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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	\checkmark
Windows 10	\checkmark

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 <u>www.storm-interface.com/downloads</u>, double click on the downloaded .exe file and the Setup Wizard will launch

😸 StormAudioNavUtility		闄 St	ormAudioNavUtility			x
Welcome to the StormAudioNavUtility Setup Wizard		Li	cense Agreemen	t		
The installer will guide you through the steps required to install StormAudioNavUtility on your computer.		Ple	ase take a moment to r ow, click "I Agree", ther	read the license agreement now n "Next". Otherwise click "Cance	 If you accept the t el". 	terms
WARNING: This computer program is protected by copyright law international treaties. Unauthorized duplication or distribution of t any portion of it, may result in severe civil or criminal penalties, a prosecuted to the maximum extent possible under the law. Cancel < Back	v and his program, or nd will be Next >	C C C	 Iser License Agree Iotice for the Storm ereafter referred to 1. This Storm Intr Agreement (he agreement for contained. The software, digita I Do Not Agree 	ment and Intellectual Prop Interface Keypad Configu o as the "Software Product erface Software Product Use ereafter referred to as the "UL the Software Product in whice a Software Product includes of al images and associated me I Agree Cancel < Be	erty Rights ration Utility t". r License A") is a legal th this ULA is computer tota, printed	

Click on "Next"

Select "I Agree" and Click on "Next"

😸 StormAudioNavUtility	🙀 StormAudioNavUtility
Select Installation Folder	Confirm Installation
The installer will install StormAudioNavUtility to the following folder.	The installer is ready to install StormAudioNavUtility on your computer.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse". Eolder: C:\Program Files (x86)\Storm Interface\StormAudioNav Disk Cost Install StomAudioNavUtility for yourself, or for anyone who uses this computer:	Click "Next" to start the installation.
Everyone	
© Just me	
Cancel < Back Next>	Cancel Cancel Next>
Select if you would like to install for just you or	

Click on "Next" to confirm.

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everyone and select location if you do not want

to install at default location. Then click on "Next"



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

B StormAudioNavUtility	udioNavUtility	
	,	
StormAudioNavUtility is	being installed.	
Please wait		
	Cancel < B	ack Next>



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

Storm AudioNav-EF Configuration Utility		
File Help		
Storm Au	udioNav-EF Configur	ration Utility
Scan Device Connecte For Code Table Load Serial Number	d AudioNav-EF Firm ed Default Table 12345678 Jack Status :Jack OUT	ware Version - V3.0 HV Status : VERTICAL
Default Table	TouchLess Settings	Test AudioNav-EF
ZONE1 Brightness - 0 ~	ZONE2 Brightness - 9 v	ZONE3 Brightness - 0 v
ZONE1 Brightness - 9 V	ZONE2 Brightness - 9 v	ZONE3 Brightness - 9 v
Customise Code Table	Reset From Configuration File	Save Changes
Update AudioNav-EF Firmware	Reset To Factory Default	Exit

ntertace			3
Ile Help Storm A	udioNav-EF Configu	ration Utility	
Scan For Device Conne Code Table Lo Serial Number	cted AudioNav-EF Fir aded Default Table 12345678 Jack Status :Jack OUT	mware Version - V3.0 HV Status : VERTICAL	
Default Table	TouchLess Settings	Test AudioNav-EF	
ZONE1 Brightness - 0 v	ZONE2 Brightness - 9 v	ZONE3 Brightness - 0	·
Jack IN Configuration ZONE1 Brightness - 9	ZONE2 Brightness - 9 ~	ZONE3 Brightness - 9	·
Customise Code	Reset From	Save Changes	

Default

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

Select a Code table

Create a customised code table

Firmware

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

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Select a Code Table

The user can select from three tables:

	FAC	TORY DEFAULT		ALTERNATE CODE TABLE	CUSTOMISED CODE TABLE
Function	Hex	USB Description	Hex	USB Description	Set initially to the factory default
Right	0x4F	Right Arrow			values
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			
Decrease Volume	01 04	Multimedia Codes			
Increase Playback Speed	0x72	F23			
Reduce Plavback 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"

	Storm AudioNav-EF Configuration Utility	
	File Help	
	Storm Aud	ioNav-EF Configuration Utility
	Scan For Device Connected Code Table Loaded Serial Number	AudioNav-EF Firmware Version - V2.0 Customise Table 12345678 Jack Status : Jack IN HV Status : HORIZONTAL
	Customise Table	Test AudioNav-EF
СТ	Alternate Table Customise Table	ZONE2 Brightness - 9 v
	Jack IN Configuration	
	ZONE1 Brightness - 9 v	ZONE2 Brightness - 9 V
	Customise Code Table	Reset Fro SAVE Save Changes
	Lindete AudioNey EE	Reset To Factory



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.

	Storm AudioNav-EF Configuration Utility		
	File Help		
	Storm Aud	ioNav-EF Configu	ration Utility
	Scan For Device Connected Code Table Loaded Serial Number	AudioNav-EF Firm Customise Table 12345678 Jack Status :Jack IN	nware Version - V2.0 HV Status : HORIZONTAL
	Customise Table		Test AudioNav-EF
SELECT	Alternate Table Customise Table Jack IN Configuration	ZONE2 Brightness - 9 v	ZONE3 Brightness - 0 v
	ZONE1 Brightness - 9 v	ZONE2 Brightness - 9 v	ZONE3 Brightness - 9 v
	Customise Code Table	Reset From Configuration File	Save Changes
	Update AudioNav-EF Firmware	Reset To Factory Default	Exit

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





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"

 Image: Constant of Cons

Customise AudioNav-EF (Horizontal) Code Table

(USB Codes in Hex)

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.

Customise AudioNav-EF (Horizontal) Keynad Table



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0x00 j 0x00 j 0x00 k 0x07 l 0x10 m 0x11 n 0x12 o 0x12 o 0x13 p 0x14 q 0x15 r 0x16 s 0x17 t 0x16 s 0x17 t 0x18 w 0x18 w 0x18 x



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.

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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.

	Storm AudioNav-EF Configuration Utility	
	File Help	
	Storm Aud	ioNav-EF Configuration Utility
Press "Save Changes"	Scan Device Connected For Code Table Loaded Serial Number	AudioNav-EF Firmware Version - V2.0 Customise Table 12345678 Jack Status :Jack IN HV Status : HORIZONTAL
	Customise Table Jack OUT Configuration	Test AudioNav-EF
	ZONE1 Brightness - 0 v	ZONE2 Brightness - 9 v ZONE3 Brightness - 0 v
	Jack IN Configuration	
	ZONE1 Brightness - 9 🗸	ZONE2 Brightness - 9 V ZONE3 Brightness - 9 V
	PRESS TO SAVE	Save Changes
	I able	
	Update AudioNav-EF Firmware	Reset To Factory Default



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





AudioNav EF Config Utility

Yes

Yes

80

Odbm

10

STORM 003

AudioNav - Lands 🗸

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Cancel

Apply

Enable Bluetooth

Product Type

Trackpad

Power Level

Bluetooth Device Name

RSSI level range (dbm)

RSSI Disconnect Margin (dbm)

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

RSSI level range (for initia	l 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





Test the AudioNav

This will test all the functions :-.

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

orm AudioNav-EF Configuration Utility		
Storm A	udioNav-EF Configu	ration Utility
Scan For Device Connect Code Table Loa Serial Number	ed AudioNav-EF Firr ded Customise Table 12345678 Jack Status Jack IN	nware Version - V2.0 HV Status : HORIZONTAL
Customise Table	PRESS TO START TEST	Test AudioNav-EF
ZONE1 Brightness - 0	ZONE2 Brightness - 9 v	ZONE3 Brightness - 0 v
ZONE1 Brightness - 9	ZONE2 Brightness - 9 v	ZONE3 Brightness - 9 v
Customise Code Table	Reset From Configuration File	Save Changes
Update AudioNav-EF Firmware	Reset To Factory Default	Exit

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

Fest AudioNav-EF				
TEST AUDIONAV-EF				
Testing Led	LED			
Testing Led Brightness	0			
Test Audio	Play			
Speed Down Development Volume Up Volume Down Development Jack Out Down Development Jack Nut Jack Nut	Let Select Down	Rgt	Close	



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



Press close when finished.





Update the Firmware

For	Device Connected Code Table Loade Serial Number	J AudioNav-EF F 3d Customise Table 12345678 Jack Status :Jack IN	irmware Version - V2.0 HV Status : HORIZONTAL
Customise T	able 🗸		Test AudioNav-EF
ZONE1 Brigh	ntness - 0 v	ZONE2 Brightness - 9 v	ZONE3 Brightness - 0
Jack IN Configuration	1		
ZONE1 Brigh	ntness - 9 🗸 🗸	ZONE2 Brightness - 9 v	ZONE3 Brightness - 9
Custom Ta	nise Code able	Reset From Configuration File	Save Changes
Update Ar Firm	udioNav-EF nware	Reset To Factory Default	Exit
			Yes No
			and the second sec
	Sto	rm AudioNav Firmware Upgrade	
BROWSE for the file	Sto Sto	rm AudioNav Firmware Upgrade ielect which firmware to download	L In ave de
BROWSE for the file press UPGRADE	Sto	orm AudioNav Firmware Upgrade ielect which firmware to download Select Firmware	•• Upgrade
BROWSE for the file press UPGRADE and CLOSE	Sto Sto	vm AudioNav Firmware Upgrade Select which firmware to download Select Firmware Brow	•• Upgrade
BROWSE for the file press UPGRADE and CLOSE	Sic	vm AudioNav Firmware Upgrade Select which firmware to download Select Firmware Brow File to download	Tound 1 device



Reset the AudioNav EF to Factory Defaults

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

riek.	Storm Aud	ioNov EE Configur	ation Utility
	Storm Aud	ionav-Li Connigui	ation Othity
Scan For	Device Connected Code Table Loaded Serial Number	AudioNav-EF Firm Default Table 12345678 Jack Status : Jack OUT	ware Version - V2.0 HV Status : HORIZONTAL
Default Table	~		Test AudioNav-EF
ZONE1 Brighti	ness - 0 🗸	ZONE2 Brightness - 9 V	ZONE3 Brightness - 0
CONE1 Bright	ness - 9 🗸	ZONE2 Brightness - 9	ZONE3 Brightness - 9
Customis Tab	se Code ble	Reset From Configuration File	Save Changes
Update Au	dioNav-EF	Reset To Factory	Exit

Reset the AudioNav from a saved Configuration





Change History

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

Configuration Utility	Date	Version	Details
	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