colour will change to “Orange”



Now press on the down arrow on the combo box:
This will display all the codes that can be selected.

These codes are the ones defined by USB.org.

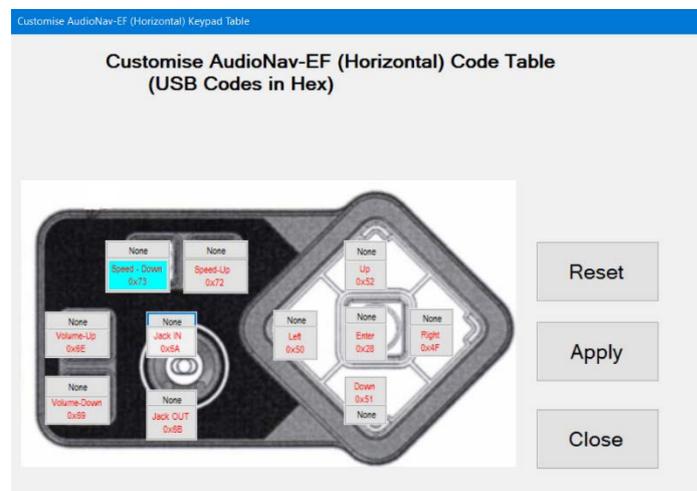
Once code is selected, the code will be displayed
on the selected button.



In this example I have selected “e” and code is represented by 0x08 and button colour will change to Aqua.

Press the “Apply” button and the code will be
sent to the AUDIONAV EF.

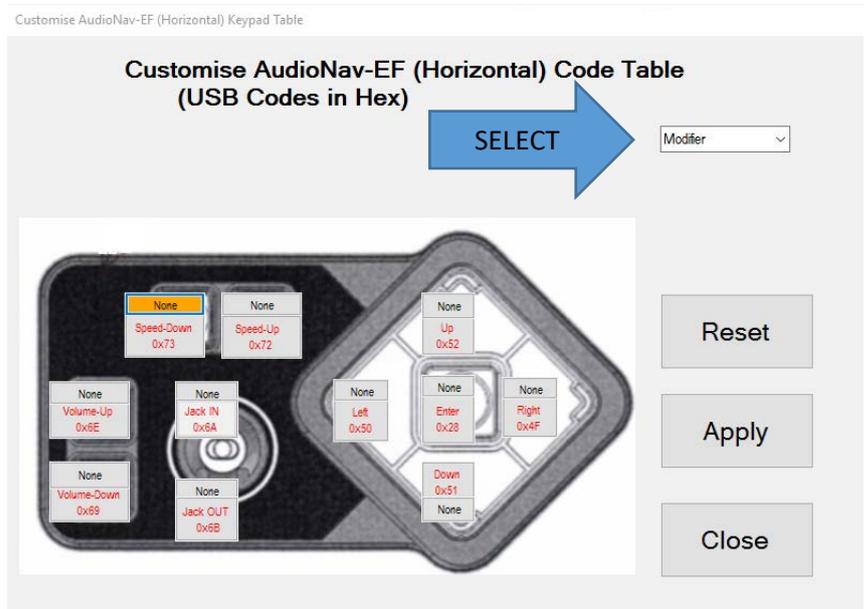
When you press key “Down” on keypad,
“e” will be sent to the relevant application.



The content of this communication and/or document, including but not limited to images, specifications, designs, concepts and information is confidential and is not to be used for any purpose or disclosed to a third party without the express and written consent of Keymat Technology Ltd., Copyright 2018. All rights reserved.

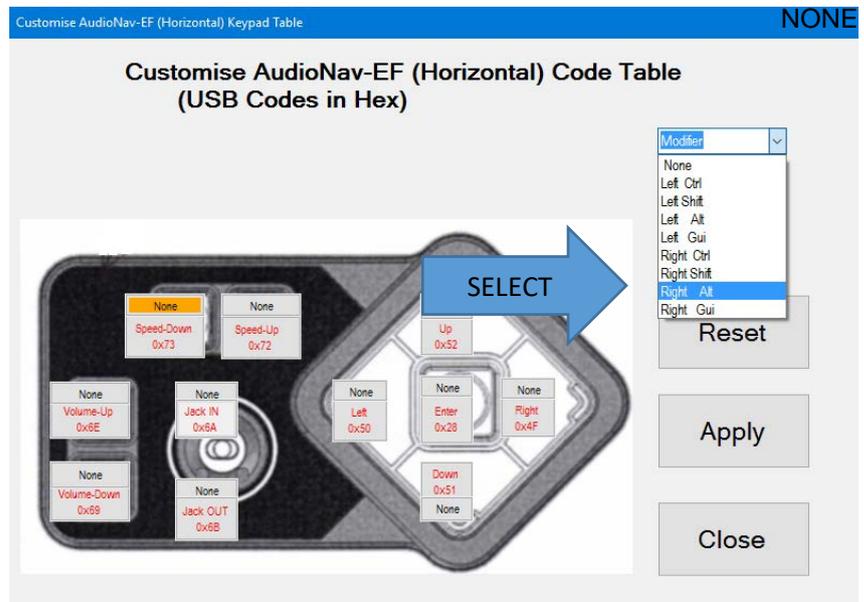
Adding a modifier

Now if you wanted a “E” (uppercase) then you need to add a SHIFT modifier for that key. Click on the modifier button for that key.



The background colour for modifier button will change to orange and modifier combo box will appear. Select down arrow key on modifier combo box and the following selection will be available:

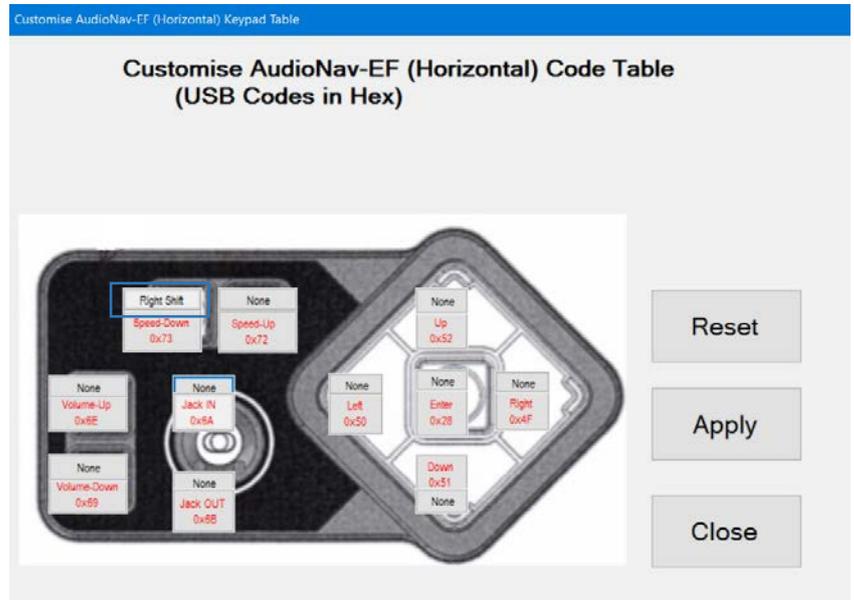
- L SHT – Left Shift
- L ALT – Left Alt
- L CTL – Left Ctrl
- L GUI – Left Gui
- R SHT – Right Shift
- R ALT – Right Alt
- R CTL – Right Ctrl
- R GUI – Right Gui



Select either L SHT or R SHT – I have selected R SHT.

The content of this communication and/or document, including but not limited to images, specifications, designs, concepts and information is confidential and is not to be used for any purpose or disclosed to a third party without the express and written consent of Keymat Technology Ltd., Copyright 2018. All rights reserved.

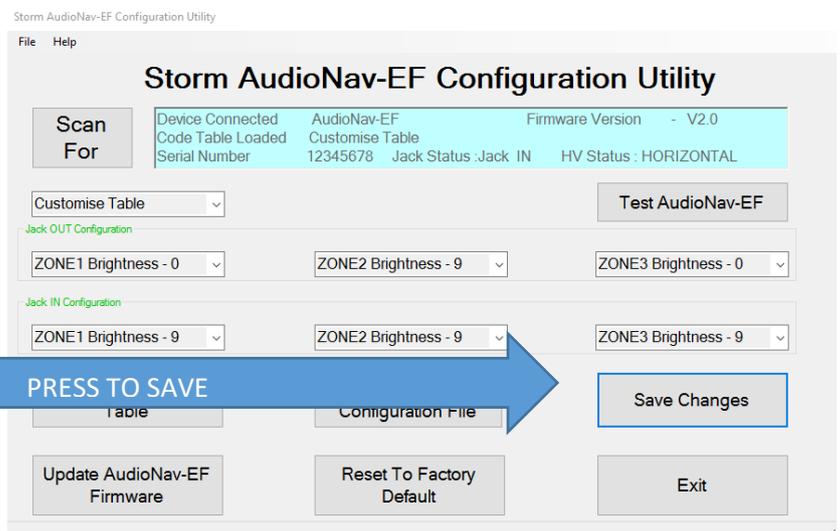
The R SHT modifier is now displayed on the button and background colour changed to grey. Now if you click on “Apply” and if successfully transferred then pressing “down” on keypad will display “E” (uppercase).



If you did not want the current setting then click on “Reset” then all buttons will revert to original coding and then click on “apply” to send this coding to AudioNav EF keypad.

“Close” will exit the customize form and return back to main screen.

Press “Save Changes”

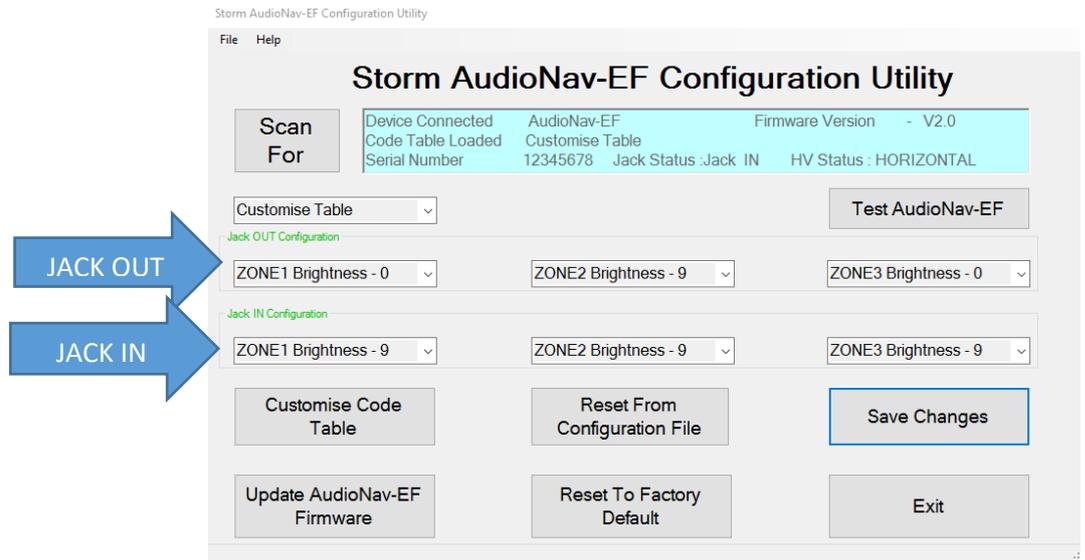


The content of this communication and/or document, including but not limited to images, specifications, designs, concepts and information is confidential and is not to be used for any purpose or disclosed to a third party without the express and written consent of Keymat Technology Ltd., Copyright 2018. All rights reserved.

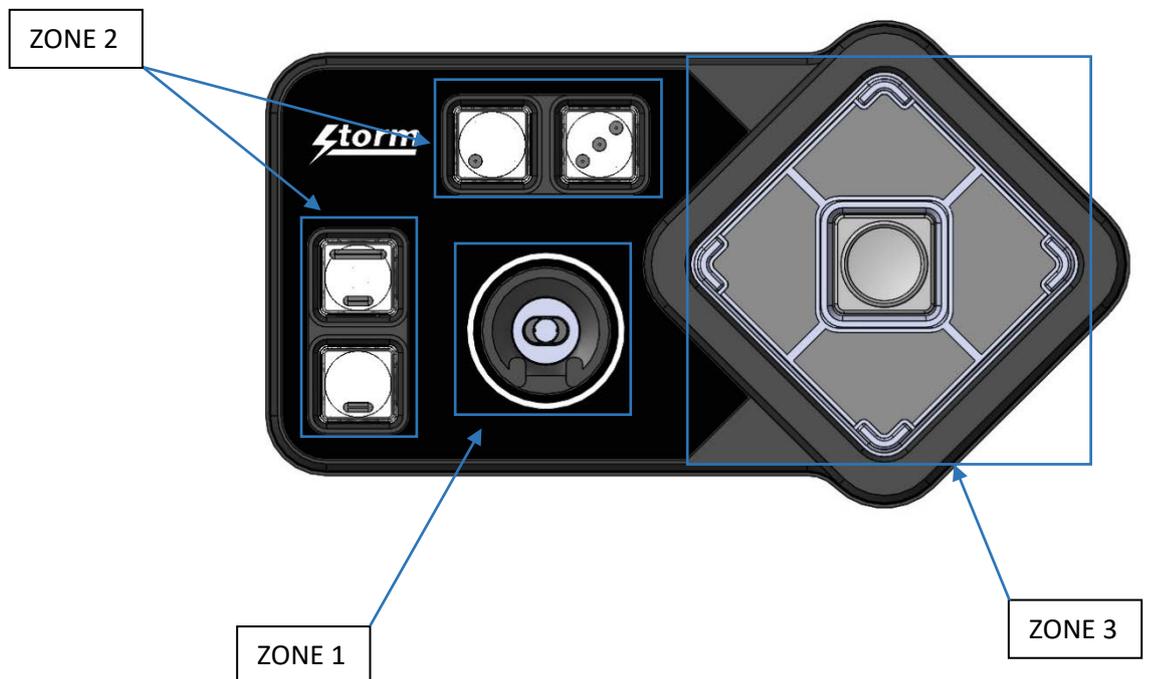
LED Brightness

This will set the brightness of the LEDs. The selection is from 0 to 9.

LEDs in Audio Nav EF can be configured differently when the jack is in or out



In addition, there are 3 separate lighting zones



The content of this communication and/or document, including but not limited to images, specifications, designs, concepts and information is confidential and is not to be used for any purpose or disclosed to a third party without the express and written consent of Keymat Technology Ltd., Copyright 2018. All rights reserved.

Touchless Settings

If the AudioNav includes Bluetooth then with the utility you can :-

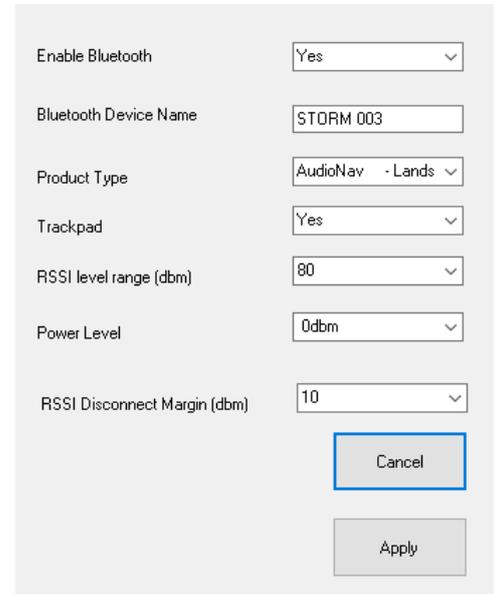
- Enable / disable bluetooth functionality
- Rename the device – this name appears when connecting.
- Product Type can be set to Landscape / Portrait
- Enable / disable Trackpad in the Touchless-CX app.
- Adjust the Bluetooth operation range

The Bluetooth range is set by a combination of

- Transmit power level (from the AudioNav)
- RSSI level (as seen in the Touchless-CX app)
- Signal strength drop (as seen in the Touchless-CX app).

The signal strength is monitored by the Touchless-CX app :-

- It looks for Storm Bluetooth devices
- If it detects one and the RSSI level is greater than the level set then it will connect
- It records the initial signal strength on connection
- The signal strength will decrease when the user walks away from the kiosk
- When the signal strength drops by the figure set in RSSI Disconnect margin and remains low for 10 seconds then the app will automatically disconnect.



The screenshot shows the following settings in the AudioNav EF Config Utility:

- Enable Bluetooth: Yes
- Bluetooth Device Name: STORM 003
- Product Type: AudioNav - Lands
- Trackpad: Yes
- RSSI level range (dbm): 80
- Power Level: 0dbm
- RSSI Disconnect Margin (dbm): 10

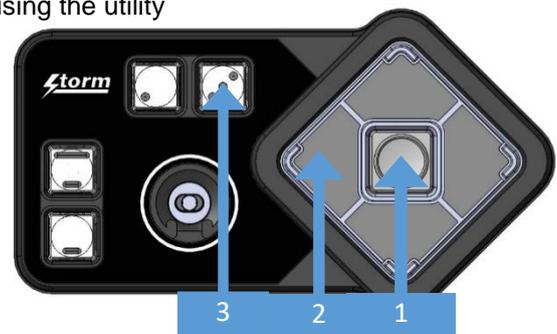
Buttons for 'Cancel' and 'Apply' are visible at the bottom right of the settings panel.

The factory default settings give an effective range of 1.5m. They are as follows

RSSI level range (for initial connection)	75 dbm	If you increase this figure (e.g to 85 dbm) the range will increase
Transmit Power level	1.5 dbm	If you increase this figure the range will increase
RSSI Disconnect Margin	5 dbm	If you increase this figure then you will need to move further away from the kiosk to initiate automatic disconnection

If Bluetooth has been disabled then you can re-enable it without using the utility

- Press and hold for 5 sec the 3 buttons shown (Press and hold 1, then also 2, then also 3)
- The LEDs will flash to confirm Bluetooth is enabled

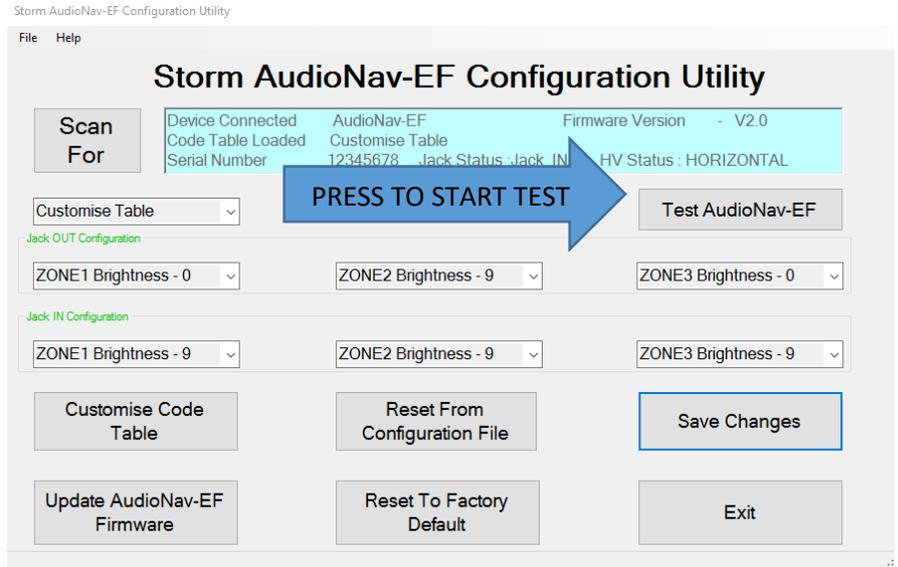


The content of this communication and/or document, including but not limited to images, specifications, designs, concepts and information is confidential and is not to be used for any purpose or disclosed to a third party without the express and written consent of Keymat Technology Ltd., Copyright 2018. All rights reserved.

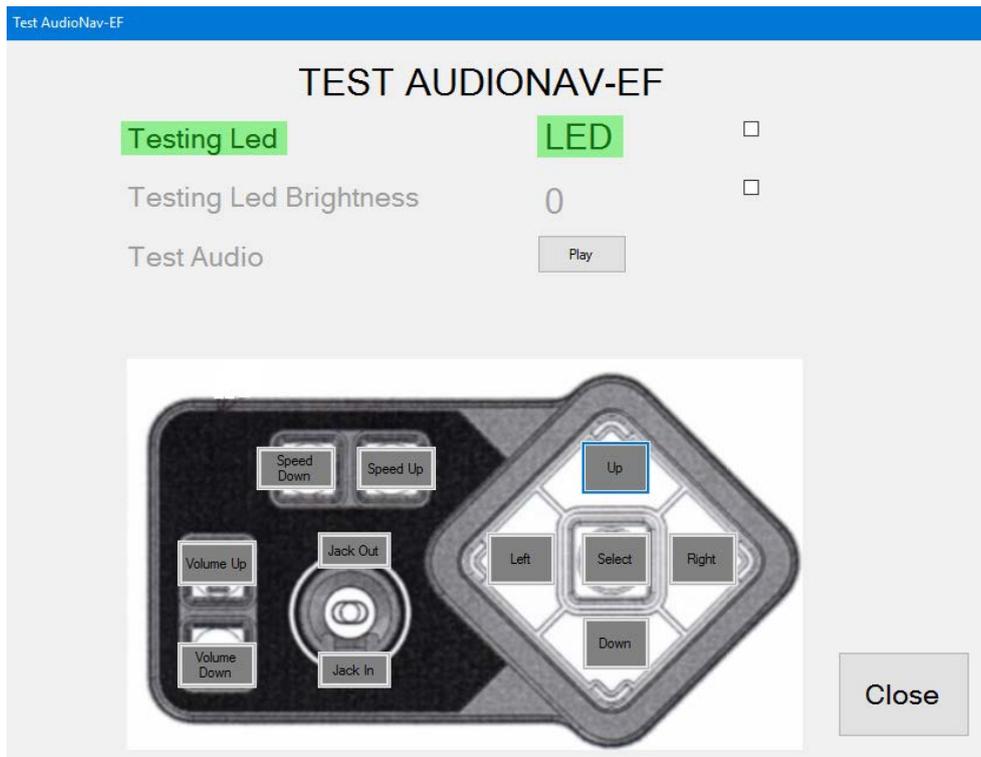
Test the AudioNav

This will test all the functions :-.

- illumination dimming levels
- Key test
- Jack in/out
- H/V Switch
- Audio test

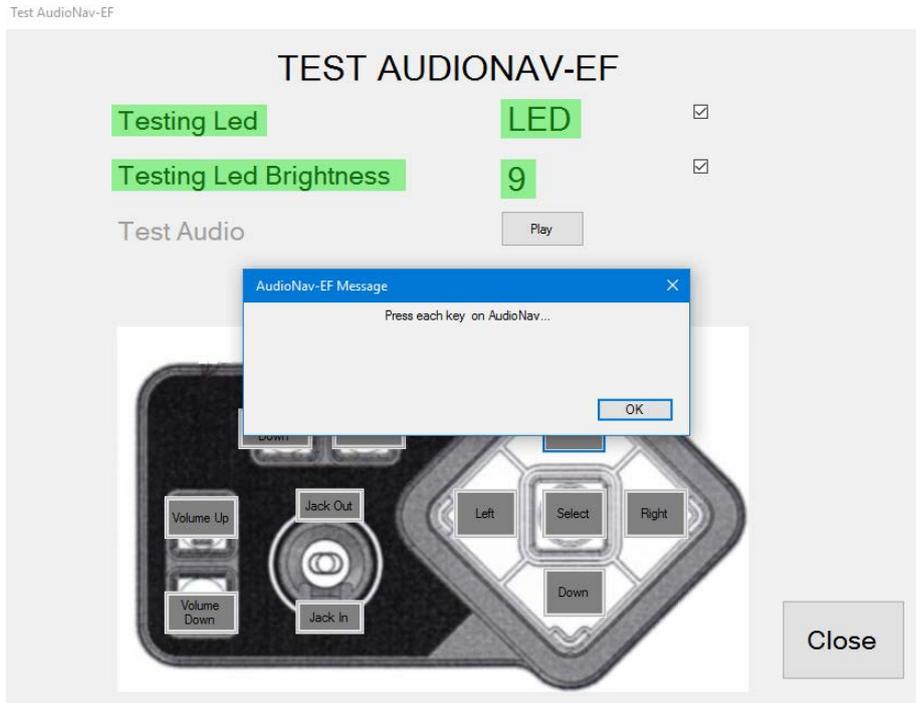


First test the audio (make sure it is set as the default audio device).

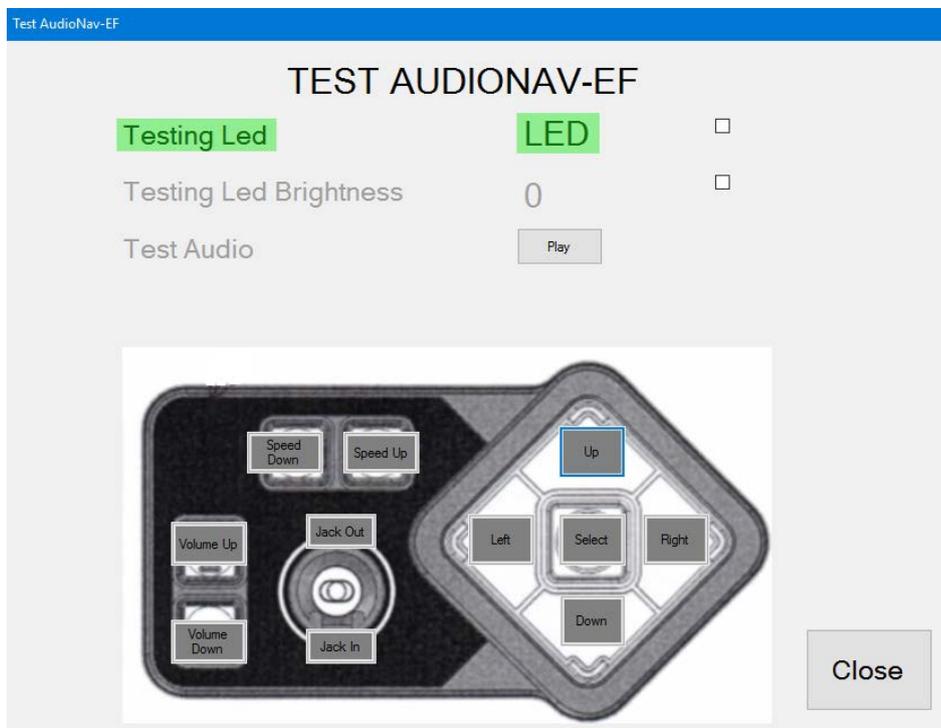


The content of this communication and/or document, including but not limited to images, specifications, designs, concepts and information is confidential and is not to be used for any purpose or disclosed to a third party without the express and written consent of Keymat Technology Ltd., Copyright 2018. All rights reserved.

Now press each key on keypad, each key will light up on screen.

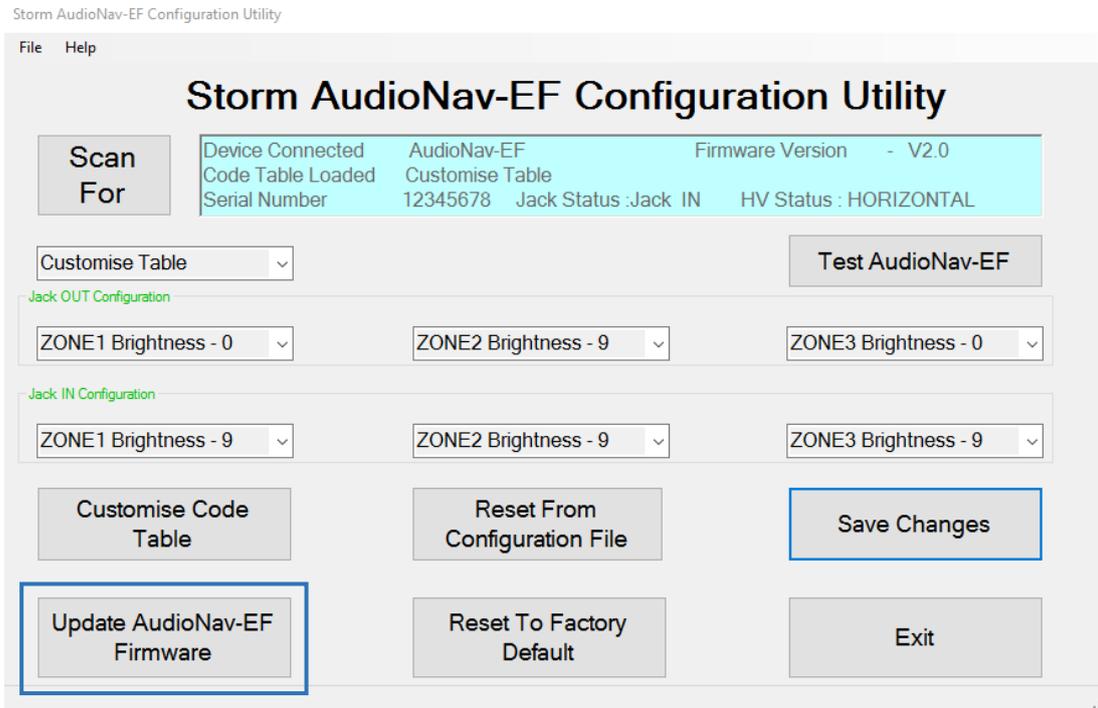


Press close when finished.

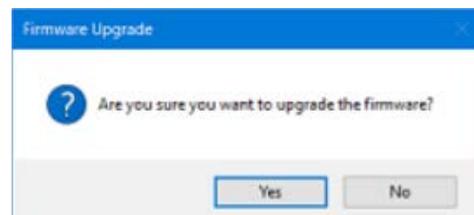


The content of this communication and/or document, including but not limited to images, specifications, designs, concepts and information is confidential and is not to be used for any purpose or disclosed to a third party without the express and written consent of Keymat Technology Ltd., Copyright 2018. All rights reserved.

Update the Firmware



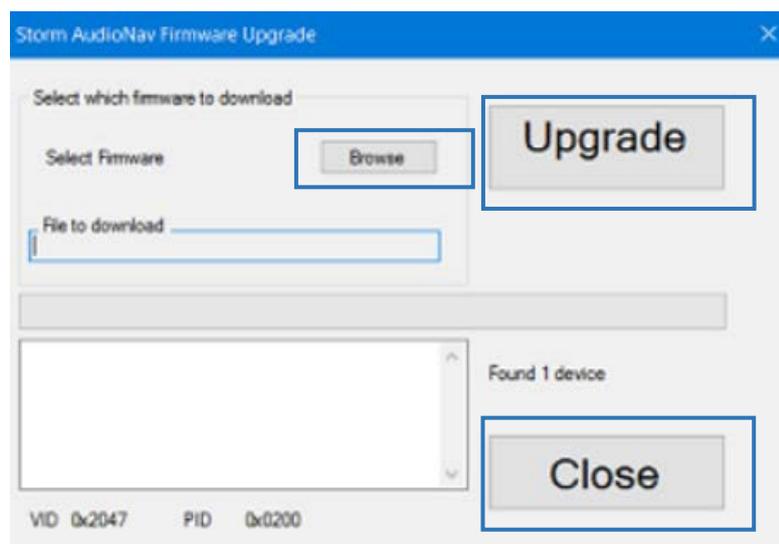
Press YES



BROWSE for the file

press UPGRADE

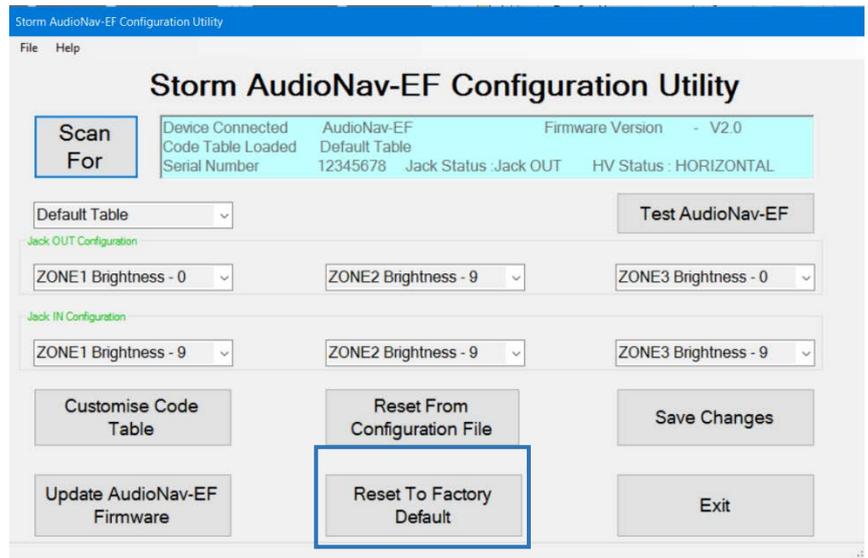
and CLOSE



The content of this communication and/or document, including but not limited to images, specifications, designs, concepts and information is confidential and is not to be used for any purpose or disclosed to a third party without the express and written consent of Keymat Technology Ltd., Copyright 2018. All rights reserved.

Reset the AudioNav EF to Factory Defaults

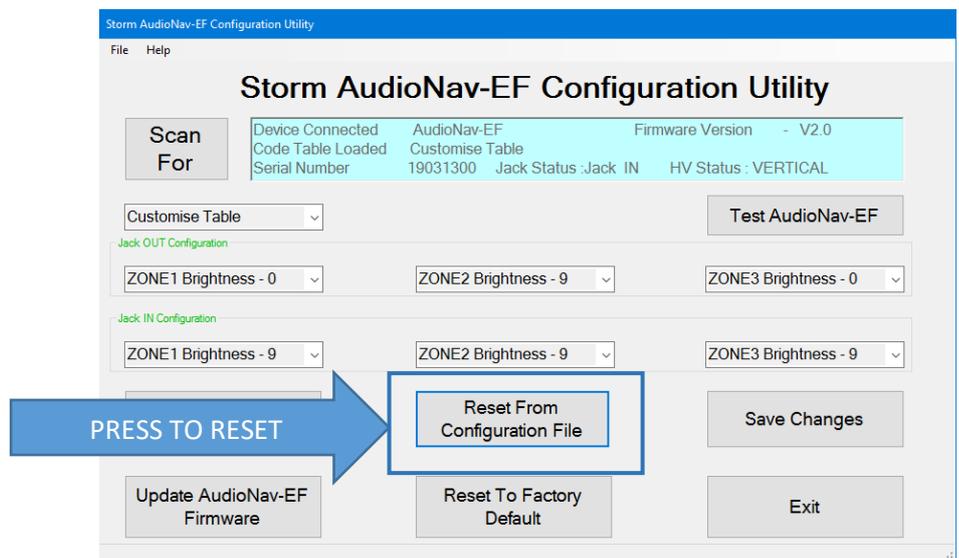
Clicking on “Factory Default” will reset the keypad to factory settings
Code Table – Default
LED brightness – 9



Reset the AudioNav from a saved Configuration

You can load the saved settings onto another AudioNav.

This is useful (for example) you have set up a customised table and you wish to load this table on a number of devices



Press to reset to load the saved settings from the previous device onto the device that is currently connected

Change History

Instructions for Config Utility	<u>Date</u>	<u>Version</u>	<u>Details</u>
	15 Aug 24	1.0	First release (split out from Utility + API doc)

Configuration Utility	<u>Date</u>	<u>Version</u>	<u>Details</u>
	14 Jun 19	1.0	First Release
	06 Jan 21	2.0	Bug fix – added missing dll files & microphone test
	01 Feb 22	2.1	Update user license agreement
	12 Sep 22	4.0	BLE functions added
	06 Mar 24	6.0	Added support for Volume UP/Volume Down in customise code