Honeywell

VAM (VISTA Automation Module) - Installation & Setup Guide

Introduction

VISTA Automation Module (herein referred to as "VAM") combines home automation and home security. The VAM's features allow integration with VISTA installations to support Z-Wave devices; is intended for use with compatible VISTA® series controls.

The VISTA Automation Module also supports Remote Services for controlling Z-Wave devices and Scenes remotely from an associated Total Connect™ account or port forwarding option. VAM is controlled using a web browser on a Wi-Fi enabled smart device such as a Tablet PC, laptop, Smartphone, etc.

VAM Features:
- Supports WPS Enrollment
- Built in Web Server
- Wi-Fi and LAN Connectivity
- Z-Wave® Technology
- Honeywell Total Connect® Remote Services Compatible
- Supports up to 32 IP Cameras (4 viewable at one time)

DISPLAY NOTE: For optimum viewing of the screens and menus, the tablet's font size setting may need to be adjusted.
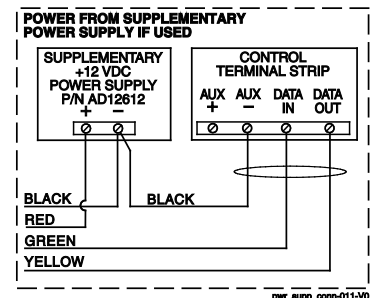
Make Wiring Connections

The VAM connects to the control's keypad data (ECP) terminals using the provided 4-wire keypad harness.
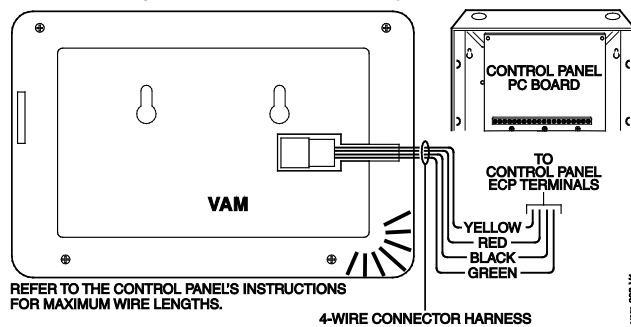
Wire Connections to the Control Panel

Verify that the VAM and other connected devices do not exceed the control's Aux Power output capability. If it does, use a supplementary power supply as shown.

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

**Supplementary Power Connections**

Mounting the VAM

The VAM is for indoor use only and should be mounted near the control or a keypad connected to the control for ease of wiring.

NOTES
- If using Z-Wave devices, the best practice is to enroll a device (see Adding Z-Wave Device Section) and position the VAM in centralized location to confirm best Z-Wave reception.
- Ideally, the VAM wiring should be directly connected to the keypad input on the panel. Observer proper installation procedures for connecting the VAM to the back of a keypad.

The VAM mounts to a wall surface by hanging on two screws. See the diagram to the right.
- Leave the screw heads 1/8" above the wall surface.
- If necessary, drill a hole in the wall for the wire harness to pass through.
- Connect the wire harness to the VAM before mounting. Refer to control's installation instructions for correct data (ECP) terminal connections.
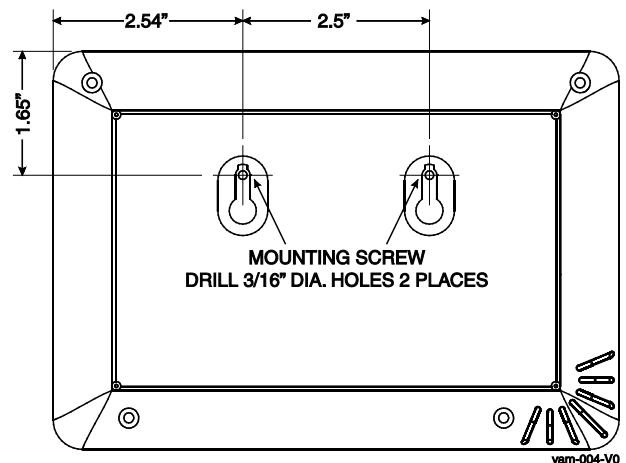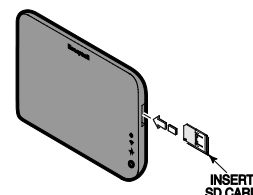

Mounting Diagram
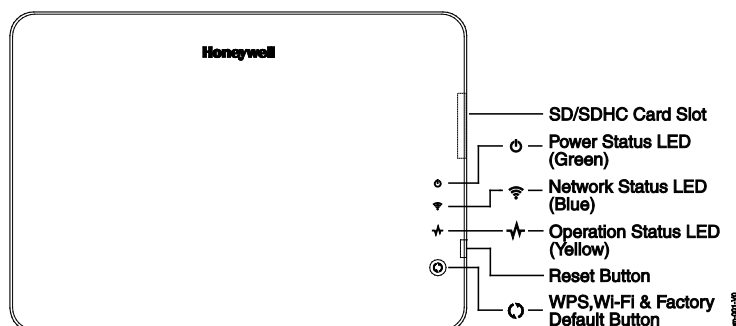
Insert an SD/SDHC Memory Card

When inserting, the gold contacts on the card must face you.
NOTES:
- Avoid touching the contacts on the card
- 4GB SD card is supplied
- Supports up to 16GB SD/SDHC Card

See *"Software Upgrades"* section for details on automatic updates.

Front Panel LEDs

SD/SDHC Card Slot

Power Status LED (Green)

Network Status LED (Blue)

Operation Status LED (Yellow)

Reset Button

WPS,Wi-Fi & Factory Default Button

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Specifications

Width: 7.58'' (192.5mm)
Height: 5.31''(135.0mm)
Depth: 0.53''(13.45mm)
Voltage: 12VDC
Current: 180mA
Humidity : 93% RH, non-condensing
Temperature:
- Operating : 14˚F to 131˚F / -10˚C to 55˚C
- Shipping / Storage: -40˚F to 158˚F / -40˚C to 70˚C

LED Functions

LED	FUNCTION
Power Status (Green)	Indicates power status. • Blinking when it is powered up and booting. • Solid green when it is fully functional.
Network Status (Blue)	Indicates Wi-Fi Status. • In normal operation the LED blinks when VAM is booting • Solid blue when VAM is ready as AP mode (acting as an Access Point) or connects to the internet as station mode (STA mode). STA mode is when the VAM is connected to the Wi-Fi router only, internet access may be available, but the VAM disables all remote access.
Operation Status (Yellow)	In normal operation, the LED is normally off. • It will blink slowly when there is no ECP (including ECP error) or Z-wave controller not responding. • Fast blinking indicates Z-wave is in enrollment or deletion status.
Reset Button	Press to reboot the device.
Wi-Fi, Factory Default, WPS Enrollment Button	• **Wi-Fi Network Reset**: Press and hold down for more than 5 seconds to clear the VAM's Wi-Fi network connection. You then need to reconnect the VAM to your Wi-Fi network. • **Factory Default Reset**: Double press this button, then, while the green, blue, and yellow LEDs blink in sequence, press and hold down this button for more than 5 seconds to set the VAM to its factory default settings. • **WPS Enrollment:** Single press starts the WPS enrollment process. See LED Status Table on page 10.

Program the Control Panel for use with VAM

At the control, assign an appropriate touch screen (AUI) type device address (ECP address) for VAM, and set a partition (if applicable). Refer to the control's programming instructions for detailed procedures.

NOTE: Changing the VAM's ECP address after initial installation will cause a reboot, during this process the VAM will be inaccessible.

On VISTA® Plus series or equivalent
Use data field *189 to enable an unused device address 1, 2, 5 or 6 for the VAM. Addresses 1 and 2 are enabled by default.
On VISTA® Turbo and Commercial VISTA Series (VISTA-128BP, 128BPT, VISTA-128FBP, 128FBPT, etc.)
Use #93 Menu mode to enable an unused device address.
- For older controls under Rev. 10, addresses 1-2, and 3-30 may be used.
- For VISTA Turbo series controls Rev. 10 and higher, addresses 1-30 may be used. These addresses are normally not defaulted for AUI type devices.

If using Remote Services
Enable an appropriate RIS address in the control and verify the option is enable the in the control's programming.
- On VISTA Plus Series panels below revision 10, the second digit of field *91 must be enabled with a 2. On panels with revision 10 or higher, the RIS option is automatic and not necessary to enable.
- On VISTA Turbo Series controls, choose the device address to set to RIS and enter a device type of 12.

NOTES:
- These options MUST match how the AlarmNet Communicator is programmed.
- Z-Wave scene programming requires RIS enabled, to assign different triggers and actions.

Quick Arming Options

In PC or Mobile View, when user presses arm **Away/Night/Stay** they will be prompted to enter a user code. If "Quick Arming" is enabled, a user code is not required. Refer to the control's installation instructions for programming.

Initial Setup

The initial set up of the VAM is performed in 4 steps.

1. Optional WPS Enrollment Process, see the WPS enrollment option below. (Optional)

NOTE: If WPS enrollment is chosen, the Manual Wi-Fi Network screen will not be prompted (as shown below).

2. Choosing the Language.
3. Manual Connecting to the Wi-Fi network.
4. Collecting user data and give the VAM a name.

Language Settings

Upon initial power up, the first option is to select a language (This also occurs after a factory defaulting the unit.)

NOTE: This can be changed later by pressing **Setup > Language**. The VAM can display one of 4 languages: English (default), Español, Português, Français. Once you have selected the language press **Save** at the bottom of the page, or **Next**.

End User License Agreement (EULA)

The end user license displays and gives you the option to skip or accept the EULA. Choose the option to display the home page.

NOTE: This option reappears during initial installation or after a factory default of the unit.

Wi-Fi Protected Setup (WPS) Enrollment Procedure

To use the WPS enrollment you need a router with the WPS enrollment option and an internet connection.

1. Press the WPS button on the router, or Honeywell WAP Plus, and verify it is in the enrollment mode (consult the WAP-Plus or router's installation instructions.)
2. Press the button on the VAM.
    a. The blue LED initially flashes three times every other second.
    b. The blue LED will flash slowly when the router and VAM are processing a secure connection.
    c. Once the blue LED is solid, the VAM is connected to the Wi-Fi network.
3. Go to vam.mylanconnect.com to display a list of devices, then select the desired VAM and press **GO**.
4. Navigate through the initial setup process as shown below.

NOTES:
- This process is recommended upon initial power up, or after a default, before accessing the VAM's easy setup mode.
- An internet connection is required for this process.

Manual Wi-Fi Network Configuration

To set up the Wi-Fi network for the VAM, the following items are needed:

- Wi-Fi enabled smart device (Tablet PC, laptop, Smartphone, etc.)
- VAM SSID and WPA2 password (located on the VAM's label)
- VAM default IP address: **192.168.2.1**
- Home router SSID and WPA2 password (typically located on the home router's label); home router must use WPA2 encryption and have a password (key) assigned.
- The initial configuration for connecting to the VAM and retrieving a local IP address requires internet access to the local area network (LAN).

NOTES:

- Before setting up the network, set your smart device for Wi-Fi operation only (turn off the 3G/4G option).
- If the wireless router is later replaced, these steps must be repeated to connect the VAM to the new router.
- If SSID is lost, contact technical support at (800) 645-74924.
- If AP only mode is desired, press **Skip** on the bottom of the page to skip the Wi-Fi Setup.

1. **Connect a smart device to the VAM.**

    a. Power up the VAM.
    b. Connect the smart device's Wi-Fi to VAM using the device's Wi-Fi settings menu (VAM works as a wireless access point).
        1. Enter the VAM SSID: **VAM_xxxx** (SSID is case-sensitive)
            NOTE: xxxx = the last 4 digits of the MAC address
   2. Enter the Key (found on the VAM and labelled "WPA2 key")
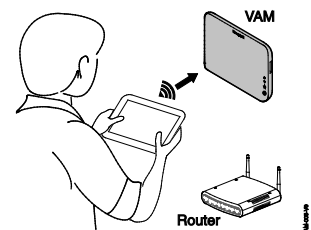
2. **Connect the VAM to the home router.**
   a. Open a web browser on the smart device.
   b. Enter the VAM's default IP address: **192.168.2.1** into the browser on your smart device.
   c. Enter the home routers SSID and security key (SSID and security key are case-sensitive).
   d. Press **Connect**. A 1 minute countdown begins and displays "The device is connecting to "*Network Name*", please keep this page open. Go to Wi-Fi setup and press the *"Network Name"* and return to this page." During this time, a new network IP address is assigned to the VAM.

   NOTE: If you have trouble connecting, please follow the onscreen instructions and retry the connection process. If using DHCP option, confirm the router is connected to the internet. If using Static IP option, verify an IP address is available.
   e. When completed, the VAM connects to the assigned router and displays the "User Data Screen".
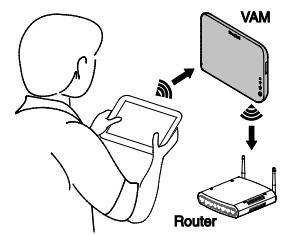
3. **User Data Screen**

   This page collects the user's data. Enter the data or press **Skip** to continue to the VAMs home page. The page data entries are as follows:

Name	Zip Code	Mobile Number
Region	Device Name	E-mail ID

   NOTES:
   - This page can be accessed from the home page by pressing **Setup > User Profile.**
   - The data for Region and Zip Code/Postal Code synchronizes to the Time/Date setup if completed during the initial setup.
   - The e-mail address synchronizes to the e-mail setup, if completed during the initial setup.
   - The Zip Code option is needed for the sunset/sunrise for your Z-Wave scenes.
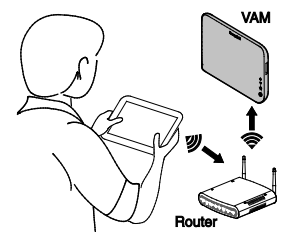
Program the VAM Device Address

The default VAM device address = 1.

1. Press **Setup** > **System**.
2. Press **ECP Address**. Using the Up/Dn arrows, choose the device address assigned for VAM in the control panel.
3. Press **Apply**.
4. The VAM automatically reboots after the device address is set.

NOTE: The Primary RIS option is only selected if the customer is **NOT** using Total Connect remote services. Enabling can cause unpredictable results.

Set the Time & Date

Get Time/Date from the Control Panels

Press **Setup > System > Time/Date Setup >** Verify the time is set in the control panel **> Get Time.**

Manually Setting the Time/Date

1. Press **Setup** > **System** > **Time/Date Setup.**
2. Press the Month, Year, Hour, and Minutes using the drop-down arrows for each.
3. Press **AM** or **PM** (press to toggle).
4. Press the desired date format using the **MMDDYY** drop-down arrow.
5. Check the box for 12-hour format. For 24-hour format uncheck the box.
6. If Daylight Saving Time is used in the installation time zone, press **DST** and set the appropriate start and end DST month, weekend and hour. The VAM will automatically adjust the time when Daylight Saving Time starts and ends.
7. Press **Apply** to save the settings.
8. Press the Region from the **Region** drop-down menu and enter the appropriate ZIP or Postal code.
9. A choice (checkmark = Yes; X = No) to push the time to the control panel may appear. Press **Yes** or **No** as desired. "Yes" sets the control panel to the time entered in VAM.

NOTE: This option is only available on residential panels. Manual programming of the time and date are required in commercial controls.

Automation Mode only: The User or Installer can setup the time zone for the VAM manually or choose to synchronize with the internet.

Set Up Email Notification

Users (and/or the installer) can receive email notifications when one or more selected system events or conditions occur.

NOTE: Email notification requires that the user has an active email address. 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."*

1. Press **Setup > Email.**
2. Press **User SMTP** to select the email provider. SMTP establishes the email server's domain (the "from" address).
   a. From the drop-down menu, press the email provider (Gmail, Outlook, Yahoo), or Add New.
   b. Enter the email ID (user name) and password.
   c. The Email Server and SMTP port number fields are automatically populated unless "Add New" was selected.

Event	Description
Security	Disarm, Away Secured (End of Exit), Arm Stay
Zones	Alarm, Trouble, Restore
Thermostat	Temperature Above and Below
Door Lock	Locked, Unlocked
Garage Door	Closed, Opened, Operation Disabled/Failed
Water Valve	Closed, Opened

   d. If Add New was pressed, enter the appropriate SMTP and port number information (see your email provider for details).
   e. Press **Save**.
3. Select the email address(es) that will be notified when event types and conditions occur.
   a. Press **Event 1** to define the event types and conditions that will trigger (send) notifications to the chosen email address(es).
   b. There are 4 events. Each event will allow you to send to four separate emails. Choices for email notification options include Security, Zone, Thermostat, Door Lock, Garage Door, and Water Valve.
   c. Press **Save** and you will get a response that says *"Notification Save Success."*
   d. Repeat step three for Events two through four, if desired.

NOTE: See the *"User Guide"* for more details.

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 VAM displays 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

Z-Wave Device Management Screen Device List

The "Z-Wave Device Management Screen Device List" is composed of 5 columns.

DEVID Displays the device or "Node" ID displayed in numerical order as you "Include" or "Add" Devices.

  NOTE: Once a device is excluded that node number cannot be used again, unless the controller is defaulted.

NAME Displays default and custom device names

TYPE Displays the Z-Wave device type (i.e. multilevel switch, binary switch, entry controller, etc.)

INFO Displays the following Icons:

Router:	Chain Link:	Pad Lock:
The device is a routing slave and can be used as a repeater.	The node (device) can send unsolicited messages to the VAM.	Secured network is supported.

STATUS Displays the following messages:

Success	The node has reported back a normal status report.
Failed	Communication with this device has been lost.
Update Success	Search was successful when running **Search Devices** operation on a device.
Update Failed	Search was unsuccessful when running **Search Devices** operation on a device.
Not in Secure Network	Device is expected to be secured (such as an entry controller, but failed to receive the encrypted key. (Remove device and add again closer to the VAM.)

The system can automatically activate various devices when certain events occur based on predefined scenes. A scene consists of a trigger, an optional condition, and up to five actions. Up to 10 scenes can be defined.

Trigger	The event that triggers the programmed action(s).
Condition	An optional even that put a condition on the trigger. Condition 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	The device action(s) when the triggering event occurs.

1. Press **Automation > Scene Setup > Add Scene.**
2. Press **Scene Name**; enter a name.
3. Assign the desired "Condition," "Trigger," and "Action" for this Scene.

NOTE: After each press **Save**!

Adding Z-Wave Devices

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

To add (include) Z-Wave devices, verify the device is properly installed, log on to the home screen, then do the following:

NOTE: Refer to the manufacturer's instructions for proper installation procedures.

Light, Switch, Outlet Modules
1. Press **Automation > Z-Wave Setup > Add Device**.
2. Press the Function Key on the device; follow the on-screen messages until "Device added successfully."

Add a Door Lock
1. Press **Automation > Z-Wave Setup > Add Device.**
2. Enter the proper sequence on the lock. Wait a few minutes to enroll properly. As an entry controller an exchange of encrypted data takes place and requires extra time.

To verify activation: on the VAM, press Back; wait 30 seconds. Press Refresh; the new device is displayed.

NOTES:
- The VAM 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.
- VAM has the capability to monitor status of lock and determine whether locked, unlocked, and low battery.
- Be sure the door lock's orientation/handedness is correct.

Add a Honeywell Thermostat (or another manufacturer)
1. Press **Automation > Z-Wave Setup > Add Device.**
2. On the Honeywell thermostat select Thermostat; set the "Time/Date" and follow the instructions in the thermostat Installation Guide for enrollment.
3. To complete, press **Done**.
4. Press Exit to return to normal operation.
5. To verify activation: on the VAM, press **Back**; wait 30 seconds. Press **Refresh**; the new device is displayed.

NOTE: VAM has the capability to monitor status of thermostat for low battery.

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

To add (include) Z-Wave devices, verify the device is properly installed, log on to the home screen, then do the following:

Add a Water Valve Module
1. Press **Automation > Z-Wave Setup > Add Device**.
2. Follow the Water Valve Module's instructions for the Z-Wave Add/Remove process.

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

Add an Over Head Garage Door Module
1. Press **Automation > Z-Wave Setup > Add Device**; the screen displays a series of messages.
2. Follow the Garage Door Module's instructions for the Z-Wave Add/Remove process.

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

> **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 and 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.**

Defaulting the Z-Wave Controller

To remove all Z-Wave devices, do the following:
1. Press **Automation > Z-Wave Setup** to display the "Z-Wave Device Management" screen.
2. Press **Z-Wave Default.**
3. Press **Yes**. The following message is displayed:

This Z-WAVE controller is about to be factory defaulted and will lose all devices in the enrolled list.
All Z-WAVE devices must be re-enrolled after this reset.

Yes or No

> **NOTE IF SYSTEM DEFAULT IS PERFORMED:**
>
> If the VAM is reset to Factory Defaults the controller will assign a new network ID. All Z-Wave devices must be re-included into the system, even if they appear on the Device List. Remove all Z-Wave devices first, then re-include all desired devices (see "Adding Z-Wave Devices" section).

Create a Group (Used for creating scenes that include more than 3 devices)

1. Press **Automation > Group Setup.**
2. Press **Add** > enter a Group Name > **Back**.
3. Choose the **Group Type** (Binary Lights, Thermostats, Door Locks, Multilevel Switches, Garage Doors, Water Valves, Shades, and Others) from the drop-down list.
4. Choose the device(s) which will be associated with this group from the drop-down list.
5. Press **Save**.

Create a Room (Used to organize your Z-Wave device list)

1. Press **Automation > Room Setup.**
2. Press the **Add** > enter a Room Name > **Back**.
3. Select the device(s) which will be associated with this room from the drop-down list.
4. Press **Save**.

Changing Z-Wave Device Name

To change the Z-Wave device icons, do the following:
1. Press **Automation > Z-Wave Setup**.
2. Press the **Z-Wave device**.
3. Enter the desired name and press **Save**.

Changing Z-Wave Device Icon

To change the icons, do the following:

1. Press **Automation > Z-Wave Setup**.
2. Press the Z-Wave device to be edited.
3. Beneath device name, press the icon to display next to the name.

NOTE: This applies to Binary and Multilevel switches only.

Light Bulb Light Switch Garage Door Sprinkler Pool
Water Faucet Strobe Window Siren or Sounder Fan

Diagnostics and Total Connect Integration

To enter the Diagnostic Connect option press **Setup > System > TC Server.**
1. Pressing **Diagnostic Connect** will test the AlarmNet server's connection status. If the test has failed, check your network connection.
2. Verifies the Z-Wave status, if enabled it will communicate Z-Wave status to Total Connect 2.0.
3. Pressing the "TC" icon 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 2.0 account.

NOTE: Refer to the *"User Guide"* for more information and Total Connect Setup.

Using VAM as a Secondary Controller

VAM can be used as a secondary controller when connected to another Z-Wave network.

NOTE: If VAM is configured as secondary controller, it **cannot** be used with Total Connect Remote Services.

1. Remove any Z-Wave devices previously included in the VAM.
2. Press **Automation > Z-Wave Setup** to display the Z–Wave Management screen, press **Z-Wave Default** and press **Yes**.
3. Press **Z-Wave Primary** to switch the VAM to a secondary controller. The Z-Wave Primary icon changes to Z-Wave Secondary accordingly.

4. Start the inclusion process at the other network's primary controller (see controller's manual), then press the **Add Device** on the VAM's Z-Wave Management screen. To remove (exclude) VAM from the primary controller, start the exclusion process at the primary controller, then press **Remove Device** in VAM.

NOTES:
- Some manufacturers have software that can configure the network. If this is the case, after all devices are enrolled in the network, you must learn in the VAM as a secondary controller to "import" all the devices over to the VAM. Once this is complete, you can switch roles to primary. This is done by accessing the "role shift" option on the primary controller and on the VAM by pressing **Setup > System > Z-Wave Advanced Setup > Z-Wave Secondary Controller Shift to Primary.**
- When VAM is configured as secondary it cannot be used with Total Connect 2.0.

Troubleshooting Z-Wave

Cannot add new device

Make sure the Z-Wave device is within range of the VAM, if not you may need to move the device closer to the VAM. Refer to the Z-Wave device Instruction Guide for proper range.

Device is within proper range but still is not included.

1. At the VAM: Press the **Automation** from the "Home" screen and then press **Z-Wave Setup**. If the device does not appear on the screen, press **Remove Device**.
2. At the Z-Wave device, press the **Function Key**. The screen will display a message "**Device Removed**".
3. At the VAM, Include device again.

Highlighted device will not delete

When deleting a device, if the selected device remains on the screen, highlight the device name and press **Removed Failed**

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 https://mywebtech.honeywell.com/ or http://www.tuxedotouchtoolkit.com/ for a complete list of compatible Z-Wave devices. Refer to the document titled **"Z-Wave Compatibility Chart."**

NOTE: The listed companies in the document referenced online may manufacturer multiple Z-Wave devices. Installing 'like' modules not included on this list may produce unpredictable results. These devices have not been confirmed as compatible.

Adding Cameras

The VAM supports up to 32 cameras.

IMPORTANT: Connect cameras only when accessing VAM via the home router network and follow the camera's instructions for mounting.

- To add a camera to VAM, it must be connected via an Ethernet cable, even if the camera is wireless. After a wireless camera is added, the Ethernet cable can be removed.
  a. Connect an Ethernet cable to the back of the camera (LAN); connect the opposite end to the Ethernet port on the router.
  b. Apply power to the camera; wait for initial power-up.
  c. Press **Multi-Media > Camera Setup**.
  d. Press **Discovery** to locate the camera. The screen displays an "In Progress" message.

     NOTE: For best performance set video resolution to 320 x 240, at 8 frames per second, Normal quality.
     - Maximum suggested camera resolution = 640 x 480.
     - Maximum suggested frame rate = 15 fps.
  e. If the camera information is not discovered automatically, press **Add** to enter camera information manually.

- To edit camera information, press the **Camera Name > Edit**. Enter required information and press **Save**.

Manual Camera Setup
1. Connect an Ethernet cable to the back of the camera (LAN); connect the opposite end to the Ethernet port on the router.

   (**NOTE**: A LAN connection is initially required, and once configured the **Camera WIFI** will change from a LAN to Wi-Fi.)
2. Apply power to the camera; wait for initial power-up.
3. Press **Multi-Media > Camera Setup**.
4. Enter the camera details below:

• Camera Name	• Camera Model
• Camera IP Address or URL	• RTSP Streaming URL
• MJPEG Streaming URL	• Mobile Streaming URL
• RTSP (Real Time Streaming Protocol) Port #	• HTTP Port
• Resolution (Options are 160x120, 320x240, 640x480)	• Frame Rate (Ranges from 1-30 Frames Per Second)

NOTES:

- In general, VAM is designed to support cameras with the following features: **UPnP** for camera discovery on LAN, **RTSP** streaming, **MPEG4, H.264, and Onvif** for streaming on VAM, **MJPEG** for streaming to browsers.
NOTE: Every camera manufacturer makes their cameras slightly different, so it is not a guarantee that VAM will work with every camera that supports the above network and codec features.
- Maximum number of enrolled cameras cannot exceed 32, with only 4 viewable at any one time.
- If using Total Connect 2.0 remote services, only Honeywell AlarmNet IP cameras (with a maximum of 6) have the capability to be viewed from the customers remote service account. Settings are defaulted for Honeywell AlarmNet IP Cameras, changing the model Number will not automatically adjust to the cameras correct settings. Refer to the cameras setup utility to gather this information.

Software Upgrades

Software upgrades may be available for this product. These upgrades can be installed manually, or automatically.

System Information

To view the current software version installed on your system, do the following: Press **Setup > System Info**.

Automatic Software Updates

To receive automatic remote updates an SD card with a minimum of 200mb available space is required. When an update is available, the system will automatically update the system.

NOTES:

1. After a software upgrade, it is recommended that you delete your browser's Temporary Internet Files (cache). Undesired operation may occur if these files are not deleted.
2. Upon next login to the VAM, an End User License Agreement (EULA) will be prompted. Press **Accept**, then proceed to using the VAM as normal.

Options

IMPORTANT: This menu is intended for the installer only and should not be changed by the user.

Options include the following:

Normal Mode	For use when VAM is connected to a VISTA control panel
Demo mode	For use in the event a VISTA security system is unavailable. Selecting Demo mode disconnects communication between the VAM and the VISTA control panel, but otherwise VAM can control Z-Wave devices and perform its other non-security related functions such as viewing cameras and activating scenes.
Automation Mode	For use in the event a VISTA security system is unavailable. The VAM has the same features as Demo Mode except the status bar across the top will not display status of a security system.

Set Up Remote Access (Account Setup)

Remote access lets the user access the VAM'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.
NOTE: When using VAM via remote access, the System HTTP API link will not display.

To set up a remote access log in, do the following:
1. Press **Setup > Account**.
2. Enter the desired user name and password. Passwords must be a minimum of 8 alphanumeric characters, and include at least one uppercase, one lowercase, and one number.
3. **"Enable local access authentication"** will prompt the user to enter a user name and password to gain access to the VAM, when connecting using the local IP address.
   NOTE: If the user forgets the password (or one does not exist) they can always locally access the VAM within 20 minutes of power up.
4. Press **Save**. The new user is displayed. (To clear a user's login, press **CLEAR**.)

To access VAM remotely, use a web browser and enter the external IP address, which the VAM's network IP address has been forwarded to, or a DYDDNS service that is subscribed to. Either one of these will prompt the login screen. Enter the assigned user name and password to open the main menu.

NOTES:

- Remote login is blocked after 3 failed attempts. To reset remote access, you must connect to VAM locally via the home router; then re-enable remote access. Press **Setup > Account**, then press **Enable** for the appropriate user and press **Save**.
- Port 443 is the fixed port assigned to the VAM and cannot be changed. It is a secure login procedure, the URL must begin with HTTPS:// then the external IP address. If not, you may receive an error of "There is a problem with this devices security certificate."

For an external dynamically assigned IP address, using a DYDDNS can prevent troubles logging in due to the external IP address changing. Refer to the DYNDNS provider for set up instructions.

LED Status Table

LED Indication

⏻ (Green)	📶 (Blue)	∿ (Yellow)	**Notes**

Normal Operation

⏻ (Green)	📶 (Blue)	∿ (Yellow)	Notes
⏻	📶	∿	Boot Process, **VAM is inaccessible**
⏻ *(Flash)*			**Slow Flashing**: Final Boot Process, VAM is inaccessible
⏻	📶		**Ready to Use**
		∿ *(Flash)*	**Fast Flash:** Z-Wave is in the inclusion or exclusion process
⏻ *(Flash)*	📶 *(Flash)*	∿ *(Flash)*	**All 3 LED's will scroll from top to bottom.** The VAM is currently in the default process

Trouble Shooting

⏻ (Green)	📶 (Blue)	∿ (Yellow)	Notes
		∿ *(Flash)*	**Slow Flashing:** a. Loss of ECP communication with the Security Panel (Check wiring and ECP Addressing) b. Internal Z-Wave module absent or loose from the slot
	📶 *(Flash)*		**Slow Flashing:** a. Connecting to the Router b. Disconnected from the router (ex. Out of range, router power down, interference etc.)
⏻ *(Flash)*	📶 *(Flash)*	∿ *(Flash)*	**All Flashing in Unison:** Failed to configure the Wi-Fi router (verify SSID/password, router has no internet connection if DHCP used, incorrect IP address if using Static)

Current blue LED is solid, press the button on the VAM:

Blue LED Status	Results
Double Flashing every other second -> Rapid flash -> solid	Connection Successful
Double Flashing every other second -> slow flash -> solid	Connection Failed
Double Flashing every other second -> Rapid flash -> slow flash -> solid	Connection Failed

Current blue LED is slow flash, press the button on the VAM:

Blue LED Status	Results
Double Flashing every other second -> Rapid flash -> solid	Connection Successful
Double Flashing every other second -> slow flash	Connection Failed
Double Flashing every other second -> Rapid flash -> slow flash	Connection Failed

Legend

⏻ (Green)	= Solid	⏻ *(Flash)*	= Flash
📶 (Blue)	= Solid	📶 *(Flash)*	= Flash
∿ (Yellow)	= Solid	∿ *(Flash)*	= Flash

Navigation & Menu Icons

To aid in the navigation through the VAM WI-FI screens, a set of user-friendly icons has been provided.

NOTE: For more icons and descriptive uses please refer to the installation instructions

ICON	ICON TITLE	FUNCTION	ICON	ICON TITLE	FUNCTION
	"Automation"	Accesses the Z-Wave setup, Scene setup, and Room setup screens.		**"Z-Wave Setup"**	Accesses the Z-Wave management screen
	"Security"	Accesses the "Security" screen.		**"Z-Wave Enroll/Add"**	Add a Z-Wave device
	"Multi-Media"	Accesses the Camera features.		**"Scene Setup"**	Accesses the scene setup menu
	"Home"	Returns you to the "Home" screen.		**"Add Scene"**	Add a scene
	"Back"	Reverts to the last screen viewed.		**"Camera Setup"**	accesses the camera setup menu
	"Setup"	Accesses the Setup menus.		**"Camera Discovery"**	used to "discover Wi-Fi cameras
	"Set Home Router"	Accesses the "Set Home Router" screen		**"Add"**	add a camera
	"Refresh"	Used to refresh the page or Zone Lists.		**"Edit"**	edit a device name
	"Switch Theme"	Switch between normal and mobile view		**"Z-Wave Primary"**	indicates primary controller
	"Save"	used to save options		**"Z-Wave Secondary"**	indicates secondary controller
	"TC Enable"	used to enable Z-Wave devices for Total Connect usage		**"Z-Wave Reset" "Z-Wave Default"**	Resets the primary controller or (Z-Wave Reset) removes devices (Z-Wave Default)
	"Network"	Network information and setup		**"Exit"**	Exits the VAM menu
	"Disconnect/Delete"	Disable Total Connect 2.0 server or delete an entry		**"System"**	Accesses system setup options
	"Stay"	Arms the system stay		**"Account"**	Remote log in user set up
	"Console Mode"	Virtual keypad emulation mode		**"Language"**	Language selection
	"Multi-Partition"	Arms multiple partitions (panel specific)		**"Z-Wave Device Management for Total Connect"**	Enable or disable Z-Wave devices from displaying on Total Connect
	"Show All Zones"	Displays status of all zones		**"Diagnostic Connect"**	Disconnects Total Connect 2.0 server
	"Grouping"	Groups similar devices for scenes programming		**"Rooms"**	Groups devices in "Rooms" for organizational purposes

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.

RF EXPOSURE WARNING

The VISTA Automation Module (VAM) 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.

Mise en Garde

Exposition aux Fréquences Radio: L'antenne (s) utilisée pour cet émetteur doit être installée à une distance de séparation d'au moins 7,8 pouces (20 cm) de toutes les personnes.

DECLARACIÓN IFETEL
La operación de este equipo está sujeta a las siguientes dos condiciones
1. Es posible que este equipo o dispositivo no cause interferencia perjudicial y
2. Este equipo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

DECLARACIÓN ANATEL
Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário

Z-Wave® devices are identified by the Z-Wave logo and can be purchased from your local retailer.

Z-Wave® is a registered trademark Sigma Designs, Inc. and/or its subsidiaries.

USE OF THESE PRODUCTS IN COMBINATION WITH NON-HONEYWELL 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

NOTE: This is a Security Enabled Z-Wave Controller.

SUPPORT & WARRANTY

For the latest documentation and online support information, please go to: https://mywebtech.honeywell.com/

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

For patent information, see www.honeywell.com/patents

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