

Honeywell Home



**Tuxedo Touch™ Wi-Fi®
Models TUXWIFIS and TUXWIFIW
Home Automation System**

User Guide

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<p>NOTE: This device is a Security Enabled Z-Wave Controller</p>

About the System

Introduction

Congratulations on your ownership of a Resideo Tuxedo Touch™ Home Automation System which combines home-automation and home security. Equipped with Wi-Fi® capability and built-in Z-Wave® technology, Tuxedo can be retrofitted into home electronic devices and systems without interference from common household wireless electronics. A Product/Training Video is provided containing easy step by step tutorials to assist with the setup and customization of your system.

Tuxedo Features

Feature	Description
Local Wi-Fi Access	<p>The Tuxedo keypad contains a built-in web server, which allows local Wi-Fi access to the system via any web-enabled device. In addition, a user account can be set up, which provides a user name and password login before entering the Tuxedo home screen to protect against unauthorized access.</p> <div> <div>UL</div> <div>Wi-Fi has not been evaluated by UL applications.</div> </div>
Resideo Total Connect™ Remote Services	<ul style="list-style-type: none"> • Tuxedo supports Remote Services for controlling Z-Wave devices and scenes remotely from an associated Total Connect™ account (contact an AlarmNet® representative to open an account if necessary). • With Tuxedo automation, Z-Wave devices can be controlled from a smart phone, iPad®, Android™ Tablet, or PC using Total Connect. <p>Tuxedo includes webpage support for IE8 and IE9.</p>
Home Automation	Control lights, thermostats, door locks, shade controllers, garage door controllers, Z-Wave enabled water valves and other Z-Wave devices automatically and easily add or remove Z-Wave devices to the system. Tuxedo supports up to 232 devices (including the Tuxedo keypads) in the Z-Wave network.
Create Automation Scenes	Define system actions for automatic start and stop parameters when certain conditions occur. Supports up to 30 scenes locally and 20 remotely through Total Connect.
View Cameras	View up to four cameras at the same time. Supports up to 32 cameras.
Customizable Home Screen	The Multi-Media application allows you to display your personal photos(s) on the Home screen as wallpaper or in a slide show format via the external SD card.
Messages	Tuxedo can record unlimited voice messages for others on the premises. The total time of all messages cannot exceed 120 seconds.
Video Viewing	Tuxedo allows you view videos from the Home screen. A Video Converter is required. See Video Setup section for details.
Security System	Control your security system via Tuxedo menus. Offers you burglary protection and may provide fire, carbon monoxide and emergency protection. See your installer for details.
Email Notification	<p>Receive email notifications when certain events occur. Notifications can be sent to up to four email addresses.</p> <div> <div>UL</div> <div>Email Notifications are supplementary only and not been evaluated by UL</div> </div>

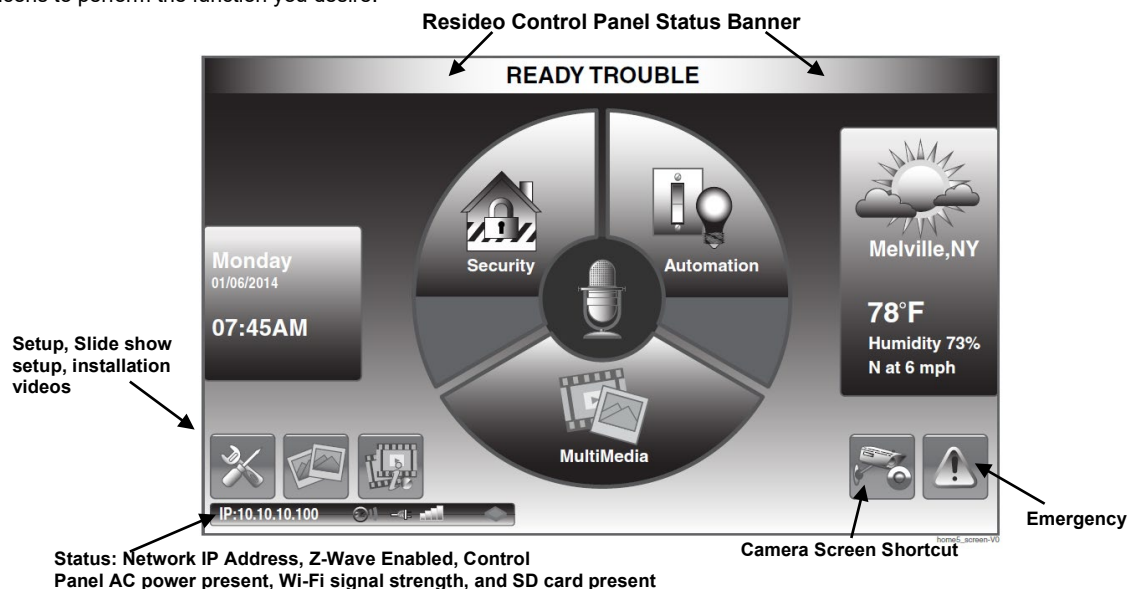
About the System (cont'd)

Output Setup Function	Tuxedo can activate/deactivate up to 18 pre-defined control panel output functions (if programmed in the control panel). These output functions are typically used to turn on lights or active relay devices.
Weather Forecast	The *Weather forecast (if enabled) is displayed on the "Home" screen. Press the "Weather" feature to enter your location and temperature unit. *Enable the weather option by pressing Setup > System Setup > CS Setup > Options .
Operating Modes	Normal Mode - used for security panel operation. Demo Mode - allows the automation and multi-media features to operate in a non-security mode for demonstration purposes only. Automation (Occupancy) Mode is used to simulate a security system when a security system is not connected. Automation mode allows you to set the Tuxedo in two conditions: Residential and Commercial. Scenes can be set to trigger based on the status of these settings. Safe Mode is a limited mode of operation that serves as a backup mode to ensure that you can communicate with your system. Refer to the Safe Mode section for further information.
Switchable Themes (Views)	Switch from normal view to mobile view depending on the type of device used with the Tuxedo (pertains to viewing the Tuxedo via a compatible web browser. Refer to Remote Access section for details.
User Codes	Each user was assigned a name and 4-digit user code by your installer at the time of installation. Additional users can be added as needed, for a total of 10 users. Additional codes can be programmed from the Console Mode by pressing Security > More Choices > Console Mode .
Extended Functionality	Additional control panel functions can be accessed through the console emulation mode which emulates a standard alpha keypad on your Tuxedo touch-screen.
Setup Menus	If needed, various system settings can be programmed including time and date, remote access, display and audio features, language selection, etc.
Software Upgrades	Software upgrades may be available for this product. To ensure you have the latest version, verify the SD card is installed and 200mb of space is available; check the version in your system (see the Software Upgrades section for details). <div style="text-align: center; border: 1px solid black; padding: 5px; margin-top: 10px;"> <div style="display: inline-block; text-align: center; width: 40px;"> UL </div> <div style="display: inline-block; vertical-align: middle;"> Automatic software updates are not applicable for UL application </div> </div>

About the System (cont'd)

Home Page

Navigation through the Tuxedo typically begins from the "Home" screen. It is from this screen that you select from the main menu. Once you have made your selection, you can navigate through various sub-menus by pressing graphical icons to perform the function you desire.



Multi-Media Options

The Picture/Video features allow you to display personal photos, and view video files via the external SD card. In addition, software updates can be downloaded to the SD card, if necessary. An SD card is provided with 4GB of available space. It is recommended that you use the SD card supplied.

In everyday handling, memory cards can become susceptible to malfunction and/or failure due to electrostatic discharges and the information on the card may be lost. In some extreme cases, the Tuxedo may need to be reset.

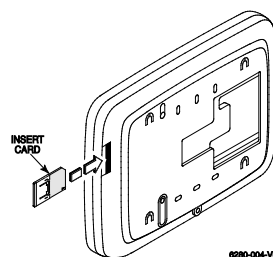
NOTE: Resideo is not responsible for any loss of personal information (files, videos, photos, etc.)

Memory Card Insertion

Insert the memory card (SD/SDHC Card) as shown.

Tips for proper memory card handling

- Avoid touching the contacts on the card
- Quit the slide show/video application before removing the memory card.



About the System (cont'd)



















Data Entry Keyboard

Throughout this document, the user is required to enter information on the Tuxedo keypad (i.e., password, device names, etc.) Use the Data Entry Keyboard to enter all required information.





- Press the **Up Arrow** to switch to upper case characters.
- Press the **Space** key to add a space between characters.
- Press the **X** key to delete/backspace.
- Press the **ABC/123** key to switch between numerals and symbols/characters.
- Press **GO** to return to the previous screen.

Navigation Icon Descriptions

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

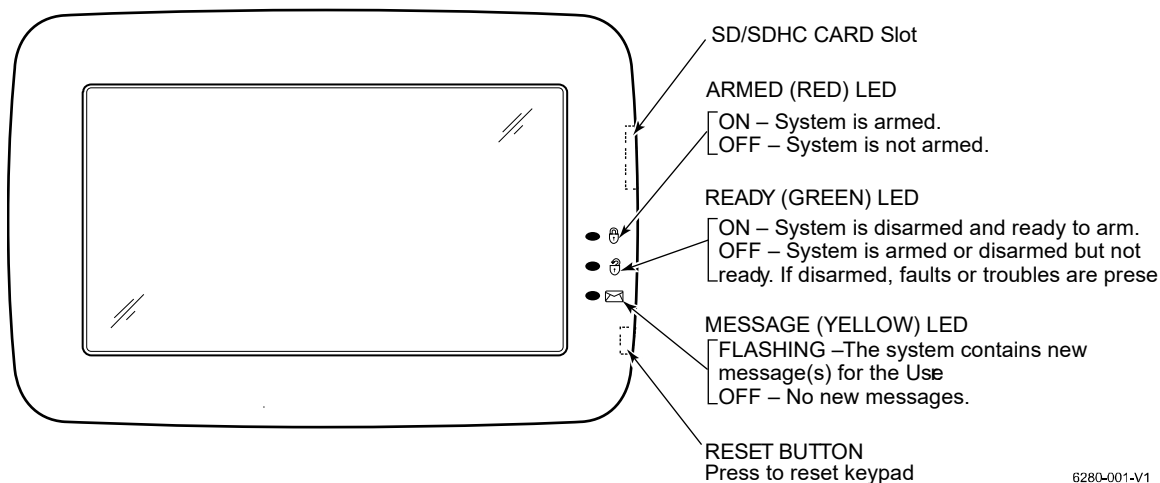
ICON	ICON TITLE	FUNCTION	ICON	ICON TITLE	FUNCTION
	"Product Video"	Accesses Product Introduction and Training Videos.		"Setup"	Accesses the Setup menus.
	"Automation"	Accesses the Z-Wave setup, Scene setup, and Room/Group setup screens.		"Multimedia"	Accesses the Message, Camera, Picture and Video features.
	"Security"	Accesses the "Security" screen.		"Video"	Allows user to play video files.
	"Home"	Returns to the Main menu (Home) screen.		"Picture"	Allows user to display personal photo(s) as wallpaper or in a slide show format.
	"Back"	Returns to the previous screen.		"Control Panel Message"	This icon alerts the user to a Control Panel Message.
	"Voice Status"	Allows user to hear system status.		"Weather"	Press to access weather settings.
	"E-Mail"	Allows the user the ability to configure email notifications.		"Account Login"	Allows the user to configure the users assigned to remote access.
	"IP Setup"	Gains access to the IP Setup (LAN/Wi-Fi) setup.		"Display & Audio"	Screen and Audio options.
	"System Information"	This screen reviews the software version and networking information.		Voice Icon	Appears when initiating a voice command.

About the System (cont'd)

	"Panic"	Displays Emergency functions (as programmed by the installer).		"Message"	Record and retrieve Voice Messages.
		Note: This icon is displayed and active on all screens except while in the Clean Screen mode, during an LCD Display test in <i>Diagnostics</i> and from the Video and Camera screens.		"Camera"	Press to access camera settings.
				"Event View"	Press to access video recordings.

LED Operation

The Tuxedo has three LEDs as follows:



Screen Blackout (EN50131 Display)

The Screen Blackout feature prevents unauthorized users from viewing the status of the Security System by returning to the Home screen and turning off the Armed and Ready status LEDs.

When the EN50131 Display is turned ON:

- 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 cannot 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 cannot be played.

About the System (cont'd)


Messages


The Tuxedo can record voice messages for others on the premises. The number of messages is not limited; however, the total time of all messages added together cannot exceed 120 seconds.


Note: The voice messages are stored in the memory and *all messages are lost* if the keypad loses power or if it is reset.



Recording/Retrieving Messages

Press **Multimedia**  and **Message** . Enter your Authorized code; the "Message Center" screen is displayed.

Press **RECORD**  and record your message while staying within approximately one foot of the keypad and speaking at a normal voice volume. As you are recording your message, the remaining time counter counts down to indicate the total remaining time available and a "Recording New Memo..." message is displayed above the message list window.

Press **STOP**  when you are done recording the message.

To listen to a voice message, highlight the message and then press **PLAY** . As the message is being played, a "Play (#): Voice Memo..." message is displayed above the message list window. The Message LED continues to flash until all new messages have been played back entirely. When the end of the message is reached, the playback stops.

To listen to the next message or previous message, press **NEXT**  and **PREV** .

To delete the selected message, press **DELETE** . A confirmation window is displayed stating:
Selected Memo 2: 11/02/15 00:30:00 Select **Yes** or **No**.

To delete all messages, press **DELETE ALL** . A confirmation window is displayed stating:
"Confirmation" Do you want to delete all messages? Select **Yes** or **No**.

To exit, press **Back**  and **Home** .

Notes:

1. Each message is numbered, dated and the length of the message in seconds (Sec) is displayed on the message list.
2. Use the slide bar to raise and lower the message volume.

Operating Modes

Note: This Operating Mode options are enabled in Central Station setup. The message "Code Declined – Try Again" is not displayed if not enabled by the installer in Screen Security setup.

Automation (Occupancy) Mode

This mode is primarily used with the Scenes features to automate certain scene actions and does not communicate with the control panel.

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.

Automation mode allows you to set Tuxedo in two conditions: Residential and Commercial. Scenes can be set to trigger based on the status of these settings.





In Residential mode (default), the Arming options are: **Home**, **Away**, and **Night**.

In Commercial mode, the Arming options are: **Open**, **Close**, and **Night**.

About the System (cont'd)

Residential Mode

To enter Residential Mode (automation), from the "Home" screen press the following:

Setup  > **System Setup**  > **CS Setup**  . Enter your authorized code and press **Options** ; the "OPTIONS and OPERATING MODES" screen is displayed. Highlight the **Automation Mode** check box to enable the option.





To change the occupancy delay time, (the amount of time you want to allow for authorized entry or exit without causing an alarm) select a time interval from the **Occupancy Delay** drop-down list: choose from **15, 30, 60, 120** or **225** seconds.

When done, press **Apply**  to save the settings.




The message is displayed: "**Keypad will reset to activate changes.**" Select **Yes**  or **No** .

Commercial Mode

To enter Commercial Mode (automation), from the "Home" screen press the following:

Setup  > **System Setup**  > **CS Setup**  . Enter your authorized code and press **Options** ; the "OPTIONS and OPERATING MODES" screen is displayed. Highlight the **Automation Mode** check box to enable the option then select the **Commercial** check box.

To change the occupancy delay time, select a time interval from the **Occupancy Delay** drop-down list: choose from **15, 30, 60, 120** or **225** seconds.

When done, press **Apply**  to save the settings. The message is displayed: "**Keypad will reset to activate changes.**" Select **Yes**  or **No** .

Normal Mode

Normal Mode is used for security panel operation.

Demo Mode

Demo Mode allows the automation and multi-media features to operate in a non-security mode for demonstration purposes only.

Safe Mode

In the rare event that Tuxedo 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.

If this situation occurs, Tuxedo 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**," Tuxedo enters into the Safe Mode. If you answer with "**No**," Tuxedo tries to communicate with the panel again. After 3 consecutive times of receiving no response, Tuxedo enters the Safe Mode automatically.

Note: Use care when providing the "Yes" or "No" response. Pressing the screen outside the prescribed area may cause the background to come to the front. If this occurs, the Yes/No message that disappeared times-out in 30 seconds even though it is not visible. Then Tuxedo resets into the Normal Mode (or Safe Mode if this is the third time that the warning message appeared).

About the System (cont'd)

Note that this is a limited mode of operation. While in this mode:


- You can use **Security** 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 Guide. You can perform almost all functions that you can perform from a standard non-graphic alpha keypad.
- You can press the "Panic" key 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 Tuxedo's home partition status. The Message LED is not active in the Safe Mode.
- The Chime mode functions in the Safe Mode, however, you do not have Voice (system status messages), Voice Chime (announcements) or Message capability (if set to default "Master").
- Voice feature will not work in Safe Mode.
- When an alarm occurs in the Safe Mode, it is displayed on the Console mode screen only and is not shown on the Home screen.
- The Slide Show feature does not start automatically in Safe Mode.

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

To Enter Safe Mode:

1. Select **Safe Mode** and then press **Apply**.
2. Press **OK**.
3. To exit, press the safe mode bar and press **Yes** to return to Normal Mode.
 - While in the Safe Mode, the Home screen displays the Security, Panic, and Message icon. A message **!SAFE MODE!** is displayed at the lower left side of the screen.
 - Tuxedo resets and restarts in the Safe Mode.

To Exit the Safe Mode:

1. Press the **!SAFE MODE!** bar .
2. Select "Yes" to return to the Normal Mode of operation. Tuxedo resets and normal operation returns as long as the original conditions that caused the entry into Safe Mode do not still exist.



Pictures, Cameras and Videos (Multi-Media)


Picture Setup

Tuxedo can display your personal photo(s) on the Home screen as wallpaper or in a slide show format. To set up a slide show of pictures, do the following:

Insert your personal media SD card (with stored picture files). Formats supported are .bmp, png or .jpg files.

Slide Show Setup


Press **Multimedia**  > **Picture** . The first image is displayed and a list of stored images appears on the screen.



To add an image to the slide show, select the image from the list and press **Add Image** ; the image appears on the screen and a check mark appears next to the selected image name.

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).

Press the **Transition** arrow to select the type of viewing transition desired (Standard, Horizontal, Vertical or Fade Out).

After images have been added, press **Play Image**  to begin the slide show.

To remove an image from the slide show, select the image, and press **Deselect Image** .

To move to the **Next Image** press ; to go back to a **Previous Image** press .


Notes:

- To exit slide show at any time and resume keypad operation, press anywhere on the screen.
- When an image is loading, no other Picture Setup function can be performed (play, previous, next, add or set wallpaper).

Wallpaper Setup

To set a picture as wallpaper:

1. Use the slide bar to highlight the file you want to display on the "Home" screen.

2. Press **Set Wallpaper** ; view your selection from the "Home" screen.

Press **TOP** to move up one level in the directory.

Press **OPEN** to view larger images and/or open directories from the list of images.

Press **CLEAR ALL** to clear all pictures from the current slide show rotation.


UL

Multi-Media functionality is supplementary only and has not been evaluated for UL compliant applications.

Using Pictures, Cameras and Videos (cont'd)

Video Functionality

Video Converter is required to convert videos for proper playback on the Tuxedo. 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).




Press **Product/Training Video**  (located on the Home screen) and view the "SD Card Video Playback" training video to learn more about this feature.


To play a video:



Insert your personal media (SD/SDHC) card (with stored video files). Formats supported are MPEG4 and H.264, containers AVI, MOV, MP4.

Playback

SD Card Playback

From the "Home" screen, press **Multi-Media**  > **Video**  > **Video**. Verify "**SD**" is highlighted and use the slide bar to scroll through the video list. Highlight a video file from the list and press **Play**  to start the selected video file.

Press **Repeat**  to continually replay the selected video. Deselect **Repeat** to automatically play the complete list of video files starting with the first video and ending with the last.



Press **Pause**  or view a **Full View** .

Notes:

- Maximum video resolution should not exceed 640 x 480.
- If the video file causes Tuxedo to lock, use a small object (such as a paper clip) to press **Reset** located in the lower right-hand side of the keypad to reset it.
- To exit Full View mode at any time while a video is playing, press anywhere on the screen. When in Full View mode there is an 8-10 second delay for video display.

Critical Events Playback

"Critical Event" options are enabled while configuring scenes in **Automation**. To configure critical events see the "Scene Setup" setup section.

From the "Home" screen, press **Multi-Media**  > **Video**  .

1. Press **Video**.
2. Press **Events**. The message "**Please Wait – Loading Events.**"
3. Select the critical video event
4. Press **Play** to review the video.

Using Pictures, Cameras and Videos (cont'd)

Camera Configuration and Viewing

Cameras can be viewed locally from the Tuxedo keypad.

To setup and view cameras for use with Wi-Fi enabled devices and Total Connect, refer to the Remote Access section later in this document.



Camera functionality is supplementary only and has not been evaluated for agency compliant applications.

Viewing Cameras

Your installer may have installed one or more cameras at the time of installation. If you want to add cameras to the system, see the **Adding Cameras to the System** section.

Camera Icons										
CAMER SETUP	PLAY	PAUSE	AUTO PAN	QUAD VIEW	FULL VIEW	PAN/TILT	CONNECT	RESET	RECORDING SETTINGS	FULL VIEW

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.

Note: Internet Explorer 11 - If the video streaming is not working, configure the browser for compatibility mode and refreshed the web page.

Local Viewing

To view cameras locally, do the following:

- Press **Multi-Media** > **Camera View/Record** . (Also available from the bottom right of the "Home Screen.")
1. Highlight **Camera**; images from installed cameras appear.
 2. Use Quad View to view up to four cameras on the same screen. Select a quadrant area on the screen and then select the camera that you want to appear in that quadrant.
 3. For pan/tilt style cameras, use **Pan/Tilt** to change the angle of the selected camera.

Remote Viewing

To view cameras remotely via a smart device or computer, do the following:

1. Press **Multi-Media** .
2. Verify **View Camera** is highlighted. The cameras will appear in a Quad View mode, however, you can select icon in bottom right corner for single view.

Select the quadrant area on the screen and then select the camera that you want to appear in that quadrant.

Using Pictures, Cameras and Videos (cont'd)



Adding Cameras to the System


Note: Before adding cameras, the Tuxedo must be connected to the home network via the same router as the camera. Initial camera setup cannot be performed over a wireless connection.

Add Camera from the Tuxedo

The Camera feature allows you to enroll up to 32 cameras and view up to four cameras at one time using the quadrant view feature. View the "IP Camera Setup" training video for helpful information to aid in the setup and follow the steps below to add cameras.

1. Before mounting your camera, connect a Cat5/6 cable to the back of the camera. Then, connect the opposite end to the Ethernet port on your router. Apply power to the camera. Wait a few seconds for initial power-up of camera.

2. Press **Multi-Media**  > **Camera View/Record**  > **Camera Setup** . The "Camera Setup Management" screen is displayed.

3. Press **Discover**  to locate the camera. The screen displays: **"Discovering Cameras ... Please Wait..."** Once located, highlight the camera address and go to Step 6 below. Repeat this step until all cameras are discovered. If the camera information is not automatically obtained, press **Add**





to manually enter the appropriate wireless information on the "Add New Camera" screen.

4. Once cameras are discovered the message **"XX supported cameras are associated for recording. You can change the association in recording settings screen."**

NOTES:

- All devices enabled for UPNP (Universal Plug and Play) will be discovered.
- Delete the unwanted devices.
- The Tuxedo will do a 24-hour refresh (to make sure the IP address has not changed.) The deleted devices will not populate again during the 24-hour refresh.
- If new cameras will not discover, you can manually enter or wait for the 24 hour refresh.

5. To edit information, press the appropriate camera, then press **Edit** . Highlight each field and enter the required information if known, (see Add/Edit Options below), and then **Save** .

To retrieve camera settings and connect to the camera, press **Connect** .

Adding New Camera's from a Browser

1. Select **New Camera** button.
2. Enter the IP address of a new camera for viewing.
3. Enter the Camera Name and Camera Model,



Notes:

- QuickTime® media player must be installed on your PC or smart device. Refer to **Viewing Cameras** section above for more information.
- Camera viewing is compatible with IE8 (and above) and Safari 5.0 (and above); and not compatible with Opera web browsers or Chrome version 42 or higher.
- Some older versions of these cameras may need a firmware upgrade; see separate instructions.



Using Pictures, Cameras and Videos (cont'd)

Add / Edit Options

Name	Description NOTE: Must be alphanumeric only, no special characters (including space) are compatible.
Camera Name	Default is the Camera Model (abbreviated) X, where X= The Mac NOTE: Maximum # of cameras supported.
Camera IP Address	This is the address of the camera, which is assigned by the router
MJPEG Streaming URL	Fixed
RTSP	(Real Time Streaming Protocol) Port #. Select ports (554, (1024-65534))
Resolution	(Options are 160x120, 320x240, 640x480) Select from 160 x 120, 320 x 240 or 640 x 480. For best performance set video resolution to 320 x 240, 8 frames per sec. Notes: <ul style="list-style-type: none"> • Model iPCAM-WL resolution is fixed at 320 x 240 or user can change to 640x480. • When setting the resolution to 640 x 480, the recommended frame rate is 8 frames per sec. • When setting the resolution to 320 x 240, the recommended frame rate is no more than 15 frames per sec.
Camera Model:	Select iPCAM-WI, iPCAM-WI2, iPCAM-WI2B (black), iPCAM-WO or iPCAM-PT, WVC210, iPCAM-ACU, iPCAM-WL, ONVIF, Trendnet, and others. NOTE: Only the Resideo AlarmNet IP cameras will work with Total Connect Remote Services. Refer to or www.tuxedotouchtoolkit.com for the "Camera Compatibility" documentation.
RTSP Streaming URL	Real Time Streaming Protocol, if using a Non-AlarmNet IP camera, this information will be retrieved from the camera or the cameras interface page.
Mobile Streaming URL	Fixed
HTTP Port	Default value = 80. To change enter valid port number (80 (1024-65534)). NOTE: Do not use ports 6665-6669 for camera HTTP configuration. These ports block MPEG streaming and PT commands of Safari based PC and mobile devices.
Frame Rate	Options are 1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25, or 30.
User Name/Password	Administrative password to access the camera's setup or viewing page.

5. If using Total Connect, press **Total Connect**  to reset the camera to factory defaults, which allow remote viewing through Total Connect. A pop-up window displays: ***"For remote camera viewing service, please contact your alarm company and ask for Total Connect™ service and provide the camera's MAC ID XX:XX:XX:XX:XX:XX. Press continue to prepare the camera for Total Connect service."*** Press **CONTINUE** or **CANCEL**. If you press **Continue** a confirmation window displays: "Do you want to reset the Camera?" **Yes** or **No**. See Remote Services section, later in this document. Press **Save** when done. Press **Refresh**  to update the screen, if necessary.

Using Pictures, Cameras and Videos (cont'd)

6. If using Wi-Fi, after all cameras have been added, press **Camera WIFI**  to enter the camera wireless settings information from your router. The screen displays: **"INFO: Camera Wi-Fi setup is applicable only for discovered cameras"**
- Enter the appropriate wireless information:
 - **SSID:** ANY
 - **Security Mode:** Disabled, WPA personal, WPA2 personal, or WEP
 - **Network Type:** Infrastructure
 - **Domain:** USA
 - **Channel:** Auto
 - For **Security Mode**, enter the appropriate information:
 - **Tx Key:** 1, 2, 3 or 4; WEP Encryption: 64 bit Key (10 Hex Chars) or 128 bit Key (26 Hex Chars), WPA and WPA2.
 - **Authentication:** Open System or Shared Key
 - **Passphrase:** then press GENERATE
 - **Key:** must consist of 10 hexadecimal characters
 - Press **Apply to All** to set cameras for wireless operation. Press **Save** when done. A pop-up window displays: **"Info XXX.XXX.X.X WIFI Configuration Saved"**
 - Remove the LAN cable and reboot the camera. Once rebooted, verify the can be viewed wirelessly via the Tuxedo. If the camera does not have wireless capability, leave the camera connected to the router via the LAN connection.
 - Press **Camera Settings**  to enter Video, Network, Wireless, and Other settings, if required; refer to **Advanced Camera Settings** below.

NOTE: Cameras must be enrolled to access the Camera Settings screen. If multiple cameras are enrolled, highlight the desired camera to make changes.

Using Pictures, Cameras and Videos (cont'd)

Advanced Camera Settings

All features below can be changed based on the settings required. Press **Camera Settings** to access the following settings.


NOTES:

- Press **Save!** after each selection
- Fixed Quality is not an option on the Camera Settings home screen.

Video

Feature	MPEG-4, MJPEG and H.264 Settings
Resolution	160x120, 320x240, 640X480
Fixed Quality	Very Low, Low, Normal, High, Very High
Max Frame Rate	1-8, 10, 15, 20, 25, 30

Network

Feature	Options
Internet Connection Type	Dynamic or Static IP
IP Address, Subnet Mask, Default Gateway	Network settings (usually settings for setting up for static or a DHCP reservation list)
UPNP	Enables the discovery option in the camera when the  is pressed
HTTP Port	Options are 80, 1024-65534
RTSP Port	Real Time Streaming Protocol Port (default is 554)

Wireless

Feature	Options
SSID	Network Name
Security System	Disabled, WPA Personal, WPA2 Personal
Passphrase/SharedKey	Password
N/W Type	Ad-hoc or Infrastructure
Domain	USA
Channel	Auto

Others

Feature	Description and Options
Reset to Default	Factory defaults the Camera A pop window displays: “ Do you want to default the Camera ” select Yes or No
Restart Camera	Provides a reboot of the camera

UL Camera functionality is supplementary only and has not been evaluated for UL compliant applications.

Using Pictures, Cameras and Videos (cont'd)

Removing Cameras

1. To delete all cameras, press **DELETE ALL**. A confirmation window displays: *“Do you want to delete all cameras?”* **Yes** or **No**. If **Yes** is selected, all camera are removed.

2. To delete a single camera, highlight the camera name and press **DELETE**. A confirmation window displays: *“Select **YES** to permanently remove the selected device from the list. Note: Select **Delete All** then select **Discover** to rediscover all devices.”*

NOTE: If any single camera is removed, all cameras must be removed before that camera can be re-added to the camera list. This is done by performing a **Camera Discovery**.

Video Recording

The camera **Recording** feature allows you to create a scene that records two minutes of video events onto the SD card. The first 15 seconds records the pre-event and the remaining time records the post-event. Up to four simultaneous video events can be recorded and the first four supported cameras will be associated (automatically) to the recording. An SD card is required to store the recordings.

For proper recording, use the following camera settings for the resolution and frame rate:

- 640X480, less than 5 frames per second
- 320X240, less than 8 frames per second




Critical Events

This option is enabled in the “Creating Scenes” section. When this option is enabled, a maximum of two events are recorded, even when the SD card is not available. If more than two critical events occur, the older one is replaced by the latest event.




Video recording is for lifestyle and awareness purpose only. Using this feature for life safety, person and property protection should be prohibited. It is not UL certified and it may fail at any time without any notice


To access the recording feature:

1. Press **Camera**  > **Camera Setup**  > **Camera Settings** . To change the settings for resolution, fixed quality and frame rate, see the Camera Add/Edit section.

NOTES:

- The recommended frame rate is 8 frames per second at a resolution of 640 x 480.
- The recommended frame rate is no more than 15 frames per second, at a resolution of 320 x 240.
- The frames per second should be 5 frames or less to get a 2-minute recording.

2. Press **Save**  when done. This will return you to the “Camera Setup Management” screen.




3. Press **Recording Settings**  and select a camera to assign to “Recording Cam 1-4” from the drop down list.
NOTE: This is where the camera is assigned when “Creating a Scene” to activate a camera on an event.

4. Press **Save**  when done.

Using Pictures, Cameras and Videos (cont'd)

Manual Video Recording

The camera-recording feature can also be used manually to record events to an SD Card.


1. To access the manual video recording feature, press **Record Settings**  on the camera view screen.
2. Select the desired camera for recording and then press **Record**  to begin recording.
3. Press **Record**  again to stop the recording.

Note: The maximum recording duration is two minutes.


Event Viewing


To view a cameras' recorded event:

Press **Multimedia**  > **Event View** ; the list of events appears on the screen.

Press **Event View Setup**  > **Filter by Camera** to view a specific cameras' event, select **Show All** to view all camera events or select **Filter By Critical** to view (if enabled) a minimum of two events that have been stored when the SD card is not available.

Press **Save** .

Highlight the event from the list to view, and press **Play** .

Use **Delete**  to remove the event video.

Using Third Party Camera's

The Tuxedo keypad can support cameras by multiple manufacturers. For a complete list visit tuxedotouchtoolkit.com and refer to the IP Camera Compatibility List for supported cameras.

General Notes:

- A maximum number of 4 cameras can be enabled for remote viewing with the same account activation. If more than 4 cameras are needed for remote viewing, manual port forwarding can be configured in your router. For manual port forwarding, the recommended internal port configuration is 80 for HTTP and 443 for HTTPS.
- Cameras can be enabled or disabled from the Tuxedo Camera Setup screen for remote viewing.
- Using the Multimedia camera view, and other web pages, the session could timeout and the connection with Tuxedo web server will be terminated. In this case, the top bar status updates and all other status updates from Tuxedo will fail. It is advised to refresh the page and continue using the web application.

Z-Wave Devices, Scenes & Total Connect (Automation)

Using Z-Wave® Devices

Before a Z-Wave device will work in the home control network, it must be added (also called included) into the network. View the “Programming of Z-Wave Devices” training video and follow the instructions below to add and control devices in a home control network.



EXISTING NETWORK NOTE: Z-Wave products from other manufacturers can be included (added) into the Tuxedo network at any time. Z-Wave devices that are always powered can serve as repeaters regardless of manufacturer




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



Automation functionality is supplementary only.
Z-Wave applications have not been evaluated for UL compliant applications.
Access control functionality has not been evaluated for UL compliant applications.

Manual Z-Wave Device Control








To access the list of Z-Wave devices and view the status of the enrolled

devices, press **Automation**  > **Slide Bar** > **On/Off, Open/Close, Temperature** to control the Z-Wave modules.

The Z-Wave devices are group in the following order: Thermostats, Door Locks, Garage Doors, Multi-Level Switches, Binary Switches, Water Valves and Shades.



Using Z-Wave Devices and Scenes (cont'd)







Device Type	Keypad View
Multi-Level Switch	
Binary Switch	
Water Valve	
Thermostat	
Door Lock	
Garage Door	
All Switches	

NOTES

- Binary, Multi-level Switches and Water Valves have the ability to change the icon, see the **Device Setup** Section.
- The “All Switches” option only applies to Multi-Level and Binary devices.

Z-Wave Home Page Icons












Below is a list of the icons that will appear on the Automation Home Page:

Z-Wave Device List Icons					
					
Room Setup	Scene Setup	Z-Wave Setup	Output Control	Group Setup	Refresh

Using Z-Wave Devices and Scenes (cont'd)

Z-Wave Device Management Buttons



Pressing **Z-Wave Setup** reveals the Z-Wave Device Management screen with several icons across the bottom.

	Add Device	This icon is for including or adding a new device to the network. NOTE: Refer to the devices installation instructions for the Add and Remove procedure.
	Remove Device	This icon is for removing, or excluding, a device from the devices current network. However, the device does not have to be on the same network. NOTE: Refer to the devices installation instructions for the Add and Remove procedure.
	Abort operation	Pressing the Abort icon cancels the "Z-Wave Add Device" or "Remove Device" operation.
	Remove Failed	If a device, or node, is no longer operational, or will not remove by using the "Remove Device" operation, it will remove the device from the list.
	Device Setup	Editing the device is for changing the defaulted name to a custom descriptor chosen by the installer or end user NOTE: This is also the location for changing the icon.
	Search Device	If a device is no longer functional, this option allows you to scan the network for a single device. To search for a single device press the desired device; press Search Device and the Tuxedo will scan the network for the device. If successful, the device route will be updated. If failed, then the device was not found by the Tuxedo.
	Scan Network	The "Scan Network" operation rebuilds the entire Z-Wave network by determining the best route for each device and updating the network routing table. This is designed to improve Z-Wave network's performance. Also known as Z-Wave " Network Rediscovery. "
	Z-Wave Reset	The ability to reset the Z-Wave controller without resetting the Tuxedo, it power cycles the internal Z-Wave card.
	Z-Wave Default	Press the icon to request a new network ID, or remove all the existing devices. NOTE: This does NOT remove each device. Once defaulted, you must use the remove device operation on each device. If this operation is not completed the device cannot be included into the new network.
	Primary Controller	This icon will display the current role of the controller. If the device displays a "P," it is the primary controller and can add and remove devices. If the device displays an "S" it is a secondary controller and is only there to display and control devices.
	Secondary Controller	Example, if used in conjunction with an additional Tuxedo keypad and experiencing network performance issues, the Tuxedo can be used to extend the network by programming it in as a secondary controller to the Tuxedo's network. It cannot add and remove devices.


Using Z-Wave Devices and Scenes (cont'd)

Adding and Deleting Z-Wave Devices


Adding and Deleting Z-Wave devices on the Tuxedo keypad depend on the icon pressed. For adding a device press **Add**

Device , for removing devices press the **Remove Device** . In each situation, refer to the installation instructions on the Z-Wave device for the proper procedure for adding and removing from the Z-Wave network.

Add a Light, Switch or Outlet Module

1. Install device according to the manufacturer's directions.
2. Press **Z-Wave Add Device** .
3. Power the switch on and verify the device module is **ON**. Press the **Function Key** on the device; wait a few seconds for the enrollment to finish and the on-screen message **"Device added successfully"** appears.

Add a Door Lock

1. Assemble the Z-Wave door lock according to the manufacturer's directions. **Be sure the door lock orientation/handedness is correct.**
2. Refer to the Door Lock Instructions and connect necessary cables, then install batteries.
3. Enroll the door lock (refer to the Door Lock's Instructions Guide for procedure.)
4. Press **Z-Wave Add Device** .

NOTE: Locks with older firmware require enrollment within 10' of the lock. Newer locks, with updated firmware, do not require this limitation. Refer to the manufacturer of the lock for more information. If the lock will not enroll try adding a repeating device in between the keypad and the lock. If that doesn't work, bring the lock closer to the keypad to enroll.

5. Wait for a 30 seconds until **"Device added successfully"** appears.

NOTE: The lock transmits a secure key to the Tuxedo. If "Device Add Failed" appears, add a device in between or move the lock and keypad within 5 feet of each other and try again.

6. To verify activation on the Tuxedo, press **Back**; wait 30 seconds. Press Refresh; the new device is displayed.


NOTES:

- Tuxedo has the capability to monitor status of lock and determine whether locked, unlocked, and low battery.
- If the lock is not working, verify the lock is still in a "Secure Network," if so rescan for devices. If the lock says "Not in Secure Network," it must be deleted and re-enrolled in the Tuxedo.
- Some manufacturers will not transmit status during a low battery condition.




The Tuxedo will **NOT** push the user codes to the lock. Therefore, any user code in the panel can be used in the lock, but has to be separately programmed in the lock itself. Refer to the locks installation instruction for programming instructions.


Add a Garage Door Controller

1. Assemble the Z-Wave Garage Door Controller according to the manufacturer's directions.
2. Refer to the Garage Door Controllers instructions and connect necessary cables and for the Z-Wave Add/Remove procedure.
3. Press **Z-Wave Add Device** .
4. Wait a few seconds for the enrollment to finish and the on-screen message **"Device added successfully"** appears.
5. To verify activation on the Tuxedo, press **Back**; wait 30 seconds. Press Refresh; the new device is displayed.




Using Z-Wave Devices and Scenes (cont'd)

 Do not use any garage door automation with any garage door opener that lacks the safety features required by U.S. federal safety standards (this includes any garage door opener model manufactured before January 1, 1993). A garage door opener that cannot detect an object, stop, and reverse the door – does not meet current U.S. federal safety standards. Your garage door opener also must signal before unattended door operation. For more information, please consult your garage door opener manual.

Add a Water Valve

1. Assemble the Z-Wave Water Valve according to the manufacturer's directions.
2. Refer to the Water Valve Instructions and connect necessary cables and water pipe fittings. Also, review the procedure for the Z-Wave Add/Remove procedure.
3. Press **Z-Wave Add Device** .
4. Wait a few seconds for the enrollment to finish and the on-screen message **"Device added successfully"** appears.
5. To verify activation on the Tuxedo, press **Back**; wait 30 seconds. Press **Refresh**; the new device is displayed.

Add a Resideo Thermostat

1. Install thermostat according to the manufactures instructions. Device should be mounted in the final location and tested before adding it to the system.
2. Press **Z-Wave Add Device** .
3. On the Resideo thermostat select **Thermostat**; set the "Time/Date" and follow the instructions in the thermostat Installation Guide for "Z-Wave enrollment/inclusion."
4. Wait a few seconds for the enrollment to finish and the on-screen message **"Device added successfully"** appears.
5. To complete, press **Done** on the thermostat.
6. Press **Exit** to return to normal operation.
7. To verify activation: on Tuxedo, press **Back**  ; wait 30 seconds. Press **Refresh**  ; the new device is displayed.

NOTES:

- If not using a Resideo thermostat, enrollment procedure may vary. Refer to the Thermostat instructions.
- Some thermostats do not update temperature status automatically (i.e., Wayne Dalton).
- If you change the thermostat temperature and immediately go to the thermostat screen, the values are shown as 0 because the status has not updated the controller.
- Some thermostats may not provide all the options, which are provided/shown in Tuxedo. If any operation, which is not being supported by the thermostat, is executed from the tuxedo, the thermostat will just ignore the request
- Radio Thermostat CT100 will not transmit the Celsius scale to the Tuxedo keypad, so it will only work in Fahrenheit mode.
- Intouch Thermostats will not send status during a low battery condition.



Resideo is not responsible for property damages due to improper wiring and setting of the thermostat modes.

Using Z-Wave Devices and Scenes (cont'd)

Z-Wave Device Setup

Changing the Name

To change the Z-Wave device icons, do the following:











1. Press **Automation > Z-Wave Setup** to display the "Z-Wave Device Management" screen.
2. Press **Z-Wave device** to be edited.
3. Press on the text box and press **Go** when finished.

Changing the Icon

1. Press the **Z-Wave device** to be edited.
2. Beneath device name, select the icon to represent the switch.

NOTES:

- This applies to Binary, Multilevel Switches and Water Valves.
- The FortrezZ® Water valve learns in as a Water Faucet icon by default, but is changeable. All other water valves may learn in as a binary.
- Changing the icon for a binary switch to Water Valve also excludes it from the "All Switches On/Off" command.

Device Icon Options									
									
Light Bulb	Light Switch	Garage Door	Sprinkler	Pool	Water Faucet	Strobe	Window	Siren Sounder	Fan

Secondary Tuxedo Note


Any device assigned to a water valve icon on the primary Tuxedo must be assigned to the same device on the secondary Tuxedo. Failure to do so results in the water valve responding to the "All Switches On/Off command."

Using Z-Wave Devices and Scenes (cont'd)


Z-Wave Network Update


After all Z-Wave devices have been successfully enrolled, you can perform a Z-wave network update to individual devices or the whole network.

Individual Device Update

1. Press the device, and then press **Search Devices** .
2. One of three separate messages are display: **"Update failed," "Update success," or "Update Timed Out."**
 - If the update fails, move device within closer range of each other or try to add a repeater device in between to extend the range.
 - If the update is successful then it has remapped the route to the device.

Complete Network Update

This option is helpful when Z-Wave network issues arise. When **Scan**  is pressed the Z-Wave controller searches for the best path (route) to each device (which remaps the Z-Wave network).

1. Press **Scan** .
2. Tuxedo will scan the Z-Wave network and complete the discovery. The onscreen message **"Discovery is about to start please wait..."** is displayed.
3. When done, the message is displayed: **"Discover Result... 1 device(s) are not found during discovery. See the device list for those devices. Try to add repeater devices to extend the range or move devices closer to each other. Please run the discovery process again"** Follow the suggestions in the message.

NOTES:

- This process may take several seconds/minutes based on the number of devices enrolled.
- If user wants to continue with other operations, they can close the pop up and go navigate to the home screen.
- The Z-Wave install screen will be blocked and enter Z-Wave screen again until the status refresh complete.
- The message **"Discovery in progress, remaining time XX:XX. Device Found: X/XX"** appears when:
 - Remaining time is determined by the number of devices found
 - Device found will list the total number of devices found and scroll through the devices as they are found.

Using Z-Wave Devices and Scenes (cont'd)




Creating Scenes

The system can automatically activate devices when certain triggered events occur. When a programmed trigger/condition occurs, the defined device(s) activates. The programming of these triggers and actions is called Scenes. A scene consists of a trigger, an optional condition, and up to five actions. Up to 30 local (20 more using Total Connect Remote Services) scenes can be defined. Scenes must have at least one trigger and one action to initiate.

The user can access scenes by pressing **Automation**  > **Scene Setup** . The screen will display a table and a set of icons. The table consists of 4 columns.hi

Column	Description
Sl.No	Represents the scene number.
Name	Names assigned to the scene.
Status	Enabled or Disabled. This allows the option to enable or disable the scene for occasions the scene is not desired
Manual Run	Gives you the option to run the scene manually to verify its functionality. Also used for testing the scene on initial setup to confirm all actions are taking place.

The other options are:


Name	Description
Local	Lists all of the scenes programmed locally in the keypad
Remote	Lists all of the scenes programmed through Total Connect Remote Services. These scenes cannot be edited, only viewed for their settings. The only option to edit is through Total Connect.
	Press this icon to add a new scene.
	Press this icon remove an existing scene.
	Press this icon to edit an existing scene.

Using Z-Wave Devices and Scenes (cont'd)

Defining Scenes

The system can automatically activate various devices when certain events occur based on predefined Scenes.

Trigger	Defines the event that triggers the programmed action(s). Triggers include the following categories:			
	Time Garage Door	Security Water Valve	Thermostat Zones	Door
Condition	Defines an optional event that puts a condition on the trigger. If a condition is set, the condition must exist at the time of the trigger for the action to occur. Conditions include the same categories as triggers. However, conditions cannot be set with the same category as the trigger. (ex., if setting a trigger event for security, you cannot use security as a condition).			
Action	Defines the desired device action when the trigger event occurs. Actions include the following categories:			
	Security Garage Door	Light Water Valve	Thermostat Recording	Door E-Mail

1. Press **Add Scene** .
2. Press **Scene Name**; enter a name.
3. Assign the desired "Condition," "Trigger," and "Action" for this Scene, See "Scene Options" section for detailed information.

NOTES:

- After each selection press **Save!**
- Scenes **cannot** be triggered using panic zones 995, 996 and 999 on commercial panels and panic zones 95, 96 and 99 on residential panels.
- A scene consists of a trigger, an optional condition, and up to 5 actions.

Example: You want the lights to turn on when you arrive home and disarm the system, but only at night.

- Trigger: "when the system disarms" → Set the Trigger to Security: System Disarm
- Condition: "only at night" → Set the TIME condition (enter the Start Time and Duration)
- Action: "Turn the lights ON" → Set the Action to LIGHT: ON.

Using Z-Wave Devices and Scenes (cont'd)

Scene Setup Options

Trigger	<p>Defines the event that triggers the programmed action. Triggers include the following categories:</p> <p>Choose the time option the action should begin:</p> <ul style="list-style-type: none"> • Repeated (choose the days of the week) • Once (enter the date) • Sunrise/Sunset (region must be set in weather and internet is required) • By Clock (set the time the scene should begin) • Critical Event (See the "Critical Events" section)
Time	
Security	<p>Choose the security mode upon which the action begins:</p> <ul style="list-style-type: none"> • Disarm (action starts when the system is disarmed) • Away (action starts when system is armed Away mode) • Stay (action starts when system is armed Stay mode) • Night (action starts when system is armed Instant or Night mode) • Away Secured (action starts after exit delay expires) • Alarm (action starts on any alarm condition) • Critical Event (See the "Critical Events" section)
Thermostat	<p>Choose the temperature at which the action begins:</p> <ul style="list-style-type: none"> • Above (set the temperature) • Below (set the temperature) • Critical Event (See the "Critical Events" section)
Door	<p>Choose the door status at which the action begins:</p> <ul style="list-style-type: none"> • Locked (action starts when the door is locked) • Unlocked (action starts when the door is unlocked) • Code Unlocked (action starts when door is unlocked by manual code entry) NOTE: Code Unlocked is not a function of Schlage® Locks • Critical Event (See the "Critical Events" section)
Garage Door	<p>Choose the garage doors condition to cause the action to begin:</p> <ul style="list-style-type: none"> • Opened (action starts when door the status of the door changes to open) • Closed (action starts when door status of the door changes to close) • Critical Event (See the "Critical Events" section)
Water Valve	<p>Choose the valves condition to cause the action to begin:</p> <ul style="list-style-type: none"> • Opened (action starts when valve opening is finished) • Closed (action starts when valve closing is finished) • Critical Event (See the "Critical Events" section)
Zones	<p>Choose the zone condition to cause the action to begin:</p> <ul style="list-style-type: none"> • Restore (for trigger only; not for use with conditions) • Alarm (upon an alarm from a specific zone or zones) • Fault (upon a fault from a specific zone or zones) • Critical Event (See the "Critical Events section")
Condition	<p>Defines an optional event that adds a condition to the trigger. If a condition is set, the condition must exist at the time of the trigger in order for the action to occur. Conditions include the same categories as triggers, however, conditions cannot be set with the same category as the trigger. (ex., if setting a trigger event for security, you cannot use a security event as a condition).</p>

Action Defines the desired device action(s) when the trigger event occurs. Actions include the following

Using Z-Wave Devices and Scenes (cont'd)

categories:

Choose the action which activates upon the trigger event:

Disarm	Away	Stay
Night (Arms Instant)	Disarm with Code	Enter User Code

Security

NOTE: A valid user code is required for the system to perform any of the actions listed. Enter the code at the prompt. If the user code is later deleted from the security system, you will need to reenter a valid code at this screen.

Choose the light option to occur upon the trigger event:

- Light**
- On/Off (Multi-Level switches will provide a slide bar.)
 - On for Time

Choose the action to occur upon the trigger event:

Off	Heat	Cool
Set Mode	Set Point	

Thermostat

Set energy mode (normal/savings); if savings selected, see your local programming of the thermostat for settings

Choose the door action to occur upon the trigger event:

- Door**
- Unlocks
 - Locks

Choose the door action to occur upon the triggered event:

- Garage Door**
- Open
 - Close

Choose the valve action to occur upon the triggered event:

- Water Valve**
- Open
 - Close

Select the camera to start recording after the selected trigger.

Recording

Warning: Video recording is for lifestyle and awareness purpose only. Using this feature for life safety, person and property protection should be prohibited. It has not been evaluated by agency compliance institutions and may fail at any time without any notice.
NOTE: If the SD card is full and a manual scene is executed, a message stating "SD card is full" will not display and the event will not record.

Select the email recipient(s) to receive a custom message, based on the triggered event.

E-mail

Configure E-Mail Id's: This option allows the assignment of 4 email addresses to the selected action. Enable the SMTP port settings and SSL option must be enabled for the e-mail feature to operate.

SMTP options for Gmail is 465, 587, and 995. For Yahoo they are 465 and 995. **NOTE:** For commercial applications, the user may need to update their firewall policy.



WARNING: Disarm, Garage Door Controller Open, and Door Unlock actions will not be executed on voice command trigger.

Using Z-Wave Devices and Scenes (cont'd)

Voice Input Command

Review the "Tuxedo Touch Voice Command Training Video" before the initial trigger assignment. The Voice Input Command is configured in "Scene Setup." Voice Commands are accessed by pressing "**Voice Input Command**," which provides a drop down window revealing the following commands.

Review the screen shot below. In this setup, the trigger is Bedtime and the action is light (could be light off, on, or dim to a certain level using the slide bar).

Available Commands	
Bed Time	Returning Home
Evening Time	Wake Up
Leaving the House	Cameras

1. After assigning a voice trigger to the scene, exit the scene setup page.
2. Speak the voice command "Hello Tuxedo." The keypad will speak "**Please Wait...**," followed by "**Hello Tuxedo (XXX), Please say your command.**" The XXX= the command voice accuracy (see the "Voice Tutorial and Setup" section for more information).
3. Speak the selected voice command above. It will be either successful or unsuccessful.



Successful Command will trigger the action configured in the scene. The keypad will speak "**Processing XXXX command**" (XXXX = the command).



Unsuccessful Command will not trigger the action configured in the scene. The keypad will not give a confirmation by display "Please retry by saying the Hello Tuxedo trigger phrase followed by one of the commands: Bed Time, Evening Time, Leaving the House, Returning Home, Wake Up, and Camera". See the "Voice Tutorial and Setup" section for troubleshooting steps. If the keypad heard you and could not understand the request it will display"



The **Camera** Command is an individual trigger, which launches the camera home page, it cannot be assigned to scene.

UL

Voice Input Command is supplementary only and not evaluated for UL applications.

Using Z-Wave Devices and Scenes (cont'd)

Detailed Scene Configuration

Scenes must have at least 1 trigger, 1 action (up to 5) and the event to trigger. The Condition section is optional.

Time

Set the TIME: In the **Trigger/Condition** box, press **Add > TIME >** Set the occurrence.

If **ONCE > Enter Date**; if **REPEATED >** choose days of the week; if **BY CLOCK >** press on the "Hour/Minutes" displayed and enter the **Start** and **End Time >** press on **AM/PM**; if **SUNRISE** or **SUNSET >** Press **BY CLOCK** until the desired setting is displayed. Check the **Critical Event** check box to record and store a maximum of two events even when the SD card is not available. If more than 2 critical events occur, then the older one is replaced by the latest event.

NOTES:

- The **Sunrise/Sunset** feature is dependent on the "Region" selected in the "Weather Forecast" section and requires internet access for accuracy.
- **BY CLOCK** allows you to activate the scene for a specified period of time.

Security

Set the Security Mode: In the **Trigger/Condition/Action** box, press **Add > SECURITY >** Select from **DISARM, AWAY, STAY, NIGHT, AWAY SECURED** or **ALARM >** Enter **User Code**, if required.

NOTES:

- AWAY triggers upon arming away.
- AWAY SECURED triggers when exit delay has expired.

Thermostat

Set the Thermostat: In the **Trigger/Condition/Action** box, press **Add > THERMOSTAT >** select a **Thermostat** device from the drop-down menu or press **Select Thermostat Group** to activate more than one device. See the **Group Setup** section. Use **ABOVE** and **BELOW** to increase/decrease the temperature or press the **Temperature Value** box and enter 2 digits for the desired temperature.

NOTES:

- Test thermostats first to ensure proper function in the "Scene."
- Some thermostats do not update temperature status automatically (i.e., Wayne Dalton).

Light

Set Lights (on/off): In the **Action** box, press **Add > LIGHT >** select a **Light Device** from the drop-down menu or press **Select Lights Group** to activate more than one device; set the action to **ON, OFF**, Dim level for multi-level switches; or select **ON FOR TIME** and press on the "Hour/Minutes" displayed and enter an amount time.

NOTE: **ON FOR TIME** allows you to activate the scene for a specified period of time.

Using Z-Wave Devices and Scenes (cont'd)

Door

Set the **Door Locks**: In the **Trigger** box, press **Add > DOOR > Door Device** from the drop-down menu. Select **LOCKED**, **UNLOCKED** or **CODE UNLOCKED** for the Action. In the **Condition** box select **LOCKED** or **UNLOCKED**. Next, an action must be programmed.

NOTES:

- Motorized door lock bolts physically lock and unlock 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 later in this document.
- When using some older Kwikset Smartcode electronic deadbolt door locks (in a Scene that is programmed to trigger when unlocked) the Scene does not trigger if using a key; enter a user code.

Garage Door

Set the **Garage Door**: In the **Trigger/Condition/Action** box, press **Add > GARAGE DOOR** and select a **Garage Door Device** from the drop-down menu or press **Select Garage Door Group** to activate more than one device. Select **OPENED** or **CLOSED**. The Action Menu option is **OPEN** or **CLOSE**. The options for Condition are **OPENED** and **CLOSED**; for Action is **OPEN** and **CLOSE**. **NOTE: Review the disclaimer** in the section “Add Garage Door Module.”

Water Valve

Set the **Water Valve**: In the **Trigger/Condition/Action** box, press **Add > WATER VALVE** and select a **Water Valve Device** from the drop-down menu or press **Select Water Valve Group** to activate more than one device. The options for Trigger/Condition are **OPENED** and **CLOSED**; for Action is **OPEN** and **CLOSE**.




Zone

Set the **Zones**: In the **Trigger/Condition** box, press **Add > ZONES** and select a zone from the drop-down menu. Select **Restore**, **Alarm** or **Fault**.



NOTE: Do not use 24-hour silent zone restore/fault in the pre-condition and trigger fields on commercial panels.

Group Setup

A group is a defined collection of the same type of Z-Wave devices that can be used in scenes (such as only light modules, or only door locks, etc.). When used in a scene, and the scene activates, all devices assigned to that group activate. Up to 20 groups can be created with up to 5 of the same type devices in each group, such as 5 door locks, etc. Follow the procedure below to create a Group.

1. Press **Group Setup**  > **Add** .
2. Highlight **Group Name** field and enter a group name and press **GO**.
3. Select **Group Type** (Binary Light, Door Lock, Thermostat, Multilevel Switch, Shades, Water Valve, Garage Door, or Other) from the drop-down list.
4. Highlight the device(s) from the drop-down list that you want to add to this group and press **Save** . A confirmation message “**Z-Wave device group settings saved**” is displayed.

NOTES:

- Select **Edit**  to make changes to existing Groups; use **Delete**  to delete a Group.
- The “Water Valve Group” is excluded from the All Switches On/Off command on the “Device Control” page.

Using Z-Wave Devices and Scenes (cont'd)






Room Setup

A room is a defined collection of different types of Z-Wave devices, which can be used to organize a large number of Z-Wave devices into smaller, more manageable device lists. Up to 50 rooms can be created with no limitation to the number of devices in each room.

Example 2: Assigning Devices

Room Name	Kitchen	Bedroom	Living Room
Device 1	Kitchen Over Head Light	Bed. Lamp	L.R. Lamp
Device 2	Kitchen Cabinet Lights	Bed. Fan	L.R. Fan
Device 3	Kitchen Fan	Bed Overhead Light	L.R. Outlet
Device 4	Kitchen		

Follow the procedure below to create a Room.


1. Press **Room Setup**  > **Add** .
2. Enter a room name > press **GO**.
3. Check the box next to the device(s) that you want to be controlled in this Room and press **Save** .
4. Select **Edit**  to make changes to existing Rooms; use **Delete**  to delete a Room.
5. If settings were changed, a pop-up confirmation window displays **"Settings Saved."**

Example 2: Screen Interface



Secondary Tuxedo Controller

After all Z-Wave devices have been added into the Primary Tuxedo (#1), the device information can be downloaded to a Secondary Tuxedo (#2). Up to 231 secondary's plus 1 primary controller, for a total of 232. Keep Tuxedos within 40 feet of each other (if it does not work, move the keypad closer to the primary), apply power to Tuxedo #2 and do the following:

1. At Tuxedo #1 (Primary Controller): Press **Automation**  > **Z-Wave Setup** ; the "Z-Wave Device Management" screen is displayed.

NOTE: If used for Remote Services, Tuxedo should not be configured as a secondary controller. See the **Remote Services** section later in this document.

2. At Tuxedo #2 (Secondary Controller): Press **Z-Wave Primary**  (located in the lower right side of the screen). The icon  changes to an  icon, representing the controller is now in secondary mode.

NOTE: The message **"Please remove all Z-wave devices from network first"** appears if Z-Wave devices are enrolled. If no Z-Wave devices exist, a confirmation will display **"Change to Secondary Controller? Note: Total Connect feature will be unavailable in secondary controller mode."** Select **Yes** to change this keypad to a Secondary Controller.

3. At Tuxedo #1, Press **Add Device** .
4. At Tuxedo #2: Press **Add Device** . **"Secondary Controller Inclusion Devices Upload in process."** When device information from the Primary Tuxedo is downloaded to the Secondary Tuxedo:

Using Z-Wave Devices and Scenes (cont'd)

- The Secondary Tuxedo displays: **"Device Upload in Process."** Once devices have been uploaded **"Devices Uploaded Successfully"** is displayed.
- The Primary Tuxedo displays: **"Device Added Successfully."**

NOTES:



- If the device status is failed, remove and enroll Tuxedo as the secondary controller again and then reboot the system; verify that the two controllers are less than 40 feet apart.
- Device names will NOT be synchronized upon initial Tuxedo Z-Wave device transfer.
- Secondary keypad will not receive device low battery status automatically, must perform a manual refresh.

Synchronizing Device Names

Synchronizing the names of the Z-Wave devices requires a connection the same network (Wi-Fi or LAN).

Note: User always has to perform the sync from the secondary Tuxedo.

Adding Tuxedo's from the Secondary Controller

1. At Tuxedo #2 (Secondary Controller): Press **Automation**  > **Z-Wave Setup** .
2. Press **Sync Device Names** the screen displays **"This will synchronize device name(s) with the primary controller. This will overwrite the device names. Do you want to continue Z-Wave device name(s) sync operation with the primary Tuxedo? Yes or No"**
3. A message will be displayed at the top of the screen stating **"Z-Wave name synchronization in process. Please wait..."**
4. When completed the message **"Z-Wave name synchronization completed"** appears and the names are synchronized with the primary Tuxedo.

Deleting Tuxedo's from the Secondary Controller

Press **Setup** > **System** > **Tuxedo Sync** > **Delete** to delete the selected Tuxedo or press **Delete All** to delete the list of devices.

Updating Tuxedo 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 Tuxedo. To perform this update, you must remove the secondary controller and re-enroll.

1. Press **Remove Device** on the Primary Tuxedo; press **Remove Device** on the Secondary Tuxedo. Both Tuxedos display, **"Device Removed"** and the Secondary reverts to the Primary Tuxedo.
2. Convert the second Tuxedo back to a primary following the steps above.
3. Press **Add Device** on Primary Tuxedo controller; press **Add Device** on Secondary Tuxedo controller. The controller scans for devices in the primary controller and the message is displayed: **"Devices added successfully,"** followed by **"Devices Uploaded Successfully."**

NOTE: The secondary Tuxedo must be within 40' of the primary controller for best results.

Integrating Total Connect Remote Services

The Tuxedo supports Remote Services for controlling Z-Wave devices and scenes remotely from an associated Total Connect account.



LAN or Wi-Fi **MUST** be enabled for proper integration with Total Connect. Synchronizing is required before the enabled devices will display in Total Connect.

After devices have been added to the Tuxedo, the next step is to add them to Total Connect.

1. From the home screen press **Setup**  > **System**  > **CS Setup** . Enter the Authorized code and press **TC SERVER INFO**.
2. Press **TC Enable** ; the "Z-Wave Device Management for Total Connect" screen is displayed.
3. Select the device(s) that you want to enable/disable in Total Connect.

NOTE: Some devices may need to be enabled after a software upgrade.

Using Z-Wave Devices and Scenes (cont'd)

4. Press **Save** when done.
5. After devices have been enabled for Total Connect, follow the Total Connect prompts to synchronize the data with Tuxedo.

NOTES:

1. On Total Connect, the maximum number of supported devices is 40 switches (includes water valves), 3 thermostats, 3 Garage Door Controllers and 4 door locks.
2. Tuxedo supports 232 devices (including the Tuxedo keypads) in the Z-Wave network.

Controlling Automation (Z-Wave) Devices Remotely

Use Total Connect to control Z-Wave devices: lamp modules (binary switch), dimmer modules (multilevel switch), thermostats, door locks, garage door controllers, water valves, etc., from a smart phone, iPad®, Android™ Tablet, or PC. If accessing on a smart device (Apple or Android) verify the correct App has been download and installed.

1. Access the Total Connect account and navigate to the Automation section of the dashboard.
2. Select a displayed device and press the desired action. Refer to the “**Total Connect Online Help Guide**” for further details on controlling Z-Wave devices.




Controlling Total Connect Scenes from Tuxedo

Use the **Scenes** icon to display and control scenes that have been created in Total Connect.


1. From the “Home” screen, press **Automation > Scene Setup > Remote**. The screen displays a list of scenes created in Total Connect.
2. To control a Remote scene, select the desired scene, and then press the appropriate action (ex. Run).

Total Connect Server Screen

The “TC Server Info” screen displays the current server information and Z-Wave device status. This information is typically used for IP connection troubleshooting purposes in collaboration with a service technician.

	Diagnostic Connect	Pressing the “Diagnostic Connect” icon in the bottom left corner will test the communication status to the AlarmNet server. If the test fails, check your network connection.
	Cancel	This cancels the Diagnostic Test above
	Total Connect Device Select	Verification of the Z-Wave status: If enabled it will communicate Z-Wave status to Total Connect 2.0. Pressing TC will populate a list of all your Z-Wave devices with an enable or disable option. This will allow or prevent those chosen devices from appearing on the Total Connect account.




To access Total Connect Server Information and Z-Wave Status from the Tuxedo keypad, do the following:

1. From the “Home” Screen, press **Setup > System > CS Setup**; enter the installer code (if required).
2. Press **TC SERVER INFO**. The “Total Connect Server Setup” screen is displayed with the current Server information and Z-Wave Status (enabled/disabled). **NOTE:** These fields are for reference only and cannot be edited.
3. Press **Connect**  to test the connection to the AlarmNet servers.

Using the Security System


Security System Operation

You can arm your system in one of three arming modes: Away, Stay, and Night. The following table lists the three different arming modes and the results of each. Consult your security panel's user guide for more information.

Arming Mode	FUNCTION
AWAY 	<p>Arming Away is used for protecting all perimeter and interior zones. When armed in AWAY, the system sounds an alarm if a protected door or window is opened, or if any movement is detected inside the premises.</p> <p>Important: On Commercial systems, "Away Auto Stay" mode is shown as "Away" mode (with all zones protected). Some systems will revert to the stay mode if a main entry zone is not activated, before the end of the exit delay. This is a system programmable option enabled/disabled by the installer. If this option is enabled the keypad will display "Armed Away Zone Bypassed" after the exit delay expires. If the option is disabled the keypad will display "Armed Away All Secure" after the exit delay expires.</p>
STAY 	<p>Arming Stay is used when you want all perimeter zones to be armed, but not the interior. This leaves you the ability to move freely through the premise; also provides the ability for an entry delay if an entry door is opened.</p> <p>When armed in STAY, the system sounds an alarm if a protected door or window is opened, but you may otherwise move freely throughout the premises. On Commercial systems, they system will arm in the last stay mode used. Consult the System's user guide for more information.</p>
NIGHT 	<p>Use when you are staying home and do not expect anyone to use the entrance door. Your installer may have configured NIGHT Mode differently; have the installer describe the actual settings of this mode. On Commercial systems, they system will arm in the last stay mode used. Consult the system's user guide for more information.</p> <p>NOTE: The night mode icon may be configured for other options (Away, Stay, Instant, Maximum, and Night). If the Night icon is configured for instant the keypad will display "Armed Instant."</p>

Notes:



The **Voice Status** icon () indicates the Voice feature. Press **Voice Status** to hear system status. Wait 3 seconds and press again to hear Zone Faults or Trouble conditions. Voice status will annunciate even if Voice mode and Chime mode are disabled.

Note that the **Voice Feature** must be enabled (by the installer) for this icon to function correctly during an alarm condition.



There is a communicator delay of 30 seconds. This delay will prevent a report to the central station if the control panel is disarmed within 30 seconds after an intrusion alarm is triggered. This delay can be removed, or it can be increased up to 45 seconds, programmable by the installer. Note that emergency, carbon monoxide, and fire-type alarms are reported without delay.



Using the Security System (cont'd)

How to Arm the System

Arming the system in any mode is performed in the same way, as described below.

Note: Close all perimeter windows and doors before arming and make sure the system says “Ready to Arm” on the keypad. Or you can bypass zones you want left open to make the system “Ready to arm.”

From the “Home” screen, press **SECURITY** . You can arm your system in one of three arming modes: **Away** ,


Stay , and **Night** , could be an **Instant** mode as well. Press the selected **Arming** icon. A text message appears stating which zones are arming and whether or not there is an entry delay. The screen displays the exit delay countdown. When exit delay time expires, the screen displays “Armed Away,” “Armed Stay,” “Armed Instant.”

Notes:

1. If Quick Arm is not enabled in your system, a message to enter your User Code is received.
2. When the system is armed for Stay, Night Stay and Instant mode, Tuxedo beeps 3 times.
3. When the system is armed for Away and Maximum mode, you will hear steady beeps then rapid beeping during the last 10 seconds of Exit Delay.
4. For CP-01 installations, Maximum Mode cannot be used.


How to Arm Multiple Partitions

Note: Some systems may not have multiple partitions and the “Arm Multi-Partitions” option may not be available. In addition, your code must be authorized to arm multiple partitions.

Press **SECURITY**  > **Arm Multi-Partition** . Select the appropriate arming mode, enter the User Code authorized to access other partition(s) and highlight the partition from the list on the screen or select **ALL** to arm all partitions listed. When done, press **OK**.



When exit delay time expires, the screen displays “Armed.”

Notes:

1. A user may have access to some or all of the available partitions.
2. If the user code is accepted, the system displays the partitions that the user has access to.
3. If any zones are bypassed, “Display Faults” () is displayed on this screen.

How to Display Faults (Zones)








If the system shows the “Not Ready Fault” message, it means a zone or zones are open (faulted). Zones must be bypassed before you can arm the system. To display the open zone(s), do the following:

Press **SECURITY**  > **DISPLAY FAULTS** . A listing of faulted and/or bypassed zones is displayed. As applicable, take corrective action such as closing a window or door to correct the fault.

If the fault cannot be corrected, you may choose to bypass a zone(s) by highlighting it and then pressing **BYPASS**

SELECTED .

To bypass all zones, press **Bypass All** ; to **Refresh Data**, press .

The **Distressed Zones**  is displayed when a zone is distressed. Distressed Zones include **Alarm** , **Troubles** , **Faults** , **Bypass Zones** , **Low Battery** , and **All** .




Using the Security System (cont'd)

How to Bypass Zones


The Bypass function is used when you want to arm your system with one or more zones left open. Bypassed zones are unprotected and do not cause an alarm when violated while your system is armed.



- Some systems do not allow you to bypass fire, carbon monoxide or emergency zones. On certain fire control systems, a specified user may be allowed to bypass fire, carbon monoxide and system zones if the user was enabled by your system installer.
- Limits apply as to how many zones can be bypassed at one time. These limits are ten zones on residential systems and five zones on commercial systems.

Press **SECURITY**  > **MORE CHOICES**  > **SHOW ZONES** .

Highlight the zone(s) to be bypassed, press **BYPASS SELECTED**  and enter your 4-digit user code. If zones have already been bypassed, the top of this screen indicates "Ready Bypass."

Press **BACK**  to return to the "Arming" screen, and then arm the system in the desired arming mode.

Notes:

- If any zones are bypassed or faulted, **Display Faults** is also displayed on the "More Choices" screen.
- While the keypad is requesting and receiving the zone data from the control panel, the screen displays "**Please Wait!**" Then the zones, along with their current status, are displayed.

How to Clear Bypassed Zones

A bypassed zone is automatically unbypassed when you disarm the system. If a zone is bypassed, you can manually remove the bypass as follows:

Press **SHOW ZONES**  > **CLEAR BYPASSES** . Enter your 4-digit user code. The system should now be Ready to Arm.

Notes:

- If the system is armed and you unbypass a zone, it disarms the system. If zones are still faulted (not ready) the system will indicate the status as "**Not Ready Fault.**"
- Some Commercial control panels require a specific command to unbypass the zones. This must be done via the Console Emulation Mode.

How to Disarm the System

IMPORTANT: If you return to your home or business and the main burglary sounder is on, **DO NOT** enter the premises, but call the police from a nearby safe location. If you return to your home or business after an alarm has occurred and the main sounder has shut itself off, the keypad beeps rapidly upon entering, indicating that an alarm has occurred during your absence. **LEAVE IMMEDIATELY and CONTACT THE POLICE** from a nearby safe location.

The system may be disarmed using either of two methods. One method is employed when you enter the premises and the other is when you have been in the premises with the system armed (i.e., Stay and Night arming modes).

To disarm the system when entering the premises


Tuxedo automatically displays the Entry Delay Active screen when you enter the premises; enter your 4-digit user code. The partition is disarmed and the "Arming" screen is displayed showing the system as **Ready to Arm**.

Note: If you have a Commercial system and a time window has been defined for when you may disarm the system, the system does not disarm if you are outside that time window.

Using the Security System (cont'd)

To disarm the system when already in the premises

To disarm Multi-Partitions do the following

Press **Security**  > **Arm Multi-Partition**  > **Disarm** ; enter your 4-digit user code. Highlight the partition(s) to disarm and press **OK**, or press **ALL** to disarm all partitions.

How to Check the Status of Other Partitions


This system supports between one and eight Partitions (depending on the system.) Partitioning enables a single physical alarm system to control up to eight areas of protection (partitions) depending on the system you have purchased. Each Tuxedo is assigned a default partition for display purposes, and shows only that partition's information.

Note: A letter "H" following the partition name or number indicates that this is the default partition for this Tuxedo keypad.

For example, if your physical site is a four-apartment housing unit, your alarm system may be configured with four partitions. Each apartment's zones (door, windows, smoke detectors, etc.) are assigned to separate partitions, giving each apartment independent arming/disarming control of its own partition (area). A landlord or manager may be granted access to all partitions, so he/she can control the entire system.

If a user is authorized, a keypad or other keypad in one partition can be used to perform system functions in another partition. (**Note** that only those partitions authorized and programmed by the installer can be accessed in this manner.)

To check the status of other partitions perform the following:

ICON	ACTION	NOTES
	1. Press SECURITY . 2. Press Current Partition (lower edge of the screen; in this case it displays P1 H unless changed by installer).	This screen displays the available partitions and their current status. The current partition is shown at the top of the display (P1). To change this assignment, select the appropriate icon (e.g., press P2 to switch control to Partition 2).
P1 H	3. Enter the code authorized to access other partition(s). If the code is accepted, the system displays the partitions that user has access to.	Note: After leaving this screen when using a residential panel, the selected partition in the keypad automatically reverts back to the keypad's home partition after two minutes. When using commercial panels, you must select the keypad's home partition to return to it.

Using the Security System (cont'd)

User Codes

Each user must be assigned a name with a corresponding 4-digit user code in order to gain access to various features and functions. Tuxedo 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 each user.

Authority Levels

Authority levels define the system functions a 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 that can be assigned through the keypad and provides the equivalent authority level name found in your alarm system manuals. The authority levels that can be assigned are as follows:

Authority Level	Functions	Equivalent System Name	
		Residential Systems	Commercial Systems
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 your system.	Guest	Level 4 Operator B
No Access	Used to restrict access from a partition.	N/A	N/A

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

Note: User 2 on residential panels is used to add users, this code cannot be assigned to a Tuxedo user. The Error "Enter value between 003-XXX." Where XXX = the maximum number of zones the panel supports.

Using the Security System (cont'd)

How to Add a User

Your installer set up users at the time of installation. To add more users, do the following:

Press **Setup**  > **System Setup**  > **USER SETUP**  > **ADD USER** .

Enter your Authorized Code. Press the box next to **Enter User Name** and type in the user name (max. 6 characters; no spaces between characters); press **OK**.

Select **User Number** field and enter an "available" (3-digit) user number (see note below) > **GO**.

Select **Enter User Code** field and enter the 4-digit User Code for this user > **GO**.

Select **RF Button Zone** field (if used); enter the 3-digit RF Button Zone for this user > **Save**.

Notes:

- For available user numbers, refer to the control panel instructions.
- 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).
- 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.

How to Add an Existing User to a Second Tuxedo

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

How to Delete a User


Select the User you want to delete and press **DELETE USER** . Enter your Authorized Code and press the appropriate icon. The **Confirm Delete** screen is displayed.

Notes:

- Three selections are available: add a user, edit a user, or delete a user.
- 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.

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:

Press **EDIT USER**  and enter your Authorized Code. Select the options needed for this user and press **Save**.

Notes:

- 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.
- When you select **Save**, the configuration changes are saved and you are returned to the **User Setup** screen.

Using the Security System (cont'd)

Fire and Carbon Monoxide Alarm Operation

Your fire alarm system and carbon monoxide detector (if installed) is on 24 hours a day, providing continuous protection. In the event of an emergency, the installed smoke, heat, carbon monoxide detectors automatically send signals to your Control/Communicator, triggering a loud interrupted sound from the keypad. An interrupted sound is also produced by optional exterior sounders. EVACUATE ALL OCCUPANTS FROM THE PREMISES IMMEDIATELY. Notify your Central Station/Security Company immediately and wait for further instructions.



CO annunciation may not be used for agency compliant installations due to no investigation has been completed.

In Case of Fire Alarm

1. A **FIRE** message appears at your keypad and remains on until you silence the alarm.
2. Should you become aware of a fire emergency before your detectors sense the problem, go to your nearest keypad and manually initiate an alarm by pressing the panic key assigned as **FIRE** emergency (if programmed by the installer) and hold down for at least 2 seconds.
3. Evacuate all occupants from the premises.
4. If flames and/or smoke are present, leave the premises and notify your local Fire Department immediately.




Silencing and Clearing a Fire/Carbon Monoxide Alarm

1. Silence, acknowledge, and clear the alarm by:
 - a. **For Residential Systems:** Press "Touch here to Silence" on the display to silence the alarm.
For Commercial Systems: Enter your code. This silences and acknowledges the alarm and disarming of the system (if armed).
 - b. **For Residential Systems:** Press **CLEAR** followed by your code. This acknowledges the alarm and the disarming of the system (if armed).
For Commercial Systems: Press **CLEAR** followed by your code. The system attempts to clear the alarm from memory. If NOT successful (i.e., smoke in the detector) the Security screen is displayed and **Display Faults** displays a "Not Ready Fault."
 - c. Press **DISPLAY FAULTS** on the Arming screen. The faulted fire/carbon monoxide zone is displayed.
 - d. Press **CLEAR** and then enter your code. This clears the Fire Alarm/CO Alarm from the system.
2. If the keypad does not indicate a **READY** condition after the second sequence, press the **DISPLAY FAULTS** key on the Arming screen to display the zone(s) that are faulted. Be sure to check that smoke detectors/carbon monoxide detectors are not responding to smoke, heat, or gas producing objects in their vicinity. In this case, eliminate the source of heat, smoke or leak.
3. If this does not remedy the problem, there may still be smoke/gas in the detector. Clear it by fanning the detector for about 30 seconds.
4. When the problem has been corrected, clear the display by entering **DISPLAY FAULTS** on the Arming screen, selecting the fire or carbon monoxide zone, pressing **CLEAR** and then entering your user code.
Note: Contact your Central Station/Security Company for servicing if you have further problems with your system.


Using the Security System (cont'd)

Output Setup Function

Tuxedo can activate/deactivate up to 18 pre-defined control panel output functions (if programmed in the control panel). The Output Setup screen displays Output selections. Control these output functions by enabling/disabling as follows:

Press **Setup**  > **System Setup**  > **Advanced Setup** . If required, enter your Authorized Code.

Press **Output Setup**  > select the outputs to display or not display on the Output screen > **Apply** . A confirmation window is displayed stating: **"Information Settings saved"** Press **OK** to save the setting.


If **Back**  is pressed, a confirmation window appears stating: **"Output Settings changed. Do you want to save new settings?"** Select **Yes** or **No**.

Notes:

- 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.
- Output names can only be changed on Commercial panels.

More Choices

How to Clear/Hide a Control Panel Message

The Control Panel Message  icon alerts the user to a control panel message. When a Control Panel Message is displayed, the user has two options; clear the Control Panel Message immediately, or minimize the window and clear it at a later time.

To clear, press **CLEAR** and enter your Authorized Code. Once your **Authorized Code** is accepted, the Control Panel Message is cleared.

To hide; press **HIDE** to clear the Control Panel Message later.

Notes: If the alarm is still present, press **CLEAR** again and then enter your **Authorized Code** again.

Advanced System Features

While most of the commonly used security functions are available from the keypad's advanced user interface, there are some less used, advanced features that can either be accessed through Console Emulation mode on the keypad or a standard alpha keypad. To use features not supported by the keypad, refer to your Control Panel User Guide. Console Emulation Mode allows you to use a keypad interface just as you would a regular system keypad. All commands shown in Console Emulation mode can also be executed from a standard alpha keypad.




Notes:

- It is recommended that you **do not** use the Console Emulation Mode to enter GOTO commands. Unsatisfactory operation may result from issuing GOTO commands in Console Emulation.
- Do not press emergency pair keys (1 & *, 3 & #, and * & #), they **do not** function in the Console Emulation Mode. The A, B, C, and D icons do function if programmed as panic keys. Check with your system installer for details.

Console Emulation Mode

- Commercial systems with Alpha keypads have a feature where if you press a key for 5 seconds, you receive self-help messages about the pressed key or holding the * key for 5 seconds to provide zone descriptors. These features do not function in the keypad as all key presses are instantaneous.




How to Enter Console Emulation Mode

From the "Home" screen, press SECURITY  > **MORE CHOICES**  > **CONSOLE MODE** . Perform functions as you would from a standard alpha keypad.

Using the Security System (cont'd)

How to View the Event Log

Your system has the ability to record various events in a history log wherein each event is recorded with the time and date of its occurrence. The control panel must be programmed to record various system events in the installer programming mode.


From the "Home" screen, press **Security**  > **More Choices**  > **Event Logs** ; the first ten events are displayed. Press **SHOW MORE** to view all items, and press the up/down arrows to scroll through the event log.

Notes:

- While keypad is requesting and receiving the event log data from the control panel, the "Event Log" screen displays **"Please Wait!"** The **Next>>** and **<<Previous** icons are shown for commercial panels only when 100 or more events are in the log. They are not shown for residential panels.
- When **All Partitions** or **All Events** is pressed, and more than 100 events exist, **Next>>** and **<<Previous** are displayed showing the next 100 or previous 100 events.

How to Send Emergency Messages

An emergency message for fire, panic, or medical can be sent to the central monitoring station from the **Emergency** screen. The **Emergency** screen can be accessed by activating the **"PANIC"** icon located on the lower right corner of the screen.

Press **PANIC**  and then press and hold (for at least 2 seconds) the associated alarm icon:

FIRE  , **PANIC**  , **SILENT PANIC**  or **MEDICAL** .

Notes:

- The **Emergency** screen cannot be accessed while running a screen diagnostic test or while in the clean screen mode.
- Emergency messages are optional and may not be available on your system. Ask your system installer if emergency messages are available on your system.
- Medical functionality has not been evaluated and may not be used in agency compliant applications.

Setup Menus

Your installer has already set up your system, however, if changes are needed, you can change the settings as described below.

Brightness and Volume Control

From the "Home" screen, press **Setup** . Move the **Brightness/Volume** slide bar up or down to increase or decrease settings. Press **Save** when complete. If changes are made and you press **Save**, a pop-up window displays: **"Information Settings Saved"** and exits to the home page.

Note: Pressing **Back** without saving will display **"Aui Setup Changed. Do you want to save it? Yes or No. Yes** saves the changes. **No** discards the change.



Display & Audio Setup

Display and Audio Setup menus let you access Operating Modes.

Operating Modes provides access to: **Chime Mode**, **Voice Mode**, and **Voice Chime**.

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

To change these settings, do the following:

From the "Home" screen, press **Setup** . Press **Disp & Audio Setup**  and enter your Authorized Code, if required. Select **Chime Mode** or **Voice Mode** to turn the mode on or off. Press **HOME** or **BACK** after making your selection.



The Chime feature is intended for convenience and is not intended for life safety purposes or pool alarm and does not meet the requirements of UL 2017.

Notes:

- 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.
- It may take a few seconds for the Chime Mode to take effect.


Setup Menus (cont'd)


Weather Setup

The Weather forecast is displayed on the "Home" screen. To set the weather forecast for a specific location, press the current "Weather" Select USA, Canada or Other. Select Zip Code/Postal Code or press Country/City. Weather conditions for that location are displayed. To select the temperature unit, see below.

Temperature Unit

The temperature units for the weather display on Tuxedo's home screen can be switched between

Fahrenheit and Celsius. From the "Home" screen, press the following: **Setup**  **> Disp & Audio**




Setup ; enter an authorized code. Select the temperature scale, Celsius or Fahrenheit.

Adjust the Screen Timeouts

Settings include:

- **Backlight Off After X time** (turns the backlight Off after the selected time has expired)
- **Return To Homepage After X time** (returns to the "Home" screen after the selected time has expired)
- **Auto Slideshow After X time** (if enabled, begins the slide show after the selected time has expired)

To select the desired screen timeouts, do the following:



1. Press **Setup**  **> Disp & Audio Setup** ; enter an authorized code, if required.
2. Press the desired selection from the drop-down list displaying the time period for each option (Never, 30-seconds and 1, 2, 5 and 10 minutes) and press **Save** .


If changes are made and you press **Save**, a pop-up window displays: **"Information Settings Saved"** and exits to the home page.

Note: Pressing **Back** without saving will display **"Aui Setup Changed. Do you want to save it? Yes or No. Yes** saves the changes. **No** discards the change.

Clean Screen

With the exception of normal cleaning, the keypad is maintenance free. Clean the Touchscreen as follows:

From the "Home" screen, press **Setup**  **> Disp & Audio Setup** .

Press **CLEAN SCREEN** . 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"**

Press **Continue** to clean the screen or **Cancel** to exit.

Note: When **Continue** 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.



Setup Menus (cont'd)

Routine Care

- Treat the components of your security system as you would any other electrical equipment. Do not slam sensor-protected doors or windows.
- Keep dust from accumulating on the keypad and all protective sensors, particularly on motion sensors and smoke detectors.
- The keypad case and sensors should be carefully dusted with a dry soft cloth. **Do not spray water or any other fluid on the units.**




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






Time/Date Setup

When the time is set, it is stored in the keypad and sent to the control panel after pressing **Apply** and answer **Yes** to the next prompt. Additionally, when using the keypad, the panel may download its time into the keypad periodically after the clock is set (for Vista residential and newer commercial panels such as Vista 128BPT).

If **Get Time** is pressed, the keypad uploads 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 Saving Time

1. From the "Home" screen, press **Setup**  > **System Setup** .
2. Press **Time/Date Setup**  > enter your Authorized Code.
3. Press **DST**  if you want daylight saving 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. Press **APPLY**  to save the settings.

Note: If **DST On** (Daylight Saving Time) is selected, the keypad adjusts for Daylight Saving time at the month, week and time chosen. Make sure **DST On** is checked to enable this feature.

Setting current Time and Date

1. Press **Time/Date Setup**  and enter your Authorized Code. Press the **Month** "drop down," and select the current month.
2. Press the Day of the month by choosing the day on the calendar view.
3. Press the displayed **Year / Hour / Minutes** and enter the current year/hour/minute(s). Select **AM** or **PM**. (Each depression switches the AM/PM display).
4. Press the **MMDDYY** "drop down," and select a format for which you want the year to be displayed. When done, press

Apply .

Note: 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 check box to the left of the **12 Hour** display.

When done, a confirmation screen displays: "**Time Setting Confirmation Set time on the security system as well? Yes or No**"

Yes saves the time changes in your security system. **No** saves the changes to the keypad only.

Note: A **Yes** response is recommended.

Setup Menus (cont'd)

Power Mode Setup

Power Mode allows you to reduce power consumption in the event of a system trouble such as AC Loss or Panel Low Battery.

Select **Power Save Mode** to enable; then choose Turn-off Network, or Override Display Settings.

Press **Apply**  to save settings.

E-Mail Setup

The email options allows you to set up email accounts and receive email notifications when one or more system events occur.



Users can receive email notifications when one or more selected system events or conditions occur.



NOTE: Email notification require an active users email address and note the disclaimer at the bottom of the page. ***“Email notification is strictly for convenience use only. Avoid relying on this feature for life critical events. It is not UL certified and may fail at any time without notice.”***

NOTES:

- Email notification requires that you have an active email address.
- An SMTP account needs to be assigned to establish the email server domain (i.e., the “from” address).
- 4 programmable sets of events (labeled “Event 1 – Event 4”).
- Each event 1-4 can send email notifications to up to four email addresses.
- 7 event types and corresponding conditions can trigger an email.

User Email Setup

1. To set up an email notification, from the Home screen, press **Setup**  and **Email** .
2. Select **User SMTP** to set up the user’s email server information (user domain/server, which provides the “from” email address).
 - a. Select the email server name (email provider). Choose from GMAIL, OUTLOOK, YAHOO, or Add New E-mail Server.
 - b. Enter the email ID (user name) and password for the chosen email server on the appropriate lines.
 - c. The Email Server and SMTP port number fields are automatically filled unless “Add new email server” was selected. If “Add new E-Mail Server” was selected, enter the email server SMTP and port number information (see your email provider for details).

To change the “E-Mail Server Name,” press **Edit**  and enter a new server name.
Enter an “E-Mail ID” and password. Enter the “E-Mail Server” address and “SMTP Port Number.” If required by the e-mail service provider, press on the box next to **USE SECURE CONNECTION (SSL)**.
- d. Press **Save** .
3. Press **Event 1** to define the desired event notifications to be sent. Select the desired event types and conditions for this Event and press **Save**.
4. Enter the email address (es) to which Event 1 will send a notification; press **Save** when done. User notifications are restricted to one SMTP (from) email address. Repeat steps 3 & 4 for Events 2-4 if desired.
5. Press **E-MAIL LOG** to view the email log; press **CLEAR LOG** to remove the email log.

Setup Menus (cont'd)

Defining Event Types

To receive email notification when specific events occur, the "event type" must be defined. Scenes can be set to trigger based on the status of these settings. From "System Events Notification" screen, set the following event types:

For each event 1-4, choose the conditions that will trigger notification:

Event Type	Conditions that Trigger Notification
Security (normal mode; current home partition only)	DISARM, AWAY SECURED, STAY, ALARM
Zones (normal mode; current home partition only)	ALARM, TROUBLE, RESTORE
Occupancy (automation mode only)	HOME, AWAY, NIGHT (If in Commercial mode the options are Open, Close, Night)
Thermostat	TEMP ABOVE or TEMP BELOW a set Temperature
Door Locks	UNLOCKED or LOCKED
Garage Door	CLOSED, OPENED, OPERATION DISABLED/FAILED
Water Valve	CLOSED, OPENED
Recording	ON EVENT RECORDING, SD CARD MEMORY FULL

Notes:

- **WARNING:** The Leak Gopher® water valve does not send status to the keypad when manually operating. It is not recommended to select this device for an E-mail trigger.
- An SD Card Full Message displays when 90% of the usable space on the SD card is used.

Troubleshooting

- If an error is returned through the listed SMTP email provider stating that the email has blocked a sign in attempt, return to the SMTP server page and verify the email settings. The Tuxedo will populate an error that states "Warning: Email sending failed. Please check SMTP settings." If this is the case, check the security settings for the email chosen through the provider.
- **"Error: email sending failed/Problem in logging into configured SMTP email account. Please check"** also displays when the SMTP details are not properly programed or it is blocked.
- The customers email server may see a frequently sent message and could perceive it as a threat. The result is the email provider will lock down the email receive and send. You will have to contact their email provider to resolve.

UL

Email notifications are supplementary only and not evaluated for UL applications.

Setup Menus (cont'd)

IP Setup

This section allows you do an initial connection to the Wi-Fi network, or if network change has occurred (i.e. SSID change, Security Mode, or Passphrase/Shared Key).

LAN Setup

Setting up a LAN (non-Wi-Fi) connection in DHCP mode will automatically populate the required network information (IP Address, Subnet Mask, Default Gateway and DNS Server). **NOTE:** These fields are not editable. To change the network type to static press the "Internet Connection Type" from Dynamic IP to Static IP. Once, this is done the fields are now editable.

Wi-Fi Setup

By default, the keypad is configured for DHCP. Once accessing **IP**, a list of available network will display. Choose the desired network and enter the following information:

Required Field	Description
SSID	Network Name
Security Mode	The keypad will automatically detect the security mode of the router
Passphrase/Shared Key	Password to access the network

Manual Network Setup

The option to add a custom network is available by selecting **Add Network**. Connection to this mode requires the information in the "Required Field" column in the table above. Press **Save** when completed.

Static Network

The option for a Static Network is only available once you have connected using DHCP, when using a Wi-Fi connection. After connecting to a Wi-Fi network, select the connected network from the list. The next screen reveals the network details. Press the "Internet Connection Type" option to allow the IP Address, Subnet Mask, Default Gateway and DNS Server fields editable.

Remote Access

Remote Access Log In Setup (Account Setup)

UL

Remote Access is not for UL applications.

The home router must first be configured for port forwarding for both HTTP and HTTPS ports. Refer to the router's instructions for details on port forwarding. You can assign up to five user logins. A password is required if logging in from a remote location (not using the premises network).

To set up a remote access log in, do the following:

1. Press **Account Setup**.
2. Enter the desired user name and password. Passwords must be 8 alphanumeric characters and include at least one uppercase letter and one number.
3. Check the box for **Secured Remote Access (HTTPS)** (optional) and press **Save**.
A Confirmation window displays the message: "**Settings saved.**" The new user is displayed. The **ENABLED** icon is displayed when a successful network connection is completed.
4. To clear a user's login, press **Clear**.

NOTE: Remote login is blocked after 3 failed attempts. To reset remote access, you must log into the **Account Login** page on the Tuxedo then re-enable remote access. Press **Setup > Account**, then press the appropriate user **Enable** icon and press **Save**.

Webserver Access

Supported Browsers

System Requirements	Recommended Browser
Windows XP SP2 and SP3, Win7, Win8	IE 8.0 and above, Chrome 30 - 42, Safari 5.0.2 & above, Mozilla 26 and above.
Android Mobile	ICS4.0 and above
iPad™, iPhone™	Default browser (iPhone Version iOS4, iPad® Version iOS4 and iOS5, iOS6)
Android Tablet	Default browser (Galaxy – Android 2.3)
Win 8 tablet	Default browser
Other tablets, smart phones	Might face some issues because it is not possible to support all browsers.

NOTES:

- If JavaScript is disabled in any of the browsers then the functionalities will not be populated.
- If the "Load Images" option is disabled on a smart device's mobile browser, then images will not be populate on the pages.
- Google Chrome version 42 through version 44 do not support the QuickTime plug in; video streaming will not work. This is the same with Android Devices. – You have to enable NPAPI to view video streaming:
 1. Open Chrome type the following in the address bar: Chrome://flags/#enable-npapi.
 2. Press on Enable link for "NPAPI."
 3. Now close the Browser, open again and start using for TC Video.

Remote Access (cont'd)

Local Access

Tuxedo's remote access option offers built-in web hosting capability to access your system via any web enabled device. The Tuxedo can connect to a network router via Ethernet cable (LAN network) or Wi-Fi depending on the installation preference. The **Account Login** menu accesses the username and password require for accessing the home page, if "Local Access Authentication." Features of this page are as follows:

- 5 total users
- Enabling or disabling authentication for local access
- Secure web server access for remote connection (HTTPS)

Web Server IP Address Access

The Home screen reveals the connected IP address in the bottom left hand corner. Any device with a browser connected to the same network as the Tuxedo can access the webserver. This does not require authentication (Username and Password). If this authentication is desired, check the **Authentication for Web Server Local Access** in "Account Login", which can control who has access to connect. Unchecking the box leaves the Web Server open for anyone to connect.



Connecting the Tuxedo to a mobile device

To connect a mobile device to the Tuxedo, view the "Local System Control (Tablet/Smartphone)" training video, and then do the following:

Smart Phone or Tablet

1. Verify the Tuxedo is connected to the Internet via Wi-Fi or its Ethernet connector.
2. Verify the Smart Phone or Tablet is connected to the same network as the Tuxedo Wi-Fi.
3. Open the browser and enter the IP Address on the keypad (described above).

On a Personal Computer (PC)

1. Verify the Tuxedo is connected to the Internet via Wi-Fi or its Ethernet connector.
2. Verify the PC is connected to the same network as the Tuxedo Wi-Fi.
3. Open the browser and enter the IP Address on the keypad (described above).

Remote Access Browser Commands

Access to basic arming commands is available if using a Smart Phone or Tablet browser. Full access to keypad options is available if using a PC.

NOTES:

- If left inactive, the web connection will disconnect after 10 minutes.
- If using an iPad, iPhone or PC browser with low bandwidth (PC Mode), switch to the mobile theme. To switch to the

mobile theme press **Switch Theme**  in the lower left hand corner.

- Not supported commands during remote or local access with a web browser in PC or Mobile Modes:

Security	Annunciate status	Multimedia	Message center
	System troubles		Picture/slide show
	Emergency icon		Camera 360 degree rotation
	Event logs		Camera Wi-Fi settings
	Show zones		Recording settings

Remote Access (cont'd)

Automation	Z-Wave device management Emergency icon Rooms Remote scenes	Setup	Account setup Disp. & Audio setup IP setup System setup Email setup Voice setup Remote firmware upgrade
General	Weather Training videos		

Local Web Server URL Access


In cases where the Tuxedo is set for DHCP, there is the possibility the IP address can change upon a router reset. This can block the users attempt to access the Web Server locally. To correct this problem, navigate to the Address Box of the browser and type in [HTTP://Tux.MyLanConnect.com](http://Tux.MyLanConnect.com). The browser will display the following information:

Description	MAC Address	Device Name	Internal IP
TUXW_XX.XX.XX	00D02DXXXXX	Master Bedroom Keypad	192.168.1.120
TUXW_XX.XX.XX	00D02DXXXXX	Garage Entry Keypad	192.168.1.110
TUXW_XX.XX.XX	00D02DXXXXX	Front Door Foyer Keypad	192.168.1.112

Troubleshooting

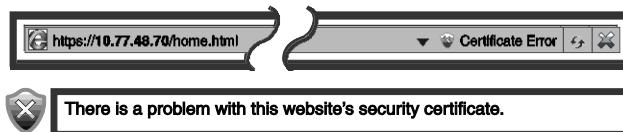
If the page does not populate, from the Home Screen press **Setup >System Information**.

1. Press "Sync IP to Server"
2. The message **"System IP sync to server is successful,"** when a successful connection is made.
3. If no connection is present, the Message "Keypad is not in the network. Please check the network connectivity."
4. If the keypad is connected to the LAN with no internet access, the message **"System IP sync to server has failed."** appears.

If Authentication for Web Server Local Access is enabled, and no user name and password is created, the browser will produce the following message:  **Warning Remote access has been deactivated. Go to your Tuxedo's login setup to create an account for remote access."**

NOTES:

- To correct this add a username/password and verify the user is enabled.
- Browser may block access if the Secured Web Server Access (https) option is enabled. During remote login, if the browser displays a Security/Certificate Error (see examples below) this is not a threat and it is recommended that you continue.



Remote Access (cont'd)

Remote Access using Port Forwarding

Tuxedo offers built-in web hosting capability to access your system via any web enabled device. The Tuxedo IP Address is used on a standard web browser to control user functions. The home router must first be configured for port forwarding for both HTTP and HTTPS ports.





Local/Remote access lets the user access Tuxedo's menus directly via the Internet when away from home. The home router must first be configured for port forwarding. Refer to the router's instructions for details on port forwarding.

See the Notes above for any security certificate errors and steps to be taken to proceed.

Software Updates

System Information

To view the current software version installed on your system, and verify connectivity, do the following:

Press **Setup**  > **System Info** . The Interface Name, Host Name, MAC Address, CRC, IP Address, Broadcast Address, and NetMask are also displayed. If the IP address is not displayed, then there is no network connectivity.

NOTE: AN SD CARD WITH 200 MB OF AVAILABLE SPACE IS REQUIRED.

Manual Software Upgrades


Go to the Toolkit site located at: <http://www.tuxedotouchtoolkit.com/index.html> to download the latest software to an SD card.



1. Copy the software upgrade file to the SD card and power off the Tuxedo.
2. Insert the SD card and power on the Tuxedo.

Optional Software Updates


To receive optional remote updates, enable the **Enable Remote Upgrade** checkbox on the System Information

screen. The "Status Bar" will display an  icon for downloading in progress, once complete the **Setup**  icon

changes to **Available Software Update**  icon. (For the Tuxedo to receive an update, it needs to be connected to the internet via LAN or WIFI.)

1. Press **Available Software Update** icon  > **Software Download** icon  to view the current software version, the new version, release date and release notes.
2. Press **Install now** to begin the software update.
3. The screen displays: "**Files downloaded successful...System will reboot in 15 seconds to reprogram the unit.**"
4. Or, select **Reboot** to start the update process quicker. (Pressing **Abort.** cancels the update.)
5. When the update is complete, Tuxedo reboots and completes the software update.

Automatic Critical Updates

Press **Remote Upgrade Setup** to set the time period that you want to upgrade the system in the Arm condition. Select the **Duration Type** in hours or days and then press on the duration value to enter the number of **Hours** (between 24-1440 hours [default 720]) or **Days**, (between 1-60 days). Press **Save**  when done.

NOTE: Critical updates will run without user intervention, an SD card with 200MB **MUST** be installed.

UL

Automatic Push Software Updates are not for UL applications.

Remote Access (cont'd)

Integrating Total Connect Remote Services






The Tuxedo supports Remote Services for controlling Z-Wave devices and scenes remotely from an associated Total Connect account.



LAN or Wi-Fi **MUST** be enabled for proper integration with Total Connect. Synchronizing is required before the enabled devices will display in Total Connect. Consult the Total Connect Online Help guide found in your Total Connect Account for more information.

Enabling Devices for Total Connect

After devices have been added to the Tuxedo, the next step is to add them to Total Connect.

1. From the home screen press **Setup**  > **System**  > **CS Setup** . Enter the Authorized code and press **TC SERVER INFO**.
 2. Press **TC Enable** ; the "Z-Wave Device Management for Total Connect" screen is displayed.
 3. Press the check box next to the device(s) that you want to enable/disable in Total Connect.
- NOTE: Some devices may need to be enabled after a software upgrade.**
4. Press **Save**  when done.
 5. After devices have been enabled for Total Connect, log into your Total Connect account and follow the Total Connect prompts to synchronize the data with Tuxedo.

NOTES:

- On Total Connect, the maximum number of supported devices is 40 switches (including water valves), 3 thermostats, 4 door locks and 3 garage door controllers.
- Tuxedo supports 232 devices (including the Tuxedo keypads) in the Z-Wave network.

Controlling Automation (Z-Wave) Devices Remotely

Use Total Connect to control Z-Wave devices: lamp modules (binary switch), dimmer modules (multilevel switch), thermostats, door locks, garage door controllers, water valves, etc., from a smart phone, iPad® and Android™ Tablets, or PC.

1. Access the Total Connect account and navigate to the Automation section of the dashboard.
2. Select a displayed device and press the desired action. Refer to the "**Total Connect Online Help Guide**" for further details on controlling Z-Wave devices.

Remote Access (cont'd)

Creating Scenes in Total Connect

The following table summarizes the relationships between Total Connect scenes and Tuxedo scenes:

Controlling Device	Scenes created in Total Connect		Scenes created in Tuxedo	
	View	Edit Scenes	View	Edit Scenes
Total Connect	yes	yes	no	no
Tuxedo	yes	no	yes	yes

Note: For troubleshooting purposes, Total Connect server information (including IP addresses) can be viewed on the **Total Connect Server Setup** screen by pressing **TC Server Info**.

Use the Automation section of the dashboard in Total Connect to create up to 20 scenes. Refer to the **Total Connect Online Help Guide** for further details and device limitations for creating an automation scene.



Scene triggers and actions created in Total Connect can be edited only from Total Connect. Scene conditions cannot be programmed through Total Connect.

Viewing and Controlling Total Connect Scenes from Tuxedo

Use the **Scenes** icon to display and control scenes that have been created in Total Connect.

1. From the “Home” screen, press **Automation**  > **Scene Setup**  > **Remote**. The screen displays a list of scenes created in Total Connect.

NOTE: Pressing **Local** allows you to view a list of scenes created in Tuxedo on (not Total Connect) and manually run them.

2. To control a Remote scene, select the desired scene, and then press the appropriate action (ex. Run).

Notes



RF EXPOSURE WARNING

The Tuxedo must be installed to provide a separation distance of at least 7.8 in. (20 cm) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

Z-Wave 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 reduces 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.

Compatible Z-Wave Devices











Z-Wave devices may vary; follow the instructions in the *User's Guide* for your specific device when adding and deleting devices into the Z-Wave network.



Visit <http://www.tuxedotouchtoolkit.com/> for a complete list of compatible Z-Wave devices. Refer to the document titled "**Z-Wave Compatibility Chart.**"

System Troubles

The "Security" screen also displays an icon(s) if a system trouble(s) occurs. If a Trouble icon is shown, contact your alarm company. The following icons may be shown as applicable to your system:

ICON	FUNCTION
	AC Loss – The system is not receiving AC power.
	Bell Failure – The system bell or siren has a problem. Note: This icon displays 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 **More Choices** and then **Show Zones** to view and scroll through the complete list of faults.

FEDERAL COMMUNICATIONS COMMISSION (FCC) & INDUSTRY CANADA (IC) 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.

CLASS B DIGITAL DEVICE 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

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 Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (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'interférences nuisibles. (2) Cet appareil doit accepter toute interférence reçue y compris les interférences causant une réception indésirable.

USE OF THESE PRODUCTS IN COMBINATION WITH NON-RESIDEO PRODUCTS IN A WIRELESS MESH NETWORK, OR TO ACCESS, MONITOR OR CONTROL DEVICES IN A WIRELESS MESH NETWORK VIA THE INTERNET OR ANOTHER EXTERNAL WIDE AREA NETWORK, MAY REQUIRE A SEPARATE LICENSE FROM SIPCO, LLC. FOR MORE INFORMATION, CONTACT SIPCO, LLC OR IPCO, LLC AT 8215 ROSWELL RD., BUILDING 900, SUITE 950, ATLANTA, GA 303350, OR AT WWW.SIPCOLLC.COM OR WWW.INTUSIQ.COM.

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Resideo Technologies Inc., is the company behind and the manufacturer of this product ("Seller"), 2 Corporate Center Drive, Melville, New York 11747 warrants its products to be free from defects in materials and workmanship under normal use and service, normal wear and tear excepted, for 24 months from the manufacture date code; provided, however, that in the event the Buyer presents a proper invoice relating to the purchased product and such invoice bears a date later than the manufacture date, then Seller may at its discretion, reflect the warranty period as commencing at invoice date. Except as required by law, this Limited Warranty is only made to Buyer and may not be transferred to any third party. During the applicable warranty period, Seller will repair or replace, at its sole option and as the exclusive remedy hereunder, free of charge, any defective products.

Seller shall have no obligation under this Limited Warranty or otherwise if the product:

- (i) is improperly installed, applied or maintained;
- (ii) installed outside of stated operating parameters, altered or improperly serviced or repaired by anyone other than the Seller/Seller's Authorized Service/Repair Center;
- (iii) damage is caused by outside natural occurrences, such as lightning, power surges, fire, floods, acts of nature, or the like; or
- (iv) defects result from unauthorized modification, misuse, vandalism, alterations of serial numbers, other causes unrelated to defective materials or workmanship, or failures related to batteries of any type used in connection with the products sold hereunder.

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Hardwire Contacts and PIRs – Seller warrants parts for hardwire contacts and PIRs in accordance with the terms of the above limited warranty for a period of five (5) years from the manufacture date code.

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The product should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers. The correct disposal of end-of-life equipment will help prevent potential negative consequences for the environment and human health.

Any attempt to reverse-engineer this device by decoding proprietary protocols, de-compiling firmware, or any similar actions is strictly prohibited.

For Warranty information visit: www.resideo.com.



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www.resideo.com

Resideo Technologies, Inc.
2 Corporate Center Drive, Suite 100
P.O. Box 9040, Melville, NY 11747

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