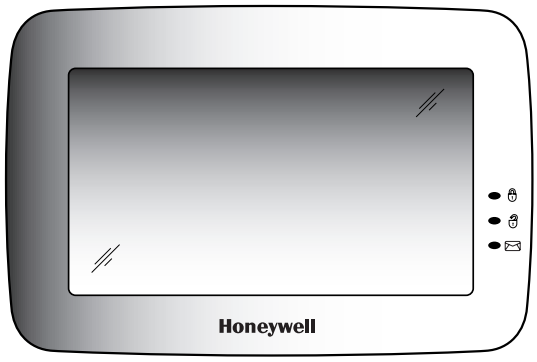
Honeywell

Tuxedo Touch Series
Home Automation System

Installation and Setup Guide



800-08221 7/11 Rev. A

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About the System

This guide provides information to install and set-up Honeywell's Tuxedo Touch Series Home Automation and Security System. The graphical touch-screen keypads are Advanced User Interface (AUI) devices, which combine home automation and home security. Your system may consist of one or more of the following:

- TUXS Keypad (black/silver housing)
- TUXW Keypad (white housing)
- One or more other keypads for system control
- Various sensors for perimeter and interior burglary protection, plus a selected number of strategically placed smoke, carbon monoxide or combustion detectors
- Lighting/output devices.

Equipped with web-hosting capability and built-in Z-Wave technology, the Tuxedo Touch Keypad can be used to control the home environment, such as lights, appliances, thermostat, door locks and cameras via any web enabled device (PC, Smart Phone and Tablet).

Note: To the installer, see the "Important Notes" in the *Important Notes* section of this guide.

Safe Mode

The keypad contains a Safe Mode of operation. In the rare event that the keypad cannot successfully communicate in its graphic mode with the control panel, the Safe Mode is a backup mode that ensures that you can communicate with your system. In this mode, the keypad operates much like a standard non-graphic keypad so that you can control your system until the problem is corrected.



- DO NOT perform panel programming while in the Safe Mode. Performing panel programming while in the Safe Mode may cause the panel and keypad to become out of sync.
- DO NOT use several hardwired motion detectors in high traffic locations. The high quantity of signals received by the panel may cause the keypad to enter the Safe Mode.

Compatibility

The below listing identifies the alarm systems that the keypad can interface with, the maximum number of keypads that can be used with each system, and the minimum alarm panel software revision level for compatibility.

Note: For SIA installations used with a VISTA-128BPTSIA Control, see the SIA CP-01 Quick Reference Chart, Document # 800-09699 located at:
http://www.security.honeywell.com/hsc/resourses/MyWebTech .

Alarm System	Maximum Number of Keypads	Minimum Software Revision Level
VISTA-15P	2	3.0
VISTA-20P	2	3.0
VISTA-20P	4	5.0
VISTA-21IP	4	1.0
VISTA-128BP	3	3.2
VISTA-128FBP	3	3.0
VISTA-128FBP-9	3	4.1

Alarm System	Maximum Number of Keypads	Minimum Software Revision Level
VISTA-250FBP-9	3	4.1
VISTA-250BP	3	2.4
VISTA-250FBP	1	3.0
VISTA-250FBP	3	2.0
VISTA-128BPE	3	4.4
VISTA-250BPE	3	4.4
VISTA-128BPEN	3	7.0
VISTA-128BPLT	3	6.0
VISTA-128FBPN	3	5.1
VISTA-128BPT	6	10.1
VISTA-250BPT	6	10.1
VISTA-128BPTSIA	6	10.1
FA148CP	2	3.0
FA168CPS	4	5.0
FA1660C	3	3
FA1660CT	6	10.1
FA1670C-9	3	4.1
FA1700C	3	3

Note: Keypad may only be used in the following UL/cUL installations: UL 365, UL609, UL 985, UL1023, UL 1610, CAN/ULC-S303, CAN/ULC-S304, ULC-S545, ULC/ORD-C1023, and ANSI/SIA CP-01-2010.



- On all panels except the residential panels, you may obtain the software revision level of the alarm panel by entering the program mode and then entering **#92** on the keypad. This can be done from the Console Mode or a standard alpha keypad, if supplied. The second line of the keypad displays the software revision level (w/out the decimal point).
- The keypad sound suppression feature available in some commercial panels is not compatible with the Tuxedo Touch keypad.
- The 'Voice Chime' feature is a residential control feature only.

Note: If using the maximum number of keypads, an additional auxiliary power supply may be needed.

Software Upgrades

IMPORTANT: During the installation process, check the latest software version and if necessary go to MyWebTech to download the latest upgrade for your specific keypad model.

Mounting

This keypad is for indoor use only and should be mounted at a comfortable viewing level. Avoid mounting in areas of high condensation such as bathrooms or in locations where bright light or sunlight shines directly on the screen.

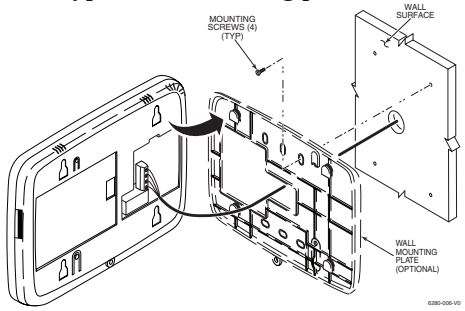
The keypad can be mounted with or without the mounting plate. Use the center securing screw for European installations.

Mounting with mounting plate:

1. Select a mounting location.
2. Detach the mounting plate by sliding downward.
3. Use the mounting plate to mark the location of the mounting holes on the mounting surface and check for level.
4. Locate the mounting plate over the mounting surface such that the wire/cable access openings are aligned while passing the wires/cable through the case back.

****Go to "Wiring"** (next page) **and complete wiring****

5. Secure the mounting plate to mounting surface using 4 screws (supplied).
6. Slide keypad onto mounting plate.

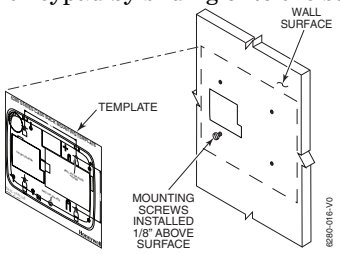


Mounting without mounting plate:

1. Select a mounting location.
2. Detach the mounting plate by sliding downward and discard.
3. Use the template (provided in the carton) to mark the location of the mounting screws and the cut-out for the keypad assembly on the mounting location. Check for level.
4. Install 4 screws (supplied) in the mounting surface leaving screw heads 1/8" above the mounting surface.
5. Locate the case back over the mounting surface such that the opening is aligned with the wire/cable access opening on the mounting surface while passing the wires/cable through the opening in the case back.

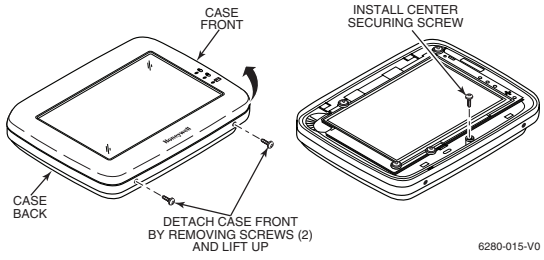
****Go to "Wiring"** (next page) **and complete wiring****

6. Mount keypad by sliding onto the screw heads.



Mounting (European Installations) using a center securing screw:

1. Detach case front by removing the two bottom screws. Gently pull up using a screwdriver if necessary and pry apart. Lift off cover.
2. Mount the keypad in its final location, (see "Standard Mounting" or "Mounting without the mounting plate") install center securing screw (supplied) and tighten to mounting surface.
3. Replace the case front and secure using the two bottom screws.



Wiring

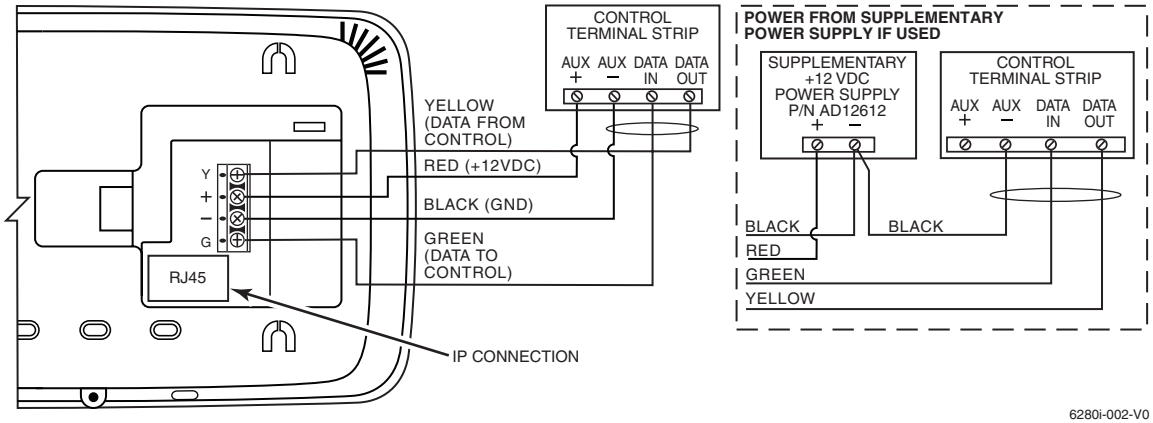
Connect the Tuxedo Touch in parallel with keypads and other peripheral devices using the keypad data (ECP) bus.

- If the Tuxedo Touch is used as the primary system keypad, maximum wire run length is 150 feet.
- If more than one keypad is wired to one run, then the maximum lengths must be divided by the number of keypads on the run. (e.g., the maximum length is 75 feet if two keypads are wired on a #22 gauge run).

Wire Gauge:	Length
#22 gauge	150 feet
#20 gauge	240 feet
#18 gauge	350 feet
#16 gauge	550 feet

The Keypad draws up to 310mA. If you power the keypad from your panel's Aux Power output, check your panel's Installation and Setup Guide and verify that this device and others do not exceed your panel's Aux Power output capability. If it does, a supplementary power supply is needed.

Connect the wires to the keypad terminal block as shown below.



IMPORTANT: When the keypad is powered from an auxiliary power supply, always apply power to the control panel first and then the keypad. Failure to observe this sequence results in improper operation of the keypad and may result in an ECP Error indication.

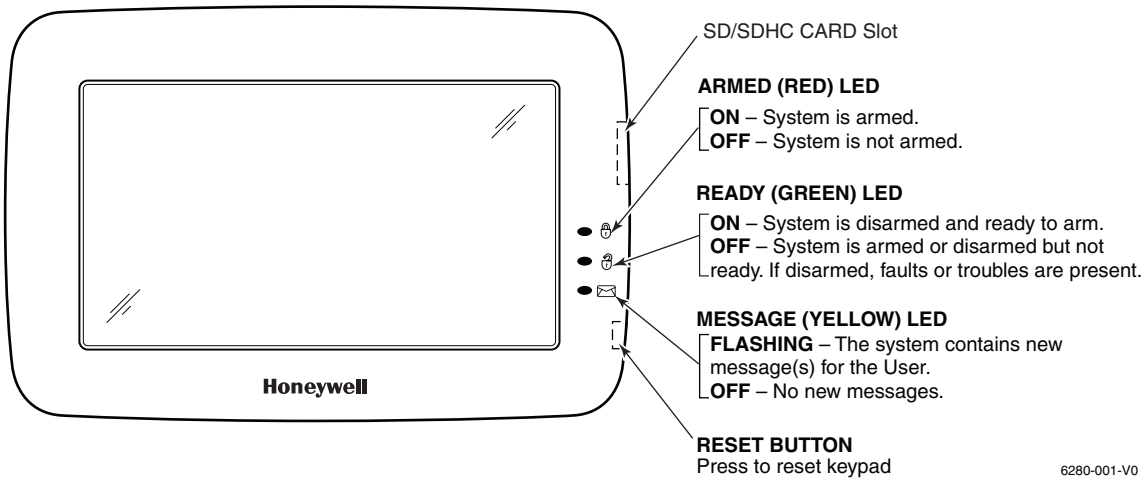
Supplementary external power supply must be Listed to UL 603 for UL installations, CAN/ULC-S318 for cUL installations, and capable of providing the required backup power.

Specifications:

Mechanical Specifications:	
Width: 8.23 inches (209.04mm) Height: 5.59 inches (141.99mm) Depth:1.13 inches (28.70mm)	
Electrical Specifications:	
Backlight OFF, Sound OFF Backlight ON, Sound OFF Backlight ON, Sound ON	12V, 140mA 12V, 205mA 12V, 310mA
Operating Environment:	
Humidity	93% RH, non- condensing
Temperature:	
Operating	14˚ F to 131˚ F / -10˚ C to 55˚ C (UL tested 32˚-120˚F / 0 to 49˚C)
Shipping / Storage	-40˚ F to 158˚ F / -40˚C to 70˚C

Front Panel LEDs

The Tuxedo Touch Keypad has three LEDs as follows:



*__Note:__ If the EN50131 Display feature is enabled, the "Armed" and "Ready" status LEDs turn OFF after 30 seconds and the screen returns to the Home screen until a valid user code is entered.

Navigation Icons

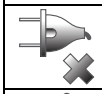
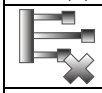
To aid in the navigation through the Tuxedo Touch screens, a set of user-friendly icons has been provided. The appearance and function are described below.

ICON	ICON TITLE	FUNCTION
	"Product Videos"	Accesses Product Introduction and Training Videos.
	"Message"	Record and retrieve Voice Messages.
	"Automation"	Accesses the Z-Wave setup, Scene setup, and Room setup screens.
	"Security"	Accesses the "Security" screen.
	"Home"	Returns you to the "Home" screen.
	"Back"	Reverts to the last screen viewed.
	"Panic"	Displays Emergency functions (as programmed by the installer). See programming the Control Panel note. **Note:** This icon is displayed and active on all screens except while in the Clean Screen mode, during an LCD Display test in *Diagnostics*, and from the Video and Camera screen.
	"Control Panel Message"	This icon alerts the user to a Control Panel Message.
	"Setup"	Accesses the Setup menus.
	"Multi-Media"	Accesses the Message, Camera, Picture and Video feature.
	"Video"	Allows user to play video files.
	"Picture"	Allows user to display personal photos in a slide show format.

ICON	ICON TITLE	FUNCTION
	"Voice Status"	Allows user to hear system status.
	"Minimize Home"	Minimizes the Home screen icons when viewing wallpaper displays.
	"Maximize Home"	Maximizes the Home screen icons when viewing wallpaper displays.

Panel Fault Displays

The "Security" screen displays an Icon(s) if a panel fault(s) occurs. The following Icons(s) may be shown as applicable to you system:

ICON	MEANING
	AC Loss – The system is not receiving AC power.
	Bell Failure – The system bell or siren has a problem. **Note:** This Icon is displayed when interfacing with residential panels only.
	Expander Failure – The system has a failure in an expansion module.
	Low Battery – The system battery, that powers the system during an AC power loss, is low.
	LRR Supervision Failure – The Communication Device used to communicate with the central station has a supervision failure.
	Max Attempts Exceeded – The system has exceeded the maximum attempts to communicate with the Central Station.
	Pager Failure – The system cannot communicate with an assigned pager.
	Telco-1 Cut – The system is not able to communicate with the central monitoring station over the primary phone line.
	Telco-2 Cut – The system is not able to communicate with the central monitoring station over the secondary phone line.
	Wireless Failure – The system is not able to communicate with its wireless devices.

Note: If multiple faults exist, press the **More Choices** icon and then the **Show Zones** icon to view and scroll through the complete list of faults.

Programming the Control Panel

The keypad is not fully operational unless its address in the control panel has been enabled (set as an alpha console) AUI type device, and assigned to a partition (where applicable). For a list of alarm systems that the keypad can interface with, refer to the "Compatibility Table" in Section 1 of this document for the quantity of keypads that may be used and the required control panel software revision level.

We recommend that you use either a standard alpha keypad or the keypad in Console Emulation Mode when programming the control panel. When in the Console Mode, the keypad emulates an alpha keypad and the programming of the panel is performed following the procedures provided in your panel's Installation and Setup Guide.

Note: When programming your control panel, if you change the zone types for your emergency zones you may disable the emergency buttons in the keypad. The emergency buttons in the keypad are active for zone types 06 (Silent Panic Button), and 07 (Panic Button), 08 (Medical Button), and 09 (Fire Button). Additionally, the Medical button is also compatible with a zone type 15 (24-Hour Medical) for panels that contain this zone type.

On residential control panels (VISTA-20P or equivalent):

Up to four keypads may be used (addresses 1, 2, 5 and 6). Addresses 1 and 2 (in field *189) are enabled by default. If the defaults have been changed, enable these addresses (in field *189) using an alpha-keypad and the Data Field Programming procedures located in the panel Installation and Setup Guide.

On commercial control panels (VISTA-128BP, VISTA-128FBP, or equivalent):

Addresses 1-2, and 3-30 may be used for controls under Rev. 10 supporting 3 AUI's, see **Important Note** below. Addresses 1-30 may be used for controls Rev. 10 and higher supporting 6 AUI's. These addresses in the control panel are normally not defaulted for AUI type devices. To enable the addresses you are using for keypads, use an alpha-keypad and follow the procedures for "Device Programming" in your control panel "Programming Guide."

Important Note: If multiple keypads are being used, they must be set to addresses 1, 2, and X (where X equals any address from 3 through 30). Only one AUI type device may be assigned to an address from 3 through 30 on commercial control panels.

The Keypad should not be assigned as a Master Console. If the keypad is assigned as a Master Console, partitions must be controlled from the Partition screen or using the Console Emulation Mode.

Keypad Initialization

When initially powered, the screen displays the boot sequence and the "Set ECP Address" screen is displayed.

If the system is incorporating only one keypad, leave the address set to 1 and press **Apply**. The boot-up process continues until completion. If there are to be additional keypads in the system, after enabling addresses in the control panel using an alpha-keypad, power-up each keypad one at a time, and set its address to one of the addresses you enabled in the control panel.

Installer Note: The Tuxedo Touch Screen has been calibrated at the factory. Ignore the "CALIBRATE" button that appears on the "Options" screen after initial ECP setup. If the screen should require recalibration, the end user may do so via the "Keypad Test" screen. See the "Diagnostic Tests" section for instructions.

Time and Date Setup

If not already set from the control panel, set the current time and date. Refer to *Time/Date Setup*.

Night Setup

The Keypad is defaulted to arm the system in the STAY INSTANT mode when arming the system using the NIGHT icon. Select the arming mode to be activated when the NIGHT icon is pressed on the "Arming" screen, refer to the "Night Setup" section.

Web Server/Hosting

The Tuxedo Touch keypad offers web-hosting capability allowing you to access your Security and Home Automation System via any web enabled device. The Tuxedo Touch keypad IP Address is displayed on the "IP Setup" screen as well as on the "Home" screen. This IP Address is used on a standard web browser to control user functions such as, Security, Z-Wave operation and camera viewing.

UL Web Server/Hosting is not Listed for use in UL installations. Remote Arming/Disarming/Programming is not to be used in UL Listed Installations.

From your web enabled device, do the following:

ACTION	NOTES
1. At your PC, Smart Phone or Tablet: a) Navigate to the **Settings** feature. b) Turn **ON** the "Wi-Fi" setting and select the router to connect to. Enter a name and password, if required. c) Open the browser and enter the IP Address displayed on the keypad into your browser. You can now control your Security System, local Z-Wave devices and view your local cameras from your browser.	• If using a Smart Phone or Tablet browser, access to basic arming commands are available. • If using a PC browser, full access to keypad options are available.

IP Setup

Follow the steps below to control your local Z-Wave devices via your PC, Smart Phone or Tablet.

Automatic IP Addresses

In most cases, IP addresses are assigned automatically by your Internet Service Provider. The IP Address is displayed in the lower left-hand corner on the Tuxedo Touch Keypad "Home" screen.

To access "IP Setup", from the "Home" screen, do the following:

ICON	ACTION	NOTES
 	1. At the Tuxedo Touch keypad: a) Press the **Setup** icon. b) Press the **IP Setup** icon. The "IP Setup" screen displays the IP Address and Default Gateway Address of your router. c) Press the **Refresh** button; the IP information will automatically update. This may take up to 60 seconds. 2. Press **Apply**; the keypad will save the information and reset.	Take note of the address; you will need to enter this address into your browser. After proper setup, the IP Address is displayed on the "Home" page.

ICON	ACTION	NOTES
	To set up a **User Account**: 1. Press the **Account Setup** button. 2. Highlight the **User ID** number on the screen and enter a user name; press **OK**. 3. Highlight the **User ID** number again and enter a user password; press **OK**. 4. Press the **Save** icon. The new user is displayed on the screen. 5. Press **Apply**. 6. To delete a user, highlight the **User Name** and press the **Delete** button.	**Note:** Account Setup allows you to add up to 5 users. Use the Data Entry Keyboard to enter the required information. • Use the **Shift** key for capital letters • Use the **BS** (Backspace) key to make corrections. • Press **OK** A pop-up window displays the message: **Save the Change** Select **Yes** to save the settings. Select **No** to cancel.

Fixed IP Addresses

If the IP Address is not displayed in the lower left-hand corner on the Tuxedo Touch Keypad "Home" screen, you may require a fixed IP Address. Obtain the IP Address by contacting your Internet Service Provider and then do the following:

ICON	ACTION	NOTES
 	1. At the Tuxedo Touch Keypad: a) Press the **Setup** icon and then press the **IP Setup** icon; the "IP Setup" screen is displayed. b) Press the button next to **Obtain an IP address automatically** to de-select it. c) Enter the "IP Address" by pressing the first set of 3 zeros ("000") on the screen, and enter the first three numbers of the IP address on the "Data Entry Keyboard". Repeat this step until the complete address has been entered and press **Apply**. 2. At your PC, Smart Phone or Tablet Browser: a) Start your browser and enter your IP Address.	Use the Data Entry Keyboard to enter the required information. • Use the **Shift** key for capital letters • Use the **BS** (Backspace) key to make corrections. • Press **OK** A pop-up window displays the message: **Settings Changed! Remember new settings?** Select **Yes** to save the settings. Select **No** to cancel.

Setup

You may access **Brightness and Volume, Display & Audio Setup**, **System Setup** and **IP Setup** from the "Setup" screen.

Brightness and Volume Control

From the "Home" screen, access the "Setup" screen as follows:

ICON	ACTION	NOTES
	1. From the Home screen, press the **Setup** icon. 2. Move the **Brightness/Volume** slide bar up or down to increase/decrease brightness/ volume. **Yes** saves the change. **No** discards the change.	If changes are made, when you exit a "**Settings Changed!**" pop-up window is displayed asking "**Remember New Settings?**"

Display & Audio Setup

You may access **Operating Modes**, **Backlight Off After** Time, **To Homepage After** Time, **Auto Slideshow After** Time, and **Clean Screen** from **Display & Audio Setup**.

Operating Modes

Operating modes provides access to **Chime Mode, Voice Mode, and Voice Chime**.

- Chime Mode – Keypad chimes whenever a door or window is open.
- Voice Mode – Keypad voice annunciates whenever a change in system status occurs such as Armed, Disarmed, or Alarms.
- Voice Chime – The chime mode and voice mode are in effect. The chime beeps followed by voice annunciation.

From the Home screen, press the "Setup" icon, and do the following:

ICON	ACTION	NOTES
	1. Press the **Disp & Audio Setup** icon. 2. Enter your Authorized Code, if required.	If the Chime Mode and Voice Mode are both selected, the Voice Chime is automatically selected. When the keypad exits the "Operating Modes" screen, your selection is saved.
	3. Select **Chime Mode** or **Voice Mode** to turn the mode on or off. 4. Press the **HOME** or **BACK** icon after making your selection.	It may take a few seconds for the Chime Mode to take effect.

Adjust the Screen Timeouts

When the keypad is left idle, it automatically:

- Turns the "Backlight Off After" the selected backlight off time has expired (unless "Never" option is selected).
- returns to the "Home" screen after the selected "To Homepage After" time has expired (unless "Never" option is selected), and
- if enabled, the "Auto Slideshow After Time" begins the slide show.

To select the desired screen timeouts, do the following:

ICON	ACTION	NOTES
 	1. From the "Home" screen, press the **Setup** icon. 2. Press the **Disp & Audio Setup** icon. 3. Enter your Authorized Code. 4. Press the desired selection from the drop-down list displaying the time period for each option. **Yes** saves the change. **No** discards the change.	If changes are made, when you exit a "**Settings Changed!**" pop-up window is displayed asking "**Remember New Settings?**" Settings include: • **Backlight Off After** X time • Return **To Homepage After** X time • **Auto Slideshow After** X time. **Notes** • The "To Homepage After" Time option is only available if the EN50131 display option is not enabled by the installer. • When in EN50131 mode, "Auto Slideshow After" is preset to "1" minute and can not be changed.

Clean Screen

With the exception of normal cleaning, the keypad is maintenance free.
Press the "Display and Audio" icon, and do the following:

ICON	ACTION	NOTES
	1. Press the **CLEAN SCREEN** icon. A pop-up window displays "**Touch Screen has been disabled so that you may wipe the screen clean. Please use a damp, soft cloth. DO NOT use any liquids, sprays, or ammonia-based cleansers. Press CONTINUE to disable touchscreen.**" ***Panics cannot be initiated during this process*** 2. Press **Cancel** to exit.	When the "Continue" icon is pressed the message "**Touch Screen Disabled for =30 Seconds**" is displayed. During these 30 seconds the touch screen should be wiped clean of fingerprints using a mild soap solution and a soft cloth. When the counter reaches zero, the window automatically closes and the touch screen is active.

IMPORTANT: Do not use an abrasive cleaning agent or abrasive cloth when cleaning the keypad or damage to the touch screen may occur.



The **Emergency** screen cannot be accessed while running in the clean screen mode.

Multi-Media

This feature allows you to access voice messages, play video files, display personal photos in a slide show format, and view up-to four cameras at one time from your keypad.

UL	Multi-Media functionality is supplementary only and has not been evaluated by UL.

Picture Setup

The Picture feature allows the user to display up to 1000 personal photos on the touch-screen and can be accessed from the Home screen by pressing the Picture icon, or access this feature as follows:

ICON	ACTION	NOTES
  	1. Insert your personal media (SD/SDHC) card (with stored picture files) first. 2. Press the **Multi-Media** icon and then press the **Picture** icon. 3. Select the type of viewing transition desired (Standard, Horizontal, Vertical or Fade Out) by pressing the **Transition** arrow. 4. Press the **Slide Delay** arrow to select the time interval that you want to allow between each photo being viewed. Choose from (5, 10, 15, or 20 seconds). To set a picture as wallpaper: 1. Use the slide bar to highlight the file you want to be displayed on the keypad screen. 2. Press the **Set Wallpaper** icon; view your selection from the "Home" screen.	Photo files can be viewed from the (SD/SDHC) Card. Formats supported are .bmp or .jpg files. **NOTE:** • To exit slide show at any time and resume keypad operation, press anywhere on the screen. • The first image is displayed and a list of stored images appears on the screen. • When an image is loading, no other Picture Setup function can be performed (play, previous, next, add or set wallpaper). Press the **TOP** button to move up one level in the directory. Press the **OPEN** button to view larger images and/or open directories, select from the list of stored images. Press the **CLEAR ALL** button to clear all pictures from the current slide show rotation. **NOTE:** When viewing wallpaper displays, the Home screen icons can be minimized by touching the "Minimize Home" icon.

Picture Icons

 Play Image	 Previous Image	 Next Image	 Add Image	 Minimize Home	 Maximize Home

Camera Setup

The Camera feature allows you to view up-to four cameras at one time. Cameras should be in their final location and turned on before they are added to the system. To add a camera, do the following:

ICON	ACTION	NOTES
  	1. Connect an RJ45 cable to the back of the Tuxedo Touch Keypad and connect the opposite end of the RJ45 cable to your Ethernet on your existing "powered-up" router. 2. Connect an RJ45 cable to the back of your camera (LAN) and connect the opposite end to the Ethernet on your router. 3. Apply power to the Camera. Wait a few seconds for initial power-up of camera. 4. Press the **Multi-Media** and **Camera** icons or press the **Camera** icon from the "Home" screen and then press the **Camera Setup** icon. The "Camera List" screen is displayed. Press the **Clear** icon to clear the camera list.	**Notes:** 1. QuickTime® media player must be installed on your PC. 2. Camera resolution should be 5 fps (5 frames per second) or lower. 3. Camera viewing is not compatible if using Opera web browser. Initial camera setup cannot be performed over a wireless connection. **IMPORTANT:** Use the web browser to view cameras for non-security purposes only. Camera streams viewed from the web browser can stop without indication due to network connection issues. Use the Data Entry Keyboard to enter the required information. • Use the **Shift** key for capital letters • Use the **BS** (Backspace) key to make corrections. • Press **OK**.
   	5. Press the **Scan** icon to locate the camera. Once located, highlight the camera address, and press the **Edit** icon and go to Step 7. 6. If the camera information is not automatically obtained, press the **Add** icon to the enter information. a) To retrieve camera settings and connect to the camera, press the **Camera Settings** icon. b) Press the **Reset** icon to reset the camera to factory default. Select **Yes** or **Cancel**. 7. To edit camera information, highlight the camera and press the **Edit** icon; the "Camera Configuration" screen is displayed.	Enter the appropriate information (**Name, User, RTSP Path, Resolution, Frame Rate, Address, Password, RTSP Port, HTTP Port**) if known. Enter the appropriate wireless information SSID, Network Type, Channel No., Security System and Shared Key, if applicable. Security System information for WEP enter Authentication Type, WEP Encryption, Pass Phrase, and WEP Key. For WPA PSK TKIP, WPA PSK, AES, and WPA2 PSK AES, enter the Shared Key using the Data Entry keyboard and press **OK**. A pop-up window displays **"cam (name) wireless set OK",** if successful. Or, **"cam (name) wireless set Failed"**.

ICON	ACTION	NOTES
	8. When all cameras have been added, press the **Wireless Settings** icon and on the "Wireless Settings" screen enter the wireless information from your router. 9. Press **Apply to All** to set cameras to wireless operation. You can now control your Security System, local Z-Wave devices and view your local cameras from your browser.	The RJ45 cable can now be removed from the wireless cameras and (once power has been recycled to the camera) you can view wirelessly via the Tuxedo Touch Keypad. If the camera does not have wireless capability, leave camera connected to router.

Setup Icons							Camera Icons					
				Clear								
Play	Scan	Add	Delete	Clear	Edit	Refresh	Stop	Auto Pan	Quad View	Full View	Pan/Tilt	Back

Note: To use the Pan/Tilt feature in Quad View, select the camera name from the camera list and then press Pan/Tilt.

UL Camera functionality is supplementary only and has not been evaluated by UL.

Video (Audio) Setup

To access the Video (Audio) feature, from the "Home" screen do the following:

ICON	ACTION	NOTES
 	1. Insert your personal media (SD/SDHC) card (with stored video files) first. 2. Press **Multi-Media** and then press the **Video** icon. 3. Highlight a video file from the list and press **Play** to start the selected video file. 4. Press the **Repeat** icon to continually replay the selected video. 5. Deselect the **Repeat** icon to automatically play the complete list of video files starting with the first video and ending with the last.	**Note:** A Video Converter is required to convert videos for proper playback on the Tuxedo Touch Keypad. Use an Internet search engine to locate and download a Video Converter, then follow the steps in the Video Converter Instructions (provided in the carton). **Note:** Maximum video resolution should not exceed 400 x 240. **Note**: If the video file causes the keypad to lock, use a small object (such as a paper clip) to press the reset button located in the lower right-hand side of the keypad to reset the keypad. • Use the slide bar to scroll through the video list. • If desired, press the Full View icon to view video in full screen.

Video Icons				
				Touch the appropriate icon to Play, Pause, view a Full View or Repeat the video.
Play	Pause	Full View	Repeat	

From System Setup, you may access **CS Setup, User Setup, Time & Date,** and **Advanced Setup**.

CS Setup

You may access **ECP Address, CS Options/Operating Modes, Screen Security, Device Events, Code Authority** and **Panel Configuration** from the CS Setup screen.
From the "Home" screen, press the **Setup** and **System Setup** icon and perform the following:

ICON	ACTION	NOTES
	1. From the **System Setup** screen, press the **CS Setup** icon. 2. Enter your Authorized Code, if required. 3. Press the **ECP Address** icon.	If the top of the screen is displaying "ECP Error", the ECP address in the keypad is not valid for the panel that it is connected to. In this case, change the ECP to the keypad default code of "4140" to advance to the next screen. **Note:** Default code "4140" is the Tuxedo Touch default installer code before connecting to a control panel. Once connected to a control panel, use that panel's installer code.

ECP Address Selection
After enabling addresses in the control panel using an alpha-keypad, power-up each keypad one at a time, and set its address to one of the addresses you enabled in the control panel. Otherwise, access the Central Station screen then follow this procedure to change the address on the unit.
To change the address, perform the following:

ICON	ACTION	NOTES
	1. Press the **ECP Address** icon. 2. Select the ECP address for this keypad using the Up/Dn arrows. 3. The available ECP addresses are: 1-2, 5-6 for residential controls 1-2, 3-30 for commercial controls under Rev. 10 supports 3 AUIs. **See Important Note below.** 1-30 for commercial controls Rev. 10 and higher supports 6 AUIs. **IMPORTANT:** If multiple keypads are being used, they must be set to addresses 1, 2, and X (where X equals any address from 3 through 30). Only one AUI type device may be assigned to an address from 3 through 30 on commercial control panels.	When the keypad cannot communicate with the alarm panel, the message "ECP Error" is displayed, check the following: • Verify that the AUI type device is enabled in the control panel, and that the ECP address in the keypad matches the address enabled in the control panel. Use a different address for each device. • If powering the keypad from a power supply, make sure you have a common ground installed (wiring between Power Supply "gnd" and panel "Aux. power neg"). **NOTE:** When the ECP address is changed, and **Apply** is selected, the keypad resets. The keypad should not be assigned as a Master Console. If the keypad is assigned as a Master Console, partitions must be controlled from the Partition screen or using the Console Emulation Mode.

CS Options / Operating Modes

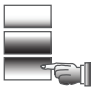
The "CS Options" menu allows you to enable **Display Lighting** and the **EN50131 Display** feature. The "Operating Modes" menu allows you to access **"Normal Mode", "Safe Mode"** and **"Automation/Demo Mode"**.

Compliance Feature (EN50131)

The EN50131 Display compliance feature is a European Standard designed to prevent unauthorized users from knowing the status of the Security System. When the EN50131 Display feature is enabled:

- The keypad returns to the "Home" screen after 30 seconds; "Armed" and "Ready" LEDs turn OFF.
- The "To Homepage After" time setting changes to 30 seconds and the time is non-selectable.
- The "Auto Slideshow After" is preset to "1" minute and can not be changed.
- The Security, Message and Lighting screen does not display system status until an authorized user code is entered.
- The "Setup" menu does not display system status until an authorized user code is entered.
- Videos can not be played.

From the Home screen, press the **Setup** and **System Setup** icon.

ICON	ACTION	NOTES
 	1. Press the **CS Options** icon. 2. Enter your Authorized Code, if required. 3. Select **"Lighting"** or "**EN50131 Display**" to turn the option on or off. 4. Select "**Normal Mode**" or "**Safe Mode**" to turn the option on or off. **Apply** accepts all changes.	**Note**: The **Automation/Demo Mode** option allows the automation and multi-media features to operate in a non-security mode. When this option is selected, the keypad does not communicate with the control panel and any user can select Advanced Setup screens.

Operating Modes

Safe Mode

The Safe Mode may be automatically entered by the program on a communication failure or may be entered manually on command.

Automatic Entry

In the rare event that the keypad cannot successfully communicate in its graphic mode with the control panel, the screen presents you with a message of "Problems detected. Start Keypad in Safe Mode?" and requests a "Yes" or "No" response. If you answer with "Yes", the keypad goes into the Safe Mode. If you answer with "No", the keypad tries to communicate with the panel again. After 3 consecutive times of receiving no response, the keypad enters the Safe Mode automatically.

Manual Entry

Note: ONLY enter the Safe Mode from the Normal Mode. Entering the Safe Mode from the Automation/Demo Mode may result in incorrect display of the Emergency Function keys.

ICON	ACTION	NOTES
	1. Select **Safe Mode** and then press **Apply**. 2. Press **OK**. 3. To exit, touch the safe mode bar and touch **Yes** to return to Normal Mode.	The "Warning" message **"Keypad will reset to activate changes"** is displayed. The keypad resets and restarts in the Safe Mode.

Operating in the Safe Mode

While in the Safe Mode, the Home screen displays the Security Icon, Panic Icon, and Message Icon. A message at the lower left side of the screen is displaying: **!SAFE MODE!**
This is a limited mode of operation. While in this mode:

- You can use the Security icon to access the Console Emulation Mode of operation to try to clear your faults, disarm the system, or enter additional Alpha Keypad commands specified in your panel User and Installation Guides. You can perform almost all functions that you can perform from a standard non-graphic alpha keypad.
- You can press the "Panic" icon and generate Emergency Messages as defined in the panel's home partition for this keypad.
- The Armed and Ready LEDs on the front of the keypad indicates the keypad's home partition status.
- The Chime mode functions in the Safe Mode: however, you do not have Voice, Voice Chime, or Message capability.
- Z-Wave Scenes do not function in Safe Mode.
- The Slide Show feature does not start automatically in Safe Mode.

Screen Security

The **Screen Security** icon displays a list of authority levels and the user level that has been given access to them. To view and/or edit Screen Security, do the following:

ICON	ACTION	NOTES
	1. From the System Setup screen, press the **CS Setup** icon. 2. Enter your Authorized Code. 3. Press the **Screen Security** icon.	**Note:** The Screen Security screen contains a heading of Advanced Setup, Central Station Setup, Disp. & Audio Setup, Event Logs, Lighting, Message, Security, or Time/Date highlighting the line was selected for change. The Screen Security screen is re-displayed listing any changes. **Note:** The User Levels listed on this screen match the User Levels in commercial panels. See the following chart for corresponding User Levels in Residential Panels.
	4. If authority levels are correct, press **BACK** or **Home** to exit the menu. 5. If changes are necessary, select the line to be changed and the level of user to have access; then select **OK** or **Cancel**.	

Residential Panels and Screen Security

Authority Level in Panel	Matching Authority Level in Keypad	Access Level Chosen in Keypad Screen Security					
		Installer	Master	Manager	Operator A	Operator B	Operator C
System Master	Master	No	Yes	Yes	Yes	Yes	Yes
Partition Master	Master	No	Yes	Yes	Yes	Yes	Yes
Standard User	Normal	No	No	No	Yes	Yes	Yes
Arm Only	N/A	No	No	No	No	No	No
Guest	Guest	No	No	No	No	Yes	Yes
Duress	N/A	No	No	No	No	No	No

Code Authority

The Code Authority screen displays User Names and Partition Authority Level for the User Code. To view the Code Authority level, do the following:

ICON	ACTION	NOTES
	1. Press the **Code Authority** icon. 2. Enter the 4-digit User Code for the user that you want to obtain Authority Level information about. 3. Press **BACK**.	**Note:** If the User Code entered is not active in the system, a "**NOT VALID**" message will be displayed.

Device Events

Your system has the ability to record events in a history log. Each event is recorded with the time and date of its occurrence. The control panel must be programmed to record various system events in installer programming mode. To view the Device Events, perform the following:

ICON	ACTION	NOTES
	1. Press the **Device Events** icon. A list of events is displayed.	To view a record of events in a history log, press the up/down arrow to scroll.

Panel Configuration

The **Panel Configuration** screen displays the configuration of the panel. To view the panel configuration, do the following:

SCREEN	ACTION	NOTES
 	1. Press the **Panel Configuration** icon. 2. If correct, press **Back** to return to "System Setup" screen.	A "Panel Configuration" screen is displayed providing details of your system. **Delete** clears the configuration from the keypad and reloads the panel configuration into the keypad from the panel. After you press **Delete**, a confirmation screen is displayed.

User System Setup

User Setup provides access to **Add a User, Delete a User,** and **Edit a User**.

User Code Setup

Each user must be assigned a name with a corresponding 4-digit user code in order to gain access to various features and functions. The keypad can hold the identity for 10 Users in its memory. If additional Users are needed, define the additional Users using the Console Emulation Mode.

Users for the system are programmed in a central user setup location that provides the specific questions for authorization levels assigned to different users. You may want these users to be the same, but there are situations in which you may want a user to have limited capabilities. These capabilities are defined by the Authority Level assigned to each user.

Authority Levels

Authority levels define the system functions a particular user can perform. Depending on the authority assigned to you, there are certain system functions you may be prohibited from performing. The following information describes the authority levels available in the keypad and provides the equivalent authority level name found in your alarm system manuals. The authority levels available in the keypad are as follows:

Keypad Authority Level	Functions	Equivalent System Name	
		Residential Systems	Commercial Systems
Installer	Can perform all security functions except can only disarm if code was used to arm, can change Master Code, cannot change other user codes, can access the Central Station Screen options **Note:** This authority level cannot be assigned using the keypad.	Installer	Installer
Master	Can perform all security functions, add/delete users in assigned partition, program scheduled events, and change partition master code.	Partition Master	Level 1 Master
Normal	Perform security functions (arm, disarm)	Standard User	Level 3 Operator A
Guest	Can arm the system in assigned partitions, but cannot disarm the system unless the system was armed with this code. **Note:** Do not assign this level if Quick Arm is enabled in the system.	Guest	Level 4 Operator B
No Access	Used to restrict access to a partition.	N/A	N/A

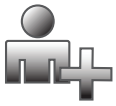
Note: The authorized code for deleting, adding, and editing users is dependent upon the alarm panel you are interfacing with. Check your alarm panel Installation and Setup Guide to determine who can delete, add, and edit users.

Access User Setup as follows:

ICON	ACTION	NOTES
	1. From the "Home" screen, press **Setup** and the **System Setup** icon.	
	2. Press the **USER Setup** icon.	

How to Add a User

Add a user, from the "Home" screen, do the following:

ICON	ACTION	NOTES
	1. Press the **Setup** icon. 2. Press the **System Setup** icon. 3. Press the **USER SETUP** icon. 4. Press the **ADD USER** icon and enter your Authorized Code. 5. Press the box next to **Enter User Name**. 6. Type in the user name (6 characters max.; no spaces between characters) and press the **OK** icon. 7. Press the box next to **User Number** and enter an available (3-digit) user number; press the **OK** icon. 8. Press the box next to **Enter User Code**, enter the 4-digit User Code for this user and press the **OK** icon. 9. Press the box next to **RF Button Zone** (if used); enter the 3-digit RF Button Zone for this user. 10. Press the **Save** icon.	• Use the **Shift** key for capital letters • Use the **BS** (Backspace) key to make corrections. • The **@#$** key is not available for use at this time. These characters cannot be saved to the control panel. Select the partitions, access level, and enter an available user number for this user. Available user numbers: For Residential enter a number from 002-049. For Commercial enter a number from 002-250. If assigning this user to wireless key, enter one of the zone numbers of the keyfob (the wireless key must be programmed first before it can be assigned to a user).

How to Add an Existing User to a Second Keypad

After adding a user to the first keypad, the same user can be added to a second keypad. From the second keypad go to "User Setup" and enter the same user name and same user code (refer to "How to Add a User" above). The second keypad will automatically update the user information. Press **Save**.

How to Delete a User

Delete a User as follows:

ICON	ACTION	NOTES
	1. Select the User you want to delete. 2. Press the **DELETE USER** icon. 3. Enter your Authorized Code. 4. Press the appropriate icon.	Three selections are available: add a user, edit a user, or delete a user. The **Confirm Delete** screen is displayed.

How to Edit a User

Note: You cannot edit a User *name* or User *number*. To modify a User *name* or User *number*, you must delete the User and re-enter the User. Edit a User as follows:

ICON	ACTION	NOTES
	1. Press the **EDIT USER** icon. 2. Enter your Authorized Code. 3. Select the options needed for this user and press **Save**.	Three selections are available: add a user, edit a user, or delete a user.

Time/Date Setup

You can set the time and date from the **Set Time & Date** screen.
When the time is set it is stored in the keypad and sent to the control panel when you press **Apply** and answer **Yes** to the following prompt. Additionally, when using the keypad with a residential panel, the panel downloads its time into the keypad once an hour after the clock is set.
If the **Get Time** icon is pressed, the keypad downloads the time and date from the control panel and exits the Set Time & Date screen. **Note:** This icon  appears with residential panels and may not appear with all commercial panels.

Setting Daylight Savings Time

To set the daylight savings time, from the "Home" screen do the following:

ICON	ACTION	NOTES
	1. Press **Setup** and the **System Setup** icon. 2. Press the **Time/Date Setup** icon and enter your Authorized Code. 3. Press the **DST** icon if you want daylight savings time to affect your system clock.	
	4. Set the "Start DST" time and then the "End DST" time by pressing the **Month**, **Weekend** and **Hour** that you want DST to start. 5. **APPLY** saves the settings.	If **DST On** (Daylight Savings Time) is selected, the keypad adjusts for Daylight Savings time at the month, week and time chosen. Make sure "DST" On is checked to enable this feature.

Setting Current Time and Date

To set the current time, do the following:

ICON	ACTION	NOTES
	1. Press the **Time/Date Setup** icon; enter your Authorized Code. 2. Press the **Month** "arrow", and select the current month. 3. Press the **Year** that is being displayed and enter the current year. 4. Press the **Hour** that is being displayed and enter the current hour. 5. Press the **Minutes** that is being displayed and enter the current minute. 6. Select **AM** or **PM**. (Each depression switched the AM/PM display).	After each selection the window closes automatically and the selection is displayed. Select if you want a 12-hour or 24-hour format for your time display by pressing the circle to the left of the **12 Hour** display.

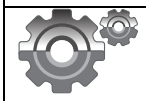
ICON	ACTION	NOTES
	7. Press the **MMDDYY** "arrow", and select a format for which you want the year to be displayed. 8. Press the **Get Time** icon to have the keypad download the time and date from the control panel and exit the Set Time & Date screen. 9. Press **Apply**.	**Yes** saves the time changes in your security system. **No** saves the changes to the keypad only. A confirmation screen is displayed. **Note:** A **Yes** response is recommended.

Advanced Setup

The Advanced Setup screen allows access to **Software Version**, **Keypad Reset**, **Keypad Test**, **Night Setup** and **Output Setup** menus.

System Information

To view the latest software version installed on your system, do the following:

ICON	ACTION	NOTES
	1. From the "Home" screen, press **Setup** and the **System Setup** icon. 2. Press the **Advanced Setup** icon. 3. Enter your Authorized Code.	The "Software Version" is displayed in the lower right corner of the screen.

Keypad Reset

To access Keypad Reset do the following:

ICON	ACTION	NOTES
	1. From the "Home" screen, press **Setup** and the **System Setup** icon. 2. Press the **Advanced Setup** icon. 3. Enter your Authorized Code. 4. Press the **Keypad Reset** icon.	If the keypad requires resetting, press **OK** and the keypad resets. If **Cancel** is selected, keypad is not reset.

Keypad Test

A series of diagnostic tests are provided that allows verification of correct operation of the keypad and its connections to the security system. There are a total of four diagnostic tests; **LCD Display Test, Audio Test, LED Test,** and **Calibration Test**.

Performing Diagnostic Tests

Select any diagnostic test from the Diagnostics screen by pressing its associated **Test** icon. All or any individual test may be run when you access the Diagnostics screen; however, each test must be performed one at a time.

At any time when a test is not being performed, you can press:

- back to return to the previous screen, or
- home to return to your home page.



Once the Diagnostics screen is exited, subsequent entry to this screen displays all test options as "Not Performed."

LCD Display Test

Perform the LCD Display Test as follows:

ICON	ACTION	NOTES
	1. Press the **Advanced Setup** icon. 2. If applicable, enter your Authorized Code.	The **Emergency** screen cannot be accessed while running the LCD Display Test.
	3. Press the **Keypad Test** icon.	
	4. Press the **LCD Display Test** icon; a series of screens appear. After each type of display, you are asked if the display was proper.	If the response to all questions is yes, the LCD Display Test message area of the Diagnostics screen displays "**Passed**".

Audio Test

Perform the Audio Test as follows:

ICON	ACTION	NOTES
	1. Press the **Audio Test** icon; "**Testing**.." is displayed while beeps sound from the speaker. At the conclusion of the test, a pop-up "Confirmation Window" is displayed with the question **"Did you hear Beeping?"**	When you press **Yes**, **"Passed"** is displayed in the test status column on the "Diagnostics" screen. When you press **No**, **"Failed"** is displayed in the test status column on the "Diagnostics" screen.

LED Test

Perform the LED Test as follows:

ICON	ACTION	NOTES
	1. Press the **LED Test** icon; "**Testing**.." is displayed while the 3 LEDs light sequentially, top to bottom (red, green, yellow), 5 times.	At the conclusion of the test, a pop-up "Confirmation Window" is displayed with the question **"Did you see chasing LED pattern?"** If you press **Yes**, "Passed" is displayed in the test status column on the "Diagnostics" screen. If you press **No**, "Failed" is displayed in the test status column on the "Diagnostics" screen.

Calibration Test

If the Touch Screen requires recalibration, do the following:

ICON	ACTION	NOTES
	1. Select the **Calibration** icon and using a stylus, follow the screen directions by pressing a series of crosshairs (**+**) and boxes (❑) on the screen until done. 2. If the test was successful, press **OK**. 3. If the test was unsuccessful, choose to **Retry, Ignore** or **Exit.**	If the Calibration test was successful, a confirmation screen appears stating: "**Congratulations Calibration Successful!!!**" If the test was unsuccessful, an error message appears indicating the **Part** of the screen that failed and stating: **"Calibration failure, do you want to retry?"**

Z-Wave Test

NOTE: This procedure is for Z-Wave test purposes only.

Role shifting is the process of shifting primary and secondary controllers. The secondary controller becomes the primary controller with the ability to enroll Z-Wave devices. This is useful when the primary controller is in a fixed location and the Z-wave device is not easily accessible (but within Z-wave range). To perform the role shifting Z-Wave Test, do the following:

ICON	ACTION	NOTES
	1. Press the **Advanced Setup** icon. 2. Enter your Authorized Code.	
	3. Press the **Keypad Test** icon.	
  	4. With the status of the controller in the "**P**" (Primary) state, press the **Z-Wave Primary Controller Shift to Secondary** icon. A pop-up window is displayed with the following warning: "**Warning!! This Z-Wave controller shift function is for evaluation only now. This primary controller is shifting to the secondary. Please wait until the process completes.** 5. To shift the primary controller role to a handheld controller, follow the handheld controller manufacturer's instructions. The pop-up message disappears and controllers have shifted successfully. Z-Wave devices can now be enrolled from this controller. **Note:** The **Z-Wave Primary Controller Shift to Secondary** icon is inactive when the Tuxedo Touch becomes the secondary controller. The Shift is completed when the warning window disappears. 6. Shift the Tuxedo Touch back to the primary controller after enrolling Z-wave devices. First, initiate the role shift on the handheld controller from primary to secondary referring to manufacturer's instructions. Then, press the **Z-Wave Secondary Controller Shift to Primary** icon on the keypad.	Select from two main categories of tests: • **Z-Wave Role Shifting:** Primary to Secondary and Secondary to Primary. • **Z-Wave Basic Command:** Set On or Off. **Note:** The status of the controller can only be changed from Primary to Secondary controller when no devices are enrolled. Use the delete device or reset controller function to remove enrolled devices.

ICON	ACTION	NOTES
	7. Select the **Z-Wave Basic Command Set On** icon to turn On all lamp modules, dimmer On/Off switches and receptacles.	**Note**: This command does not control door locks or any other security enabled devices.
	8. Select the **Z-Wave Basic Command Set Off** icon to turn Off all lamp modules, dimmer On/Off switches and receptacles.	

NIGHT Setup Function

The NIGHT function can be set to arm the system in one of five arming modes:

- Away - Arms all zones with entry delay.
- Stay - Arms perimeter zones with entry delay.
- Instant - Arms perimeter zones without entry delay.
- Night (Residential Panels Only) – Arms all perimeter zones plus all zones listed in Zone List 5.
- Maximum - Arms all zones without entry delay. Not to be used for ANSI/SIA CP-01 installations.

To set the NIGHT function, do the following:

ICON	ACTION	NOTES
	1. Press the **System Setup** and **Advanced Setup** icon. 2. Enter your Authorized Code, if required.	
	3. Press the **Night Setup** icon. 4. Select the arming mode to be activated when **NIGHT** is selected on the "Arming" screen.	**Apply** accepts the setting. **Back** cancels your selection.

Output Setup Function

The Output Setup function allows you to disable Output selection. There are a maximum of 18 outputs that can be enabled or disabled. To set the Output Setup function, do the following:

ICON	ACTION	NOTES
 	1. Press the **System Setup** and **Advanced Setup** icon. 2. Enter your Authorized Code, if required. 3. Press the **Output Setup** icon. 4. Press the **Output Disable** icon to disable the selection. 5. Press the **Output Enable** icon to enable the Output selection.	This is a local setting for the graphic keypad. If user has the maximum number of keypads on the system, and wants to disable the same output for all, each keypad needs to be set individually. **Apply** accepts the setting. **Back** cancels your selection.

Output Setup Icons

 Output Disable	 Output Enable	 Apply	 Back

Automation

Before a device will work in the home control network, it must be "Included" (added) into the network. Follow the instructions below to Include a Z-Wave enabled device into a home control network using the Tuxedo Touch keypad **and** follow the instructions in the Z-Wave device User Guide for your specific device.

NOTE: Z-Wave applications have not been evaluated by UL.

WARNING: Automation is intended for lifestyle convenience. Do not use automation for life safety and property protection.

UL	Automation functionality is supplementary only and has not been evaluated by UL.

Including/Adding Z-Wave Devices

Before including Z-Wave devices, each device must be installed according to the manufacturers' instructions and in their final location and turned on.

UL	Access control functionality has not been evaluated by UL and may not be used in UL Listed applications.

Include/Add a Light, Switch or Outlet Module

To include a Z-Wave Light, Switch or Outlet module, do the following:

ICON	ACTION	NOTES
	1. At the Tuxedo Touch Keypad: a) Press the **Automation** icon from the "Home" screen and then press the **Z-Wave Setup** icon to display the "Z-Wave Device Management" screen. b) Press the **Z-Wave Include/Add** icon.	**Note:** Z-Wave light modules may vary; follow the instructions in the User Guide for your specific device to include properly. • If a dimmer module was added, an On/Off button and a slide bar (to control the dimmer) are displayed. • If an on/off light, appliance, switch or outlet module was added, an On/Off button (to control the device) is displayed. The keypad displays a series of messages: **"Start add device."** **Please press function key on device"** **"Adding Controller Unit"** **"Adding Slave Unit"** **"Device added successfully"**
	2. At the device Module: a) Press the **Function Key** on the device.	

Z-Wave Device Management Icons

								
Include/Add	Exclude/Delete	Abort	Remove Failed	Edit	Reset Default	Router	Security	Link

Include a Door Lock

Assemble the Z-Wave door lock (if required); install batteries and connect necessary cables (refer to the Door Lock's *Instruction Guide*). Enroll the door lock adjacent to the keypad and mount within the proper Z-Wave range (refer to the "*Important No*tes" section for further information.

NOTE: Program the user code in the control panel prior to programming that user code into the door lock. User Codes must be 4-digits.

Include a door lock device as follows:

ICON	ACTION	NOTES
  	1. At the Tuxedo Touch Keypad: a) Press the **Automation** icon from the "Home" screen and then press the **Z-Wave Setup** icon to display the "Z-Wave Device Management" screen. b) Press the **Z-Wave Include/Add** icon. 2. At the door lock: a) Program the selected user code from the panel; refer to Door Lock *User Guide*.	**Note:** Door lock devices may vary; follow the instructions in the *Users Guide* for your specific door lock to include properly and to program a new user code. The keypad displays a series of messages: "**Please press function key on device**" "**Adding to Security Network**" "**Device added successfully**" **Note:** If software is upgraded on the Tuxedo Touch keypad, re-included the door lock and re-set the user code in the door lock. Follow the screen instructions to complete the inclusion.

Include a Honeywell Thermostat

Install a Honeywell Thermostat according to the manufactures instructions. Device should be mounted in the final location and tested before adding it to the system.

To include a Honeywell Thermostat into a Z-Wave network, do the following:

ICON	ACTION	NOTES
   	1. At the Tuxedo Touch Keypad: a) Press the **Automation** icon from the "Home" screen and then press the **Z-Wave Setup** icon to display the "Z-Wave Device Management" screen. b) Press the **Z-Wave Include/Add** icon. 2. At the Z-Wave thermostat: a) Select **Thermostat**; set the Time and Date. b) Follow the instructions in the thermostat *Installation Guide* for "Z-Wave inclusion". c) To complete inclusion, press **Done.** d) Press **Exit** on the thermostat to return to normal operation. 3. At the Tuxedo Touch Keypad: a) To verify activation, press the **Back** icon and wait 30 seconds.	**Note:** If installing another brand of thermostat, follow the instructions in the *Users Guide* for that specific thermostat to include properly. Some thermostats do not update temperature status automatically (i.e., Wayne Dalton). **IMPORTANT:** Honeywell is not responsible for property damages due to improper setting of the thermostat modes. The keypad displays a series of messages: **"Please press function key on device"** **"Adding Controller Unit"** **"Adding Slave Unit"** **"Device added successfully"** Follow the screen instructions to complete the inclusion. Press the **Refresh** icon; the device is displayed.

Editing Z-Wave Device Names

Edit a Device Module Name

To edit a device name, do the following:

ICON	ACTION	NOTES
  	1. At the Tuxedo Touch Keypad: a) Press the **Automation** icon from the "Home" screen and press the **Z-Wave Setup** icon to display the "Z-Wave Device Management" screen. b) Highlight the device name and press the **Z-Wave Edit** icon. c) On the "Data Entry" keyboard, press **Clear** and enter a new name. d) Press **OK**.	Enter the new device name by entering it on the data entry keyboard. • Use the **Shift** icon for capital letters. • Use the **BS** (Backspace) icon to make corrections. The **@#$** icon is not available for use at this time.

Exclude/Delete Z-Wave Devices

Exclude a Light, Outlet, or Switch Module

To exclude a device from the Z-Wave network, do the following:

ICON	ACTION	NOTES
 	1. At the Tuxedo Touch Keypad: a) Press the **Automation** icon from the "Home" screen and then press the **Z-Wave Setup** icon to display the "Z-Wave Device Management" screen. b) Highlight the device to exclude and press the **Z-Wave Exclude/Delete** icon. 2. At the device module: a) Press the **Function Key** to exclude the device from the keypad.	**Z-Wave Exclude/Delete** -clears the node from the keypad and resets device to the default setting. **Notes:** • If the device is not excluded, refer to the "*Z-Wave Troubleshooting"* section. • To remove a defective device, refer to the *Z-Wave Troubleshooting* section.

Exclude a Door Lock Device

To exclude a door lock module from the Z-Wave network, do the following:

ICON	ACTION	NOTES
 	1. At the Tuxedo Touch Keypad: a) Press the **Automation** icon from the "Home" screen and then press the **Z-Wave Setup** icon to display the "Z-Wave Device Management" screen. b) Highlight the device to exclude and press the **Z-Wave Exclude/Delete** icon. 2. At the door lock: a) Press the **Function Key** to exclude the device from the keypad.	**Z-Wave Exclude/Delete**-clears the node from the keypad and resets device to the default setting. **Notes:** • If the device is not excluded, refer to the "*Z-Wave Troubleshooting*" section. • When excluding the door lock, the user code associated with the door lock will remain in the system. If needed refer to the panel *Installation Instructions* on how to exclude this user code. • To remove a defective device, refer to the "*Z-Wave Troubleshooting*" section.

Exclude a Honeywell Thermostat

To exclude a Honeywell Thermostat from the Z-Wave network, do the following:

ICON	ACTION	NOTES
	1. At the Tuxedo Touch Keypad: a) Press the **Automation** icon from the "Home" screen and then press the **Z-Wave Setup** icon to display the "Z-Wave Device Management" screen. b) Highlight the thermostat and press the **Z-Wave Exclude/Delete** icon.	**Note:** Honeywell is not responsible for property damages due to improper setting of the thermostat modes. **Z-Wave Exclude/Delete** -clears the node from the keypad and resets device to the default setting.
	2. At the thermostat: a) Follow the instructions in the thermostat *Installation Guide* under "*Installer setup"* to "Remove a Z-Wave Network Connection". b) Once the exclusion process is complete, press **Done** and the thermostat is excluded.	**Notes:** • If the device is not excluded, refer to the "*Z-Wave Troubleshooting*" section. • To remove a defective device, refer to the "*Z-Wave Troubleshooting*" section.

Exclude All Z-Wave Devices

ICON	ACTION	NOTES
 	1. At the Tuxedo Touch Keypad: a) Press the **Automation** icon from the "Home" screen and then press the **Z-Wave Setup** icon to display the "Z-Wave Device Management" screen. b) Press the **Z-Wave Reset** icon to delete all devices from the controller. c) Press the **Continue** or **Cancel** button.	The message is displayed: **WARNING!! This Z-WAVE controller is about to be factory defaulted and will loose all devices in the enrolled list. All Z-WAVE devices must be re-enrolled.**

Abort a Z-Wave Action

ICON	ACTION	NOTES
 	1. At the Tuxedo Touch Keypad: a) Press the **Automation** icon from the "Home" screen and then press the **Z-Wave Setup** icon to display the "Z-Wave Device Management" screen. b) Press the **Z-Wave Abort Operation** icon to abort that process.	If inadvertently a wrong process is selected, (i.e., add, delete, or remove failed device) press the **Z-Wave Abort** icon to abort that process.

Creating a Scene

The Scene feature is used to control a single device, or multiple device control commands that function according to pre-set "Conditions", "Triggers", and "Actions". When a trigger/condition occurs, the action is executed. A total of 10 Scenes can be created. Follow the steps below to define one or more device actions for a Scene and refer to the "Scene Rules" below.

ICON	ACTION	NOTES
	1. At the Tuxedo Touch Keypad: a) Press the **Automation** icon and then press the **Scene Setup** icon to display the "Scene Management" screen.	
	b) Press the **Add** icon to set up a Scene. c) Press the **Name** box, enter a **Scene Name** and press **OK**.	Enter the new device name by entering it on the data entry keyboard. • Use the **Shift** icon for capital letters. • Use the **BS** (Backspace) icon to make corrections. The **@#$** icon is not available for use at this time.
	d) Select a "Condition", "Trigger", and "Action" that you want to occur for this Scene and after each selection is complete, press **Save** after each step!	
Scene Icons		
 Add	 Edit User	 Delete	After each selection is complete, press **Save** to keep the settings, press **Delete** to cancel, or **Edit** to change your selections.

Scene Rules

- Each Trigger event can have up-to 3 Actions.
- A Trigger event and Condition cannot be the same (i.e., if setting a Trigger event for SECURITY, you cannot set a SECURITY Condition).
- A total of 10 Scenes can be created.
- On commercial panels the programming option for "Global Keypad" must be set to "0" for some Scenes to work properly.

To create a Scene:

Step 1: Define a Trigger event (i.e., SECURITY: System Armed).
Step 2: Define an Action to happen when the Trigger event occurs (i.e., LIGHT: Off).
Step 3: If required, define a Condition for the Trigger event to occur (i.e., TIME: Mon-Fri).

Add a Trigger
In the "Trigger" box, press the **Add** icon. Press the **TIME** button and **Set the occurrence** to **Repeated**, or **Once**. If "Repeated" was selected, choose the desired days of the week; or **Enter Date** for an occurrence that happens **Once**. Press the **SECURITY** button and select a security mode: **DISARM**, **AWAY**, **STAY**, **NIGHT** (for residential panels only) . Press the **THERMOSTAT** button to select the **Thermostat Devices** from the drop down menu. Use the **ABOVE** and **BELOW** button to increase/decrease the temperature range or press the **Temperature Value** box and enter 2 digits for the desired temperature. **Note:** Test thermostats first to ensure proper function in the "Scene" feature. Press the **DOOR** button to select a **Door Device** from the drop-down menu (see notes below). Select **LOCKED**, **UNLOCKED** or **CODE UNLOCKED**. Press **Save.**
Add an Action
In the "Action" box, press the **Add** icon. Set the **SECURITY** mode to: **DISARM**, **AWAY**, **STAY**, **NIGHT**. Enter **User Code,** if required. Press the **LIGHT** button and select a **Light Device** from the drop down menu; set the action to **ON** or **OFF**. Press the **THERMOSTAT** button and select a **Thermostat Device** from the drop-down menu. Press the **Set Mode** button to set the Action to "Off", "Heat", or "Cool". Press the **Set Energy** button and select from "Normal" or "Saving" energy mode. Press the **Set Point** button and enter a set point value for "Heat Point" and "Cool Point". **Note:** Test thermostats first to ensure proper function in the Scene feature. Press the **DOOR** button and select a **Door Device** from the drop-down menu (see notes below). Set the action to **LOCKS** or **UNLOCKS**. Press **Save**.
Add a Condition
In the "Condition" box, press the **Add** icon. Set the **TIME: Set the occurrence** to **Repeated**, or **Once**. Follow the screen instructions to select the days of the week if "Repeated" was selected or "Enter Date" for an occurrence that happens **Once**. Press the **SECURITY** button and select a security mode: **DISARM**, **AWAY**, **STAY**, **NIGHT**. Press the **THERMOSTAT** button and select a **Thermostat Device** from the drop down menu. Use the **ABOVE** and **BELOW** buttons to increase/decrease the temperature or press the **Temperature Value** box and enter 2 digits for the desired temperature. **Note:** Test thermostats first to ensure proper function in the Scene feature. Press the **DOOR** button and select a **Door Device** from the drop-down menu (see notes below). Select **LOCKED** or **UNLOCKED**. Press **Save.**

Notes:

1. Motorized door lock bolts physically lock and unlock the door when activated, but if the door lock installed is a non-motorized type, activation allows the door to be manually unlocked without a key. See "*Compatible Devices*" section for further information.
2. Some thermostats do not update temperature status automatically (i.e., Wayne Dalton).
3. When using a Kwikset Smartcode Electronic Deadbolt door lock (in a Scene that is programmed to trigger when unlocked) the Scene does not trigger if using a key; enter a user code.

Create a Room

Multiple devices can function as a group by associating them in a "Room". Follow the procedure below to create a Room.

ICON	ACTION	NOTES
 	1. Press the **Automation** icon and then press the **Room Setup** icon. 2. Press the **Add** icon and enter a room name on the "Data Entry" keyboard. 3. Press **OK**. 4. Highlight the device(s) from the list that you want to add to this Room and press the **Save** icon.	Room names (i.e., All, etc.) are displayed across the top to the screen. Enter the new device name by entering it on the data entry keyboard. • Use the **Shift** icon for capital letters. • Use the **BS** (Backspace) icon to make corrections. The **@#$** icon is not available for use at this time. Use the Edit and Delete icon to rename, or delete a room.
Room Setup Icons		
 Delete	 Edit	 Add  Save	

Setting a Secondary Controller

After all Z-Wave devices have been included into the Primary Controller, the device information on the Primary Controller can be downloaded to a Secondary Controller. Apply power to the Secondary Controller and do the following:

ICON	ACTION	NOTES
	1. On the Primary Controller: a) Press the **Automation** icon from the "Home" screen and then press the **Z-Wave Setup** icon to display the "Z-Wave Device Management" screen.	The message is displayed: **"Please remove all Z-wave devices from network first"**
	2. At the Secondary Controller: a) Remove any Z-Wave devices that have been added. b) Press the **Z-Wave Primary** icon (located in the lower right side of the screen). c) Select **Yes** to change this keypad to a Secondary Controller.	The message is displayed: **"Scanning for Devices"** The message is displayed: **"Updating Devices. Please Wait".** When the device information from the Primary Controller is downloaded to the Secondary Controller: • the Secondary Controller displays, **"Controller Add Success".** • the Primary Controller displays, **"Device Added Successfully".**
	3. At the Primary Controller: a) Press **Add**. 4. At the Secondary Controller: a) Press **Add**.	

Updating Controllers with New or Removed devices

When devices are added or removed from the Z-Wave network, the device information needs to be updated in the Controllers. To update this information, from the Primary controller, do the following.

ICON	ACTION	NOTES
	1. Press **Add** on Primary controller. 2. Press **Add** on Secondary controller.	The controller scans for device changes. The message is displayed: **"Devices added Successfully"**

Removing a Secondary Controller

To remove the Secondary controller, do the following:

ICON	ACTION	NOTES
	1. At the Primary Controller keypad: a) Press **Delete**. 2. At the Secondary Controller keypad: b) Press **Delete**.	Both keypads will display, **"Device Removed"** and the Secondary Controller keypad will revert back to the Primary Controller.

Z-Wave Troubleshooting

PROBLEM		SOLUTION
Cannot add new device.		Make sure Z-Wave device is within range of the keypad. You may need to move device closer to the keypad. Refer to the Z-Wave devices' *Instruction Guide* for proper range.
Device is within proper range but still will not include.	 	1. At the Tuxedo Touch Keypad: a) Press the **Automation** icon from the "Home" screen and then press the **Z-Wave Setup** icon to display the "Z-Wave Device Management" screen. b) If the device does not appear on the screen, press the **Z-Wave Exclude/Delete** icon. 2. At the Z-Wave device, press the **Function Key**. The screen will display a message "**Device Removed**". 3. At the Tuxedo Touch Keypad: a) Include device again.
Highlighted device will not delete.		When deleting a device, if the selected device remains on the screen, highlight the device name and press the **Z-Wave Removed Failed** icon.

Compatible Devices

Z-Wave devices may vary; follow the instructions in the *Users Guide* for your specific device when adding and deleting devices into the Z-Wave network.
Refer to the table below for some of the compatible devices.

Door Locks
Yale Real Living Push Button Lever Lock
Yale Real Living Touchscreen Lever Lock
Yale Real Living Push Button Deadbolt Lock
Yale Real Living Touchscreen deadbolt Lock
Schalge Link Deadbolt Lock
Schlage Link Lever Lock
Kwikset Smartcode Lever lock
Kwikset Smartcode Deadbolt Lock
Thermostats
Honeywell ECC
Wayne Dalton Zwave thermostat
Trane Zwave Thermostat
Appliance
HomeManageable Appliance Module
Wayne Dalton Small Appliance Module
GE wireless lighting control plug in appliance module
SOMFY
Lights
Leviton/ViziaRF+ switches
Leviton/ViziaRF+ dimmers
Leviton/ViziaRF+ plug in modules
GE wireless lighting control dimmers
GE wireless lighting control Switches
GE wireless lighting control plug in lamp modules

Not all features are supported for off-the-shelf Z-Wave devices.

Important Notes

For additional troubleshooting procedures, refer to the Control Panel Installation Guide.

General Notes

- You may check to see whether the Chime Mode is ON or OFF by viewing the keypad Operating Modes screen as described in "Operating Modes" in Section 5 of the keypad Installation and Setup Guide.
- Note that some displays on the keypad may not have enough space to display the whole name of a partition. When this occurs, the display shows as many characters as possible starting at the beginning of the partition name. We recommend that the partition name be kept to a maximum of 7 characters to ensure the "H" which indicates the home partition may be seen.
- "Exit Error" and "Auto Arm Alert, Please Leave Now" messages are not displayed by the keypad.
- When the system has 6150Vs or 6160Vs, and 6271Vs attached, the Additional Console setting in the 6150Vs (displayed as A on the 6150V) must be set to 1 and the Additional Console setting in the 6160Vs must be set to Yes.

Commercial System Notes

- If the Aux Relay function is set for alarm silenced by User Code + # + 67, this command may only be entered in the console emulation mode.
- Do not use the common lobby logic function.
- If fields 2*22 (Display Fire Alarms of other Partitions), 2*23 (Display Burg & Panic of other Partitions), or 2*24 (Display Troubles of other Partitions) are enabled, the zones that created the conditions cannot be viewed. You must go to that zone's home partition to view.
- If field 1*11 (Zone Bypass After Disarm) is enabled, you must use the keypad's Console Emulation Mode and the commands "Code" + "64" (unbypass all) or "Code" + "6" + "Zone Number" (unbypass zone) to remove zone bypasses.
- The First to Alarm Display Lock feature (field 1*10) is not supported by the keypad.
- RF Low Battery messages are not supported by the keypad except in the Show Zones screen where a Battery Icon is displayed for the zone with the low battery.

Residential System Notes

- If the Clean Me option is set, when the maintenance signal is received a "Fire Maintenance" message and the Display Faults icon is shown. However, if you display the faults, zone 1 is not shown as a faulted zone.
- If RF Jam Reports are selected and RF Jam is detected, the User Authorization screen displays "Trouble ZN100 RF Receiver". If you enter the console emulation mode, the display shows "Check 90 RF Receiver Jam".
- Do not use the Custom Word reminder feature.

User Related Notes

- Users added to the system using the keypad graphic user screen must be deleted from the keypad using the graphic screen as well. Deleting users from the panel by any other means (alpha keypad, console emulation mode, or Compass downloader) does not automatically delete them from the keypad.

- If the panel has exit tones enabled and you arm the system in the Away mode, the keypad beeps continuously throughout the exit period.

Use the console emulation mode for the following functions:

- Programming more than 10 system users.
- Programming the Pager report option for users of residential control panels (e.g., VISTA-15P and VISTA-20P).
- Special Function Key operations (such as macros or single-button paging).
- End-User Scheduling.
- To check for an "Alarm Cancelled" message if this feature has been enabled in the system.

Wireless Range

This device complies with the Z-Wave® standard of open-air, line of sight transmission distances of 100 feet. Actual performance in a home depends on the number of walls between the controller and the destination device, the type of construction and the number of Z-Wave enabled devices installed in the control network.

Please Note: Z-Wave home control networks are designed to work properly alongside wireless security sensors, Wi-Fi, Bluetooth and other wireless devices. Some 900 MHz wireless devices such as baby cams, wireless video devices and older cordless phones may cause interference and limit Z-Wave functionality.

Things to consider regarding RF range:

- Each wall or obstacle (such as refrigerator, big screen TV, etc.) between the remote and the destination device will reduce the maximum range of 100 feet by approximately 25-30%.
- Brick, tile or concrete walls block more of the RF signal than walls made of wooden studs and drywall.
- Wall mounted Z-Wave devices installed in metal junction boxes will suffer a significant loss of range (approximately 20%) since the metal box blocks a large part of the RF signal.

WARNING: NOT FOR USE WITH MEDICAL OR LIFE SUPPORT EQUIPMENT!

Z-Wave enabled devices should never be used to supply power to, or control the On/Off status or medical and /or life support equipment.

Controlling Devices:

The features and functions that can be controlled vary by manufacturer and you will need to review the user manual that was provided to determine capabilities of each device.

IMPORTANT: Honeywell is not responsible for property damages due to improper setting of the thermostat modes.

Effects of Home Construction on Wireless Range between Z-Wave Enabled Devices

Note: The distances shown in the table below are typical examples. Actual performance in your home will vary.
From the Remote (or repeating Z-Wave module) to the destination device:

Number of Walls or Obstacles	Type of Construction			
	Wood Frame with Drywall		Brick, Tile or Concrete	
	Plastic J-Boxes*	Metal J-Boxes	Plastic J-Boxes*	Metal J-Boxes
0**	100 ft	80 ft	100 ft	80 ft
1	70 ft	56 ft	60 ft	48 ft
2	49 ft	39 ft	36 ft	29 ft
3	34 ft	27 ft	21 ft	17 ft

* For Plug-in modules or in-wall devices installed in plastic junction boxes.
**Line of sight / no obstructions.

Z-Wave devices are identified by the Z-Wave logo and can be purchased from your local retailer.
Z-Wave is a registered trademark Sigma Designs, Inc. and/or its subsidiaries.

SPEAKS Z-WAVE®

UL	CO annunciation has not been investigated by UL and may not be used for UL installations.

FEDERAL COMMUNICATIONS COMMISSION STATEMENTS

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

FCC CLASS B STATEMENT

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- If using an indoor antenna, have a quality outdoor antenna installed.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the receiver/control.
- Move the antenna leads away from any wire runs to the receiver/control.
- Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

INDUSTRY CANADA CLASS B STATEMENT

ICES-003 Class B Notice - Avis NMB-003, Classe B

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC / IC STATEMENT

This device complies with Part 15 of the FCC Rules, and RSS 210 of IC. Operation is subject to the following two conditions: (1) This device may not cause harmful interference (2) This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la partie 15 des règles de la FCC & de RSS 210 des Industries Canada. Son fonctionnement est soumis aux conditions suivantes: (1) Cet appareil ne doit pas causer d' interferences nuisibles. (2) Cet appareil doit accepter toute interference reçue y compris les interferences causant une reception indésirable.

For the latest warranty information, please go to:
www.honeywell.com/security/hsc/resources/wa

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