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# Using the NavPad Windows Utility

Note that there are 2 Windows Utility packages available for download:

- Standard NavPad
- Illuminated NavPad

Please ensure you use the correct one as shown below

If any other keypad utility software is installed (e.g EZ-Key Utility) then you should un-install that before you start.

Non illuminated NavPad utility	To be used with the following part numbers:
	EZ08-22301
	EZ08-22200
	EZ06-23001
	EZ08-23001
	EZ08-23200
Illuminated NavPad utility	To be used for the following part numbers:
	EZ06-43001
	EZ08-43001
	EZ08-43200

# **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.

## Compatability

Windows 11	✓
Windows 10	$\checkmark$

The utility can be used to configure the product for:

- LED On/Off
- LED brightness (0 to 9)
- Buzzer On/Off
- Buzzer Duration (<sup>1</sup>/<sub>4</sub> to 2 <sup>1</sup>/<sub>4</sub> seconds)
- Load customised keypad table
- Write default values from volatile memory to flash
- Reset to factory default
- Load Firmware

Note that **non-audio versions** also support multiple key press combinations.



## Installing the Utility

To install click on the setup.exe (Windows installer package) and follow instructions below:



Click on "Next"

∰ StormNav-Pad™Utility			_		х
License Agreement					<b>1</b> 0000
Please take a moment to read the licen: Agree'', then ''Next''. Otherwise click ''C	se agreement now. If j Cancel''.	you accept the	terms be	low, click '	1
User License Agreement Notice for the Storm Inte hereafter referred to as t	and Intellectu rface Keypad ( the "Software	al Property Configurat Product".	/ Righ ion Ut	ts ility	^
<ol> <li>This Storm Interface Agreement (hereaft agreement for the S contained. The Soft software, digital image</li> </ol>	e Software Proc er referred to as Software Produc ware Product in ages and assoc	luct User Li the "ULA") t in which the cludes con iated media	cense is a le nis UL nputer , printe	gal Ais ed	Ŷ
● I Do Not Agree	◯ I Agree				
	Cancel	< Back		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"

StormNav-Pad™Utility			-		
Select Installation Folde	r				
The installer will install StormNav-Pad <b>I</b> Util	ity to the following fol	der.			
To install in this folder, click "Next". To in	stall to a different fold	der, enter it be	low or	click "Brow	se''
<u>F</u> older:					
C:\Program Files (x86)\Storm Interface	e\StormNav-Pad <b>j</b> Utili	ty\		Browse	
				Disk Cost	,
Install StomNav-Pad <sup>™</sup> Utility for yourse	lf, or for anyone who	uses this com	puter:		
Everyone					
⊖ Just me					
	Cancel	< Back		Next	>
🖁 StormNav-Pad™Utility			_		)
Confirm Installation					7
The installer is ready to install CharmMay I	Padil Itility on your con	mutor			
Click "Nevt" to start the installation	-autorility on your cor	nputer.			
	Cancel	/ Rack		Neuts	
	Caller	A Dack	_	INCAU /	, 
∰ StormNav-Pad™Utility			_		
Installation Complete					7
Installation complete					
StormNav-Padil Itility has been successi	ully installed				
Click "Close" to exit					
Please use Windows Update to check f	or any critical updates	s to the .NET F	ramev	vork.	
Please use Windows Update to check f	or any critical updates	s to the .NET F	ramev	vork.	

Click on "Next" and installation process will start

Click on close when complete.

A shortcut will be installed on the Desktop

< Back

Cancel

Close



Double Click on the Shortcut to start and it will display the form below. Connect the NavPad to a USB port.

Note: Before loading the form it initially detects the NavPad<sup>™</sup>+ audio using the VID/PID and if found it sends a device status message. If all successful, then all the buttons are enabled. If not, then they will all be disabled except for "Scan" and "Exit

Storm Nav-Pad™ Illuminated Configuration Utility		– 🗆 X	_
File Help			
Storm Nav-Pad™	Illuminated Configu	ration Utility	
Scan         Device Connected         -           For         Keypad Selected         -         -           Serial Number         -         -         -	Nav-Pad™ Firmware Version - 3Way Keypad Code Table Loaded - 12345678	V1.0 Default Table	Available only with
Default Table ~	LED Brightness - 6	JACK LED Brightness - 6 ~	inuminated key version
Buzzer - On 🗸	Buzzer Period -2	Test Nav-Pad™	
Customise Code	Reset From Configuration File	Save Changes	
Update Nav-Pad™ Keypad Firmware	Reset To Factory Default	Exit	

## The utility allows you to:

View the installed firmware version and code table in use.

Select a Code Table, or create a Customised Table

Change buzzer behaviour / duration

Change Audio Jack Socket/ Keys LED brightness

Load a saved configuration (useful if you need the same configuration on a number of keypads)

Update the firmware

Reset to factory defaults

Test the keypad.



## Selecting a Code Table

You can select from three tables:

NavPad<sup>™</sup> – Default Table NavPad<sup>™</sup> – Alternate Table NavPad<sup>™</sup> – Customise Table (select the codes you prefer using the Utility)

Once a table has been selected then the keypad will retain that configuration whilst it is powered up.

Once the keypad has been disconnected that configuration will be lost (unless you Save Changes)

To save the configuration in flash memory in the keypad click on "Save Changes"

Storm Nav-Pad<sup>™</sup> Illuminated Configuration Utility Х File Help Storm Nav-Pad™ Illuminated Configuration Utility Nav-Pad<sup>™</sup> V1.0 Device Connected -Firmware Version Scan Keypad Selected -8Way Keypad Code Table Loaded Default Table \_ For Serial Number 12345678 LED Brightness - 6 JACK LED Brightness - 6 🗸 Default Table  $\sim$ Default Table Alternate Table Customise Table Test Nav-Pad™ Buzzer Period -2 ~ **Customise Code** Reset From Save Changes **Configuration File** Update Nav-Pad™ Reset To Factory Exit Keypad Firmware Default

NOTE: If the NavPad<sup>™</sup> – Alternate table is selected the function of the UP/DOWN key changes to be the HID consumer controlled VOLUME UP/VOLUME DOWN.

If an audio file is being played and the user presses the UP/DOWN key, the volume on the PC will be adjusted.

The volume ICON will be shown on PC.



#### **Changing Key LED Brightness**



## **Changing Audio Jack LED Brightness**





## Buzzer On/Off

This controls if the buzzer sounds when a key is pressed on the keypad. The duration is 1/4 sec.



## **Changing Buzzer Duration**

The buzzer duration can be selected from 0 to 9. Each step has an increase of 1/4 sec, so 9 will sound the buzzer for 2 1/4 seconds.

Storm Nav-Pad <sup>™</sup> Illuminated Configuration Utility		– 🗆 X
File Help		
Storm Nav-Pad™	Illuminated Configu	uration Utility
Scan         Device Connected         -           For         Keypad Selected         -         8           Serial Number         -         1	Nav-Pad™ Firmware Version - 3Way Keypad Code Table Loaded - 12345678	V1.0 Default Table
Default Table ~	LED Brightness - 6	JACK LED Brightness - 6 ~
Buzzer - On	Buzzer Period - 1	Test Nav-Pad™
Customise Code	Buzzer Period -2 Buzzer Period -3 Buzzer Period -4 Buzzer Period -5	Save Changes
Update Nav-Pad™ Keypad Firmware	Reset To Factory Default	Exit



## **Customising the Key Code Table**

Select "Customise Table" and the following is displayed showing the current USB Code (in hex) for each key on the product.

Above each key is a button to show the modifier





## **Customising the Key Code Table**

Click on a key to customise it.

and the "Select Code" combo box will appear.

Select the code you require from dropdown list

Once a code is selected, the button's background colour will display the new code selected.

Note that 0x74 through 0x81 are extendable codes

Also note that codes

and

0x80 Vol Up

0x81 Vol Down

will be transmitted as Windows Multimedia codes.

Press Apply to send the new code to the keypad



None

0x73







## Customising the Key Code Table - adding a modifier

Now if you wanted a "D" (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 a modifier combo box will appear. The following selection is available:

NONE
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

Once you have made a selection:-

Click on "Apply", this will save your changes and return you back to the main screen

Click on "Reset" removes all the customised codes.

Click on "Close" will exit the customize form without saving changes and returns you back to main screen.



## **Customising the Key Code Table**

Do not forget to SAVE YOUR CHANGES

All configurations, including the customized table are modified in **volatile** memory.

So if after modifying the code table the user just disconnects the keypad, then next time the encoder is powered on, it will revert back to previous configuration data.

To save the modified data in nonvolatile memory, click on "Save changes" button before you power down the keypad.

## Loading a saved Configuration

If you disconnect the NavPad and connect another NavPad, then press Reset from Configuration File

Reset From Configuration File

This will load the locally stored configuration that you have just created onto the connected NavPad

Alternatively you can use the utility to save your configuration file to a network location.

- From the File menu click on Export Cfg File, and choose a location to save the current configuration



- To load a saved configuration : connect the NavPad
- Click on Import Cfg File to browse for the file
- When you select the config file it will load onto the NavPad

## Reset to factory defaults

Clicking on "Factory Default" will set the NavPad<sup>™</sup> + audio keypad with values that are preset.

NAVPAD<sup>™</sup> – default table

LED brightness - 9

Beeper – on

Beeper Period - 1



## Using the Utility to Test the Keypad

This will test all the functionality of NAVPAD<sup>™</sup> + audio keypad. The utility will detect which keypad type is connected.

- Sequence the illumination over all dimming levels
- Beep the beeper (SHORT AND LONG BEEPS)
- Key test
- Jack in/out
- Audio test

To test the audio of the NavPad<sup>™</sup> you must be using the default code table.

#### Click On "Test NavPad™" to start





### **Upgrade Firmware**

To upgrade the firmware click on "Upgrade NavPad™ Keypad Firmware" button

Storm Nav-Pad <sup>™</sup> Illumin	ated Configuration Utility					_
File Help						
Stor	m Nav-Pao	d™ Illumina	ated C	onfig	uratio	on Utility
Scan For	Device Connected Keypad Selected Serial Number	<ul> <li>Nav-Pad<sup>™</sup></li> <li>8Way Keypad</li> <li>12345678</li> </ul>	Firmware Code Table	Version e Loaded	- V1.0 - Default	Table
Default Table	e v Firm	nware Upgrade	0	1		ED Brightness - 6 🗸
Buzzer - On	~	? Are you sure you wa	ant to upgrade the	e firmware?	Te	est Nav-Pad™
Customis	e Code	Configura	Yes tion File	No	Si	ave Changes
Update Na Keypad Fi	iv-Pad™ irmware	Reset To Defa	Factory			Exit

# Click on "Yes" to confirm

Storm Nav-Pad <sup>™</sup> Illuminated Config	uration Utility	–
Storm N Scan For	av-Pad <sup>™</sup> Illuminated Configuration         Strom Nav-Pad <sup>™</sup> Firmware Upgrade         Select which firmware to download         Select Firmware         Browse	on Utility
Default Table Buzzer - On	File to download	D Brightness - 6     ∨ st Nav-Pad™
Customise Code	VID 0x2047 PID 0x0200	ve Changes
Update Nav-Pad⊺ Keypad Firmware	Reset To Factory Default	Exit

After a few seconds the "Browse" and "Upgrade" button will be enabled. (If both buttons are greyed out then reset the unit and retry)

Click on "Browse" button and navigate to the firmware file. Then click on "Upgrade" to start the upgrade process Do not disconnect the cable while upgrade is in progress.



# **Upgrade Firmware**

The screen below will be displayed while the upgrade is in process.

Storm Nav-Pad <sup>™</sup> Illuminated Configuration	on Utility	- 🗆 X
File Help		
Storm Nav	Pad <sup>™</sup> Illuminated Configurati	on Utility
Stro	m Nav-Pad™ Firmware Upgrade — □ >	<
Scan For Seria	lect which firmware to download	Table
Default Table	ile to download	
Buzzer - On		st Nav-Pad™
Veri Men Totz Res	fying memory nory successfully verified al programming time is 0s etting Device	
Customise Code Star	ing application el    Close	ve Changes
VIE	0 0x2047 PID 0x0200	
Update Nav-Pad™ Keypad Firmware	Reset To Factory Default	Exit

Once unit has upgraded to new firmware, the NavPad<sup>™</sup> will auto reboot.

Press "Close" and the new firmware version will be displayed on the utility.



# Change History

Instructions for	Date	<u>Version</u>	Details
Config Utility	15 Aug 24	1.0	First Release (split out from Tech Manual)

Utility - std	Date	Version	<u>Details</u>
	06 May 15	1.0	First Release
	17 Nov 16	2.0	Updated
	09 Feb 17	3.0	Superscript Characters removed from filenames so that utility installs correctly on Windows 7
	16 Feb 17	4.0	Added fix for install to Win 7 POS Ready O/S
	08 Sep 17	6.0	Added Win 10 Compatibility
	19 Jan 21	7.0	Update to loading saved config (to retain SN)
	01 Feb 22	7.1	New user agreement
	04 Jul 22	7.2	Enable feature for loading config file from network
Utility - illuminated	06 Mar 19	1.0	First Release

06 Mar 19	1.0	First Release
06 Jan 21	2.0	Add mic test. Update to loading saved config (to retain SN)
01 Feb 22	2.1	New user agreement
04 Jul 22	2.2	Enable feature for loading config file from network