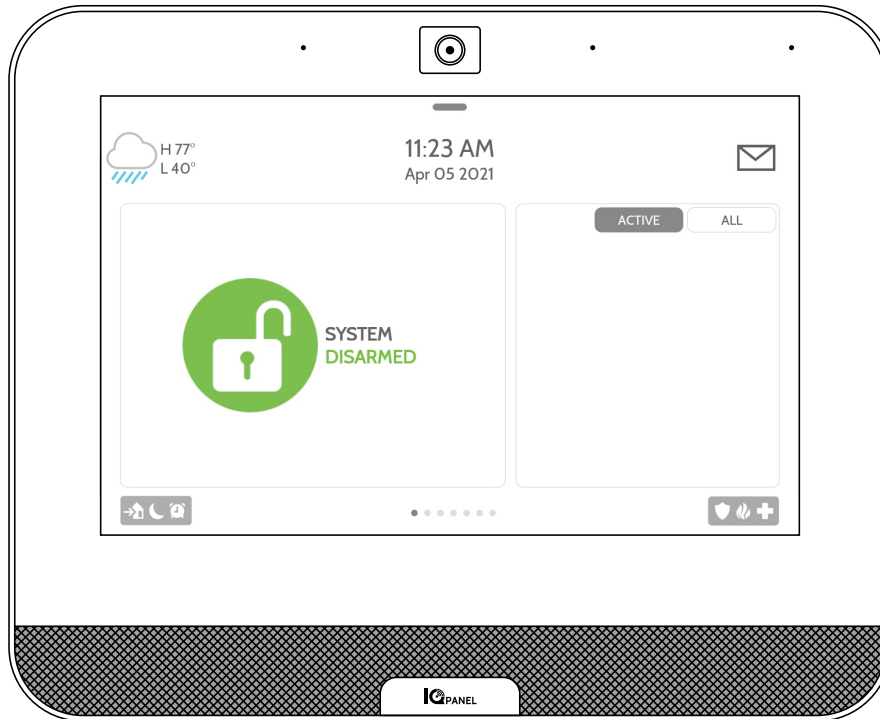


# IQ PANEL 4

## INSTALLATION MANUAL

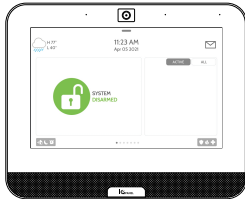
IQ Panel 4  
Software Version 4.0.0



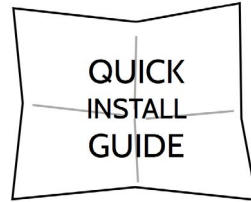
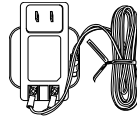
The IQ Panel 4 is an All-In-One 7" touchscreen built with a built-in camera, providing full security and smart home functionality in an easy to use interface.

## INCLUDED IN BOX

IQ Panel 4



Power  
Supply



## ABOUT THIS GUIDE

This document outlines the basic hardware specifications and software directions to install and customize the IQ Panel 4. Note that the information presented is not comprehensive, but is specifically dedicated to those menus, features, and systems accessible solely to those with the proper installation code. Features accessible to users and installers alike are outlined in the IQ Panel 4 User Guide. The information contained herein is proprietary, and is solely owned by Qolsys Inc. Any reproduction, modification or distribution without permission is strictly prohibited.

## SUPPORT



## QUESTIONS?

Contact us at  
[techsupport@qolsys.com](mailto:techsupport@qolsys.com)

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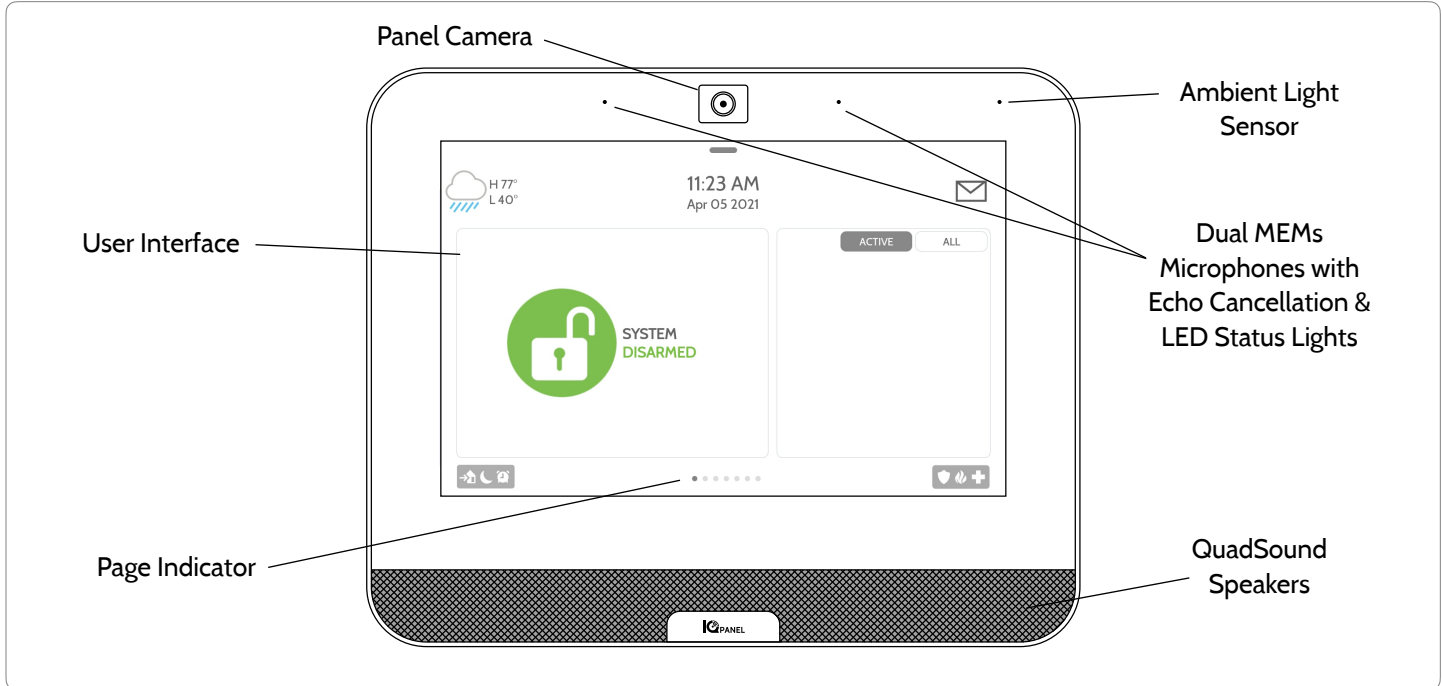
# PANEL OVERVIEW

Warning: This Product should be installed in accordance with the National Fire Alarm Code, ANSI/NFPA 72, (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269) and with National Electric Code, ANSI/NFPA 70. Printed information describing proper installation, operation, testing, maintenance, evacuation planning, and repair service is to be provided with this Product. In Canada the product shall be installed in accordance with the Standard for the Installation of Residential Fire Warning Systems, CAN/ULC-S540.

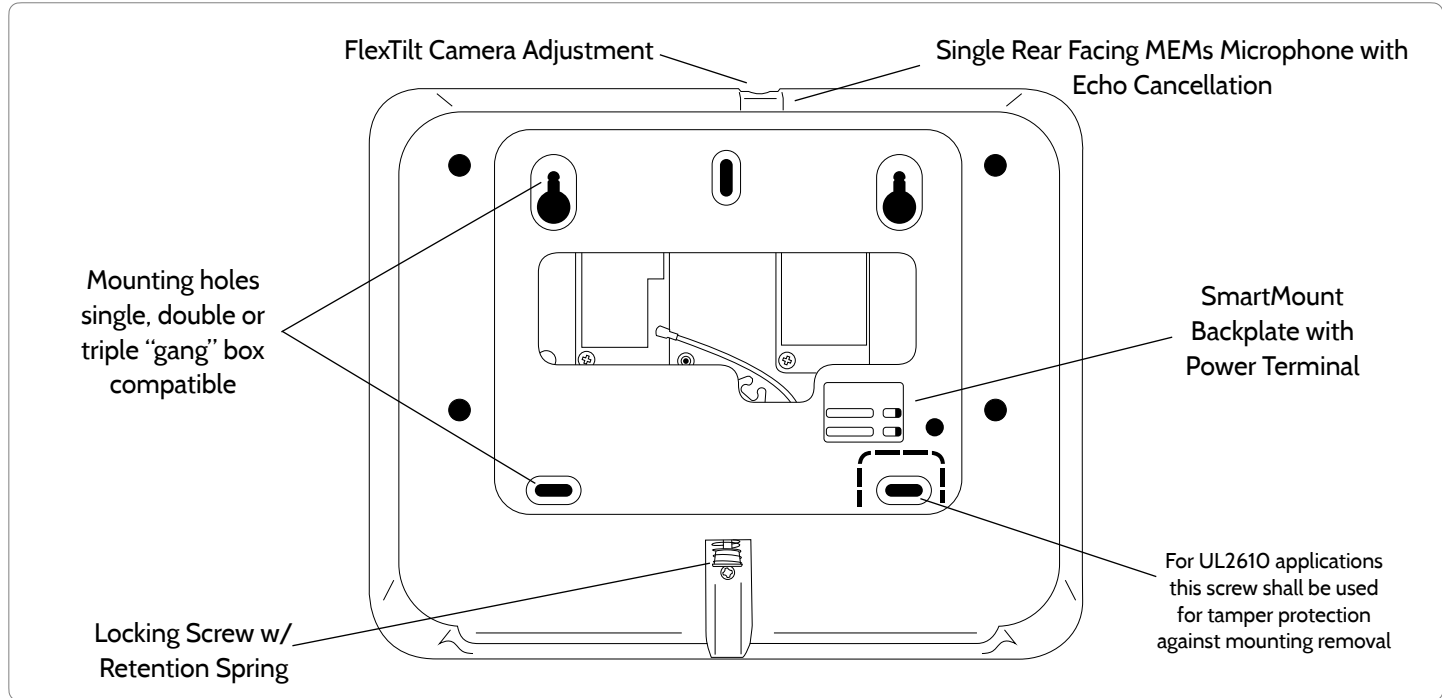
Warning: For Canadian installations this Product and all sensors associated with it (collectively, the “System”) should be tested once a week. The test shall be performed also with primary DC power de-energized. For recommended smoke detectors maintenance instructions refer to user manual associated with compatible Qolsys model QS5110-840 and PowerG model PG9936 smoke detectors.



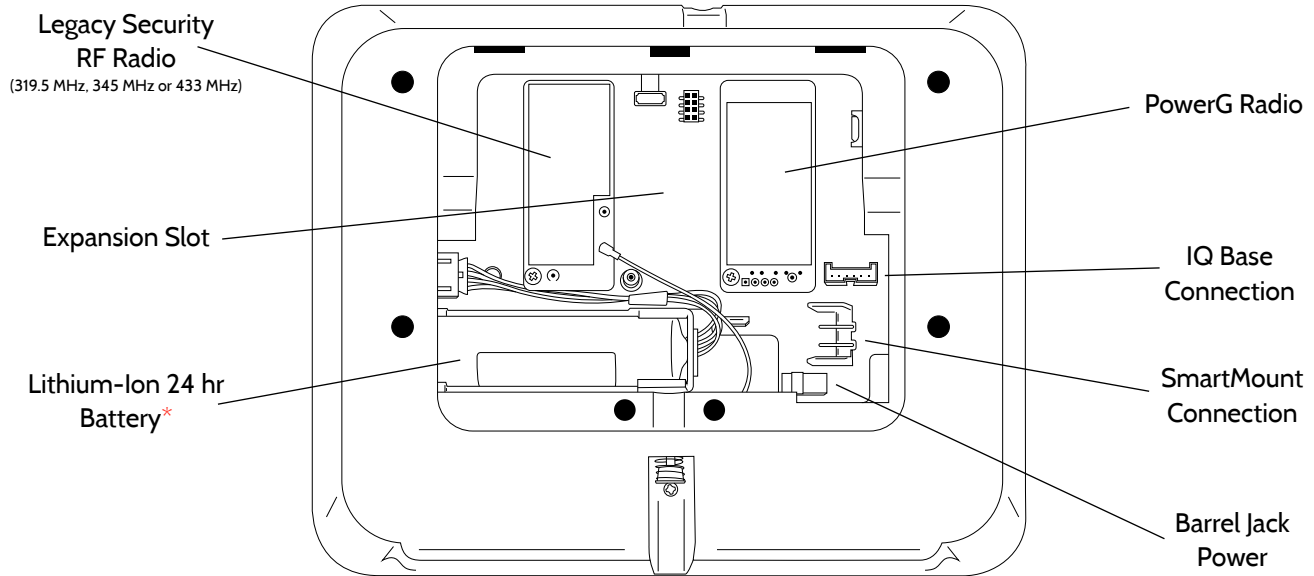
## EXTERIOR FRONT



## EXTERIOR BACK



## INTERIOR



### **\*CAUTION**

The battery should NEVER be disconnected without following proper power-down procedures. Failure to comply may result in data corruption, panel failure, and a void of the manufacturer's warranty.

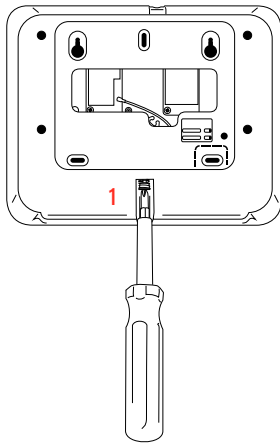
# INSTALLING THE PANEL

# INSTALLING THE PANEL

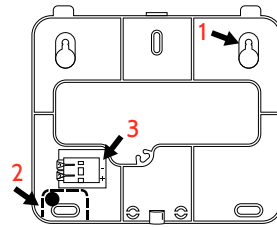
## WALL MOUNT

Note: For UL/ULC Commercial Burg installations (UL2610/ULC-S304 Security Level II compliant) use only wall mount option

This product when installed as per these instructions does not present the risk of fire, electric shock, or injury to persons.



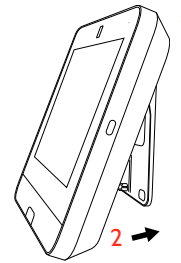
1. With a small phillips screwdriver, undo the locking screw from the back of the panel and remove the SmartMount backplate.



1. Mount the backplate to the wall using appropriate hardware ensuring it is level.

2. A screw is required in break-away wall tamper for UL 2610.

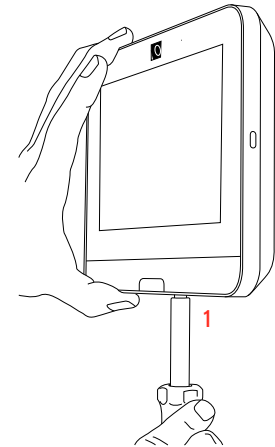
3. Connect the power supply to the barrel jack on the back of the panel or to the (+) and (-) terminals on the backplate if using a custom length wire.



1. Latch the top of the IQ Panel 4 onto the SmartMount backplate.

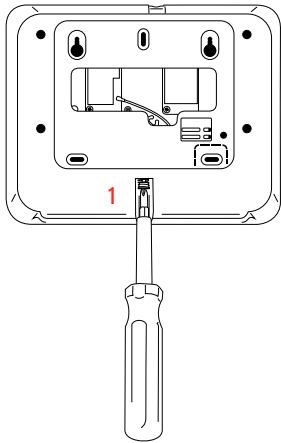
2. Swing the panel down towards the backplate and press firmly against the wall.

If using a custom length wire, power terminals will automatically connect and provide power to the IQ Panel.

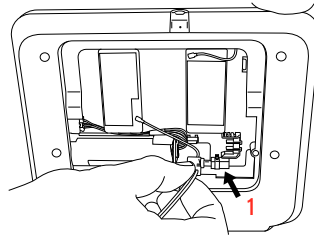


1. With a small phillips screwdriver, screw in the locking screw from the bottom of the panel to secure it to the wall.

## TABLE STAND (OPTIONAL)

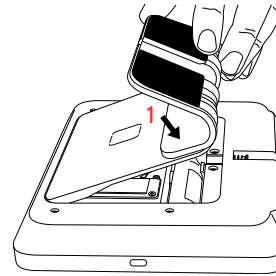


1. With a small Phillips screwdriver, undo the locking screw from the back of the panel, remove the SmartMount backplate and discard.



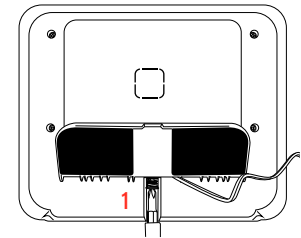
1. With the included power supply and cable, plug the barrel connector into the barrel jack as shown above.

Be sure the barrel connector properly seated.



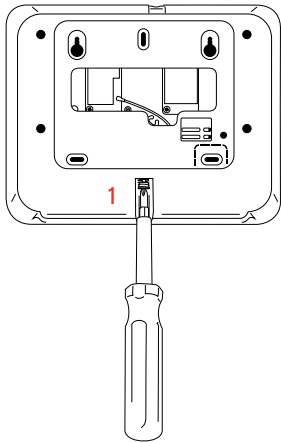
1. Locate the SmartMount table stand and insert the hooks into the back of the panel, then swing down and press into place.

Be sure that the power wire is routed out the middle of the table stand using the provided slot.

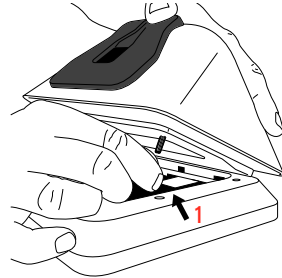


1. With a small Phillips screwdriver, screw in the locking screw from the bottom of the panel to secure it to the table stand.

## IQ BASE SPEAKER (OPTIONAL)

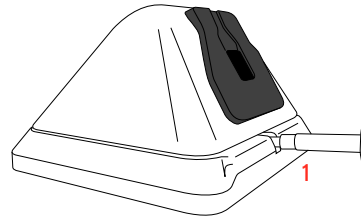


1. With a small phillips screwdriver, undo the locking screw from the back of the panel, remove the SmartMount backplate and discard.

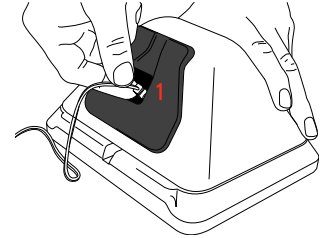


1. Locate the IQ Base with SmartMount and connect the power cable from the IQ Base into the **BLACK** connector inside the IQ Panel 4. Refer to Interior Diagram on Page 7

Insert the top hooks into the back of the panel, then swing down and press into place.



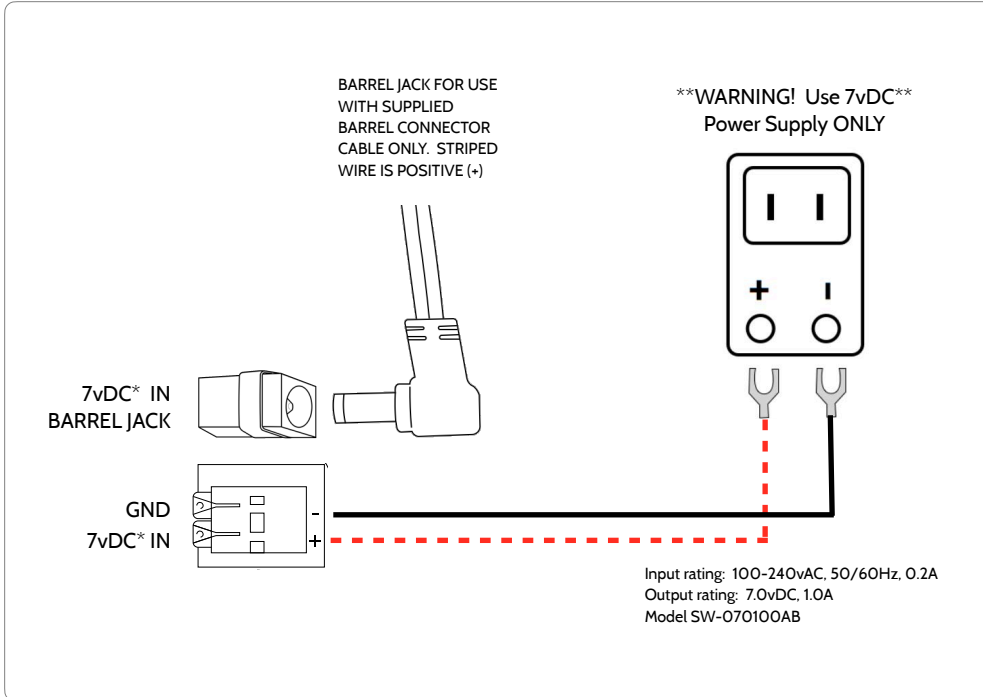
1. With a small phillips screwdriver, screw in the locking screw from the bottom of the panel to secure it to the IQ Base.



1. With the included power supply and cable, plug the barrel connector into the barrel jack on the bottom of the IQ Base as shown above.

Be sure the barrel is pushed all the way in.

## WIRING DIAGRAM



## NOTES

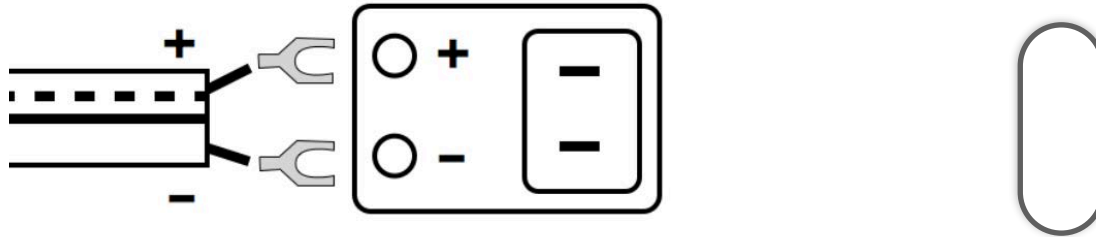
**IMPORTANT IF USING CUSTOM LENGTH WIRE:**

- 7vDC Transformer: Use 18AWG wire no longer than 98.5ft to ensure sufficient power is received at the panel.

\* The minimum permissible wire size shall not be smaller than 22 AWG



## POWERING THE PANEL



Connect power supply.

**WARNING!** Use **included 7vDC** Power Supply ONLY

If using the provided cable, the “striped” wire is (+)

Note: Power supply shall be located within same room as control unit

Press and hold the power button on the right side of the panel for 3 seconds to power up.

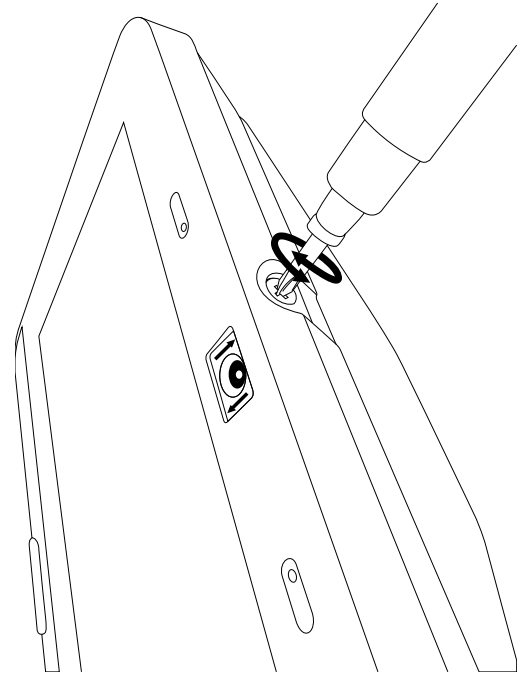
## FLEXTILT CAMERA ADJUSTMENT

FlexTilt camera adjustment allows the built-in Panel Camera to be angled up or down depending on the installation need. This is especially helpful when wall mounting over an existing keypad location that may be higher or lower than usual, or when table stand mounting.

1. Use a small phillips screw driver to adjust the FlexTilt screw on the top of the Panel to achieve the desired camera angle.

**NOTE:** Turning the screw clockwise angles the camera down. Turning the screw counter-clockwise angles the camera up.

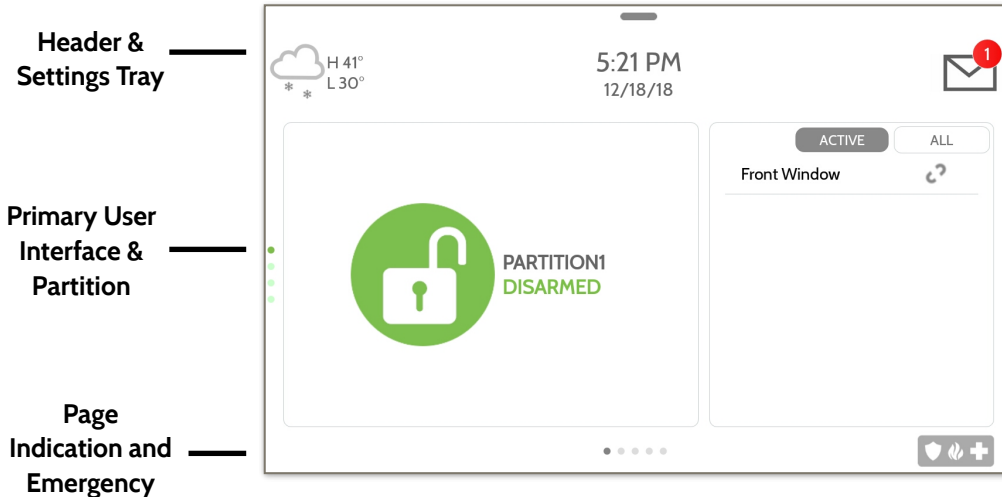
2. Arm/Disarm the Panel to capture a Disarm Photo and test the FlexTilt position. Adjust as needed.



# USER INTERFACE

## HOME SCREEN OVERVIEW

The home screen is divided into three sections. The header shows the date & time, today's weather, message center and the Settings tray. The Primary interface shows arming options and sensor status & partition select. The footer shows panic options and additional pages.



## MESSAGE CENTER

The header contains the pull down settings tray, the weather icon, time/date and a message icon in the upper right portion of the screen where you will find Security Provider messages and contact info, alerts, video tutorials and FAQ's



11:18 AM  
09/15/16



CONTACT US

This is where you will find the Security Provider's Contact Information

VIDEO TUTORIALS

This is where you will find Video Tutorials to help with common questions

ALERTS/ALARMS <sup>1</sup>

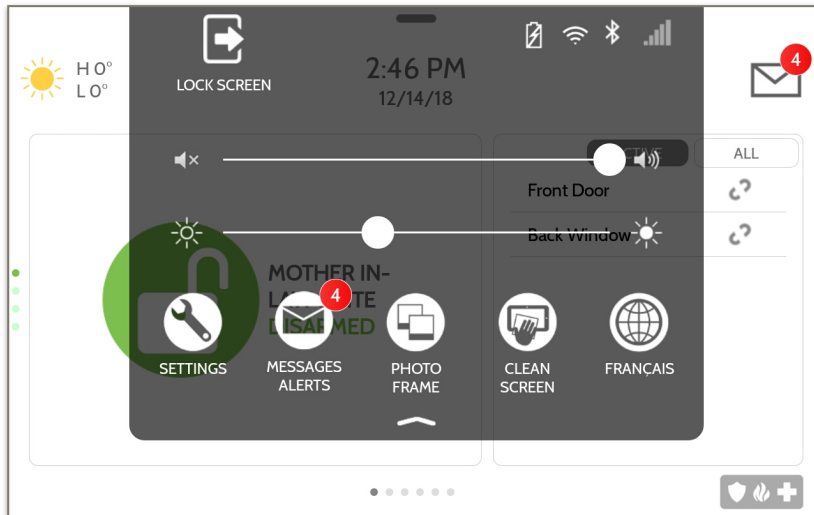
This is where you will find Panel Alerts/Alarms notifications

MESSAGES

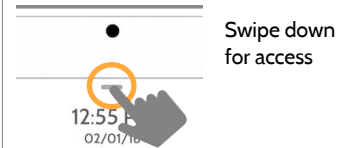
This is where you will find messages from the Security Provider

## SETTINGS TRAY

To access the Settings tray swipe down on the bar at the top of the screen. The Settings tray has quick access to system, battery, Wi-Fi, Bluetooth & cellular status as well as volume control, brightness, a lock screen icon and other quick settings.



## FIND IT



Swipe down for access



When partitions or screen lock are **ENABLED**, a Lock Screen icon replaces the Status icon. Touch this icon to switch between partitions.



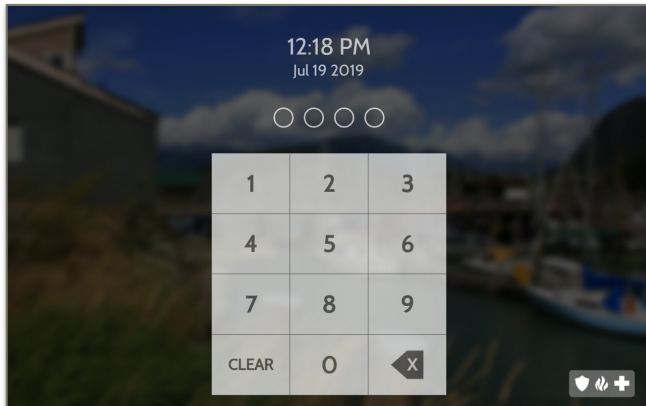
When partitions are **DISABLED**, a Status icon resides in the upper left corner of the settings tray. Touch this icon to return to the security page.

# PROGRAMMING

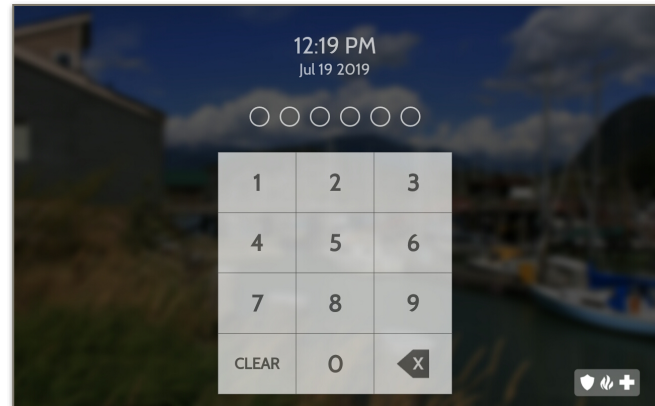
## SCREEN LOCK

When the “Screen Lock” or “Partitions” setting are enabled, a lock screen will be presented once the panel has been woken from either a touch on the screen or pressing the wake/sleep button on the side of the panel. This prevents unauthorized access to the panel and/or one partition from accessing another as well as managing permissions to “Advanced Settings”.

4 DIGIT SCREEN LOCK

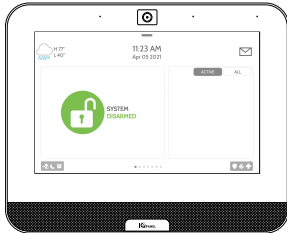


6 DIGIT SCREEN LOCK





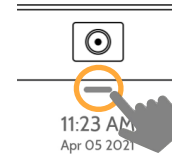
## SETTINGS



The Settings page allows quick access to various simple features & settings that do not require the protection of a Dealer, Installer or Master code to be changed.

Setting	Description
Display	Adjust brightness, font size & 12/24 hour time
Weather Temperature	Toggle between Fahrenheit and Celsius
Status	View the "Current Status" of security sensors: Zone #, Name, Status (Open, Close, Active, Idle, Tamper, Failure), Battery and sensor History. Also view "Alarms" and "History" for security sensors globally
Z-Wave™ Device Status	View the "Current Status" of Z-Wave devices: Name, Type, Status (Normal, Failure), and Battery. Also view "Alerts" and "History" for Z-Wave globally
Other Z-Wave Devices	Shows Z-Wave devices that are learned into the panel but that are not part of the main user interface (Lights, Locks, Thermostats & Garage Doors)

## FIND IT



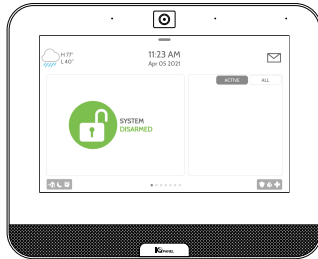
Swipe down  
for access



## SETTINGS

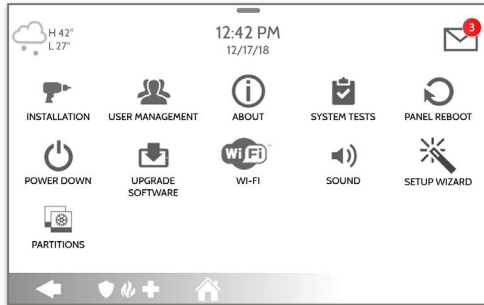
Setting	Description
EU Events	Display events as required for EN Grade 2. <b>NOTE:</b> This icon will only appear when the "En Grade 2" setting is Enabled.
Automation	<p>Add, Edit or manage local lighting automation rules. These rules are separate from any cloud based rules that may be set through Alarm.com. Examples of possible rules are as follows:</p> <ul style="list-style-type: none"> <li>- <b>Night:</b> Turns light on at 7pm and off at 6am</li> <li>- <b>Evening:</b> Turns light on at 7pm and off at 11pm</li> <li>- <b>Front Door:</b> Turns light on for 15mins when Front Door opens between 5pm and 7am (must have a sensor with the default quick name "Front Door" added in the panel)</li> <li>- <b>Doorbell:</b> Turns light on between 5pm and 7am for 15 mins when Doorbell is activated (must have a sensor with the default quick name "Doorbell" added in the panel)</li> </ul>
Activity Monitor	<p>Activity Monitor allows access to disarm sensors that are programmed as 24 hours zones, such as Sensor Groups 8, 9 &amp; 25. A valid Master, User or Guest code is required to control 24 hour activity sensors. 2 options are provided:</p> <ul style="list-style-type: none"> <li>- <b>Quick Access:</b> 300 second temporary access</li> <li>- <b>Deactivate:</b> Disarms 24 hour sensors until they are re-activated manually</li> </ul>
License	Qolsys End User License Agreement
Advanced Settings	Access advanced settings & programming. A valid Dealer (default 2222), Installer (default 1111) or Master Code (default 1234) is required
Smart Energy Optimizer	Shift energy usage to off-peak hours (thermostats) and reduce energy usage during on-peak hours

## ADVANCED SETTINGS

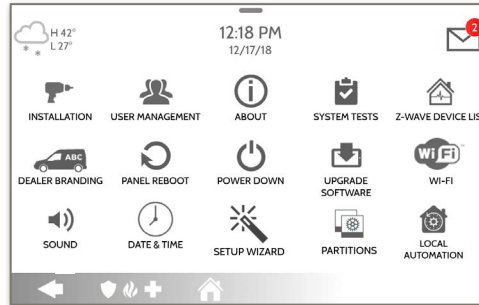


To access the Advanced Settings menu pull down the Settings tray at the top of the screen, select “Settings” and then “Advanced Settings”. Enter your dealer, installer or master code. The code used to enter Advanced Settings determines the level of access. When using partitions the code entered at the screen lock determines the access level for Advanced Settings.

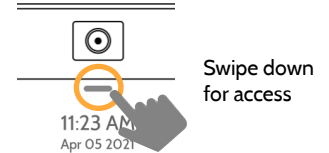
### INSTALLER MENU (1111)



### DEALER MENU (2222)



## FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)

\* The “Partitions” icon will only appear if Partitions are enabled under Installer/Dealer Settings

## SETUP WIZARD



### Setup Wizard

The “Easy Install Wizard” is an onscreen, step-by-step programming tool that makes the already fast and intuitive installation process even easier, ensuring every install is consistent and follows best practices.



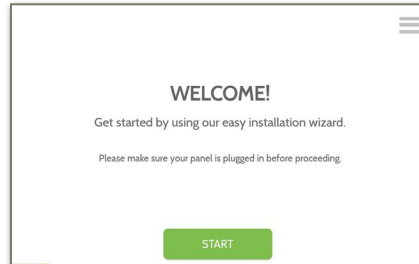
### Launch Wizard

Selecting Launch Wizard will initiate the Easy Setup Wizard based on the page configuration chosen.

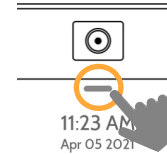


### Wizard Settings

Choose which pages you want to be shown during the Wizard walkthrough. Select Advanced or Simple sensor setup.



## FIND IT



Swipe down  
for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



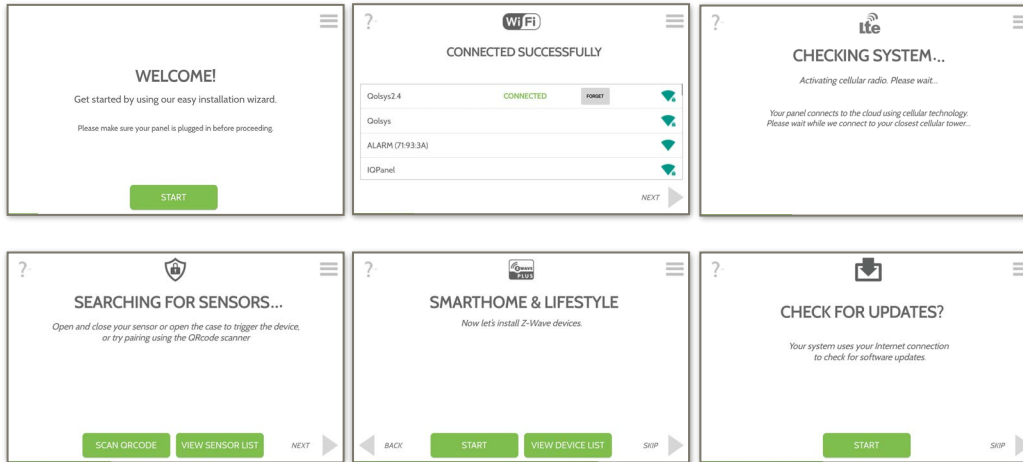
SETUP WIZARD

## LAUNCH WIZARD

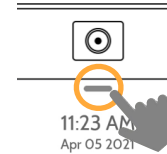


### Launch Wizard

Selecting Launch Wizard will initiate the Easy Setup Wizard based on the page configuration chosen in Wizard Settings.



## FIND IT



Swipe down  
for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



SETUP WIZARD



LAUNCH WIZARD

## WIZARD SETTINGS

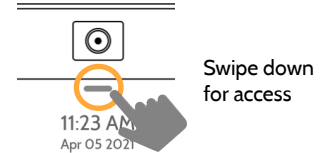


### Wizard Settings

Choose which pages you want to be shown during the Wizard walkthrough.  
Select Advanced or Simple sensor setup

Setting	Default	Description
Update	Enabled	Show the option to check for software updates in the Setup Wizard
Security	Enabled	Show the option to add and edit security sensors in the Setup Wizard
Security Sensor Setup Format	Advanced	Determines whether the Security page of the Setup Wizard shows Advanced Sensor pairing (PRO) or Simple Sensor pairing (DIY)
Panel Glass Break	Enabled	Show the option to enable or disable the panel glass break in the Setup Wizard
Z-Wave	Enabled	Show the option to include and edit Z-Wave devices in the Setup Wizard
Bluetooth	Enabled	Show the option to pair Bluetooth devices in the Setup Wizard

## FIND IT

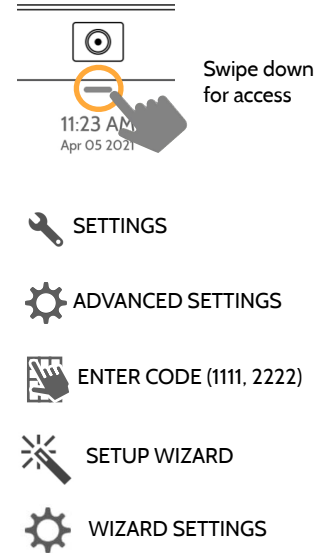


- SETTINGS
- ADVANCED SETTINGS
- ENTER CODE (1111, 2222)
- SETUP WIZARD
- WIZARD SETTINGS

## WIZARD SETTINGS

Setting	Default	Description
Users	Enabled	Show the option to add users in the Setup Wizard
Dealer	Enabled	Show the option to add and edit Dealer Contact Info in the Setup Wizard
IQ Remote	Enabled	Show the option to pair IQ Remotes in the Setup Wizard
Sensor Signal Test	Enabled	Activate the sensor test as part of the Setup Wizard
Download Mobile App	Enabled	Show the option to scan a QR code and download the Alarm.com app

## FIND IT

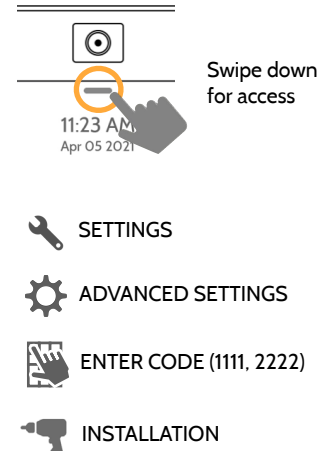


## INSTALLATION

If Dealer Contact info is not previously filled out or pushed from Alarm.com, a pop up is generated when accessing the “Installation” icon, requiring that dealer contact information to be entered. This information is used to populate the “Contact Us” tab in the Message Center. **NOTE:** Company Name and Company Phone Number are required and must be filled out to continue with panel programming.

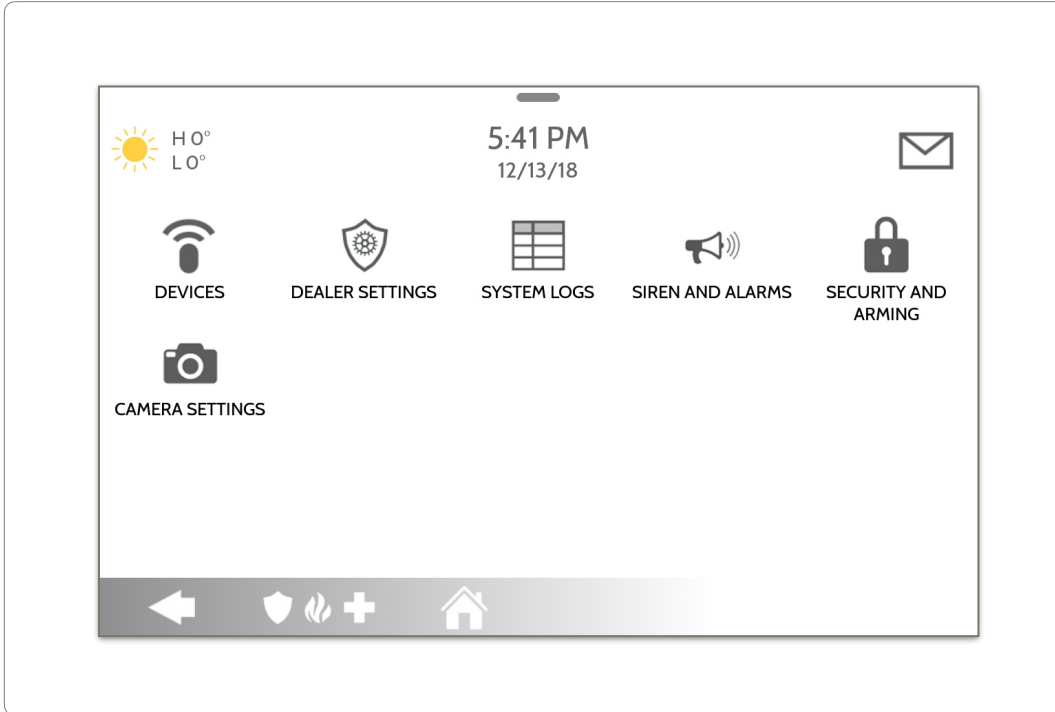
The screenshot shows a mobile app interface with a pop-up dialog box. The background is dimmed, showing a weather widget (H 0°, L 0°), a clock (5:50 PM, 06/02/17), and a notification icon (3). The main menu includes 'INSTALLATION' (with a drill icon), 'POWER DOWN' (with a power button icon), and 'PANEL REBOOT' (with a refresh icon). The pop-up dialog has a warning icon and the text: 'Dealer contact information has not been populated for this panel. Please enter to proceed.' Below this are four input fields: 'Company Name', 'Company Phone Number', 'Company Website', and 'Installation location ZIP Code'. At the bottom of the dialog are 'CANCEL' and 'OK' buttons.

## FIND IT

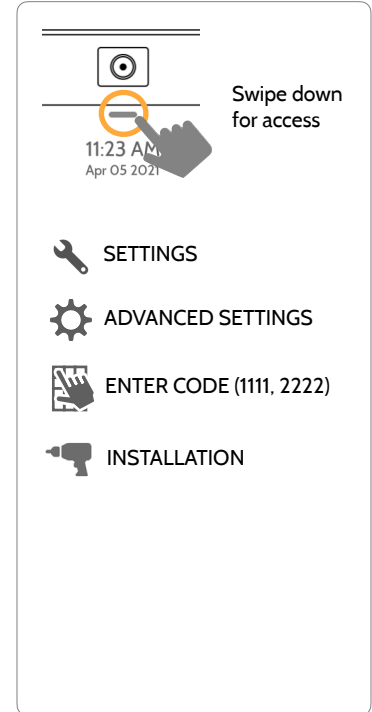




## INSTALLATION



## FIND IT



## INSTALLER/DEALER SETTINGS

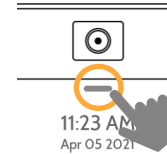


### Installer/Dealer Settings

Change panel settings like supervisory times, power and cell loss timeout and SIA settings.

Setting	Default	Description
Account Number	blank	Security provider account number (up to 10 characters)
Power Management	Enabled	An energy-saving function when running on battery power only
SIA Power Restoration	Disabled	Turn on or off sensor hold for 60 seconds during power restore
ULC Commercial Power Restoration	Disabled	When enabled, ignore all sensor activity for 120 seconds after power restoration
Loss of Supervisory Signals for Emergency Sensors	4	Select the length in hours (4, 12, 24) before reporting a loss of supervision on life safety devices. <b>NOTE:</b> For UL/cUL Resi Fire and UL Commercial Burg (UL2610) the wireless supervision window for Emergency sensors (Smoke, Heat & CO Detectors) shall be set to 4h
Loss of Supervisory Signals for PowerG Emergency Sensors	4	Select the length of time (20, 30 min, 1, 2, 4, 12, 18 hours) before reporting a loss of supervision on PowerG life safety devices. <b>NOTE:</b> For UL/cUL Resi Fire and UL Commercial Burg (UL2610) the wireless supervision window for Emergency sensors (Smoke, Heat & CO Detectors) shall be set to 2h

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SETTINGS



ADVANCED SETTINGS



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INSTALLATION



INSTALLER/DEALER SETTINGS

\* Additional options available only through the Dealer Code.

## INSTALLER/DEALER SETTINGS

Setting	Default	Description
Loss of Supervisory Signals for Z-Wave	4	Select the length in hours (4, 24) before reporting a loss of supervision on Z-Wave Sirens.
Loss of Supervisory Signals for Non Emergency Sensors	24	Select the length in hours (4, 12, 24) before reporting a loss of supervision on security devices. <b>NOTE:</b> For UL/cUL Resi Fire and UL Commercial Burg (UL2610) the wireless supervision window for Non-Emergency sensors (all intrusion sensors) shall be set to 4h
Loss of Supervisory Signals for PowerG Non Emergency Sensors	24	Select the length of time (20, 30 min, 1, 2, 4, 12, 18 hours) before reporting a loss of supervision on PowerG security devices. <b>NOTE:</b> For UL/cUL Resi Fire and UL Commercial Burg (UL2610) the wireless supervision window for Non-Emergency sensors (all intrusion sensors) shall be set to 2h
Loss of Cell Signal Timeout	30	Select the length in minutes (10-120) before reporting a loss in cellular signal. <b>NOTE:</b> For UL Commercial Burg (UL2610) the cell supervision is hardcoded to 200s
Communication Test	Monthly	Choose Never, Daily, Weekly or Monthly when enabling the communication test. <b>NOTE:</b> For UL Resi Fire (UL985) the test frequency shall be set to Weekly. By default the system will be set to Weekly if UL985 is selected on Alarm.com
Communication Test Start Time	Randomized	Select the time of day that the panel will send its Communication Test. If no time is selected the time will automatically be randomized.

## INSTALLER/DEALER SETTINGS

Setting	Default	Description
<p><b>SIA Limits</b></p> <p><b>NOTE:</b> For UL resi burg set entry delay to 45 sec and exit delay to max 120 sec. For UL Commercial Burg (UL2610) maximum entry and exit delay should not exceed 60 sec.</p> <p><b>NOTE:</b> For ULC Security Level I (resi burg) set entry delay to 180 sec. For ULC Security Level II (commercial burg) set entry delay to 60 sec and exit delay to 45 sec max.</p>	<p>Enabled</p>	<p>When <b>enabled</b>, the range for entry and exit delays is as follows:                      -Entry delay: 30-240 seconds, Exit Delay: 45-254 seconds                      When <b>disabled</b>, the range for entry and exit delays are as follows:                      -Entry delay: 5 to 240 seconds, Exit delay: 5 to 254 seconds</p> <p>When <b>enabled</b> the range for Dialer Delay is: 15 to 45 seconds                      When <b>disabled</b> the range for Dialer Delay is: 0 to 254 seconds</p>
<p>EN Grade 2</p>	<p>Disabled</p>	<p>The setting enables EN Grade 2 compliance on the Panel. When Enabled, the following behaviors and/or settings are changed automatically:</p> <ul style="list-style-type: none"> <li>- Entry Procedure (EU) - follows entry procedures and alarm transmission delays specified by EN 50131</li> <li>- Disables the "Auto Bypass" setting so that the Panel will protest arming when sensor and panel trouble conditions are present (i.e. Open, Tamper, Low Battery, etc)</li> <li>- Trouble condition alerts can not be acknowledged until the condition is resolved</li> <li>- Trouble beeps are expanded to include fault indications required by EN 50131</li> <li>- "Screen Lock" setting is enabled automatically. Screen will lock 30 seconds after Disarming</li> <li>- A new icon called "EU Events" is added to the "Settings" page which records mandatory history events specified by EN 50131.</li> <li>- "Loss of Supervisory Signals for PowerG Non-Emergency Sensors" is set to 2 hours by default.</li> <li>- "LED Indicator" setting is Disabled automatically.</li> <li>- "Partitions" setting is not available.</li> <li>- "Dealer or Installer Access Requires User Permission" setting is Enabled automatically.</li> </ul>

## INSTALLER/DEALER SETTINGS

Setting	Default	Description
EU Event Swinger Shutdown Count	3	Determines the number of times a particular event will record to "EU Events" log before shutdown. The count (3-10) will reset after and arm or disarm event. <b>NOTE:</b> This setting is greyed out and not selectable unless EN Grade 2 is Enabled.
Favorite Languages	English/Español	Set the Panel's language toggle to your favorite 2 languages. Choose from English (United States), Français (Canada), Español (Estados Unidos), Italiano (Italia), Nederlands (Nederland), Norsk bokmål (Norge), Svenska (Sverige), Íslenska (Ísland), Deutsch (Deutschland), Magyar, (Magyarország), Dansk (Danmark), Română (România), Portuguesa (Portugal), Polskie (Polska), Suomalainen (Suomi), Français (France), Español (España).
Standby Button	Enabled	Turning this setting off completely disables the "Power Button" on the right side of the panel and all of it's functions. To re-enable this setting you must first check the box then follow the on screen prompts to press the "Toggle" switch in the back of the panel
LED Indicator	Enabled	Manually Enable/Disable the LED Status Light on the panel. <b>NOTE:</b> This setting will automatically be set to Disabled when EN Grade 2 is Enabled.
6 Digit User Code	Disabled	This is a global setting for all codes used on the panel and changes the input from 4 digits to 6 digits. When enabled, a "00" will be appended to all existing 4 digit codes
Commercial Sensor and Device Names	Disabled	Enabling this features changes the sensor name vocabulary from residential naming to commercial naming.

## INSTALLER/DEALER SETTINGS

Setting	Default	Description
Wellness Support	Disabled	When Enabled, Auxiliary Pendants learned into Group 6 behave like a traditional PERS pendant. The system generates a signal to Alarm.com but does not generate a loud local alarm that needs to be disarmed between button presses. <b>NOTE:</b> This feature can not be enabled if Partitions are enabled.
WI-Fi Warning Messages	Enabled	When enabled the panel will display a pop up when entering “Settings” letting the end user know that Wi-Fi has been disconnected.
Partitions	Disabled	Create up to 4 partitions by enabling this feature. <b>NOTE:</b> This setting will automatically be greyed out and unavailable when EN Grade 2 is Enabled.
Other Automation	Disabled	When Enabled, the Panel can support Zigbee Automation devices as well as Deako Lighting integrations. These devices are added through the “Other Automation” icon that will appear under the “Devices” icon. <b>NOTE:</b> Zigbee integration requires that a Zigbee daughter card be installed in the panel.
PowerG Camera Alarm Image Upload Count	10	Determines the number of Images to be uploaded by any PowerG PIR CAM when triggered during an Alarm. Choose between 10 and 1.
Security Page	Enabled	Choose whether or not you want the “Security Page” to appear as part of primary user interface on the panel. <b>NOTE:</b> Before the Security Page can be disabled, you must enable the “Wellness Page” or the “Home Control Page”. This feature can not be disabled if Partitions are enabled.
Wellness Page	Disabled	Choose whether or not you want the “Wellness Page” to appear as part of primary user interface on the panel. <b>NOTE:</b> This feature can not be enabled if Partitions are enabled.

## INSTALLER/DEALER SETTINGS

Setting	Default	Description
Check-in/Check-Out	Disabled	Choose whether or not you want a “Check-in” and “Check-out” button to appear as part of the Wellness Page UI. This feature allows a nurse to check in/out and have their picture taken by the panel as record of their visit. <b>NOTE:</b> The Wellness Page must be enabled in order for this feature to also be enabled.
Home Control Page	Disabled	Choose whether or not you want the “Home Control Page” to appear as part of primary user interface on the panel. <b>NOTE:</b> Before the Home Control Page can be enabled there must be at least two (2) different “types” of automation devices added to the panel (Lights, Locks or Thermostats). This feature can not be enabled if Partitions are enabled.
Door Lock Page	Enabled	Choose whether or not you want the “Door Lock Page” to appear as part of primary user interface on the panel anytime a Door Lock is added as a device.
Thermostat Page	Enabled	Choose whether or not you want the “Thermostat Page” to appear as part of primary user interface on the panel anytime a Thermostat is added as a device.
Scenes Support	Disabled	When enabled, a new icon will appear in the panel UI on left hand footer enabling the use of Scenes that have been created on Alarm.com. <b>NOTE:</b> This feature can not be enabled if Partitions are enabled.
Stream Live Video Cameras to IQ Remote	Disabled	This setting allows a user to view cameras from the IQ Remote. When enabled, Cameras that are streaming to the primary panel will also stream to the IQ Remote.

## INSTALLER/DEALER SETTINGS

Setting	Default	Description
PowerG RF Jam Detection	Disabled	When enabled the system can detect when an unusual amount of RF signals are being transmitted in the PowerG spectrum leading to a potential loss of connectivity. This event reports to the central station when enabled. Choose from Disabled, UL20/20 or En 30/60.
Jam Detection	Disabled	When enabled the system can detect when an unusual amount of RF signals are being transmitted on the frequency of the legacy daughter card installed in the panel (319.5MHz, 345MHz or 433MHz) leading to a potential loss of connectivity. This event reports to the central station when enabled.
Jam Detection Local Alarm <b>NOTE:</b> Not evaluated by UL/cUL	Disabled	When enabled the system will sound a local alarm. "Jam Detection" must be active for this to function properly
SRF Jam Sensitivity Level	Normal	Choose between HIGH and NORMAL sensitivity levels
Allow Master Code to Access Security Sensors	Disabled	Allow the Master Code to access to the Security Sensor icon, including Auto Learn Sensor, Add Sensor, Edit Sensor, Delete Sensor, Sensor Status & Sensor Group
Open/Close Reports Allowed For Auto Learn	Enabled	Rather than sending a tamper to auto learn a sensor, enabling this will allow an open/close of the sensor to trigger auto learn
Panel Glass Break Detector	Disabled	Creates an independent zone that leverages the panel's built-in microphones to act as a glass break detector. This will fall into the zone order at the time you enable this feature. <b>NOTE:</b> This feature can not be Enabled if Panel Ambient Noise Detection is Enabled.



## INSTALLER/DEALER SETTINGS

Setting	Default	Description
Panel Motion Detector	Disabled	Creates an independent zone that leverages the panel's built-in camera to act as an activity motion detector. This will fall into the zone order at the time you enable this feature. Motion can trip once every 4 minutes. <b>NOTE:</b> The panel motion detector is for activity monitoring and automation only (Group 25) and will not create an alarm condition or act as a security PIR.
Panel Ambient Noise Detector	Disabled	When Enabled, the Panel's built-in microphones can monitor for loud noise detection above a settable dB threshold and generate an alert. Useful for MDU, apartments and short term rentals where noise complaints are a concern. After an alert is generated, a 30 second cool down period is instituted. <b>NOTE:</b> This feature can not be Enabled if Panel Glass Break Detector is Enabled.
Ambient Noise Threshold	85 dB	Set the threshold at which the Panel Ambient Noise Detector determines there is enough noise to generate an alert. Choose from values between 75 and 95 dB. <b>NOTE:</b> This setting is greyed out and not selectable unless Panel Ambient Noise Detector is Enabled.
Noise Detector Duration	20 min	Determines the length of time for which the panel must detect noise above the threshold level in order to generate a noise notification.
Noise Detector Popup	Disabled	Determines whether the panel indicates locally on the screen that noise event has been detected.
Zigbee Network Type	Home Automation and Security	Choose which type of Zigbee network you'd like to use. Options are Home Automation and Security or Smart Energy. <b>NOTE:</b> This setting only appears when a Zigbee daughter card is installed in the Panel.

## INSTALLER/DEALER SETTINGS

Setting	Default	Description
Zigbee Network Type	Home Automation and Security	Choose which type of Zigbee network you'd like to use. Options are Home Automation and Security or Smart Energy. <b>NOTE:</b> This setting only appears when a Zigbee daughter card is installed in the Panel.
Delete All Sensors		Deletes all security sensors and Bluetooth devices programmed in the panel
Delete All Z-Wave Devices		Performs a factory reset on the Z-Wave controller. Does not factory reset previously included devices.
Zigbee Reset		Deletes all Zigbee sensors and resets the Zigbee Network
Master Reset*		Restores panel to factory settings and erases all content
Data Recycle		This feature erases all User data previously stored. (Wi-Fi SSID & Password, User Codes, Panel Camera Images, Custom Photo Frame Images, Message Center & Panel Event History).
IQ Remote Reset Authentication	Disabled	If Enabled, the IQ Remote will require authentication (Dealer or Installer Code) to master reset it.

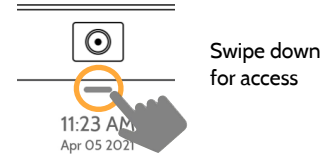
## SYSTEM LOGS



System logs allow the panel to send non-customer identifying information to the server for troubleshooting and bug identification.

Setting	Default	Description
Upload logs to the server	<i>Requires manual push</i>	Tell the panel to begin uploading a history of its activity to the server. This information is used to troubleshoot bugs and diagnose panel problems. The panel will upload any logs saved in its memory
Auto Upload Logs	Disabled	Automatically upload the system's log to the servers every 24 hours
Log Level	Debug	<p>Tell the panel how much information to record in log files.</p> <p><b>No log output:</b> No information recorded  <b>Fatal:</b> Record fatal or severely problematic information only  <b>Error:</b> Record all errors and fatal issues  <b>Warn:</b> Record warnings, errors, and fatal issues  <b>Info:</b> Record all generic, non-customer related information  <b>Debug:</b> Record diagnostic messages, Info, Warnings, Errors, and Fatal issues  <b>Verbose:</b> Record all non-customer identifying information</p>

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- INSTALLATION
- SYSTEM LOGS

## SIREN AND ALARMS

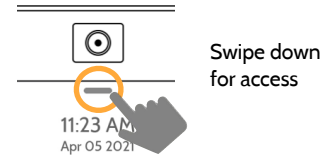


### Siren and Alarms

Change siren and alarm settings for certain types of alarm events.

Setting	Default	Description
Panel Sirens	All Sirens On	<p><b>All Sirens Off:</b> This will disable the siren for all alarm types, except for life safety devices, including any hardwire or wireless external sirens.</p> <p><b>All Sirens On:</b> This is the default setting which enables the siren for all alarms</p> <p><b>Installer/Test Mode:</b> This disables the siren for all alarm types including any paired or hardwired external sirens for 30 mins then all sirens are re-enabled</p>
Siren Annunciation	Disabled	<p>Panel siren pauses periodically to announce which locations have triggered the alarm.</p> <p><b>NOTE:</b> for UL/cUL this feature is not allowed for Fire, CO, Burglar Alarm</p>
Fire Verification	Disabled	<p>When enabled, panel requires two fire events from smoke detector (one detector twice or two detectors once each)</p> <p><b>NOTE:</b> Not allowed on UL/cUL installations</p>

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ADVANCED SETTINGS



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INSTALLATION



SIREN AND ALARMS

## SIREN AND ALARMS

Setting	Default	Description
Burglary Alarm Confirmation	Disabled	When enabled, a confirmed alarm requires two sequential burglary alarms within the Burglary Alarm Confirmation Timer window. <b>NOTE:</b> This setting is greyed out and unavailable unless EN Grade 2 is enabled.
Burglary Alarm Confirmation Timer	30	Timer used for Burglary Alarm Confirmation. <b>NOTE:</b> This setting is greyed out and unavailable unless EN Grade 2 is enabled.
Severe Weather Siren Warning	Enabled	When enabled, siren will sound when the panel receives a severe weather alert. When disabled, panel will use severe weather chime
Dialer Delay	:30	Amount of time (in seconds) before panel will attempt call to central station after an alarm event is triggered When SIA Limits enabled: :15 to :45 seconds When SIA Limits disabled: :0 to :254 seconds
Siren Timeout	4 min	Determine how long before siren stops sounding during an alarm event (4 minutes to 15 minutes). <b>NOTE:</b> For UL/cUL residential fire/burg applications the minimum bell timeout shall be set to 5 min. For UL Commercial Burglary installations, minimum bell time out shall be set to 15 minutes.
Water/Freeze Siren/Temperature	Disabled	When enabled, siren will sound when a water or freeze detector is triggered. When disabled, the panel emits a "water" tone

## SIREN AND ALARMS

Setting	Default	Description
PowerG Smoke Detector Siren	Fire Alarms Only	When set to "Fire Alarms Only", PowerG Smoke Detectors that are learned into the system will only sound during fire alarm events. When set to "All Alarms", PowerG Smoke Detectors will act as additional wireless sirens and will sound during all alarm events.
Police Panic	Enabled	Allows Police Panic to be enabled or disabled.
Fire Panic	Enabled	Allows Fire Panic to be enabled or disabled.
Auxiliary Panic	Enabled	Allows Auxiliary Panic to be enabled or disabled.
Audible Siren for Wireless Supervisory Failures	Disabled	When this setting is enabled and the system is armed, supervisory failures for non-emergency sensors are treated the same as a tamper and cause an alarm to be generated.
Allow Master Code To Access Siren and Alarms	Disabled	Allow the master code to access these features and settings. <b>NOTE:</b> not allowed for UL/cUL.

## SECURITY AND ARMING

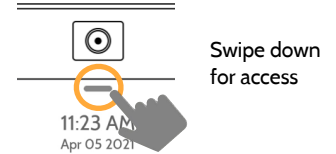


### Security and Arming

Change arming settings, entry and exit delays, enable Duress Authentication and more.

Setting	Default	Description
Dealer Code*	2222	Code to access all options
Installer Code	1111	Code to access installer options only
Swinger Shutdown	Enabled	Determines whether the panel allows the same sensor to trip the alarm more than once (enabled), or not (disabled)
Swinger Shutdown Count	1	Determines the number of times the same sensor is allowed to trip the alarm during the same arming period (1-6). Swinger Shutdown must be enabled in order for this setting to work
Panel Tamper	Enabled	This setting enables or disables the Panel Tamper switch on the back of the panel. <b>NOTE:</b> for UL/cUL this setting shall be Enabled
Screen Lock	Disabled	When enabled, a screen lock page will appear. Screen lock restricts access to the panel based on valid user codes. <b>NOTE:</b> This setting is required and is automatically enabled when Partitions are enabled. It is also enabled for "En Grade 2"

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SETTINGS



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INSTALLATION



SECURITY AND ARMING

\* Additional options available only through the Dealer Code.

## SECURITY AND ARMING

Setting	Default	Description
Secure Arming	Disabled	Require user code for arming the panel. <b>NOTE:</b> this option shall be enabled for UL/cUL.
Refuse Arming When Battery Low	Disabled	Will not allow panel to arm if battery is low (below 8%)
Auto Bypass	Enabled	Toggle whether or not to bypass open or tampered sensors automatically. <b>NOTE:</b> Shall be disabled for UL/cUL. This setting is turned off and greyed out when the "En Grade 2" setting is enabled.
Final Exit Door Arming	Disabled	When enabled, if Arm Away is selected at the panel then there is no timed exit delay. Instead, the system is not fully armed until an Entry/Exit door is violated. <b>NOTE:</b> This setting is greyed out and unavailable unless EN Grade 2 is enabled.
Auto Stay	Enabled	If panel is armed "Away" but a delay door is not opened, the panel assumes you are still home and changes arming to "Stay" mode
Arm Stay - No Delay	Enabled	Arm stay immediately with no countdown timer
Auto Exit Time Extension	Enabled	Automatically extend countdown timer if delay door is opened during countdown process a second time
Keyfob Instant Arming	Enabled	When enabled, turns off exit delay if keyfob is used to arm the system
Keyfob Alarm Disarm	Disabled	When enabled this will Allow a keyfob to disarm alarm events, except panics originating from the same key fob



## SECURITY AND ARMING

Setting	Default	Description
Keyfob Disarming	Enabled	When Disabled, a Keyfob will not be able to disarm the panel
Engineer's Reset	Disabled	If a confirmed alarm occurs on a burglary zone, the system is locked out after disarming until a 5 digit reset code provided by the installer is entered in.
Allow Master Code to Access Security and Arming	Disabled	Allow the master code to access these features and settings. <b>NOTE:</b> this option shall be disabled for UL/cUL. This option shall be enabled for UL Commercial Burg installations.
Normal Entry Delay	30 Secs	How much time users have to enter their code after opening a door (30-240secs). With SIA limits disabled the minimum time can be set to 5 secs. <b>NOTE:</b> For UL Commercial Burg (UL2610) maximum entry delay should not exceed 60s
Normal Exit Delay	60 Secs	How much time users have to exit the location before the panel arms itself (30-254secs). With SIA limits disabled the minimum time can be set to 5 secs. Door/Window group 10 follows the "Normal Exit Delay" <b>NOTE:</b> For UL Commercial Burg (UL2610) maximum exit delay should not exceed 60s
Long Entry Delay	100 Secs	A second separate entry delay that can be used on a sensor needing more time when tripped (45-240secs). With SIA limits disabled the minimum time can be set to 5 secs
Long Exit Delay	120 Secs	A second separate exit delay that can be used on a sensor needing more time when tripped (45-254secs). With SIA limits disabled the minimum time can be set to 5 secs. Door/Window group 12 follows the "Long Exit Delay"

## CAMERA SETTINGS

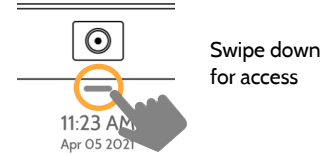


### Camera Settings

Enable/Disable Disarm photos and Alarm photos. Secure images requiring a code to either view or delete.

Setting	Default	Description
Secure Delete Images	Enabled	When enabled, a code is required to delete disarm and alarm photos
Panel Camera	Enabled	When disabled, all Panel Camera related functions are turned off, including: Disarm Photos, Alarm Photos, Alarm Videos and Settings Photos. Additionally the Panel Camera Page is also removed
Disarm Photos	Enabled	When enabled, the built-in camera will take a single photograph when a user disarms the panel. When disabled, the panel will not capture images upon disarm
Alarm Photos	Enabled	When enabled, the built-in camera will take a single photograph during an alarm event
Alarm Videos	Enabled	When an alarm is triggered the panel will record a video clip for 4 mins from it's built in 8mp panel camera

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SETTINGS



ADVANCED SETTINGS



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INSTALLATION



CAMERA SETTINGS

**Note: Supplementary feature not evaluated by UL/CUL**

## CAMERA SETTINGS

Setting	Default	Description
Settings Photos	Disabled	Whenever Advanced Settings are accessed the panel will take and store a photo
Allow Master Code to Access Image Settings	Disabled	Allow the master code to access these features and settings

## Z-WAVE DEVICE LIST\*

## FIND IT



### Z-Wave Device List

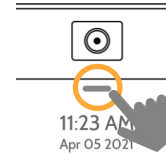
Shows device specific information for programmed Z-Wave devices.

ID	TYPE	GROUP	NAME	Info	ReInterview
2	Light	None	Downstairs Light	Info	ReInterview
3	Thermostat	None	Thermostat	Info	ReInterview

Pressing “Info” displays:

- Product Info
- Protocol Info
- Application Info
- Supported Command Classes

Pressing “Re-Interview” will resend all initial pairing commands to that device.



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SETTINGS



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Z-WAVE DEVICE LIST

\*This page only available through the Dealer Code.

## SOUND

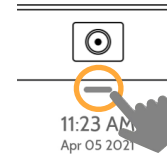


### Sound

Customize panel sounds. Enable/Disable voices, chimes, trouble beeps and more.

Setting	Default	Description
Volume	n/a	Controls the panel's voice volume, beeps and chime volume and the media volume (help videos) through individual sliders
Edit Chimes	n/a	Allows you to select from various chimes for each individual device
<b>Voice Settings</b>		
Voices	Enabled	This is a global setting for Sensors, Panel messages, Activity Monitoring Sensors, and Z-Wave device voices and indicates whether the panel should "speak"
Sensors	Enabled	Turns Sensor voices on (enabled) or off (disabled)
Panel	Enabled	Turns Panel voices on (enabled) or off (disabled)
Activity Monitoring	Enabled	Turns Activity Monitoring voices on (enabled) or off (disabled)

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SETTINGS



ADVANCED SETTINGS



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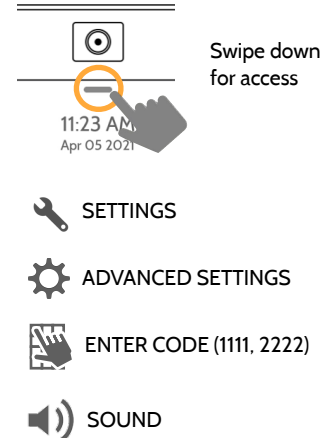


SOUND

## SOUND

## FIND IT

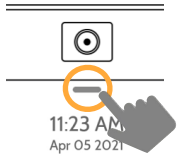
Setting	Default	Description
Z-Wave Device Voice Prompts	Enabled	Turns Z-Wave Device voices on (enabled) or off (disabled)
Z-Wave Remote Voice Prompts	Enabled	Turns voices on (enabled) or off (disabled) for Z-Wave devices being controlled remotely (via Alarm.com)
<b>Chime Settings</b>		
All Chimes	Enabled	This is a global setting for Sensors, Panel messages and Activity Monitoring Sensors chimes and indicates whether the panel should emit tones or “beeps”
Sensor Chimes	Enabled	Turns chimes on (enabled) or off (disabled) for Sensors
Panel	Enabled	Turns Panel chimes on (enabled) or off (disabled)
Activity Sensor	Enabled	Turns Activity Sensor chimes on (enabled) or off (disabled)



## SOUND





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Setting	Default	Description
<b>Trouble Beeps</b>		
Trouble Beeps	Disabled	Toggles all sensor and panel trouble beeps on or off. By default all trouble beeps are disabled
Sensor Low Battery	Disabled	Panel sounds when a sensor battery is low. Chime type and frequency are set below. By default these sounds are disabled
Sensor Tamper Beeps	Disabled	Panel sounds when a sensor is tampered. Chime type and frequency are set below. By default these sounds are disabled
Panel Tamper Beeps	Disabled	Panel sounds when tampered or opened. Chime type and frequency are set below. By default these sounds are disabled
Edit Trouble Beep Chimes	n/a	Select the chime type for Sensor Low Battery, Sensor Tamper, and Panel Tamper
Trouble Beeps Timeout	30	Determines the amount of time between each trouble beep. Length can be set between 3-60 mins. (default is 30 mins)
Fire and Life Safety Device Trouble Beeps	Disabled	Panel will sound a trouble alert if a fire safety device is tampered, failed or has a low battery (disabled by default)



Swipe down for access

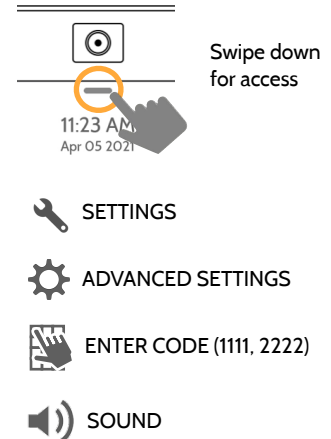
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-  SETTINGS
-  ADVANCED SETTINGS
-  ENTER CODE (1111, 2222)
-  SOUND

## SOUND

## FIND IT

Setting	Default	Description
<b>Partition Sounds*</b>		
Global Fire Siren	Enabled	When Partitions are enabled this setting determines whether Fire alarms sound in all partitions (enabled) or in only the partition they are assigned to (disabled)
Global Intrusion Sounds and Sirens	Disabled	Intrusion alarms and entry/exit sounds will sound in all partitions
Global Auxiliary Sirens	Disabled	Auxiliary alarm will sound in all partitions
Global Chimes and Voices	Disabled	Chimes and voices will play in all partitions
All Sounds in Partition 1	Disabled	Sounds and alarms from all other partitions will sound in partition 1
<b>Other Sounds</b>		
Touch Sounds	Enabled	This setting determines whether a touch sound is played when touching the screen (enabled) or not (disabled)
Exit Beeps	Enabled	Play exit beeps for the Quick Exit and Quick Access feature on the panel (enabled) or not (disabled)



\* Additional settings available only when Partitions are enabled.

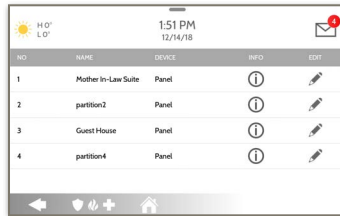


## PARTITIONS\*



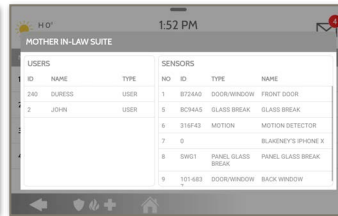
### Partitions

Edit the default name of a partition and view a list of users and sensors that are currently assigned to a given partition. Partitions 1, 2, 3 & 4 only appear when Partitions are enabled and when at least one sensor is learned into them.



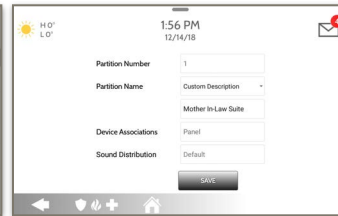
### Overview:

View the number of partitions set up on a system. There must be at least one sensor assigned to a partition before it can be viewed/edited



### Info:

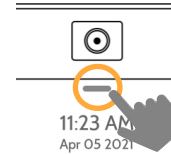
View Users and Sensors associated with each partition



### Edit:

Rename a partition that suits its location or area being protected

## FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



PARTITIONS

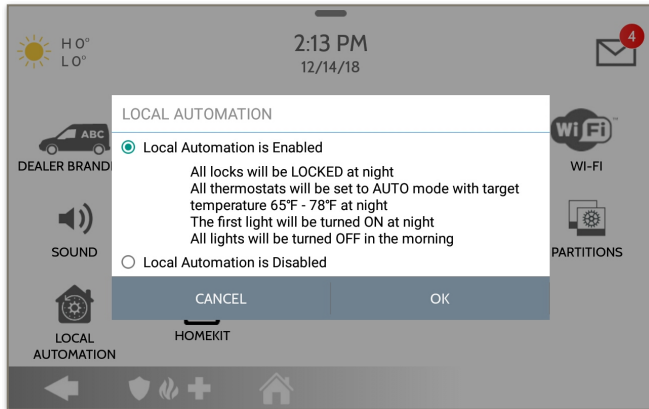
\* The "Partitions" icon will only appear if Partitions are enabled under Installer/Dealer Settings

## LOCAL AUTOMATION\*



### Local Automation

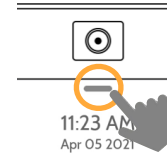
This hardcoded scene is designed for Panels installed in new construction properties that do not yet have an Alarm.com account activated, but that need to manage Z-Wave devices locally in a “vacant home mode”.



### Runs Daily:

- Automatically LOCK all locks at night (8pm)
- Set all thermostats to AUTO mode with a target temperature of 65°F - 78°F
- Turn Light 1 ON at night (8pm) and then turn all lights OFF in the morning (6am)

## FIND IT

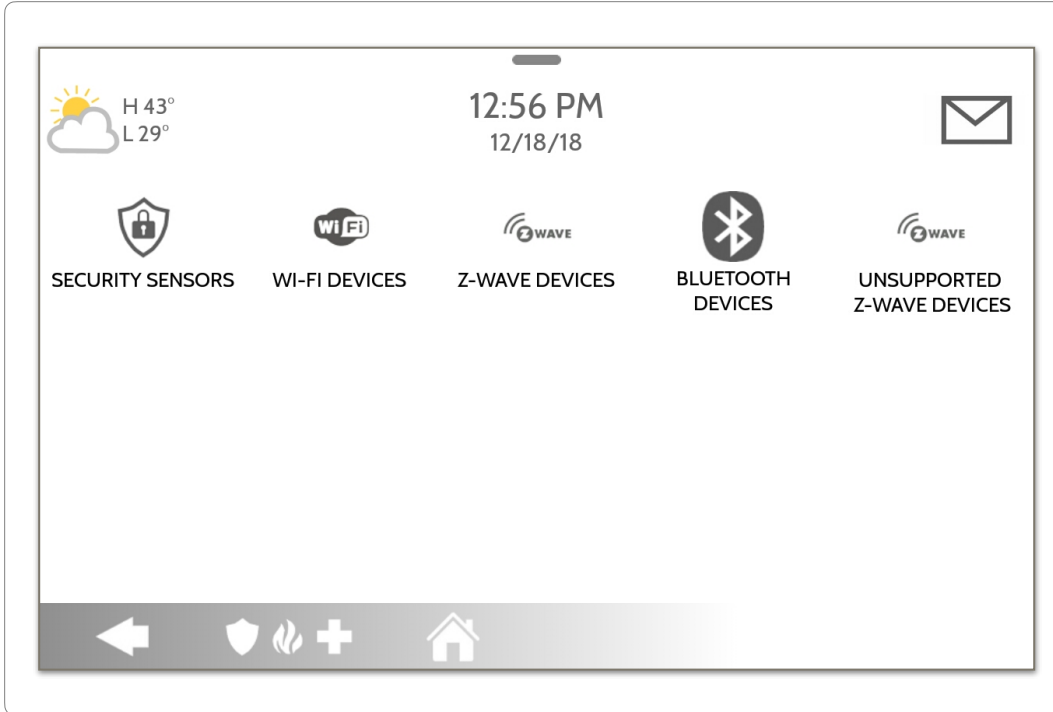


Swipe down for access

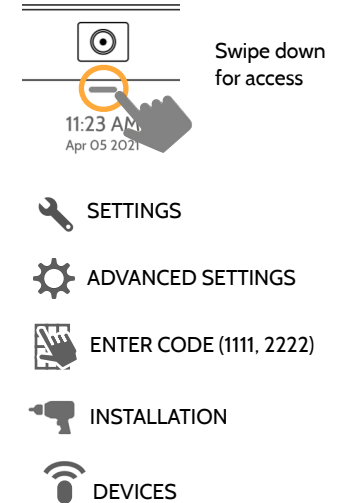
- SETTINGS
- ADVANCED SETTINGS
- ENTER CODE (1111, 2222)
- LOCAL AUTOMATION

\*This page only available through the Dealer Code.

## DEVICES



## FIND IT



\*Unsupported Z-Wave Devices icon only available through the Dealer Code.

# SECURITY SENSORS

## SECURITY SENSORS



### Security Sensors

Add, edit or delete up to 128 security RF or life safety devices.



### Auto Learn Sensor

Pair sensors quickly by tripping or tampering and then editing the information



### Add Sensor

Pair sensors manually by typing in a DL code or Serial number



### Edit Sensor

Make changes to existing sensors



### Delete Sensor

Remove a sensor



### Sensor Status

Monitor sensor status in realtime



### Sensor Group

Quick reference to all sensor groups and their actions



### Panel Motion Settings

Adjust Panel Motion sensitivity and masking areas



### Remove All PowerG Sensors

Delete all PowerG sensors from the Panel



### Remove All Zigbee Sensors

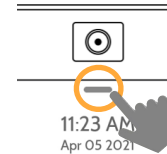
Delete all Zigbee sensors from the Panel



### PowerG Output Rules

Configure PGMs when using the PGxWLSHW8

## FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



INSTALLATION

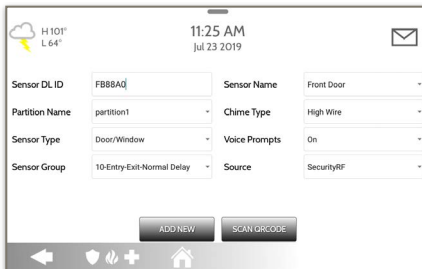
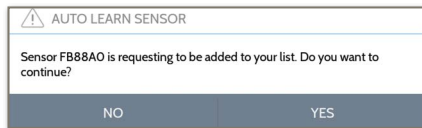


DEVICES



SECURITY SENSORS

## AUTO LEARN SENSOR



1. Select “Auto Learn Sensor”

2. Open/Close or Tamper a sensor to enroll. For PowerG contacts, hold the “enroll” button until the yellow LED flashes.

3. Panel will chime and display the sensor’s DL code. Select OK to confirm.

4. Configure **Partition Name**, **Sensor Type**, **Sensor Group**, **Sensor Name**, **Chime Type** and **Voice Prompts** with the smart filtering drop down lists.

5. Select “Add New” to complete and move to the next sensor.

### NOTE:

When enrolling an “S-Line” sensor, the panel will auto detect that it’s encrypted and change the “Source” field to S-Line.

IQ Panel 4 only: When enrolling a sensor of a different frequency (345MHz, 433MHz, PowerG) the Source field will change to accommodate the incoming signal type.

When a sensor with the frequency 345 is used, you will be given an additional field to specify the Loop #.

## ADD SENSOR



Sensor DL ID	<input type="text" value="Enter Sensor DL ID"/>
Partition Name	<input type="text" value="partition1"/>
Sensor Type	<input type="text" value="Door/Window"/>
Sensor Group	<input type="text" value="10-Entry-Exit-Normal Delay"/>
Sensor Name	<input type="text" value="Front Door"/>
Chime Type	<input type="text" value="High Wire"/>
Voice Prompts	<input type="text" value="On"/>
Source	<input type="text" value="SecurityRF-319"/>

ADD NEW

SCAN QR CODE

1. Select “**Add Sensor**” (NOTE: These same fields can be edited later from the “Edit Sensor” app)
2. Select the appropriate **Source** based on the frequency of device being manually learned in
3. Tap the field marked “**Sensor DL ID**” to open the keyboard. Enter the DL code or Sensor ID on the back of the device and touch “Done”
4. Use the drop down menu to select which **Partition** you would like the sensor to be added to (if enabled)
5. Choose **Sensor Type** from list
6. Indicate **Sensor Group** from list
7. Choose **Sensor Name** from the list or create a “Custom Name” using the built in keyboard with Custom Text to Speech.
8. Choose **Chime Type** from list
9. Indicate whether you want **Voice Prompts** on or off
10. Click “**Add New**” to save the information and complete the process.

## SCAN QR CODE

\*This feature is only used with Qolsys S-Line 319 Sensors that have compatible QR code labels on the box



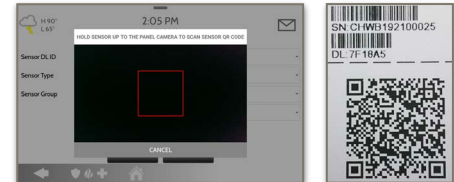
Sensor DL ID	<input type="text" value="Enter Sensor DL ID"/>
Partition Name	<input type="text" value="partition1"/>
Sensor Type	<input type="text" value="Door/Window"/>
Sensor Group	<input type="text" value="10-Entry-Exit-Normal Delay"/>
Sensor Name	<input type="text" value="Front Door"/>
Chime Type	<input type="text" value="High Wire"/>
Voice Prompts	<input type="text" value="On"/>
Source	<input type="text" value="SecurityRF-319"/>

ADD NEW

SCAN QR CODE

1. Select “**Add Sensor**”

2. Tap the button marked “**Scan QR Code**” to open the camera. Hold the QR code label on the sensor box up to the camera to automatically scan the Sensor DL ID



3. Use the drop down menu to select which **Partition** you would like the sensor to be added to (if enabled)

4. Choose **Sensor Type** from list

5. Indicate **Sensor Group** from list

6. Choose **Sensor Name** from the list or create a “Custom Name” using the built in keyboard with Custom Text to Speech.

7. Choose **Chime Type** from list

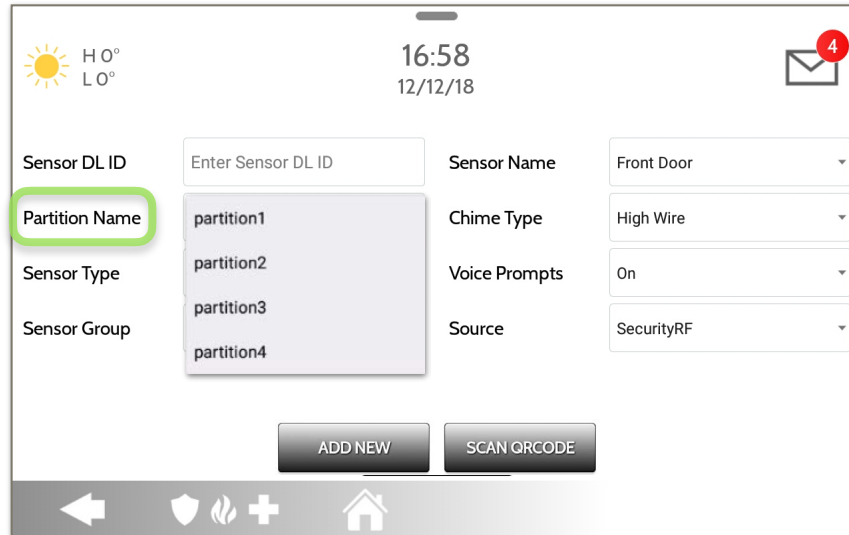
8. Indicate whether you want **Voice Prompts** on or off

9. Click “**Add New**” to save the information and complete the process.



## PARTITION NAME

When Partitions are enabled (see Dealer/Installer Settings) you may then assign a sensor to a specific partition. This will allow independent control and arming of that partition without disrupting the main panel's master partition. You may create and use up to 4 partitions.



Screenshot of the Johnson Controls security sensor configuration interface. The interface shows a form for configuring a sensor. The 'Partition Name' field is highlighted with a green circle, and a dropdown menu is open showing four options: 'partition1', 'partition2', 'partition3', and 'partition4'. Other fields include 'Sensor DL ID', 'Sensor Name', 'Sensor Type', 'Sensor Group', 'Chime Type', 'Voice Prompts', and 'Source'. The interface also displays weather information, time, date, and a notification icon with the number 4.

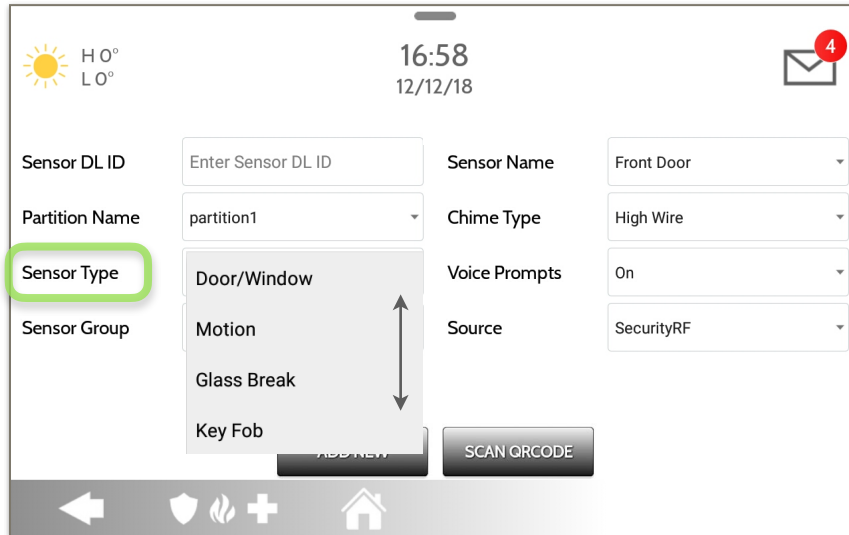
Sensor DL ID	<input type="text" value="Enter Sensor DL ID"/>	Sensor Name	<input type="text" value="Front Door"/>
<b>Partition Name</b>	<ul style="list-style-type: none"><li>partition1</li><li>partition2</li><li>partition3</li><li>partition4</li></ul>	Chime Type	<input type="text" value="High Wire"/>
Sensor Type		Voice Prompts	<input type="text" value="On"/>
Sensor Group		Source	<input type="text" value="SecurityRF"/>

ADD NEW    SCAN QR CODE

## SENSOR TYPE

When adding or editing security devices you can choose from the following sensor types:

- Door/Window
- Motion
- Glass Break
- Key Fob
- Keypad
- Auxiliary Pendant
- Smoke Detector
- CO Detector
- Hardwire Translator
- Wireless Translator
- Temperature
- Heat
- Water
- Shock Sensor
- Freeze
- Tilt
- Door Bell
- Smoke-M
- Door/Window-M
- Occupancy Sensor
- Siren
- High Temperature



The screenshot displays a mobile application interface for configuring a security sensor. At the top, there is a weather icon, temperature (H 0°, L 0°), time (16:58), and date (12/12/18). A notification icon with the number 4 is in the top right. The main form contains the following fields:

- Sensor DL ID:** Enter Sensor DL ID
- Partition Name:** partition1
- Sensor Type:** (highlighted with a green box) A dropdown menu is open showing options: Door/Window, Motion, Glass Break, and Key Fob.
- Sensor Group:** Motion
- Sensor Name:** Front Door
- Chime Type:** High Wire
- Voice Prompts:** On
- Source:** SecurityRF

At the bottom, there are buttons for 'ADD NEW' and 'SCAN QR CODE', and a navigation bar with icons for back, shield, fire, plus, and home.

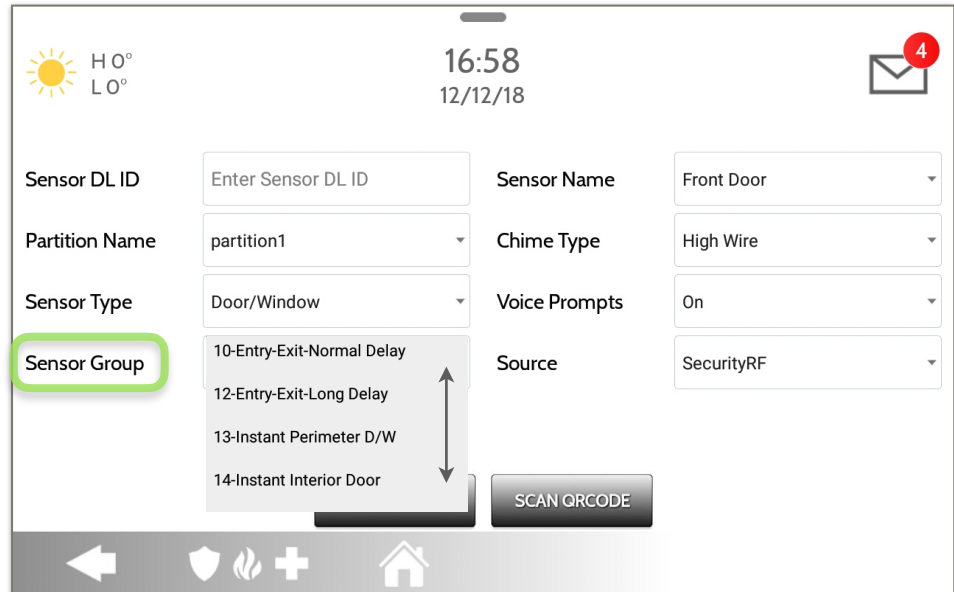
Note: for UL/cUL, only UL/cUL listed devices shall be used: Door/Window contact: 60-362N-10-319.5, Motion Detector: 60-639-95R, Smoke Detector: IQ Smoke QS5110-840. For UL2610 installations use only UL listed PowerG devices.

## SENSOR GROUP

Sensor groups will change the behavior of the sensor. These are tied directly to your Sensor Type, displaying only what's relevant.

Touch the "Sensor Group" drop down to change.

A full list of Sensor Groups and descriptions can be found under "Sensor Groups" listed in the manual below.



The screenshot displays the configuration interface for a sensor. At the top, there is a weather icon, temperature (H 0°, LO°), the time (16:58), and the date (12/12/18). A notification icon with the number 4 is in the top right. The configuration fields are as follows:

- Sensor DL ID:** Enter Sensor DL ID
- Partition Name:** partition1
- Sensor Type:** Door/Window
- Sensor Group:** 10-Entry-Exit-Normal Delay, 12-Entry-Exit-Long Delay, 13-Instant Perimeter D/W, 14-Instant Interior Door
- Sensor Name:** Front Door
- Chime Type:** High Wire
- Voice Prompts:** On
- Source:** SecurityRF

A "SCAN QR CODE" button is located at the bottom right of the configuration area. The bottom navigation bar contains icons for back, shield, fire, plus, and home.

## SENSOR GROUPS

IQ Panel 4 supports PowerG along with ONE “legacy” frequency (319.5 MHz, 345 MHz, or 433 MHz) depending on which RF daughter card is pre-installed. Sensor Group numbers and behaviors remain the same across all frequencies. When pairing a 345 MHz sensor with the Panel, an additional option for “Loop” number will be shown.

## DOOR/WINDOW

GROUP	NAME	SUPERVISED	SCENARIO
10	Entry-Exit- Normal Delay	Y	Gives a period of time to exit the home or to disarm the panel when returning before sounding the alarm
12	Entry-Exit- Long Delay	Y	Gives a period of time to exit the home or to disarm the panel when returning before sounding the alarm. This can be a separate delay from the “normal delay”
13	Instant Perimeter D/W	Y	Door or window that triggers an alarm <b>instantly</b> when system is armed
14	Instant Interior Door	Y	An interior sensor that triggers an alarm <b>instantly</b> while armed to both stay and away. Does not trip if an entry/exit sensor is tripped first
16	Away Instant- Follower Delay	Y	Interior door that <b>triggers alarm instantly</b> when system is armed to away mode only

## DOOR/WINDOW

GROUP	NAME	SUPERVISED	SCENARIO
25	Local Safety Sensor	Y	This sensor does <b>not</b> report or trigger an alarm. This is a <b>chime only</b> sensor when "Activity Monitoring" is active, regardless of panel status. Used for medicine cabinets, chemical storage etc
8	Reporting Safety Sensor	Y	This sensor reports to the central station and <b>triggers</b> an alarm when "Activity Monitoring" is active, regardless of panel status
9	Delayed Reporting Safety Sensor	Y	This sensor reports to the central station and triggers an alarm when "Activity Monitoring" is active, regardless of panel status. This sensor has an entry delay

\*345 MHz door/window sensors will have the option to change the "Loop" number to 1 or 2. This will allow the sensor to be programmed twice as 2 different zones.

\* Power G Door/Window contact 9945 adds an additional drop down menu to determine the contact type, Reed Switch or Wired.

## MOTION

GROUP	NAME	SUPERVISED	SCENARIO
17	Away- Instant Motion	Y	Active only when armed to “Away”, and trips instantly when motion is detected. Does <b>not</b> trip if an entry/exit sensor is tripped first
15	Stay- Instant Motion	Y	Active in both “Stay” & “Away” modes, and trips instantly when motion is detected. Does <b>not</b> trip if an entry/exit sensor is tripped first
35	Stay- Delay Motion	Y	Active in both “Stay” & “Away” modes. Triggers an entry delay when motion is detected. Does <b>not</b> trip if an entry/exit sensor is tripped first
20	Away- Delay Motion	Y	Active when armed to “Away”. Triggers an entry delay when motion is detected. Does <b>not</b> trip if an entry/exit sensor is tripped first
25	Safety Motion	Y	This sensor does <b>not</b> report or trigger an alarm. This is a chime only sensor when “Activity Monitoring” is active, regardless of panel status. Used for medicine cabinets, storage, activity tracking, etc

\*345 MHz motion sensors will have the option to change the “Loop” number to 1, 2 or 3. This will allow the sensor to be programmed twice as 2 different zones where supported by the device.

\*Power G Motion Detectors with Prefix 120, 122, 130, 140 and 142 offer additional functions such as High Traffic Shutdown and Sensitivity Level. Motions with prefix 123, 126, 127, 128 and 129 offer High Traffic Shutdown only as an additional function.

## GLASS BREAK

\*345 MHz glass break sensors can be programmed as “Loop” 1 only

GROUP	NAME	SUPERVISED	SCENARIO
13	Glass Break	Y	Active in both “Stay” and “Away” mode
17	Glass Break -Away Only	Y	Active in “Away” mode only

## KEY FOB

\*345 MHz Keyfobs will follow the IQ Panel’s Keyfob programming and functionality

GROUP	NAME	SUPERVISED	SCENARIO
1	Mobile Intrusion	N	<b>Worn or carried</b> , the button(s) is/are programmed to trigger a <b>police panic</b>
3	Mobile Silent	N	<b>Worn or carried</b> , the button(s) is/are programmed to trigger a <b>silent police panic</b>
4	Fixed Auxiliary	Y	Installed in a <b>fixed location</b> such as night stand, the button(s) is/are programmed to trigger an <b>Auxiliary panic</b> . <b>NOTE:</b> Medical functionality has not been evaluated by UL/cUL
5	Fixed Silent Auxiliary	Y	Installed in a <b>fixed location</b> such as night stand, the button(s) is/are programmed to trigger a <b>silent Auxiliary panic</b> . <b>NOTE:</b> Medical functionality has not been evaluated by UL/cUL

## KEY FOB

\*345 MHz Keyfobs will follow the IQ Panel's Keyfob programming and functionality

GROUP	NAME	SUPERVISED	SCENARIO
6	Mobile Auxiliary	N	<b>Worn</b> as a wrist watch or pendant, the button(s) is/are programmed to trigger an Auxiliary panic. <b>NOTE:</b> Medical functionality has not been evaluated by UL/cUL
7	Mobile Silent Auxiliary	N	<b>Worn</b> as a wrist watch or pendant, the button(s) is/are programmed to trigger a <b>silent</b> Auxiliary panic. <b>NOTE:</b> Medical functionality has not been evaluated by UL/cUL

## KEYPAD

GROUP	NAME	SUPERVISED	SCENARIO
0	Fixed Intrusion	Y	Installed in a <b>fixed location</b> , the keypad is programmed to trigger a <b>police panic</b> . <b>NOTE:</b> Hold-up functionality has not been evaluated by UL/cUL
1	Mobile Intrusion	N	<b>Keypad can be mobile</b> and is programmed to trigger a <b>police panic</b>
2	Fixed Silent	Y	Installed in a <b>fixed location</b> , the keypad is programmed to trigger a <b>silent police panic</b>
3	Mobile Silent	N	Keypad can be mobile and is programmed to trigger a <b>silent police panic</b>



## KEYPAD

GROUP	NAME	SUPERVISED	SCENARIO
4	Fixed Auxiliary	Y	Installed in a <b>fixed location</b> such as night stand, the keypad is programmed to trigger an Auxiliary panic. <b>NOTE:</b> Medical functionality has not been evaluated by UL/cUL
5	Fixed Silent Auxiliary	Y	Installed in a <b>fixed location</b> such as night stand, the keypad is programmed to trigger a <b>silent</b> Auxiliary panic. <b>NOTE:</b> Medical functionality has not been evaluated by UL/cUL
6	Mobile Auxiliary	N	Keypad can be mobile and is programmed to trigger an Auxiliary panic. <b>NOTE:</b> Medical functionality has not been evaluated by UL/cUL
7	Mobile Silent Auxiliary	N	Keypad can be mobile and is programmed to trigger a <b>silent</b> Auxiliary panic. <b>NOTE:</b> Medical functionality has not been evaluated by UL/cUL

## AUXILIARY PENDANT

\*345 MHz auxiliary pendants can be programmed as “Loop” 1 only

GROUP	NAME	SUPERVISED	SCENARIO
0	Fixed Intrusion	Y	Installed in a <b>fixed location</b> such as under a desk, the button(s) is/are programmed to trigger a <b>police panic</b>
1	Mobile Intrusion	N	Worn or carried, the button(s) is/are programmed to trigger a <b>police panic</b>
2	Fixed Silent	Y	Installed in a <b>fixed location</b> such as under a desk, the button(s) is/are programmed to trigger a <b>silent police panic</b>
3	Mobile Silent	N	<b>Worn or carried</b> , the button(s) is/are programmed to trigger a <b>silent police panic</b>
4	Fixed Auxiliary	Y	Installed in a <b>fixed location</b> such as night stand, the button(s) is/are programmed to trigger an auxiliary panic
5	Fixed Silent Auxiliary	Y	Installed in a <b>fixed location</b> such as night stand, the button(s) is/are programmed to trigger a <b>silent Auxiliary panic</b> . <b>NOTE:</b> Medical functionality has not been evaluated by UL/cUL
6	Mobile Auxiliary	N	Worn as a wrist watch or pendant, the button(s) is/are programmed to trigger an <b>Auxiliary panic</b>
7	Mobile Silent Auxiliary	N	<b>Worn</b> as a wrist watch or pendant, the button(s) is/are programmed to trigger a <b>silent Auxiliary panic</b> . <b>NOTE:</b> Medical functionality has not been evaluated by UL/cUL
25	Safety Auxiliary Pendant	N	Used for local alerts like a nurse call button. Will not report an alarm to the Central Station

\*345 MHz smoke sensors will have the option to change the “Loop” number to 1, 2 or 3. This will allow the sensor to be programmed twice as 2 different zones where supported by the device

## SMOKE DETECTOR/HEAT

GROUP	NAME	SUPERVISED	SCENARIO
26	Smoke-Heat	Y	Triggers an alarm when sensor detects smoke/rapid rise in heat

## SMOKE-M

GROUP	NAME	SUPERVISED	SCENARIO
26	Smoke-Heat	Y	Triggers an alarm when sensor detects smoke or a rapid rise of heat. Use <b>ONLY</b> with Qolsys multi-sensor smoke (QS5110-840)

## CO DETECTOR

\*345 MHz carbon monoxide sensors can be programmed as “Loop” 1 only

GROUP	NAME	SUPERVISED	SCENARIO
34	CO	Y	Triggers an alarm when sensor detects Carbon Monoxide

## HARDWIRE TRANSLATOR & WIRELESS TRANSLATOR

GROUP	NAME	SUPERVISED	SCENARIO
13	Takeover	Y	Triggers an alarm when sensor is tampered in "Stay" or "Away" mode

## TILT

\*345 MHz tilt sensors can be programmed as "Loop" 3 only

GROUP	NAME	SUPERVISED	SCENARIO
10	Entry-Exit- Normal Delay	Y	Triggers alarm after "normal delay" expires. Arms with both "Stay" and "Away"
12	Entry-Exit- Long Delay	Y	Triggers alarm after "long delay" expires. Arms with both "Stay" and "Away"
25	Garage Tilt- Safety Tilt	Y	This sensor group does <b>not</b> report or trigger an alarm. This is a chime only sensor when "Activity Monitoring" is active, regardless of panel status. Great for detached garage/shops. <b>NOTE:</b> Functionality in conjunction with garage door openers has not been evaluated by UL/cUL

# SENSOR GROUPS



## WATER

\*345 MHz water sensors will have the option to change the “Loop” number to 1, 2 or 3. This will allow the sensor to be programmed twice as 2 different zones where supported by the device

GROUP	NAME	SUPERVISED	SCENARIO
38	Water Sensor	Y	Triggers an alarm when sensor detects presence of water. <b>NOTE:</b> flood sensor functionality has not been evaluated by UL/cUL
25	Water Non-Reporting	Y	Used for local alerts. Will not report an alarm to the Central Station

**Please note:** When selecting “Water” you will see two additional options under “Sensor Sub-Type”. For IQ TempH2O (QS5500-PO1) & the IQ Flood (QS5516-840/QS5536-840) select “IQ Flood”, for all others, select “Other Flood”

## SHOCK SENSOR

\*345 MHz shock sensors will have the option to change the “Loop” number to 1 or 3. This will allow the sensor to be programmed twice as 2 different zones where supported by the device

GROUP	NAME	SUPERVISED	SCENARIO
13	Shock-Glass-Break	Y	Arms and trips shock sensors immediately when armed to both “Stay” and “Away”
17	Glass-Break-Away Only	Y	Arms and trips shock sensors immediately when armed only to “Away”

**Please note:** When selecting “Shock” you will see two additional options under “Sensor Sub-Type”. For IQ Shock select “IQ Shock”, for all others select “Other Shock”. \*Power G Shock Sensor with prefix 170 offers additional sensitivity level functions

## FREEZE

\*345 MHz temp sensors can be programmed as “Loop” 1 only

GROUP	NAME	SUPERVISED	SCENARIO
52	Freeze	Y	Triggers an alarm when sensor detects low temperatures. <b>NOTE:</b> temperature sensor functionality has not been evaluated by UL/cUL
25	Freeze Non-Reporting	Y	Used for local alerts. Will not report an alarm to the Central Station

**Please note:** When using the PG9905 with Group 52, Freeze, the Low threshold setting is set to 40°F by default. The Low threshold can be customized between -22°F and 158°F.

## HIGH TEMPERATURE

GROUP	NAME	SUPERVISED	SCENARIO
53	Temp Reporting	Y	Triggers an alarm when sensor detects high temperatures. <b>NOTE:</b> temperature sensor functionality has not been evaluated by UL/cUL
25	Temp Non-Reporting	Y	Used for local alerts. Will not report an alarm to the Central Station

**Please note:** When using the PG9905 with Group 53, the High threshold setting is set to 100°F by default. The High threshold can be customized between -22°F and 158°F.

## DOOR BELL

GROUP	NAME	SUPERVISED	SCENARIO
25	Local Safety Sensor	Y	This sensor does <b>not</b> report or trigger an alarm. This is a chime only sensor when "Activity Monitoring" is active, regardless of panel status. Great to automate lights, cameras and notifications etc

## SIREN

GROUP	NAME	SUPERVISED	SCENARIO
33	Siren	Y	Used for supervising Z-Wave sirens for wireless connectivity. Reports to the central station.
25	Local Safety Sensor	Y	Used for supervising Z-Wave sirens for wireless connectivity. Local supervision only. Does <b>NOT</b> report to the central station.

## DOOR/WINDOW-M (For use only with Multi-function Door/Window Sensors)

GROUP	NAME	SUPERVISED	SCENARIO
10	Entry-Exit- Normal Delay	Y	Gives a period of time to exit the home or to disarm the panel when returning before sounding the alarm
12	Entry-Exit- Long Delay	Y	Gives a period of time to exit the home or to disarm the panel when returning before sounding the alarm. This can be a separate delay from the "normal delay"
13	Instant Perimeter D/W	Y	Door or window that triggers alarm <b>instantly</b> when system is armed
14	Instant Interior Door	Y	An interior sensor that triggers an alarm <b>instantly</b> while armed to both stay and away. Does not trip if an entry/exit sensor is tripped first
16	Away Instant- Follower Delay	Y	Interior door that <b>triggers alarm instantly</b> when system is armed to away mode only



## DOOR/WINDOW-M (For use only with Multi-function Door/Window Sensors)

GROUP	NAME	SUPERVISED	SCENARIO
25	Local Safety Sensor	Y	This sensor does <b>not</b> report or trigger an alarm. This is a <b>chime only</b> sensor when "Activity Monitoring" is active, regardless of panel status. Used for medicine cabinets, chemical storage etc
8	Reporting Safety Sensor	Y	This sensor reports to the central station and <b>triggers</b> an alarm when "Activity Monitoring" is active, regardless of panel status
9	Delayed Reporting Safety Sensor	Y	This sensor reports to the central station and triggers an alarm when "Activity Monitoring" is active, regardless of panel status. This sensor has an entry delay

## OCCUPANCY SENSOR

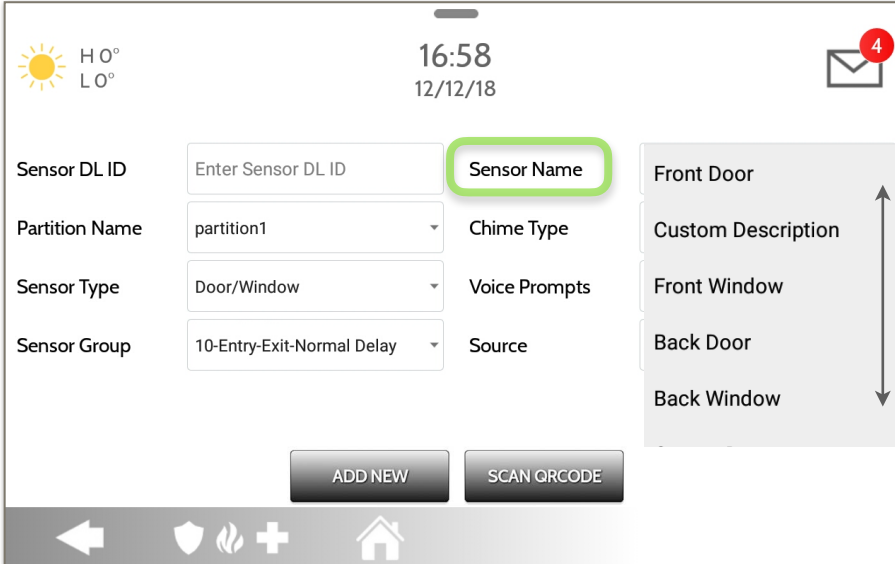
GROUP	NAME	SUPERVISED	SCENARIO
25	Local Safety Sensor	Y	This sensor group is to be used for monitoring activity in the home. This group does not report

## TEMPERATURE

GROUP	NAME	SUPERVISED	SCENARIO
51	Temp Non Reporting	Y	Only for use with the PowerG Temp Sensor (PG9905). This sensor group does <b>not</b> report to the Central Station. Allows for actual temperature monitoring (thermometer) with customizable high/low threshold settings
52	Freeze	Y	Triggers an alarm when sensor detects low temperatures. <b>NOTE:</b> temperature sensor functionality has not been evaluated by UL/cUL
53	Temp Reporting	Y	Triggers an alarm when sensor detects high temperatures. <b>NOTE:</b> temperature sensor functionality has not been evaluated by UL/cUL

**Please note:** When using the PG9905 with Group 51, the High & Low threshold settings are set to 40°F and 100°F by default. When using Group 52, the Low threshold setting is set to 40°F by default. When using Group 53, the High threshold setting is set to 100°F by default. Thresholds can be customized between -22°F and 158°F.

## SENSOR NAME

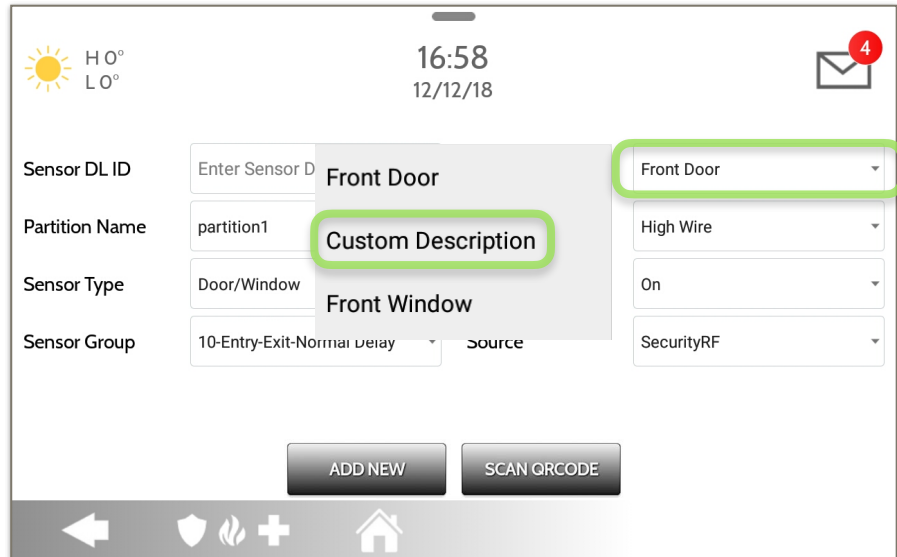


The screenshot displays a configuration screen for a security sensor. At the top, there is a weather icon, temperature readings (H: 0°, L: 0°), the time (16:58), and the date (12/12/18). A notification icon with a red '4' is in the top right. The main form has several fields: 'Sensor DL ID' (text input with placeholder 'Enter Sensor DL ID'), 'Partition Name' (dropdown with 'partition1'), 'Sensor Type' (dropdown with 'Door/Window'), and 'Sensor Group' (dropdown with '10-Entry-Exit-Normal Delay'). To the right of these are 'Chime Type', 'Voice Prompts', and 'Source'. A 'Sensor Name' field is highlighted with a green border. To its right is a scrollable list of preset names: 'Front Door', 'Custom Description', 'Front Window', 'Back Door', and 'Back Window'. At the bottom are 'ADD NEW' and 'SCAN QR CODE' buttons, and a navigation bar with icons for back, home, and other functions.

When you select the sensor name field you can choose from a variety of preset sensor names by scrolling up and down or create a custom description.

## SENSOR NAME: CUSTOM DESCRIPTION

When you select “Custom Description” as your sensor name the keyboard will appear. Type in the desired name (up to 56 characters) and click “Done.” The name will appear in the field below “Sensor Name.”

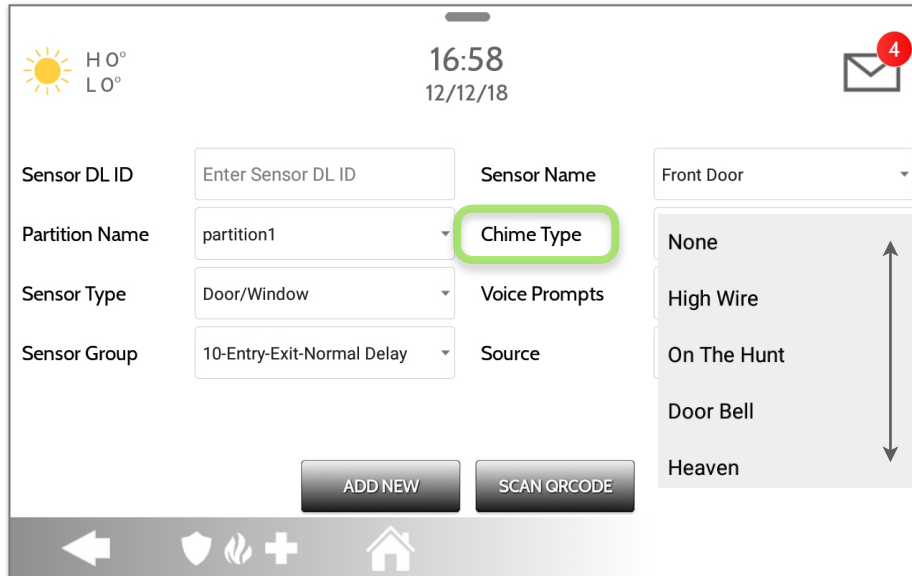


The screenshot displays the 'ADD NEW' sensor screen. At the top, there is a weather icon, temperature (H 0°, L 0°), time (16:58), and date (12/12/18). A notification icon with a red '4' is in the top right. The form contains the following fields:

- Sensor DL ID:** A text input field with a keyboard overlay. The text 'Front Door' is entered. A green box highlights the 'Custom Description' option in the dropdown menu.
- Partition Name:** A text input field containing 'partition1'.
- Sensor Type:** A dropdown menu with 'Door/Window' selected. A green box highlights the 'Front Window' option in the dropdown.
- Sensor Group:** A dropdown menu with '10-Entry-Exit-Normal delay' selected. A 'Source' label is visible next to it.

At the bottom, there are two buttons: 'ADD NEW' and 'SCAN QR CODE'. Below these is a navigation bar with icons for back, shield, plus, and home.

## CHIME TYPE



16:58  
12/12/18

Sensor DL ID: Enter Sensor DL ID

Partition Name: partition1

Sensor Type: Door/Window

Sensor Group: 10-Entry-Exit-Normal Delay

Sensor Name: Front Door

Chime Type: None, High Wire, On The Hunt, Door Bell, Heaven

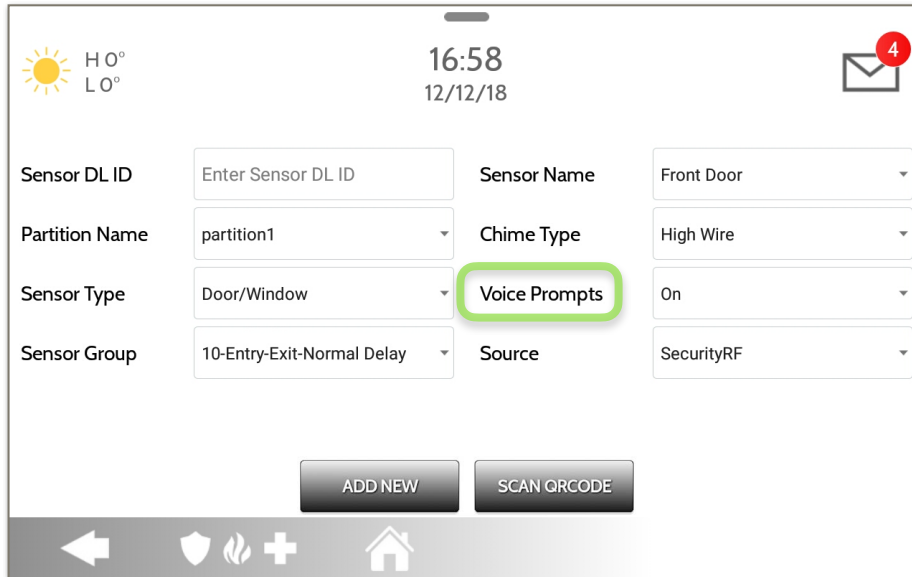
Voice Prompts

Source

ADD NEW SCAN QR CODE

Because of the dynamic nature of the way the IQ Panel 4 pairs and understands each individual sensor, you can program each sensor to have a unique chime or even turn chiming off for that individual sensor. To customize your chime for a particular sensor touch the Chime Type drop down and choose from the list.

## VOICE PROMPTS



The screenshot shows a mobile application interface for configuring a security sensor. At the top, there is a weather icon, temperature (H 0°, L 0°), the time 16:58, and the date 12/12/18. A notification icon with a red circle containing the number 4 is in the top right. The main configuration area consists of several rows of labels and input fields:

- Sensor DL ID:** Enter Sensor DL ID
- Partition Name:** partition1
- Sensor Type:** Door/Window
- Sensor Group:** 10-Entry-Exit-Normal Delay
- Sensor Name:** Front Door
- Chime Type:** High Wire
- Voice Prompts:** On (This field is highlighted with a green border)
- Source:** SecurityRF

At the bottom of the configuration area are two buttons: "ADD NEW" and "SCAN QR CODE". A navigation bar at the very bottom contains icons for back, shield, fire, plus, and home.

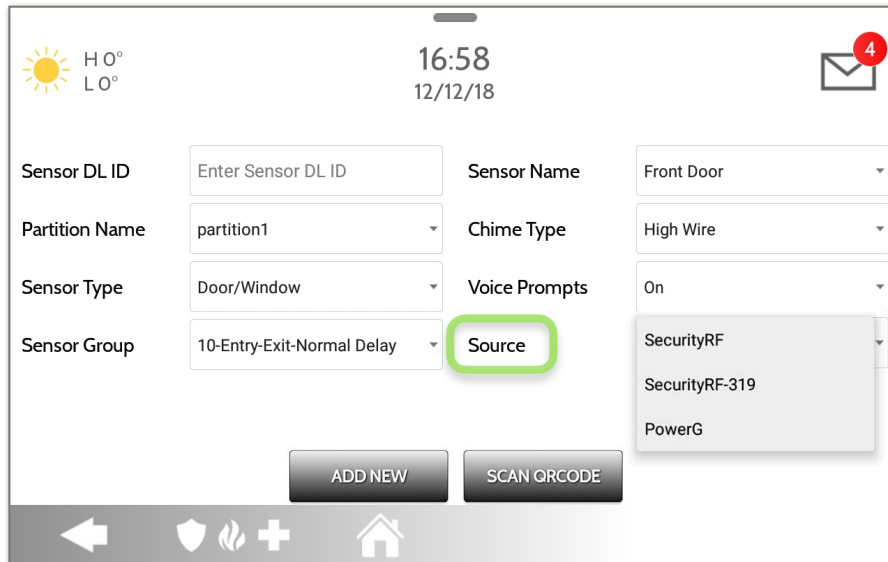
Voice prompts announce the sensor name when the sensor is opened or tripped.\*

For door/window sensors, voice prompts are defaulted to “On”. For most other sensors the default is “Off.” Touch the drop down menu to change.

Choose individually which sensors should have voice prompts ON or OFF

**\*NOTE:** “Activity Monitoring Sensors” will also audibly report when they have been closed.

## SOURCE



The screenshot displays the configuration screen for a security sensor. At the top, there is a weather widget showing a sun icon, 'H 0°', and 'L 0°'. To the right, a clock shows '16:58' and the date '12/12/18'. A notification icon with a red '4' is in the top right corner. The main form consists of four rows of fields:

Sensor DL ID	<input type="text" value="Enter Sensor DL ID"/>	Sensor Name	<input type="text" value="Front Door"/>
Partition Name	<input type="text" value="partition1"/>	Chime Type	<input type="text" value="High Wire"/>
Sensor Type	<input type="text" value="Door/Window"/>	Voice Prompts	<input type="text" value="On"/>
Sensor Group	<input type="text" value="10-Entry-Exit-Normal Delay"/>	<b>Source</b>	<input type="text" value="SecurityRF"/>

At the bottom, there are two buttons: 'ADD NEW' and 'SCAN QR CODE'. A navigation bar at the very bottom contains icons for back, shield, fire, plus, and home.

Source indicates the sensor's incoming frequency when pairing to the IQ Panel 4.

The following options will be available depending on the pre-installed RF Daughter Card:

- PowerG
- SecurityRF
- SecurityRF-319
- S-Line
- SecurityRF-345
- 345RF 2G
- SecurityRF-433
- Zigbee

## EDIT SENSOR



### Edit Sensor

Edit sensors after they have already been learned in. All fields can be edited with the exception of the DL or Sensor ID.

NO	PTID	ID	SIGNAL SOURCE	TYPE	NAME	GROUP	EDIT
1	1	12BEA1	G	Motion	Upstairs Motion Detector	17-Away-Instant Motion	
2	1	12BEA2	G	Motion	Downstairs Motion Detector	17-Away-Instant Motion	
3	1	12BEA3	G	Door/Window	Front Door	10-Entry-Exit-Normal Delay	
4	1	12BEA4	G	Door/Window	Laundry Door	10-Entry-Exit-Normal Delay	
5	1	12BEA5	G	Door/Window	Back Door	13-Instant Perimeter DAW	

To make changes to a sensor, touch the “Pencil” icon next to the sensor that needs editing. Change desired fields and then touch “SAVE”.

## FIND IT

Swipe down for access

- SETTINGS
- ADVANCED SETTINGS
- ENTER CODE (1111, 2222)
- INSTALLATION
- DEVICES
- SECURITY SENSORS
- EDIT SENSOR**

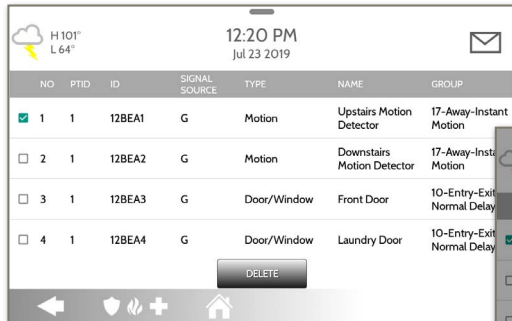


## DELETE SENSOR



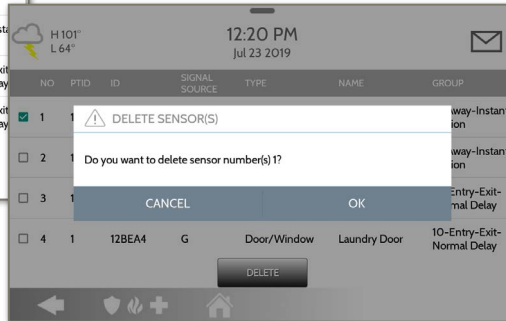
### Delete Sensor

Delete each sensor individually or choose to delete more than one at a time. This is useful when needing to replace a sensor all together instead of simply editing programmed information.

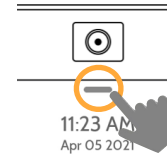


Select the sensor(s) from the list that are to be deleted and then touch “DELETE”

Verify that the action is correct and touch “OK” to confirm or “CANCEL” to quit the operation



## FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



INSTALLATION



DEVICES



SECURITY SENSORS



DELETE SENSOR

## SENSOR STATUS



### Sensor Status

Monitor sensor status in real time for things like open, close, tamper, idle and low battery.

H 101°  
L 64°

12:29 PM  
Jul 23 2019

NO	PTID	ID	SIGNAL SOURCE	NAME	TYPE	GROUP	STATUS
1	1	12BEA1	G	Upstairs Motion Detector	Motion	17-Away-Instant Motion	Idle
2	1	12BEA2	G	Downstairs Motion Detector	Motion	17-Away-Instant Motion	Idle
3	1	12BEA3	G	Front Door	Door/Window	10-Entry-Exit-Normal Delay	Closed
4	1	12BEA4	G	Laundry Door	Door/Window	10-Entry-Exit-Normal Delay	Closed
5	1	12BEA5	G	Back Door	Door/Window	13-Instant Perimeter D/W	Open

This page also allows you to quickly review programming for things like Zone number, Partition, Signal Source (319, 345, 433, PowerG, Native or Zigbee), Sensor Name, Sensor Type and Sensor Group.

## FIND IT

Swipe down  
for access

11:23 AM  
Apr 05 2021

- SETTINGS
- ADVANCED SETTINGS
- ENTER CODE (1111, 2222)
- INSTALLATION
- DEVICES
- SECURITY SENSORS
- SENSOR STATUS

## SENSOR GROUP



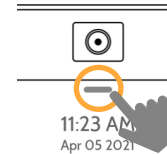
### Sensor Group

Don't have this manual handy on an install? Sensor Group gives you digital access to view each possible sensor group and it's behaviors directly on the panel.

ID	TYPE	NAME	SUPERVISORY	RESTORAL	TIMER	SIREN TYPE
0	Auxiliary Pendant	Fixed Intrusion	Y	N	Immediate	Siren3
1	Auxiliary Pendant	Mobile Intrusion	N	N	Immediate	Siren3
2	Auxiliary Pendant	Fixed Silent	Y	N	Immediate	Siren3
4	Auxiliary Pendant	Fixed Auxiliary	Y	N	Immediate	Siren3
6	Auxiliary Pendant	Mobile Auxiliary	N	N	Immediate	Siren3

The Sensor Group list is sorted by "Type" in alphabetical order from A - Z.

## FIND IT



Swipe down for access

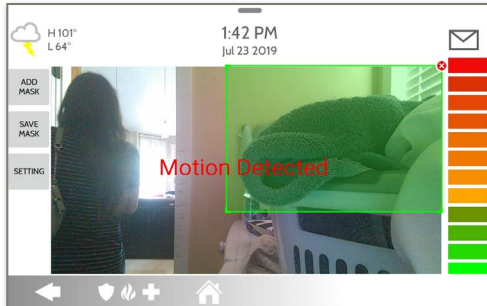
- SETTINGS
- ADVANCED SETTINGS
- ENTER CODE (1111, 2222)
- INSTALLATION
- DEVICES
- SECURITY SENSORS
- SENSOR GROUP

## PANEL MOTION SETTINGS



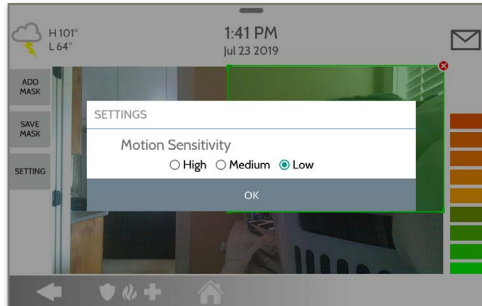
### Panel Motion Settings

Control settings for the built-in Panel Motion Detector. Change the sensitivity threshold and mask off up to 4 customizable areas to prevent false triggers.



#### Masking:










Touching “ADD MASK” will give a drawable area (green) that is not taken in to account for motion pixelation change, then touch “SAVE MASK” to save. Up to 4 independent mask areas can be drawn.



#### Sensitivity Setting:

Touch “SETTING” to change the the Panel Motion sensitivity between Low (default), Medium and High. Use the Green to Red bar on the right side of the screen to determine trigger threshold.

## FIND IT

-   Swipe down for access
-  SETTINGS
-  ADVANCED SETTINGS
-  ENTER CODE (1111, 2222)
-  INSTALLATION
-  DEVICES
-  SECURITY SENSORS
-  PANEL MOTION SETTINGS

# WI-FI DEVICES

## WI-FI DEVICES



### Wi-Fi Devices

View and remove Wi-fi devices associated with the panel as well as configure the Qolsys Access point.



### Wi-Fi

Scan and connect to a Wi-Fi network. This will ensure your panel can receive software updates and have a Dual Path connection.



### Access Point Settings

Configure the IQ Panel 4's built in router. Enable/Disable the router, broadcast or hide the SSID and change the SSID's password etc...



### Access Point Connected Devices

View connected device information such as IP, MAC address and for how long the device has been connected.



### IQ Remote Devices

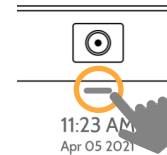
Pair an IQ Remote Secondary Touchscreen to the panel whether it is connected to the customer's network or the panel's built in Access Point.



### 3rd Party Connections

Enable or disable 3rd party connections on the panel. This feature is used for specific 3rd party device integration

## FIND IT



Swipe down  
for access

11:23 AM  
Apr 05 2021



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



INSTALLATION



DEVICES



WI-FI DEVICES

## CONNECTING TO WI-FI



To connect to a Wi-Fi network, follow the steps below:

Swipe down from the top menu bar and select settings.



Touch Advanced Settings (Installer Code)



Then touch “Wi-Fi”



Enable Wi-Fi if not already active

Available networks appear in a list. Touch the desired network and use the keyboard to type the password (if required)

### Activate WIFI



Qolsys-5G  
Connected



Now Communications



Qolsys



Sunset Room



Vertical Ops 2.4

+ Add wi-fi network

WPS Push Button

## FIND IT



Swipe down for access

11:23 AM  
Apr 05 2021



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



INSTALLATION

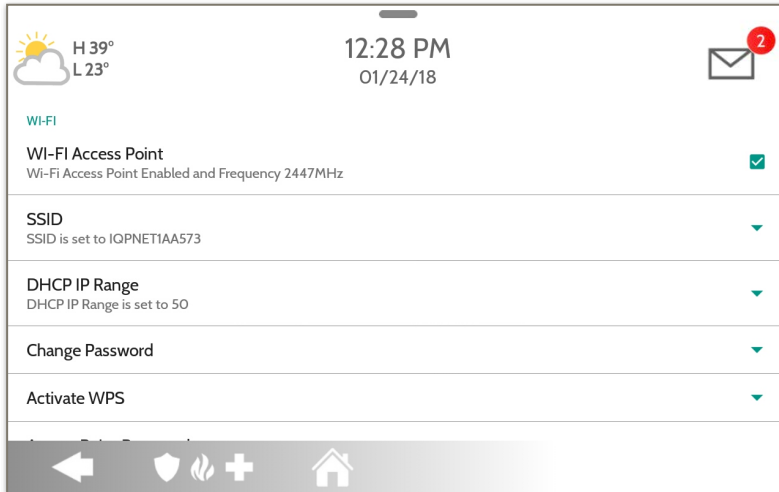


DEVICES



WI-FI DEVICES

## ACCESS POINT SETTINGS



### Wi-Fi Access Point:

Enable or Disable the Panel Access Point

### SSID:

Change the SSID Name. This is the name that other devices will use to connect to.

### DHCP IP Range:

Modify the DHCP IP Range for the access point. Default is 50.

### Change Password:

Change the password of the SSID to one of your choosing.

### Activate WPS:


Connect devices to the panel's built-in access point using WPS push button.

### Access Point Password:

Shows current password in use for the Panel Access Point




## ACCESS POINT CONNECTED DEVICES




H 59°  
L 47°

4:41 PM  
11/01/16



NO	MAC ADDRESS	IP ADDRESS	CONNECTED TIME(MM:DD:HH:MM)	ACTIONS
1	00:02:d1:42:19:48	192.168.50.80	00:00:00:04	<input type="checkbox"/>



View the IP address, Mac address and connected duration of each Wi-Fi client connected to the panel's built in router.

Select "Actions" to then remove a device that has been associated with the panel.

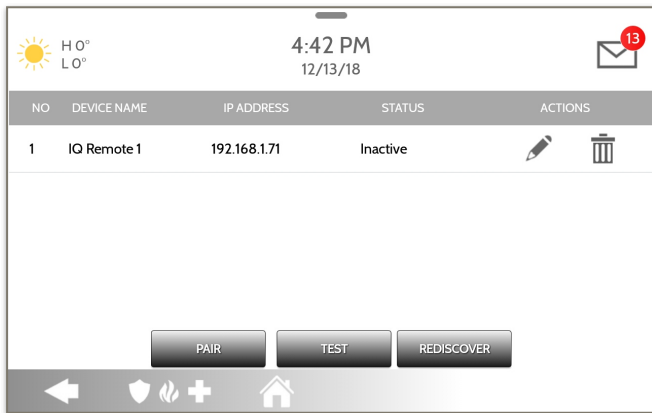
You must remove saved network information from the device otherwise it will re-connect to the panel.

## IQ REMOTE DEVICES



### IQ Remote Devices

Pair up to 3 IQ Remote Secondary Touchscreens to the panel via the customer's network or the panel's built in access point.



**NOTE:** The IQ Remote will automatically pair as Sensor Type “Keypad” and will appear on the zone list in the order in which it is paired. Sensor Groups 0, 1 & 2 are available options for this Sensor Type.

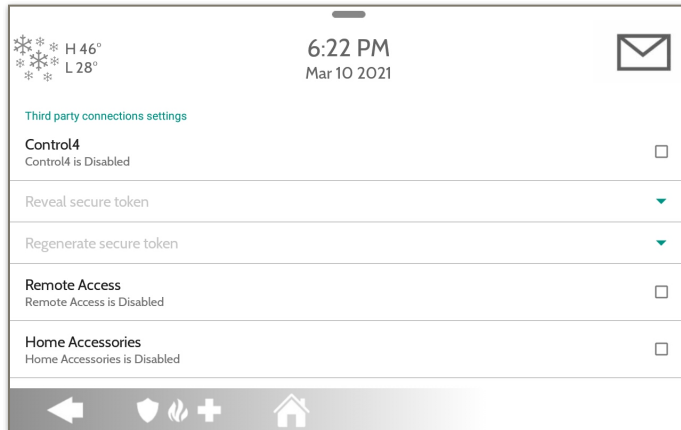
1. Connect the IQ Remote to the panel's access point or to the same Wi-Fi network the panel is connected to. **NOTE:** QW9102 & QW9103 IQ Remotes only support 2.4 GHz networks. QW9104 IQ Remotes support both 2.4 GHz and 5 GHz.
2. Prior to pairing the IQ Remote to the panel you can Test the connection by select TEST on the panel and the remote.
3. Select “Pair” on the Panel and then Pair on the IQ Remote to begin during this process the remote will also download and update to the current software version and reboot.
4. The remote device will pair to the panel and will show that it is active on the list. You can then edit (device name and sensor group), ping, delete or rediscover the device if necessary

## 3RD PARTY CONNECTIONS



### 3rd Party Connections

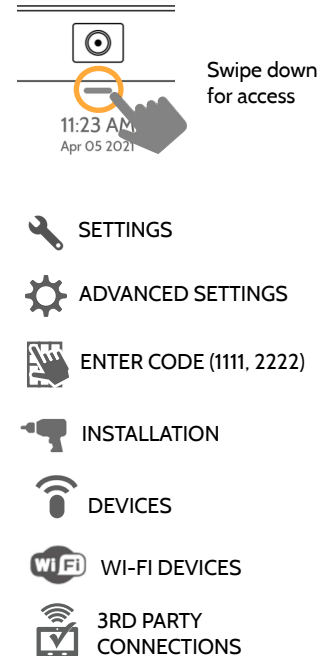
Enable or disable 3rd party connections on the panel. This feature is used for specific 3rd party device integration



Check the “Control4” box to enable 3rd Party Connections. This will cause the panel to reboot in order to apply the change. Once enabled a secure token can be generated in order to sync with Control4 integration.

Remote Access, Home Accessories and Savant are reserved for future use.

## FIND IT



# Z-WAVE DEVICES

## Z-WAVE DEVICES



### Z-Wave Devices

Add, Edit, Clear and Remove Z-Wave Devices. You can also View/Edit associations as well as access Z-Wave Settings.



#### Add Device (Inclusion)

Add new devices to the Z-Wave network



#### Edit Device

Make changes to existing devices



#### Clear Device (Exclusion)

Removes a Z-Wave device from its previous network. Also deletes a device from the IQ Panel 4 if currently paired.



#### Delete Failed Device

Remove a failed Z-Wave device from the IQ Panel 4's memory



#### Remove All Devices (Factory Default Reset)

If this controller is the primary controller for your network, resetting it will result in the nodes in your network being orphaned and it will be necessary after the reset to exclude and re-include all of the nodes in the network. If this controller is being used as a secondary controller in the network, use this procedure to reset this controller only in the event that the network primary controller is missing or otherwise inoperable.



#### View/Edit Associations

Manually change Z-Wave associations for specific devices.



#### Z-Wave Settings

Configure device limits and other Z-Wave settings.



#### SmartStart

Enter the device's DSK or simply scan the QR Code.



#### Provisioning List

Devices added via SmartStart will show their progress of being included into the network.

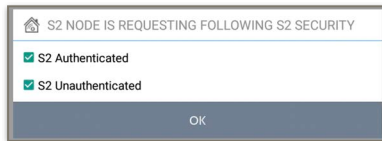
## ADD DEVICE



1. Select “Add Device”



2. Touch “Include”



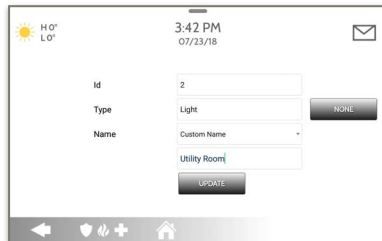
3. Press the “Pair” or “Learn” button on the device when the message appears. *(see individual device documentation for instructions on button location)*

4. Adjust the device name by touching and making the appropriate selections.

5. Select “Automation” to enable simple light rules.

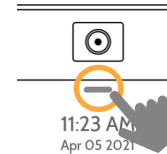
- **Night:** Turns light on at 7pm and off at 6am
- **Evening:** Turns light on at 7pm and off at 11pm
- **Front Door:** Turns light on for 15mins when Front Door opens (must have a sensor with the default quick name “Front Door” added in the panel).

6. Click “Add” to save the information and complete the process. (Adjustments can be made later from “Edit Device” icon)



S2 is a new Z-Wave Security Protocol. When an S2 node is attempting to be included it will request S2 security keys. These are based on the level of S2 security that the end device requires. These keys can be Unauthenticated, Authenticated or Access. These keys can be manually granted by selecting the appropriate option.

## FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



INSTALLATION



DEVICES



Z-Wave DEVICES



ADD DEVICE

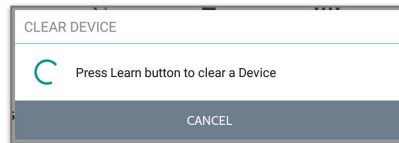
## CLEAR DEVICE



Clears Z-Wave device from a network, whether it was enrolled with another controller previously or the IQ Panel 4. Also deletes a device from the IQ Panel 4 if currently paired.



Touch  
"Clear Device"



Panel will start sending a  
"Clear" signal



Press  
"Pair" or "Learn"  
button on device\*

Panel returns to  
Z-Wave Device  
menu when  
complete

**NOTE:** Each Z-Wave device is different, and not all devices have a hard button to pair or learn. Refer to your device's installation manual for specifics on pairing or learning.

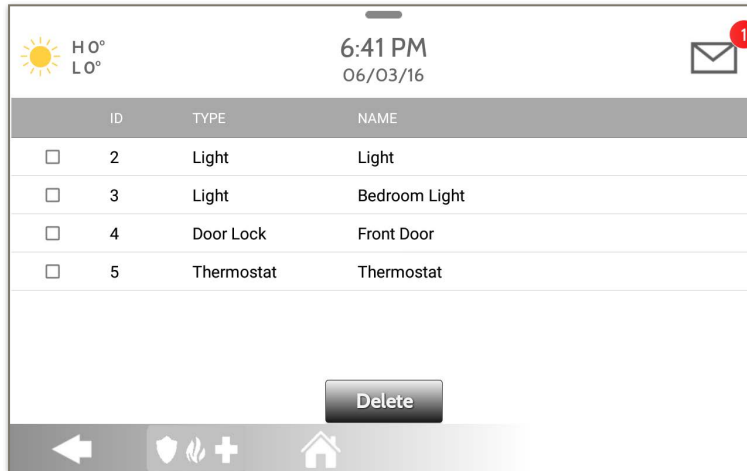
## DELETE FAILED DEVICE



Deletes Z-Wave device from the panel. Before adding the device to another network see instructions on how to “Exclude” a Z-Wave device. Only allows a Node ID to be deleted if it has failed and is no longer communicating.



Touch  
“Delete Failed  
Device From  
Panel”



	ID	TYPE	NAME
<input type="checkbox"/>	2	Light	Light
<input type="checkbox"/>	3	Light	Bedroom Light
<input type="checkbox"/>	4	Door Lock	Front Door
<input type="checkbox"/>	5	Thermostat	Thermostat

Check the boxes next to the device(s) you want to delete



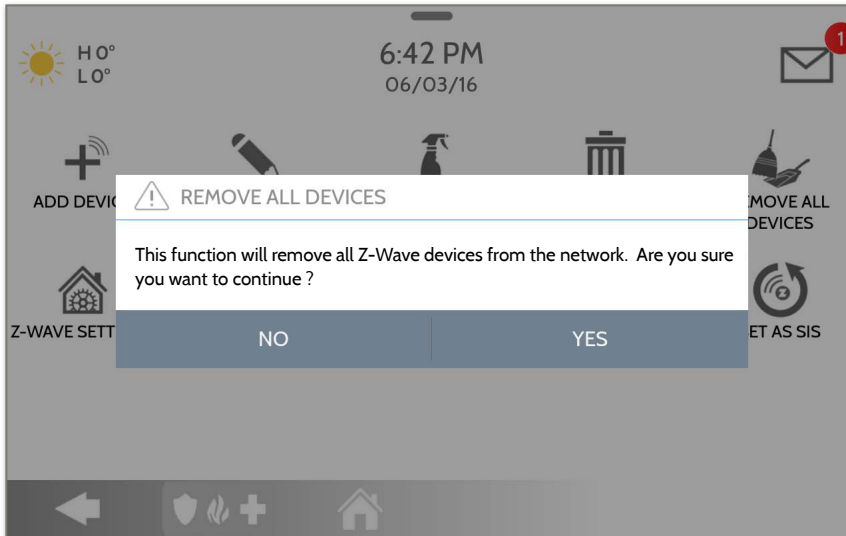
Touch “Delete”



## REMOVE ALL DEVICES



Deletes all Z-Wave devices from the panel and resets the panel's Z-Wave controller.



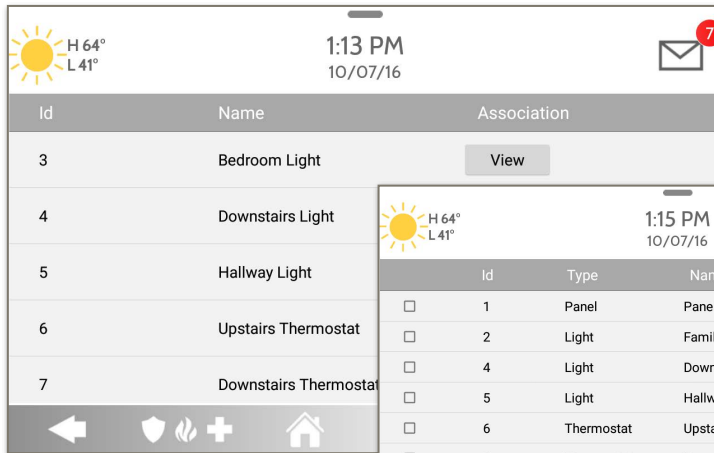
Touching "Remove All Devices" brings a confirmation pop-up asking you to confirm your decision to remove all devices.

If this controller is the primary controller for your network, resetting it will result in the nodes in your network being orphaned and it will be necessary after the reset to exclude and re-include all of the nodes in the network. This procedure will send a "Device Reset Locally" to all Z-Wave devices in the IQ Panel 4's Lifeline Group (Group 1).

## VIEW/EDIT ASSOCIATIONS



Manually change Z-Wave associations for specific devices.



1. Select the Z-Wave device you would like to associate with another by touching “View”

2. Select “Edit”



3. “Check” the boxes next to each device that you would like to associate with. Then select “Save”



Note: The IQ Panel 4 supports Lifeline in Group 1 to send out Device Reset Locally when it has been associated to another Z-Wave Plus device. This is triggered when “REMOVE ALL DEVICES” is used

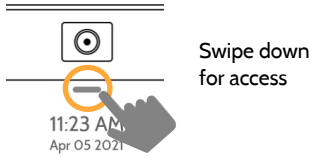
## Z-WAVE SETTINGS

Z-Wave Settings allow an installer to set a maximum number of Z-Wave devices allowed on the IQ Panel 4 in all categories and to control other Z-Wave settings.

Device	Default	Maximum Number Supported
Thermostats	10	Maximum number of supported Thermostats is 10
Lights	80	Max number of supported Z-Wave light modules is 80
Door Locks	20	Maximum number of supported Z-Wave Door Locks is 20
Other Z-Wave Devices	21	Maximum number of misc Z-Wave devices is 21
Garage Doors	6	Maximum number of Garage Doors is 6








**NOTE:** This feature has not been evaluated by UL/cUL. This is a supplementary functionality that will not interfere with the minimum mandatory operation of the life safety and burglary protection of the alarm system control unit. UL Note: Additional Z-Wave devices other than what has been indicated as maximum limits have not been evaluated by UL/cUL.

## FIND IT



Swipe down for access

11:23 AM  
Apr 05 2021

-  SETTINGS
-  ADVANCED SETTINGS
-  ENTER CODE (1111, 2222)
-  INSTALLATION
-  DEVICES
-  Z-WAVE DEVICES
-  Z-WAVE SETTINGS

\* Additional option available only through the Dealer Code.

## Z-WAVE SETTINGS

Setting	Default	Description
Allow Master Code Z-Wave Settings	Disabled	Allow Master User Code to access Z-Wave Settings
Allow Master Code Z-Wave Management	Disabled	Allow Master User Code to access Z-Wave Devices (Add, Edit, Clear, Delete Failed Device, Remove All Devices & View/Edit Associations)
Access to Automation	Enabled	When <b>enabled</b> it allows the ability to apply simple automated actions to lights and switches directly from the panel
Z-Wave	Enabled	Activate or deactivate the Z-Wave radio. Please use this procedure only when the controller (panel) is missing or inoperable
Advanced Z-Wave Settings	Disabled	<p>When Advanced Z-Wave Settings is <b>enabled</b> the following new icons will appear on the Z-Wave Devices page:</p> <ul style="list-style-type: none"> <li>- <b>Continuous Add Devices:</b> Activates an “always listening” enroll mode. Include one Z-Wave device after another. When complete you can edit the device(s) with a custom name</li> <li>- <b>Replace Failed Node:</b> Allows a node that has failed to be replaced with a new device using the same node ID</li> <li>- <b>Manage Devices From Secondary Controllers:</b> Allows secondary controllers to manage devices on the network</li> <li>- <b>Controller Shift:</b> Shifts the primary controller from IQ Panel to another controller</li> <li>- <b>Add/Remove Controller:</b> This icon acts like an “Add/Remove” button when pairing the IQ Panel into another network</li> </ul>

## SMARTSTART



1. Select "SmartStart"



2. Touch "Include"



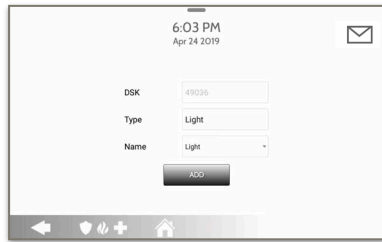
3. Scan the Box or Device's QR code or manually enter the DSK code and select Add DSK.

4. Adjust the device name by touching and making the appropriate selections.

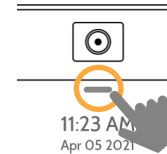
5. Select "Automation" to enable simple light rules.

- **Night:** Turns light on at 7pm and off at 6am
- **Evening:** Turns light on at 7pm and off at 11pm
- **Front Door:** Turns light on for 15mins when Front Door opens (must have a sensor with the default quick name "Front Door" added in the panel).

6. Click "Add" to save the information and complete the process. (Adjustments can be made later from "Edit Device" icon)



## FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



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INSTALLATION



DEVICES



Z-WAVE DEVICES




SMARTSTART

## PROVISIONING LIST



### Provisioning List

Devices added via SmartStart will show up in the provision list. This list will show the network status of those devices. Once a device reaches the “Included” state on the panel, it can no longer be deleted using the trash can method and must follow standard clearing process.



DSK	TYPE	NAME	NETWORK STATUS
49036	Light	Light	Not in network

### NETWORK STATUS:

**Not in network:** When a device has been paired but has not yet been plugged in it will show Not in Network. These devices can also be deleted using the trash can.

**Started:** Once the device has been paired and then plugged in, it will start the inclusion process with the panel and run in the back ground.

**Included:** When a device has completed the inclusion process it will then show as “included” in the provisioning list and at that point the panel’s UI will reflect the included devices.

# BLUETOOTH DEVICES

## BLUETOOTH DEVICES



### Bluetooth Devices

Add, Edit, Delete and Configure a Bluetooth Device. Bluetooth disarm supported via a mobile device.



### Add Device

Pair up to 5 mobile Bluetooth devices.



### Edit Device

Make changes to existing Bluetooth devices.



### Delete Device

Delete a paired Bluetooth device



### Remove All Devices

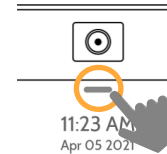
Removes all paired Bluetooth devices at once.



### Settings

Toggle Bluetooth on/off, adjust Bluetooth disarm settings and change Bluetooth disarm timeout (1,5,10,20 & 30mins).

## FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



INSTALLATION



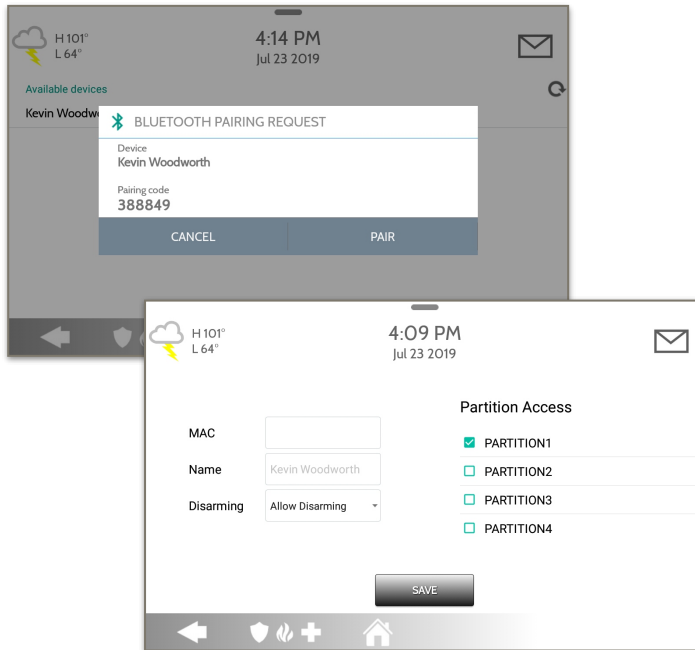
DEVICES




BLUETOOTH DEVICES



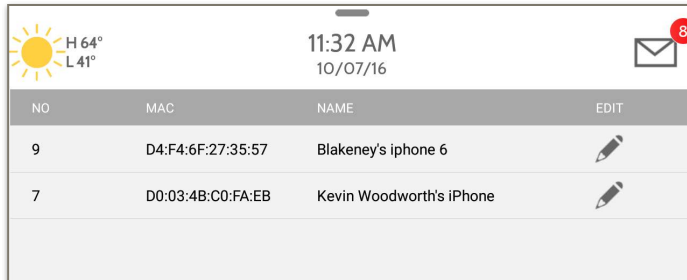
## ADD DEVICE





1. Select “Add Device” 
2. Open the Bluetooth page on your mobile device. The panel will search for all available and in range bluetooth devices.
3. Select the correct device from the list on the panel and ensure the pairing code matches that on your mobile device.
4. Touch “Pair” on the panel first, and then on your mobile device.
5. Choose whether to allow disarming or not, and select the Partition to be disarmed (if Partitions are enabled).
6. Your mobile device will now show under the “Paired Devices” list on the panel.

**NOTE:** Your phone may show the IQ Panel as “Not Connected”. This is normal

## EDIT DEVICE

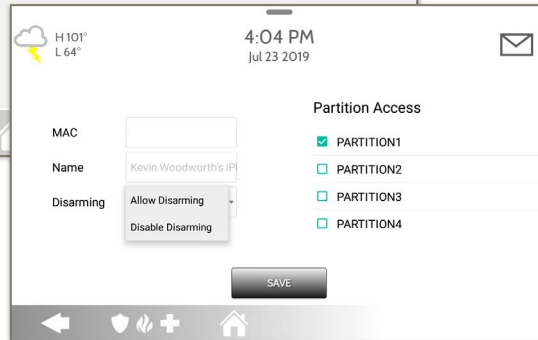


NO	MAC	NAME	EDIT
9	D4:F4:6F:27:35:57	Blakeney's iphone 6	
7	D0:03:4B:C0:FA:EB	Kevin Woodworth's iPhone	

1. Select the pencil next to the device you would like to edit.

2. Select whether or not you would like to allow a device to disarm the panel when in proximity.

3. Select which Partition you would like the device to disarm.



MAC:

Name: Kevin Woodworth's IP

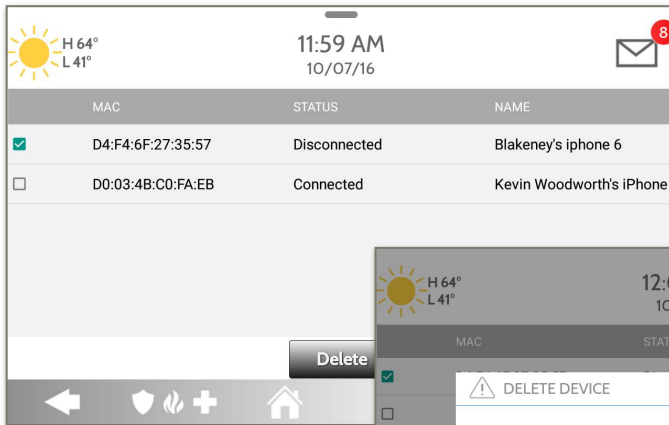
Disarming:

Partition Access

- PARTITION1
- PARTITION2
- PARTITION3
- PARTITION4

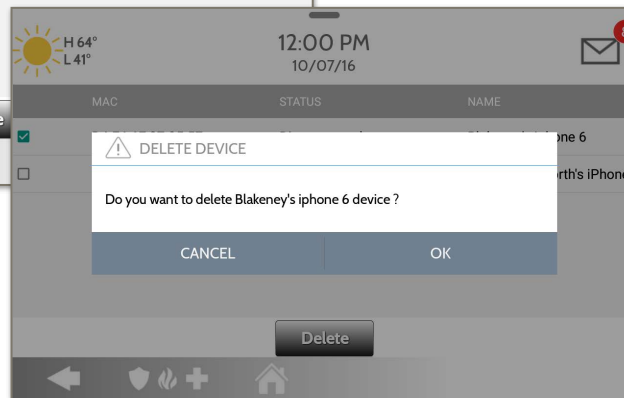
Note: This option is only available when "Partitions" are enabled. A device can only be assigned to one Partition at a time.

## DELETE DEVICE



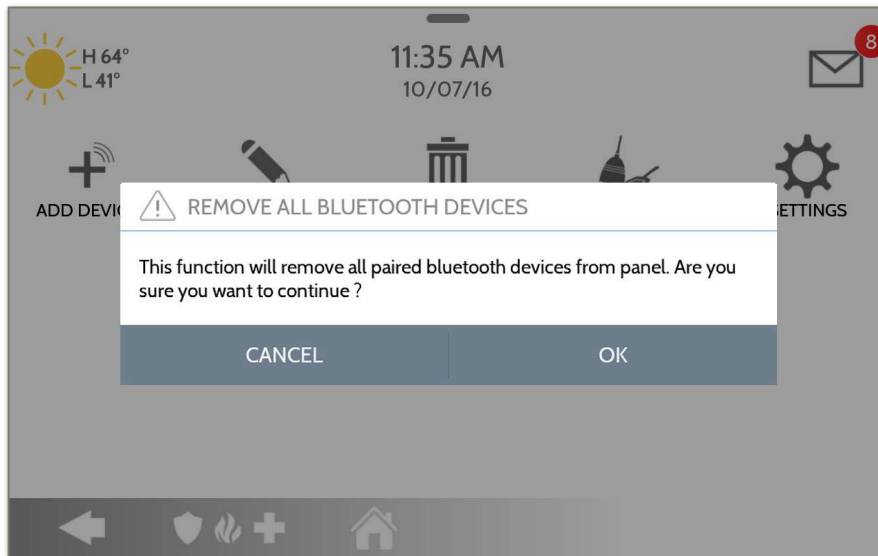
1. Select the check box next to the device you would like to delete.

2. Select "Delete" at the bottom of the page.



3. Select "OK" to confirm and delete the device.

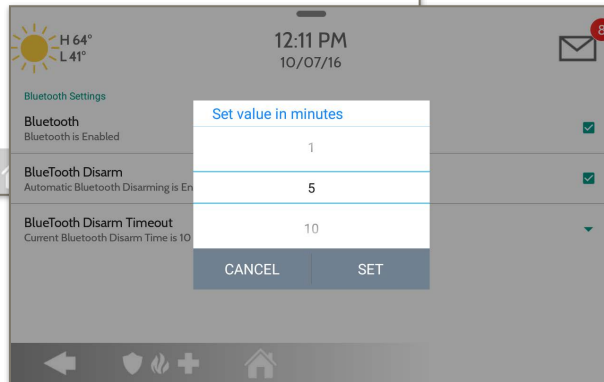
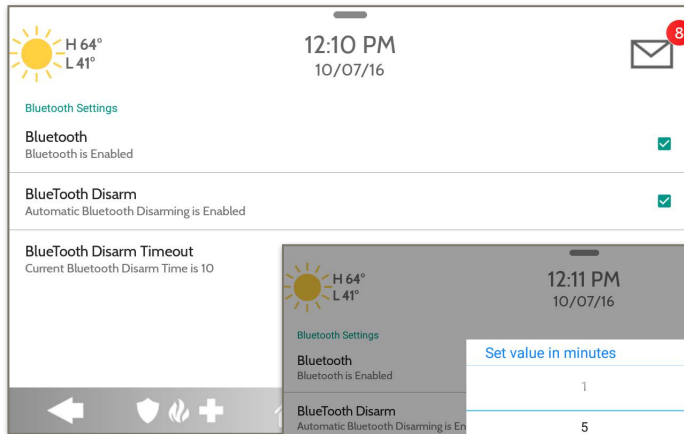
## REMOVE ALL DEVICES



To delete and remove all enrolled Bluetooth devices at once, select “Remove All Devices”.

Next select “OK” to confirm you would like to delete.

## SETTINGS



### BLUETOOTH:

Select or un-select this box to enable or disable the bluetooth radio.

### BLUETOOTH DISARM:

Select or un-select this box to enable or disable the ability to disarm the panel via Bluetooth. To change this on an individual level you must edit the specific device.

### BLUETOOTH DISARM TIMEOUT:

Change the time in which the panel must wait after it's been armed to away before it allows a bluetooth device to disarm it. **Default 10 min**

Select from 1, 5, 10, 20 or 30 minute disarm timeout

# SYSTEM TESTS

## SYSTEM TESTS



### System Tests

There are many different tests you can perform to ensure the system is working properly.



### Wi-Fi Test

Test the panel's connection to the wireless (Wi-Fi) network



### Sensor Test

Shows actual dBm signal strength of each sensor and graphs sensor events against the ambient noise floor of the environment



### Cellular Test

Test the panel's connection to the cellular network and Alarm.com



### Z-Wave Tests

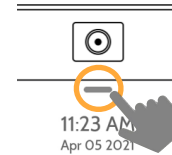
Test communication between devices and the panel. Rediscover network, counters, neighbor info, diagnostics & advanced diagnostics



### PowerG Test

Ping and receive signal strength from a PowerG sensor.

## FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



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SYSTEM TESTS

## SYSTEM TESTS



### Zigbee Test

See the last signal strength, average signal strength and battery voltage on Zigbee sensors. Requires a Zigbee daughter card be installed in order for this icon to appear



### Panel Glass Break Test

Test the panel's microphones to ensure proper sensitivity for built in Glass Break



### Dual Path Test

Verifies the Wi-Fi path is connecting to Alarm.com



### Daughter Cards Test

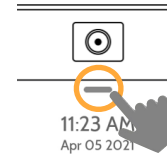
Tests the integrity of the installed daughter cards



### Panel Test

Runs through a complete test of the panel's running processes

## FIND IT



Swipe down  
for access



SETTINGS



ADVANCED SETTINGS



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SYSTEM TESTS



## WI-FI TEST



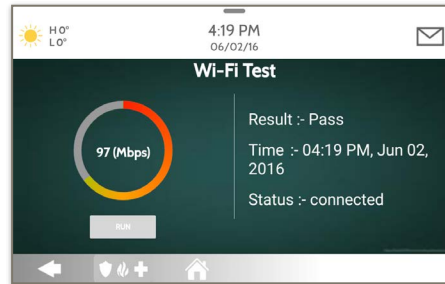
### Wi-Fi Test

The Wi-Fi test checks the IQ Panel 4's connection to your network (router). Before running this test, be sure to connect the panel to the network. See "customization" section for directions on connecting to Wi-Fi.



A successful test will result in a "pass" and indicates the date and time of the test along with connection speed.

To perform a Wi-Fi Test, touch the "Run" button.



**NOTE:** If test fails, please check your Wi-Fi settings.

## FIND IT

- Swipe down for access
- SETTINGS
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- ENTER CODE (1111, 2222)
- SYSTEM TESTS
- WI-FI TEST

## SENSOR TEST



### Sensor Test

Shows actual dBm signal strength of each sensor and graphs sensor events against the ambient noise floor of the environment. Also displays the traditional packet count method.

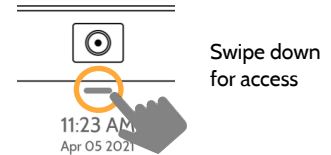
ZONE	NAME	AVERAGE DBM	LAST EVENT RESULTS (DBM) (PACKETS)		
1	Back Window	Strong (-43)	Strong (-47)	Perfect (16)	
2	Front Window	Strong (-31)	Strong (-33)	Perfect (8)	
3	Back Door	Good (-55)	Good (-55)	Excellent (7)	

Refer to page 99 for the sensor packet results table.

The Advanced Sensor Test shows a summary page of each sensor paired to the panel along with the average dBm level, the last event's dBm level and how many packets were received from the sensor.

Select the graph icon to the right of each sensor to view an individual sensor's graphed signal strength in real time.

## FIND IT



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



SYSTEM TESTS



SENSOR TEST

**NOTE:** For UL/cUL, perform a placement test first for all wireless initiating devices. The acceptable result shall be "Excellent".

## SENSOR TEST

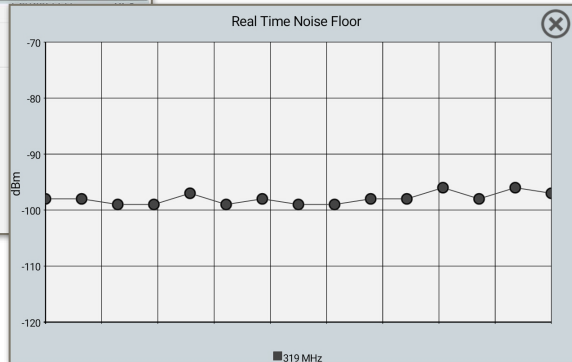


### Noise Floor

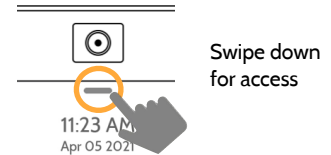
From the Sensor Test page select the “Settings” cog to view the “Real Time Noise Floor”. The noise floor represents the dBm threshold at which the panel can no longer sense signals from sensors.

ZONE	NAME	AVERAGE DBM	LATEST RESULTS (DBM) (PACKETS)	Settings
1	Versa	Strong (-58)	Strong (-61)	Clear All Sensor Data Real Time Noise Floor
2	Flow	Strong (-62)	Strong (-67)	
4	Front Door	Strong (-51)	Strong (-59)	

Lower dBm levels mean there is less noise or interference on the sensor’s specific operating band or frequency.



## FIND IT



- SETTINGS
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- SENSOR TEST

**NOTE:** Manufacturer recommended signal to noise ratio is min 7dB

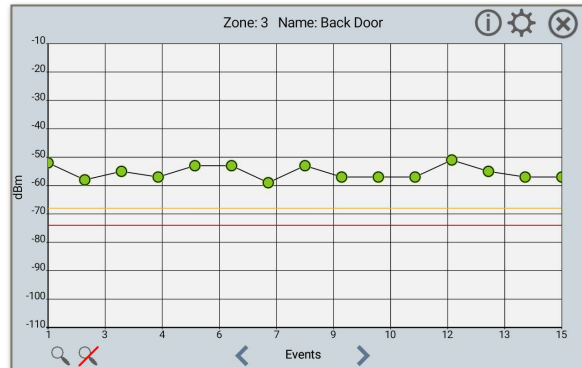
## SENSOR TEST

- Colored points on the graph represent each state change or supervisory signal transmitted from a sensor to the panel. Points are colored based on frequency.
- The **YELLOW** line represents a dBm level where signal strength is “Poor” and potential RF failures could occur. This line dynamically adjusts to 12 dBm above the ambient RF noise floor in the environment.
- The **RED** line represents a dBm level where signal strength is “Critical” and RF failures are likely. This line dynamically adjusts to 6 dBm above the ambient RF noise floor in the environment.

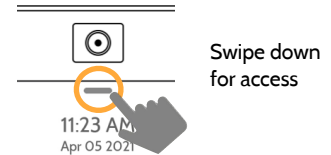
### TROUBLESHOOTING:

If a sensor falls below the yellow line, try changing its orientation (vertical/horizontal), move the sensor to a different part of the door/window or adjust the panel location.

Then re-test to see the if the result improved.



## FIND IT



- ⚙️ SETTINGS
- ⚙️ ADVANCED SETTINGS
- 👉 ENTER CODE (1111, 2222)
- ✅ SYSTEM TESTS
- 🛡️ SENSOR TEST

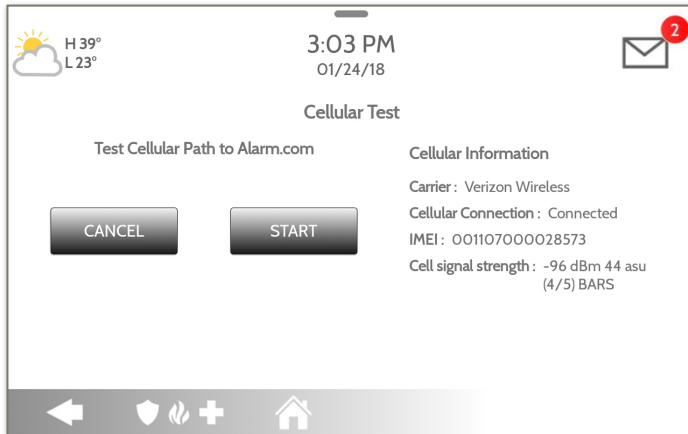
**NOTE:** Manufacturer recommended signal to noise ratio is min 7dB

## CELLULAR TEST



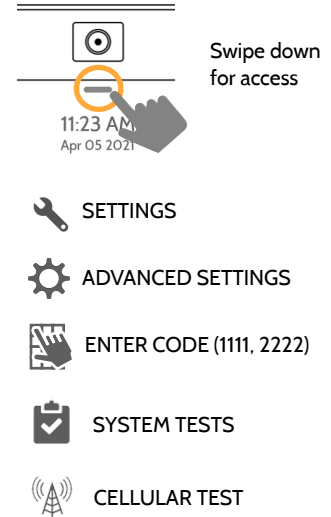
### Cellular Test

Test the panel's built-in cellular radio connection. You must first activate the radio through Alarm.com prior to running this test. Cell signal strength is only available after the test has been ran successfully.



To begin the test press "Start" and watch for the results on the screen.

## FIND IT



## Z-WAVE TESTS



### Z-Wave Test

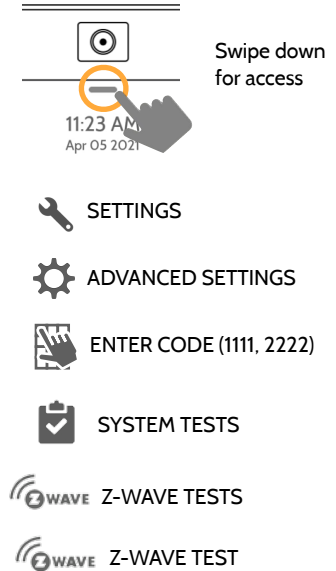
Test the connection between the panel and enrolled Z-Wave devices to ensure they are communicating properly.

To perform a Z-Wave Test, touch the “Run” button. A successful test will result in a “Pass” and a time stamp.

ID	TYPE	STATUS	TEST TIME	RESULT
2	Light	Normal		Run
3	Light	Normal		Run
4	Door Lock	Unreachable		Run

**NOTE:** If a test fails, relocate device, change batteries and/or rediscover network.

## FIND IT



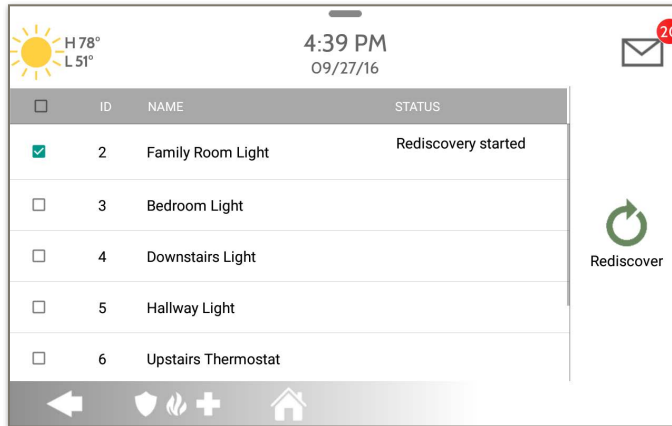
## Z-WAVE TESTS



### Rediscover Network

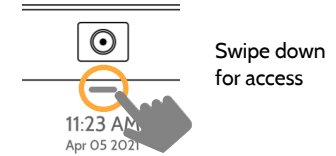
After installing or moving a Z-Wave device one should always “Rediscover the Network”. This re-maps the network and ensures all devices have the most efficient communication path leading back to the panel.

Select a single device or all and then select “Rediscover”. A result including a time stamp will appear under “Status”.



**NOTE:** If a test fails, relocate device, change batteries and/or rediscover network.

## FIND IT



- SETTINGS
- ADVANCED SETTINGS
- ENTER CODE (1111, 2222)
- SYSTEM TESTS
- Z-WAVE Z-WAVE TESTS
- REDISCOVER NETWORK

## Z-WAVE TESTS



### Neighbor Info

Use “Neighbor Info” to view which devices can “see” each other. The more neighbors a device can see means more possible routes back to the controller.

ID	NAME	NEIGHBOR INFO
2	Light	View
3	Bedroom Light	View
4	Front Door	
5	Thermostat	

Neighbor Nodes for Light (5)  
4 : front\_door

CLOSE

Touch “View” next to any device and a pop-up will appear listing its “Neighbor Nodes”

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- NEIGHBOR INFO



## Z-WAVE TESTS

## FIND IT



### Counters

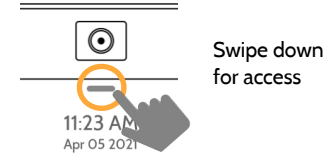
View a numerical representation of the Z-Wave network. View failed and acknowledged commands as a whole or from an individual device. A well designed network should have at least a 98% acknowledgment vs failed rate.

H 42°  
 L 18°  
 1:50 PM  
 01/25/18

Acked commands no auto route : 0  
 Acked commands auto route : 5434  
 Failed commands no ack : 1  
 Failed commands network failed : 0  
 Failed commands network not idle : 0  
 Failed commands network no route : 0

RESET ALL

ID	NAME	PASSED	FAILED	RESET COUNTERS
3	Light	2921	0	Reset
4	IO Outlet	2521	1	Reset



- SETTINGS
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- ENTER CODE (1111, 2222)
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- Z-WAVE Z-WAVE TESTS
- COUNTERS

## Z-WAVE TESTS

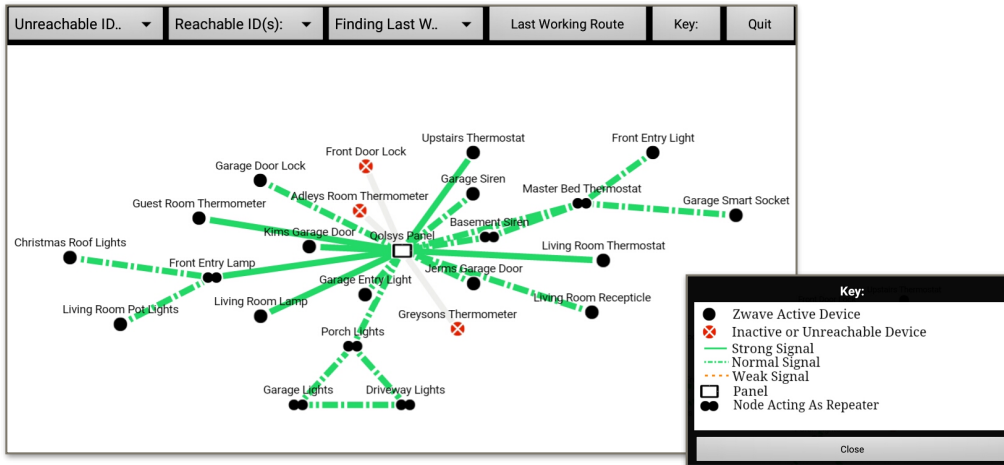
COUNTER	DESCRIPTION
Acked commands no auto route	Command was successful and acknowledged by the sensor; it did not use the normal automatic Z-Wave network route to execute the command for this device (command was re-routed on the Z-Wave network in order to succeed)
Acked commands auto route	Command was successful and acknowledged by the sensor; it used the normal automatic Z-Wave network route to execute the command for this device.
Failed commands network failed	Not possible to transmit data because Z-Wave network is busy (jammed). Command failed to execute.
Network failed	Not possible to transmit data because Z-Wave network is busy (jammed). Command failed to execute
Network not idle	Auto-routed command failed because Z-Wave network is not yet stable. Command failed to execute.
Network no route	Auto-routed command failed because there is no successful Z-Wave network route to the device. Command failed to execute
Reset All	Resets all counters back to 0 as to better diagnose the network
Details	Shows individual device details such as passed and failed commands. Here you can also reset an individual device's counter

## Z-WAVE TESTS

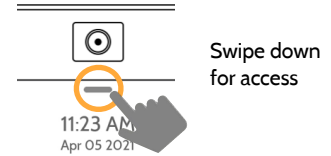


### Z-Wave Diagnostics

View a graphical representation of the installed Z-Wave network. View the network's or an individual device's last known working route. Use the Key chart to decipher which devices are repeating nodes, have a strong or weaker signal or perhaps need to be moved to another location.



## FIND IT



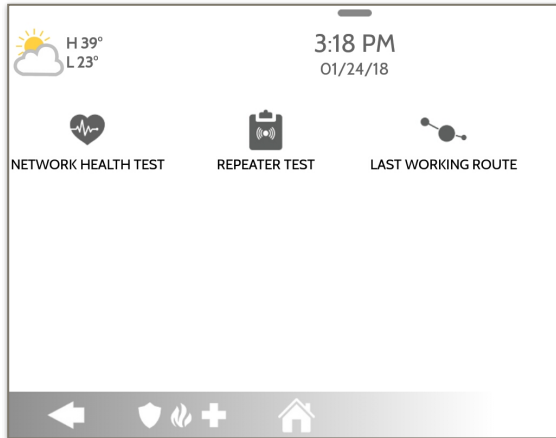
- SETTINGS
- ADVANCED SETTINGS
- ENTER CODE (1111, 2222)
- SYSTEM TESTS
- Z-WAVE Z-WAVE TESTS
- Z-WAVE DIAGNOSTICS

## Z-WAVE TESTS



### Advanced Z-Wave Diagnostics

Advanced Z-Wave diagnostics gives access to Network Health Test, Repeater Test & Last Working Route.



### Network Health Test

Shows the minimum, maximum & average node response times on the network



### Repeater Test

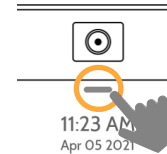
Tests the connection to dedicated Z-Wave repeaters on the network



### Last Working Route

Shows the last working route for a specific node on the network. Also allows you to set a static “sticky” route

## FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



SYSTEM TESTS



Z-WAVE TESTS



ADVANCED Z-WAVE DIAGNOSTICS

## POWER G TEST



### PowerG Test

Ping a PowerG sensor and receive back its signal strength. You can view the average signal strength over 24hrs as well as review the PowerG PIR CAM image.

NO	ID	NAME	STRENGTH		
9	241-0553	Basement Flood	Strong	Run	More
11	140-2234	PowerG Motion	Strong	Testing	

**Sensor Signal Info** [RUN]

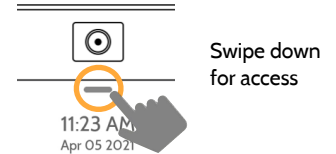
Sensor: PowerG Motion (11)  
 Current Strength: **Strong**  
 24 Hrs Strength: Not Available  
 Last Updated: 01:44 PM, Aug 06, 2018  
 Repeater: Not Applicable

[TEST LED] [TEST PICTURE]

**STRENGTH can be: Strong, Good, Poor or No Signal**

**Note:** for UL/cUL signal strength shall be "Strong"

## FIND IT



- SETTINGS
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- POWERG TEST

\*PowerG daughter card must be installed in the panel to access this test.

## ZIGBEE TEST



### Zigbee Test

See the last signal strength, average signal strength and battery voltage on Zigbee sensors.

NAME	LAST SIGNAL STRENGTH	AVERAGE SIGNAL STRENGTH	BATTERY
Zigbee Test	Strong (-30 dBm)	Strong (-52 dBm)	2.7 V

**STRENGTH can be:**

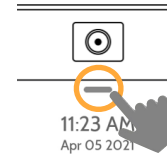
-Strong

-Good

-Poor

-No Signal

## FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



SYSTEM TESTS



ZIGBEE TEST

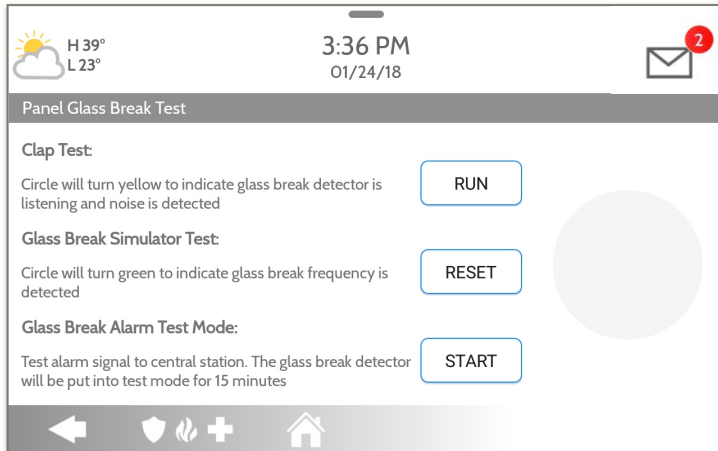
\* Requires a Zigbee daughter card be installed in order for this icon to appear

## PANEL GLASS BREAK TEST



### Panel Glass Break Test

Test the panel's microphones via a clap test or glass break test. This will ensure the built in detector and microphones are functioning properly when needed. Panel Glass Break must be enabled under Installer Settings to access this test.

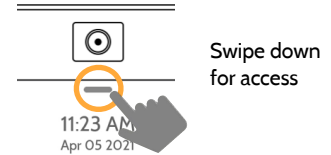







### Testing

Select "Run" to begin test. Circle will turn **YELLOW** when a successful clap test has been detected and Microphones are listening.

Circle will turn **GREEN** when the panel hears the proper glass break frequency being detected.

## FIND IT



-  SETTINGS
-  ADVANCED SETTINGS
-  ENTER CODE (1111, 2222)
-  SYSTEM TESTS
-  PANEL GLASS BREAK TEST

## PANEL GLASS BREAK TEST



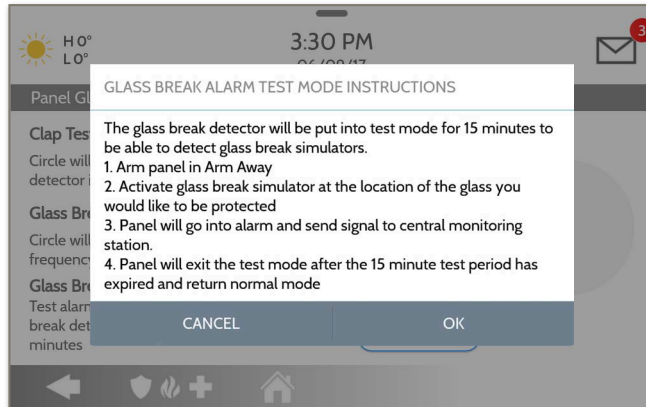
### Glass Break Alarm Test Mode

Selecting “Start” will enable a 15 min test mode that allows the panel glass break detector to be tripped using a glass break simulator. Once tripped an alarm will be sent to the central station. Follow the on screen instructions to ensure a proper test.

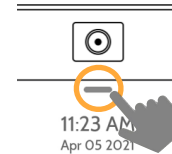
RUN

RESET

START



## FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



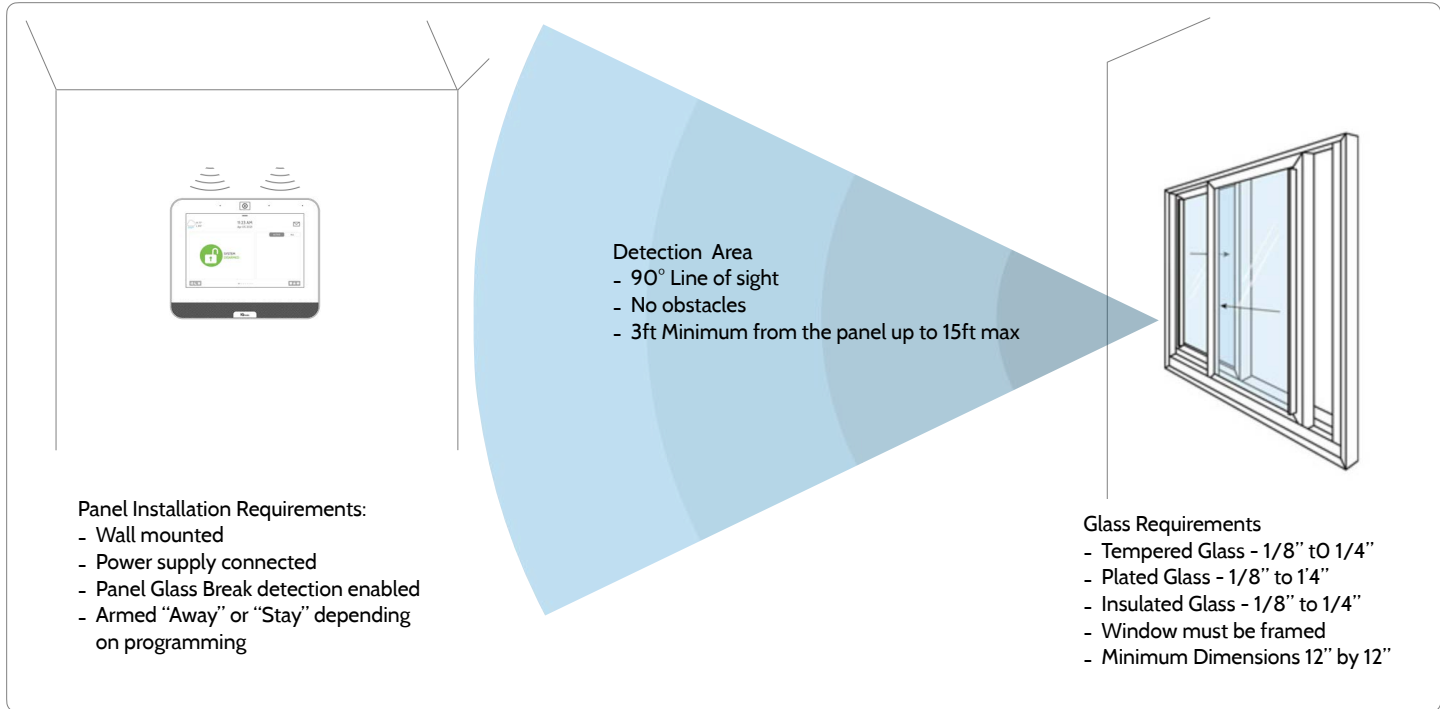
SYSTEM TESTS



PANEL GLASS BREAK TEST



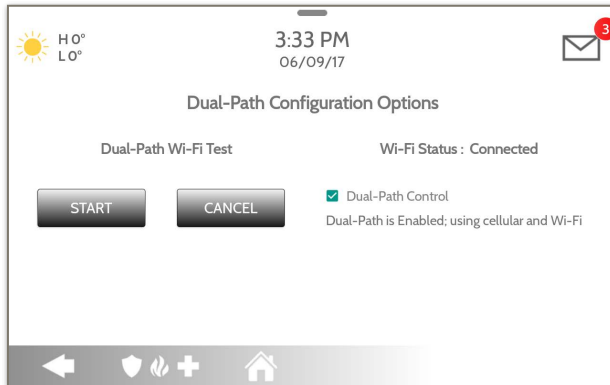
## PANEL GLASS BREAK DETECTION REQUIREMENTS



## DUAL PATH TEST



When enabled, dual path connectivity allows the IQ Panel 4 to use both cellular and Wi-Fi radios for signals and communication simultaneously.



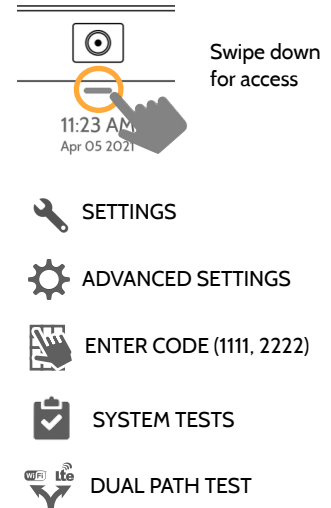
By default Dual-Path Control is enabled. To disable, “un-check” the box.

You can also run a Dual-Path Wi-Fi test to ensure that the Dual Path is connecting properly. Unlike the standard Wi-Fi test (which checks connection to the router) the panel will check the broadband connection to Alarm.com.

**NOTE:** The IQ Panel 4 must be connected to a Wi-Fi network to enable Dual Path

**NOTE:** IQ Panel 4 is compatible with the following UL/ULC listed monitoring station receivers: SG-System I/II/III/IV/5. Wi-Fi is for supplemental use only for UL/cUL

## FIND IT

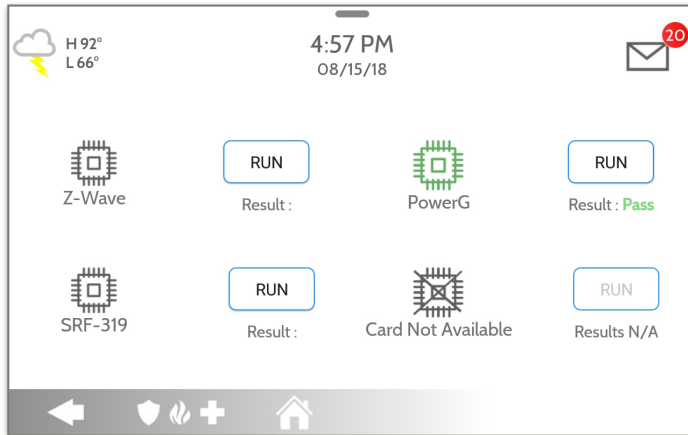


## DAUGHTER CARDS TEST



### Daughter Cards Test

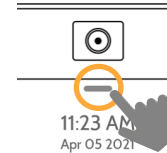
Tests the integrity of installed daughter cards . Slots not populated will be “greyed” out and inaccessible to test.



Select “Run” on an individual available card to start the test. In some cases the test may take several minutes after which the panel will show a result of a “Pass” or “Fail”.

If the test results in “Fail” double check the daughter card connection, reboot the panel and rerun the test again.

## FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



SYSTEM TESTS



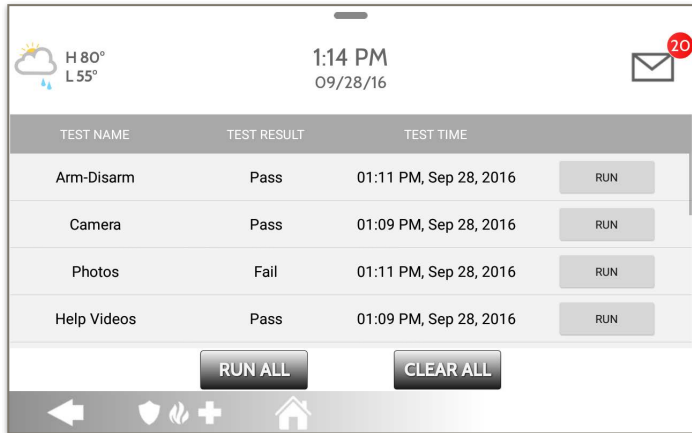
DAUGHTER CARDS TEST

## PANEL TEST



### Panel Test

Runs through and tests all panel processes either all at once or one at a time.

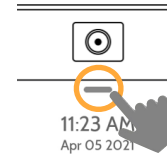


Select “Run” to perform an individual test or “Run All” to perform a test of all processes.

Running all tests at once will sound the siren.

Note: The Siren can be tested alone under the Panel Test menu, scroll down and select RUN

## FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



SYSTEM TESTS



PANEL TEST

# CUSTOMIZATION

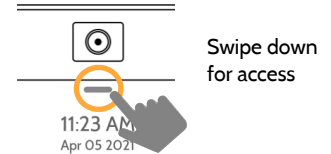
## USER MANAGEMENT







The IQ Panel 4 can hold up to 242 user codes. Only Dealer, Installer and Master user codes can create or edit user codes. Once a code is created, all information can be edited, except for the “User Type”.

User Type	Access Level	Partition Access
Dealer	All settings as well as Master Reset and access to change Dealer Contact information	All Partitions
Installer	All Settings	All Partitions
Master	All user-related features and Settings, including connecting to Wi-Fi, User Management, Sound App and Sensor customization	All Partitions
User	Arming/Disarming	A user may only access their assigned partition
Guest	Arming/Disarming	A user may only access their assigned partition
Duress	Disarming (but sends duress signal to security provider).	Each partition gets a unique Duress Code

## FIND IT



-  SETTINGS
-  ADVANCED SETTINGS
-  ENTER CODE (1111, 2222)
-  USER MANAGEMENT

**NOTE:** When “6 Digit User Code” is ENABLED a “00” will be appended to all existing 4 digit codes

## DEALER BRANDING\*



### Dealer Branding

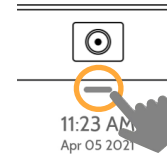
Here you can customize the Dealer Contact info.



### Contact Info

Edit Dealer Name, Email,  
Phone #, Zip Code, Website  
and Tag lines

## FIND IT



Swipe down  
for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (2222)



DEALER BRANDING

\*This page available only through the  
Dealer Code

## DEALER BRANDING\*

## FIND IT



### Contact Info

Customize your contact info and determine what you'd like to be displayed in "Contact Us", located on the right side of the "Home Screen" header. Dealer Contact fields allow up to 50 characters, Tag Line 2 allows up to 50.

Dealer Name	ABC Security	Email	jondoe@abcsecurity.com
Tag Line 1	Automation & Security	Web	www.ABCsecurity.com
Tag Line 2	Atlanta's Preferred	Installation location ZIP Code	84008
Phone	(798) 123-4567		

### Example:

**ABC Security**  
**Automation & Security**  
**Atlanta's Preferred**  
**798-123-4567**  
**jondoe@abcsecurity.com**  
**ABCSecurity.com**  
**84008**



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (2222)



DEALER BRANDING



CONTACT INFO

\*This page available only through the Dealer Code



## CONNECTING TO WI-FI



To connect to a Wi-Fi network, follow the steps below:

Swipe down from the top menu bar and select settings.



Touch Advanced Settings (Installer Code)



Then touch “Wi-Fi”



Enable Wi-Fi if not already active

Available networks appear in a list. Touch the desired network and use the keyboard to type the password (if required)

### Activate WIFI



Qolsys-5G  
Connected



Now Communications



Qolsys



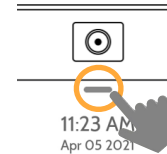
Sunset Room



Vertical Ops 2.4

+ Add wi-fi network

## FIND IT



Swipe down  
for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



WI-FI

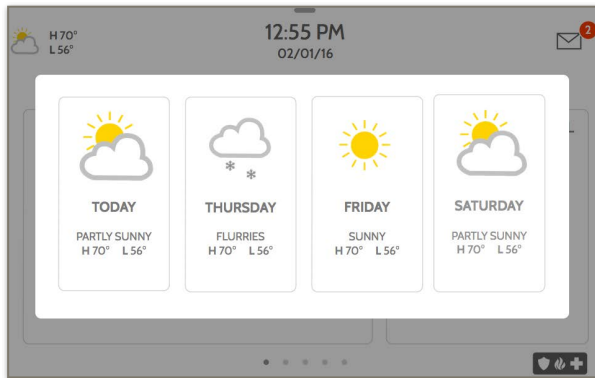
## WEATHER



H 36° L 20°

### TODAY'S FORECAST

Today's forecast is displayed on the weather icon with a graphical representation of precipitation and High and Low temps.



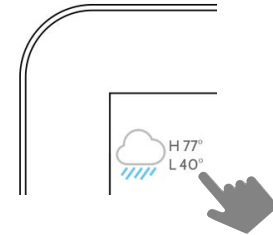
### 4-DAY FORECAST

Touch the weather icon to get a 4-day forecast. This information is updated once daily via Alarm.com services. (Will not display or update weather connected to wifi only)

### LOCATION

Weather reporting is based on location as indicated by the zip code entered into Alarm.com when the account is created.

## FIND IT



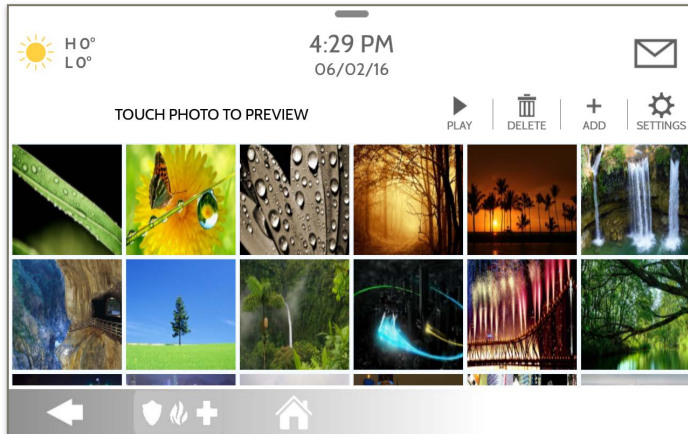
Touch the weather icon in the upper left corner of the header to reveal a 4 day forecast

## PHOTO FRAME



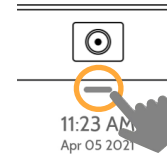
### PHOTO FRAME

The IQ Panel 4 can be set to display digital photos when not in use. This feature, called “Photo Frame”, can be changed or turned off through “Photo Frame Settings”. (Swipe down from the menu bar).



**Display type**  
Choose a display type for your photo frame. Opt to turn it off completely, scroll through pre loaded images or view a “weather clock”

## FIND IT



Swipe down  
for access



PHOTO FRAME

## PHOTO FRAME APP BUTTONS



PLAY

**PLAY:** Starts Photo Frame immediately. Good for testing photo frame feature appearance and transitions



DELETE

**REMOVE PHOTOS:** Allows you to remove photos one by one or all at once



ADD

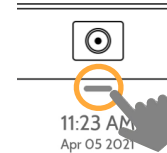
**ADD PHOTOS:** Download one of several “Wi-Fi” photo sets using your panel’s WiFi connection. If you are using an Android device, you can transfer photos to the IQ Panel using Bluetooth.



SETTINGS

**SETTINGS:** Change the Photo Frame’s “Display Type” from Off to On or enable a “Weather Clock” screen saver. Change transitions, adjust display time, set automatic on/off times and more

## FIND IT



Swipe down  
for access

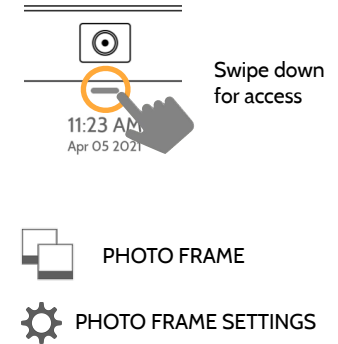


PHOTO FRAME

## PHOTO FRAME SETTINGS

## FIND IT

Item	Default	Description
Duration	1 minute	How long each image will show before transitioning to the next image in the library (1, 2, or 5 minutes)
Effect	Dissolve	Transition effect used between each image (fade to black, dissolve)
Shuffle	Enabled	Display pictures in random or sequential order
Display Type	Photo Frame	Choose what to display on the screen when the panel is not in use. (Off, Photo Frame and Weather Clock)
Photo Frame Start Time	10 minutes	Choose the amount of time to wait after the last touch before starting the selected display type. (1, 5, 10, 15, 20, 25, or 30 minutes)
Nighttime Mode Start Time	11:00 PM	Determines the time when the display, voices or chimes shutdown completely. (Use this feature to turn off the LCD, voices and/or chimes at night)
Nighttime Mode End Time	6:00 AM	Determines the time when the display, voices or chimes "wake up" after sleeping. (Use this feature to turn the LCD, voices and/or chimes back on in the morning)
Nighttime Mode Settings	Display	Choose what the Nighttime Mode Start/End times have the ability to control (Display, Voices and/or Chimes)



# **MAINTENANCE**

## UPGRADE SOFTWARE

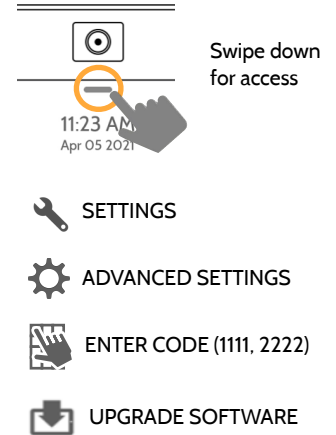


### Upgrade Software

Upgrade the panel's software version using Wi-Fi.

Setting	Description
Upgrade Using Network	Search the network for updates and install new software <b>NOTE:</b> For UL/cUL, remote software uploading is not allowed
Upgrade Using Access Point	Connect to the Panels' built-in Access Point to install new software
Patch Tag	A code corresponding to a specific software update on the server
Automatic Background Check and Download	Allows the panel to check for new software in the background and download it to local storage so that it can be applied at a later date. Default <b>Enabled</b>
Automatic Check Interval	Determines interval the IQ Panel 4 will look for software update. Available options are Every Night, Once a Week, Once a Month. Default <b>Once a Week</b>

## FIND IT



**NOTE:** Proper maintenance requires prompt administration of any software updates

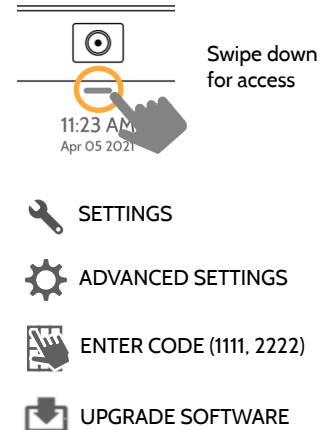
## UPGRADE SOFTWARE USING WI-FI

Keeping your panel up to date is essential in ensuring it receives the newest features and is free from bugs.

To perform a software update using Wi-Fi follow the steps below:

- 1- Ensure your panel is connected to Wi-Fi and has an internet connection.
- 2- From the drop down menu select "Settings" then "Advanced Settings". (Installer/Dealer Code)
- 3- Touch "Upgrade Software"
- 4- Touch "Upgrade Using Network" The IQ Panel 4 will check for the latest software update. If your panel is up to date you will see a message confirming that you have the most recent software version.
- 5- If a software update IS available the panel will automatically begin downloading it.
- 6- Once the download is complete a pop up message will appear informing you that in order to install the software you must restart the panel. Touch "OK." Your panel will install the update and automatically restart.

## FIND IT



**NOTE:** For UL/cUL the remote software feature shall not be used and the panel shall not be setup to remotely upgrade.

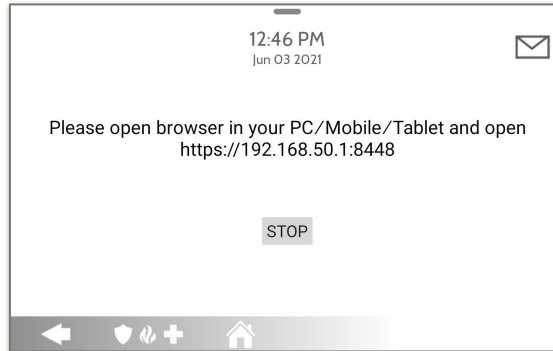


## UPGRADE SOFTWARE USING ACCESS POINT

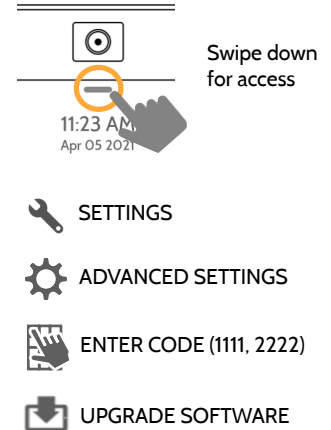
Most updates are downloaded over Wi-Fi, but in the event that Wi-Fi is not present at the installation site, a Panel can be updated with files transferred from a local device (phone, tablet, computer, etc) via the built-in Panel Access Point.

To perform a software update using the Panel Access Point follow the steps below:

- 1- Download the needed software update files from the Dealer Portal to your device (phone, tablet, computer).
- 2- Turn on the Panel AP and connect your device to the network it broadcasts.
- 3- Go to Settings/Advanced Settings/Upgrade Software then touch "Upgrade Using Access Point".
- 4- Press "Start" to begin the local server session, then from your device, navigate to the "https" site shown on the Panel screen.
- 5- Follow the prompts on your device screen to select the correct files and transfer them to the Panel.



## FIND IT



**NOTE:** For UL/cUL the remote software feature shall not be used and the panel shall not be setup to remotely upgrade.

## AUTOMATIC BACKGROUND CHECK AND DOWNLOAD

Turning on Automatic Background Check & Download enables the panel to check for a new software version based on the Automatic Check Interval (default is Once a Week).

From the drop down menu select "Settings"

"Advanced Settings": (Installer/Dealer Code)

Touch "Upgrade Software"

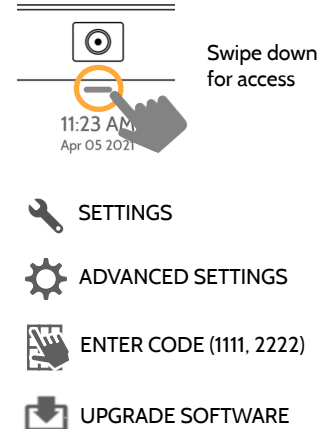
Make sure the "Automatic Background Check and Download" button is checked.

Change update interval by selecting "Automatic Check Interval"

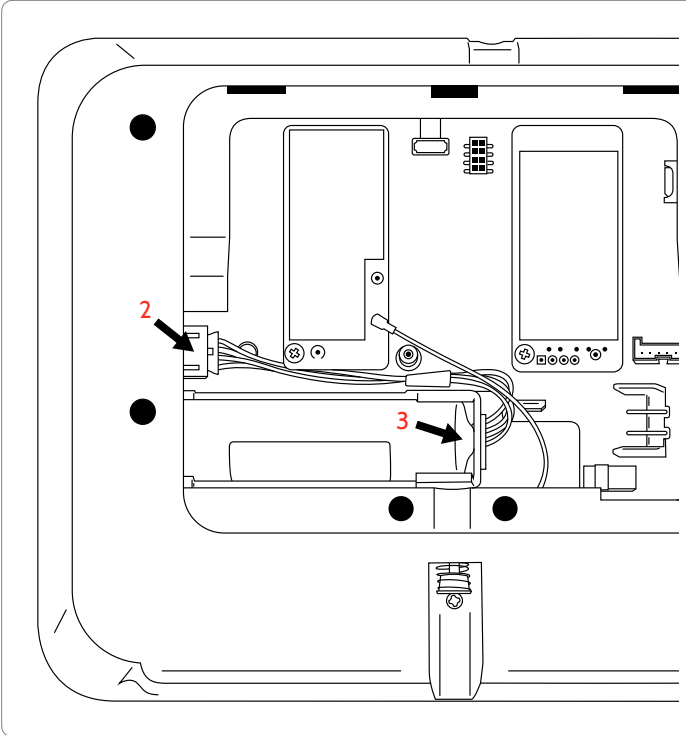


**QUESTIONS?** Contact us at [techsupport@qolsys.com](mailto:techsupport@qolsys.com)

## FIND IT



## BATTERY REPLACEMENT **NOTE:** This device and Lithium Battery shall be recycled and disposed of in accordance with US Regulations and Laws and European Directives including any other National and Local Regulations and Laws



1. **Power down panel:** Go to Settings/Advanced Settings and enter the Installer/Dealer/Master code, then select “Power Down”
2. **Unplug Battery Connector:** Once the panel is powered down, unplug 4 pin battery connector from the board.
3. **Remove Battery:** Pull up on the edge of the battery with your finger to release it from the plastic hold down.
4. **Install New Battery:** Press the battery into place. Route the cable between the battery and the daughter cards. Plug the 4 pin connector back in and power the panel back up.

**CAUTION:**  
 Do **NOT** use a screwdriver or anything sharp that could puncture the battery.  
 Do **NOT** pull on the battery cable to try and remove battery.

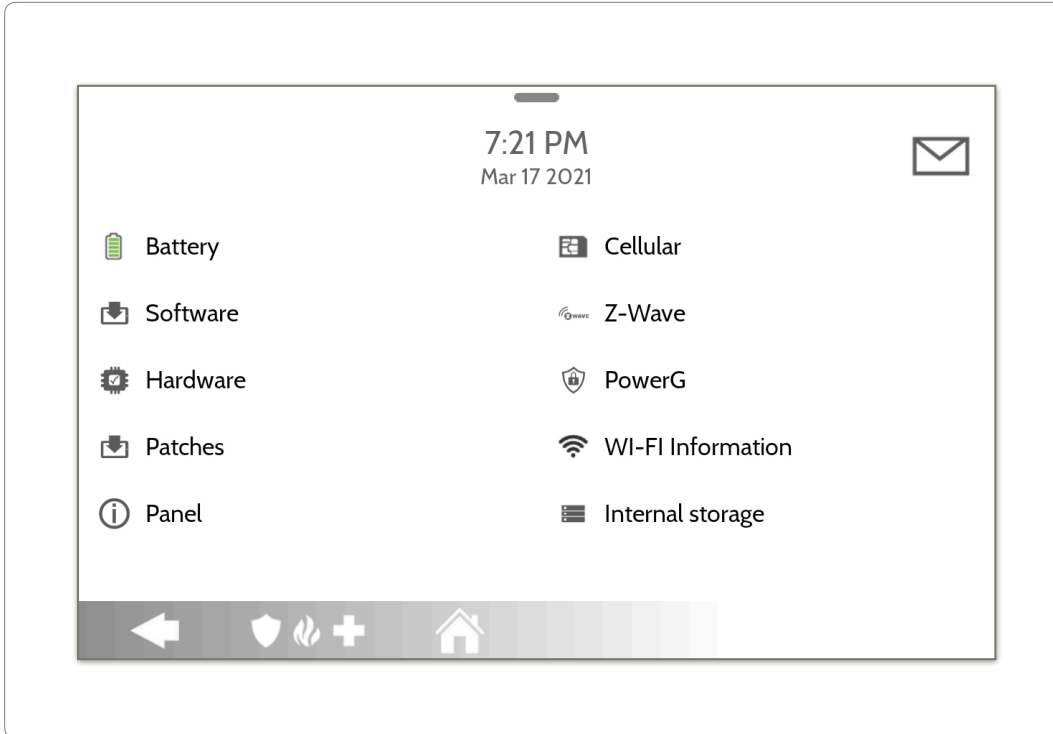
## BATTERY REPLACEMENT

**WARNING:** The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not disassemble, heat above 60°C, or incinerate. Replace battery with Icon Energy Systems (Shenzhen) Co Ltd, Model IANO34NA or Ningbo Veken Battery Co. Ltd., Model VT27 only. Use of another battery may present a risk of fire or explosion.”

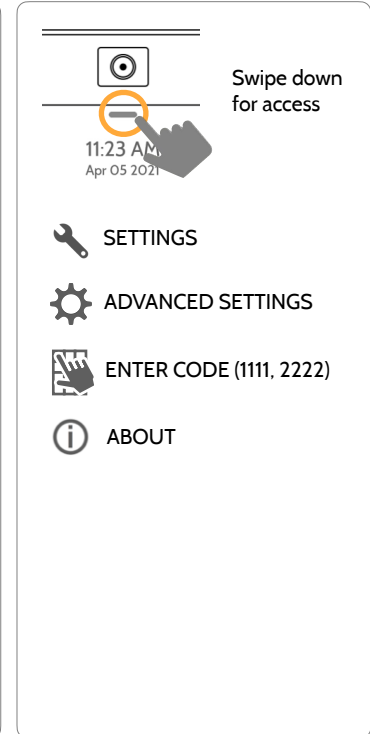
**WARNING:** Dispose of used battery promptly. Keep away from children. Do not disassemble, do not crush and do not expose of in Fire. Do not leave battery in extremely low air pressure.

# TROUBLESHOOTING

## ABOUT



## FIND IT



## ABOUT

Item	Description	
Battery	Battery Status: Disconnected, Charging, Full	Battery Level: Displayed in %
Software	Software Version: Current Software Version Build Number:	Linux Version: Android Version:
Hardware	Hardware Version: Manufacturer: Qolsys Inc. San Jose, CA PCA Serial #: Part #: System Configuration:	System Serial #: RF PIC Version: EEPROM Format Version:
Patches	Patch Description: Details of all previous patches applied	Last Upgrade Date:
Panel	MAC Address:	Panel Up Time:
Cellular	Carrier: Current Carrier Cellular Connection: no signal, registered etc. Cellular Signal Strength: x/6 bars, (xx/xx) internal IMEI: Alarm.com radio number	IMSI: Carrier Sim Information ICCID: Carrier Sim Information Baseband Version: Configuration Version:

## ABOUT

Item	Description	
Z-Wave	Home ID: Z-Wave Firmware Version: Z-Wave API Version:	Manufacturing ID: Product Type: Product ID:
PowerG	Modem Firmware Version Modem Build Number Radio Firmware Version	Radio Software ID PowerG RF Band
Wi-Fi Information	Connection: Connected/Disconnected IP Address: Panel's IP Address when connected SSID: Network panel is connected to	Speed: Connection speed shown in Mbps Internet: Can the panel communicate outside the home. Available/Unavailable
Internal Storage	Total Space: Total space shown in GB Available Space: Space available for media Photos: Breakdown of space used for photos	Videos: Breakdown of space used for videos Logs: Space used for storing panel logs
Zigbee	Zigbee Version: Zigbee Card EUI:	Zigbee Build Version:



## POWER DOWN

DO NOT remove all power without following the steps below. In the event of needing to move the panel from one location to another it is safe to unplug the power supply while leaving the battery plugged in.

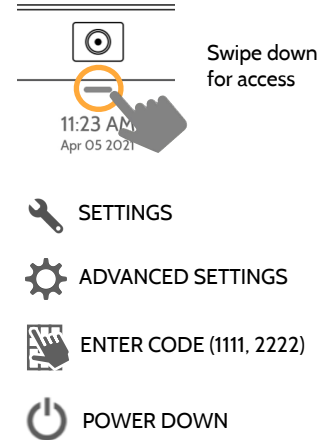
1. From the drop down menu select “Settings”.
2. Select “Advanced Settings” then enter your installer code
3. Select “Power Down”
4. Wait for panel LED to turn off
5. Disconnect the power

**IMPORTANT: Failure to perform these steps in the proper sequence may result in data corruption and/or panel failure.**



**QUESTIONS?** Contact us at [techsupport@qolsys.com](mailto:techsupport@qolsys.com)

## FIND IT



## PANEL REBOOT

If the panel is experiencing difficulties you can often resolve it by resetting the operating system.

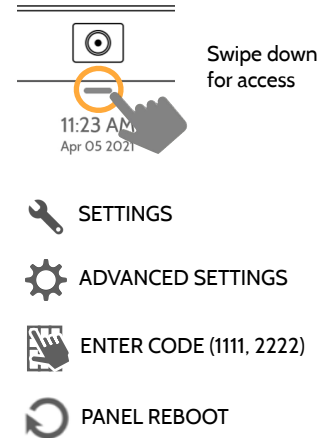
1. From the drop down menu select “Settings”.
2. Select “Advanced Settings” then enter your installer code
3. Select “Panel Reboot”
4. Wait for the panel to restart

**IMPORTANT: Failure to follow these steps properly may result in data corruption and/or panel failure.**

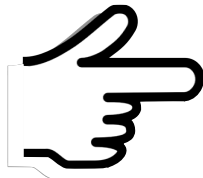


**QUESTIONS?** Contact us at [techsupport@qolsys.com](mailto:techsupport@qolsys.com)

## FIND IT



## HARD REBOOT



**x 30 sec**

**IMPORTANT:** Performing a hard reboot may result in data corruption and/or panel failure. Only use this when absolutely necessary.



**QUESTIONS?** Contact us at [techsupport@qolsys.com](mailto:techsupport@qolsys.com)

## PANEL TEST TROUBLESHOOTING

If you run a panel test and it fails, use the following steps to fix the issue.

Test	Description	If fails:
Arm-Disarm	Tests the arm/disarm operation	Reboot panel, run test again then if necessary perform a master reset and repeat test
Camera	Tests panel camera operation	Reboot panel, run test again then if necessary perform a master reset and repeat test
Photos	Checks that photos are loaded in the photo frame app	1) Go to Settings -> Photo Frame -> Add Photos 2) Add photos from Wifi photo sets
Help Videos	Checks help videos are installed in the panel.	1) Load Help Videos with a Patch Tag
Battery	Checks panel battery health	1) Make sure the battery is connected 2) If test continues to fail, replace the battery
LED Green/Red	Check panel LED operation	1) Reboot the panel and run the test again 2) Master reset and repeat test

## PANEL TEST TROUBLESHOOTING

Test	Description	If fails:
Panel Tamper	Check panel Tamper state	<ol style="list-style-type: none"> <li>1) Check to ensure backplate is secure and installed properly.</li> <li>2) Repeat test.</li> </ol>
AC Status	Check panel AC power status	<ol style="list-style-type: none"> <li>1) Inspect the wire leads are secure and properly connected on the terminal block and adapter.</li> <li>2) Repeat test.</li> </ol>
Internet Connection	Check panel's Internet connectivity	<ol style="list-style-type: none"> <li>1) Go to Wifi Setting page. Enable Wifi and connect to a Wifi Network</li> <li>2) Make sure Internet is available on the home router. You can check internet information in the "About" section.</li> <li>3) Contact your network service provider on continued internet connectivity failure.</li> </ol>
Wi-Fi	Tests whether panel is connected to Wifi network	<ol style="list-style-type: none"> <li>1) Go to Wifi Setting page and enable wifi.</li> <li>2) Connect to a Wifi Network</li> </ol>
Upgrade Service	Checks that the panel can receive updates from the Qolsys servers	<ol style="list-style-type: none"> <li>1) Verify internet and Wi-Fi connections.</li> </ol>
Z-Wave	Check panel's Z-Wave module operation	<ol style="list-style-type: none"> <li>1) Reboot the panel and repeat test.</li> <li>2) Master reset and repeat test</li> </ol>
Sirens	Check that the panel's siren is functioning properly (Burglar, Auxiliary, Fire & CO).	<ol style="list-style-type: none"> <li>1) Verify the siren is plugged in</li> </ol>

# LEGAL

## UL/cUL RESIDENTIAL FIRE & BURGLARY INSTALLATIONS

This product has been tested and found in compliance with the following standards: UL1023 Household Burglar-Alarm System Units, UL985 Household Fire Warning System Units, ULC-S545 Residential Fire Warning Systems Control Units and ULC-S304 Security Level I Control Units, Accessories and Receiving Equipment for Intrusion Alarm Systems. For ULC Installations refer to the Standard for the Installation of Residential Fire Warning Systems, CAN/ULC-S540:

- Use only the compatible power supply referenced in this Installation Manual. 24 h standby power must be provided for fire applications and 4h for burglary only applications (AC trouble must be transmitted to SRC within 60 minutes).
- Priority of signals on the Panel is set as Fire, CO, Burg, Panic, Aux and then Flood.
- Use at least one compatible listed Smoke Detector for Fire Installations.
- The entry delay shall not exceed 45 sec (UL) and 180 sec (ULC Security Level 1).
- The exit delay shall not exceed 120 seconds (UL).
- The control panel supports the Temporal 3 pattern for fire alarm notification
- Test transmission cycle shall be set for 7 days transmission for Residential Fire applications, or 30 days for Residential Burglary only applications.
- If Wireless Repeater is required to be employed with a RF Smoke Detectors or CO Detectors, two repeaters must be installed to cover EACH Smoke Detector and/or EACH CO detector.

## UL/cUL RESIDENTIAL FIRE & BURGLARY INSTALLATIONS

**Note:** For ULC Residential Fire and Burglary (ULC-S304 Level I) installations set for daily test transmission, Wireless Supervision window shall be set to 2 hours for UL/ULC Residential Fire Installations. Wireless Supervision window shall be set to 12 hours for Residential Burglary Installations only. RF Jam detection shall be enabled.

For UL 985 6th Ed. Compliant installations using also the Wi-Fi connection, ensure Power for network equipment such as hubs, switches, routers, servers, modems, etc., is backed up or powered by an uninterruptible power supply (UPS), standby battery or the control unit, capable of facilitating 24 h standby

**Note:** For UL residential fire and burglary applications, it is required to use UL listed compatible siren models PG9901 or PG9911 to provide mandatory local notifications for fire and burglary alarms. The integral sounder is considered for supplementary use only. Zigbee card shall not be installed.



## UL/ULC COMMERCIAL BURGLARY INSTALLATIONS

This product has been tested and found in compliance with the following standards: UL2610 Central Station Burglar-Alarm Units and ULC-S304 Control Units, Accessories and Receiving Equipment for Intrusion Alarm Systems, Security Levels I-II.

The subscriber control unit shall provide for the connection of protective wiring, conductors, and attachments in accordance with the Standard for Installation and Classification of Burglar and Holdup Alarm Systems, UL 681 in USA and in accordance with ULC-S301, CSA C22.1, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations and ULC-S302 Standard for the Installation, Inspection and Testing of Intrusion Alarm Systems, in Canada.

**Note:** The product is not intended for installation outdoors or outside the protected premises.

This product is UL/ULC listed under the following categories: AMCE/AMCX7 Central Stations Alarm Units, UTOU/UTOU7 Control Units and Accessories, Household System Type NBSX/NBSX7 Household Burglar Alarm System Units. Zigbee card shall not be installed. For further information on this product's listings please also refer to the official listing guides published at the UL website ([www.ul.com](http://www.ul.com)) under Online Directory Section.

### Programming:

The notes in the Installation Manual describing the system configurations for UL/uLC listed installations shall be implemented. RF Jam detection shall be enabled. Panel Siren is for supplementary use.

Use only PowerG sensors listed in "Supported PowerG Sensors" on page 176 of this installer manual for UL/ULC Commercial Burglary installations. Hardwire input zones cannot be used in UL/ULC Commercial Burg installations. Partitions have not been evaluated for UL/ULC Commercial Burg installations. Require valid user code to arm this system must be enabled.

## UL/ULC COMMERCIAL BURGLARY INSTALLATIONS continued...

UL2610 Central Station with Standard or Encrypted Line Security Service and ULC-S304 Security Level I-II/A3 Active communication channel:

- The installation must use the integral cellular communicator, which sends events over Cellular Data Network to the compatible Sur-Gard System I/II/III/IV/5 receiver.
- The communication path supervision window is set to 180s with 90s heartbeat and the compromise detection takes place within 3 minutes. The panel is using encrypted line security AES256. NIST certificate C668.
- Wireless Supervision window shall be enabled and set to 2 hours
- Open/Closing acknowledgment shall be enabled
- For ULC-S304 compliant installations using also the Wi-Fi connection, ensure Power for network equipment such as hubs, switches, routers, servers, modems, etc., is backed up or powered by an uninterruptible power supply (UPS), standby battery or the control unit, capable of facilitating 24 h standby.
- The entry delay shall not exceed 60s (UL) and 60s (ULC Security Level II).
- The exit delay shall not exceed 60s (UL) and 45s (ULC Security Level II).

Note: For UL certified Commercial Burglary Central Station applications the IQ Panel 4 provides an acknowledgment signal to the user interface to confirm that a normal closing signal has been received once the system has been armed. The device causes an audible and visual indication, when it receives the acknowledgment signal transmitted from the monitoring station compatible receiver: "Panel - Arming Response from Central Station is Acknowledged"

## UL/ULC COMMERCIAL BURGLARY INSTALLATIONS continued...

### Protection of the Control Unit:

The local control unit and the local power supply must be protected in one of the following ways:

- The control unit and audible alarm device must be in a protected area which is armed 24 hours a day.
- Each partition must arm the area protecting the control unit and the audible alarm device power supply. This may require duplicate protection armed by each partition. Access to this protected area, without causing an alarm, will require that all partitions be disarmed.
- In all cases described above, the protected area for the control unit must be programmed as not-bypassable

For installations employing packet switched (network) communications such as Cellular/Wi-Fi the following recommendations shall be followed:

- Select the Internet Service Providers that have redundant servers/systems and Back-up power.
- Routers shall have Firewalls enabled and methods to identify and protect against “Denial of Service” attacks (i.e. via “spoofing”).
- For UL Commercial Burglary applications the loss of communication with the monitoring station shall be treated as an alarm condition by monitoring station personnel when the burglar alarm system is in the armed state, and as a trouble condition while the system is disarmed. Packet switched data network (PSDN) interface equipment, manufactured by other than the burglar alarm equipment manufacturer, that is not provided with the burglar alarm system and/or not required for the processing of the signals shall be evaluated to the applicable requirements of the Standard for Information Technology Equipment - Safety - Part 1: General Requirements, UL 60950-1, or the Standard for Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements, UL 62368-1, as communication equipment. Any network interface device which adds value or manipulates the original data packet such as changing transmission formats, adding encryption, and the like, shall comply with the applicable requirements noted in this standard.

## UL/ULC COMMERCIAL BURGLARY INSTALLATIONS continued...

### User Information:

- The installer should advise the user and note in the User's Manual
- Service organization name and telephone number
- The programmed exit and entry time
- Instructions to test system weekly
- Note that the installer code cannot arm or disarm the system
- The installer should caution the user not to give system information (e.g., codes, bypass methods, etc.) to casual users (e.g., service people) and to only give out codes set to expire within 24 hours
- Identification of the conditions that might be expected to result in false alarms or impaired operation of the product(s): arming the system and not respecting the exit delay, entering the protected premises and not respecting the entry delay for disarming the system can cause false alarms.

## FCC & ISED CANADA COMPLIANCE STATEMENT

This Class [B] digital apparatus meets all requirements of the Canadian Interference–Causing Equipment Regulations.  
Cet appareil numérique de la classe [B] respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

**IMPORTANT!** Changes or modifications not expressly approved by Qolsys Inc. could void the user's authority to operate the equipment.

**CAUTION!** This equipment complies with radiation exposure limits set forth for uncontrolled environment. The antenna(s) used for these transmitters must be installed to provide a separation distance of at least 27 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. 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.

## FCC & ISED CANADA COMPLIANCE STATEMENT continued...

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## FCC & ISED CANADA COMPLIANCE STATEMENT continued...

### Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 27 cm de distance entre la source de rayonnement et votre corps.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
3. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Cet appareil est conforme à la norme RSS-247 d'Industrie Canada. L'opération est soumise à la condition que cet appareil ne provoque aucune interférence nuisible.

Cet appareil et son antenne ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur, exception faite des radios intégrées qui ont été testées.

## ADDITIONAL LEGAL INSTRUCTIONS

### Recycling and Disposal:



Dispose in accordance with applicable legislation. This product must be disposed of separately from general household waste. Take it to a designated waste collection point in your area for safe disposal or recycling in accordance with US and Canadian National, Regional, State and Local Regulations and Laws. By doing this, conservation of natural resources, protection of the environment and human health occurs.



# SPECIFICATIONS

# SPECIFICATIONS



Items	Parameters	IQ Panel 4
Platform	Android OS	Android 9
LCD Display	Size	7" LCD
	Resolution	1280 x 800 pixels
	Brightness	300 cd/m2
	RGB Color	24bit, 16.9 million colors
Processor	8 Core	Qualcomm Snapdragon 8 Core SOM (System On a Module) with 16 GB of NAND Flash
Touchscreen	Type	Capacitive glass multi-touch
User Codes	Up to 242	Role based (Dealer, Installer, Master, User, Guest, Duress)
Network	WiFi	Wi-Fi 802.11 a/b/g/n/ac dual band 2.4/5ghz - including built-in router capability
	Cellular	LTE CAT4 (Bands 2/25, 4/66, 5/26, 7, 12/17, 13, 14 (non-First Net))
Z-Wave Plus 700	Up to 137 Devices	137 total devices (80 lights, 20 Locks, 10 Thermostats, 21 Misc, 6 Garage Doors)
PowerG	Up to 128 devices	915 MHz, long range, secure encrypted two-way wireless
Security RF		Depending on the model; either S-Line encrypted 319.5MHz, 345MHz or 433MHz
Bluetooth	Disarming, Audio Streaming	Qualcomm Bluetooth Low Energy (BLE) 4.2
Flash Memory	Internal Storage	16GB NAND Flash

# SPECIFICATIONS



Items	Parameters	IQ Panel 4
LED Indicator	Status LED	Green (Disarmed), Red (Armed), Triple full color RGB LED
Speakers/Siren	4w x 4	QuadSound 4x Front Facing 4watt speakers and 85dB siren
Camera	Front Camera	8MP wide angle 120° field of view, fixed focus camera with FlexTilt adjustment
Microphone	MEMs x 3	3 MEMs (micro electro mechanical system) Microphones with echo cancellation
Tamper	Tamper Switch	Dual Panel and wall tamper switch with spring release
Battery	Type 18650	Lithium Ion 3000mAh. Ningbo Veken Battery Co., Ltd, Model VT27 or Icon Energy System Co. Ltd, Model IANO34NA
Buttons	Hard Button	Single wake/sleep button used for sleep/wake, hard reboot, and clean screen cancel
Mechanical	Dimension	6.1"H x 7.5"W x 1"D (155mm x 191mm x 26mm)
Power Supply	AC/DC External Plug-in Adapter	Output: 7vDC 1000mA CC, Input 100-240VAC 50/60Hz. Adapter evaluated at 120vAC for UL/cUL
Mount	Back Plate	SmartMount wall mount included. SmartMount table stand or SmartMount IQ Base table stand with built-in subwoofer sold separately.
Certification	UL/cUL/ULC	UL/cUL Residential Fire and Burglary and UL/ULC Commercial Burglary Alarm Control Unit. Compliant with standards: UL985, UL1023, UL2610, ULC-S545, ULC-S304
	FCC	2AAJXQS-IQP4 (may contain additional modules with separate FCC ID's)
	IC	11205A-QSIQP4
	IFETEL	ANCE Certificado No.: Reserved
Temperature	Operational	0 to 49C, up to 93% relative humidity, indoor, dry ordinary locations use only
	Storage	-20 to 50C

# SUPPORTED S-LINE SENSORS



Detector Type	Model
IQ Door/Window-S	QS1133-840 <sup>UL</sup> , (UL Listed M/N: 60-362N-10-319.5), QS1135-840, QS1136-840, QS1137-840
IQ Motion-S	QS1230-840 <sup>UL</sup> , (UL Listed M/N: 60-639-95R), QS1231-840
IQ Glass-S	QS1431-840 <sup>UL</sup> , (UL Listed M/N: IQ Glass-S)
IQ Smoke	QS5110-840 <sup>UL</sup>
IQ CO	QS5210-840 <sup>UL</sup>
Keyfobs	QS1331-840
Tilt Sensor	QS1131-840
Flood Detector	QS5536-840
Temperature Sensor	QS5535-840
IQ Hardwire 16-F	QS7133-840 <sup>UL</sup>

**NOTE:** <sup>UL</sup> indicates that the device is certified to UL standards. These devices are not suitable for UL Commercial Burg applications.

# SUPPORTED POWER-G SENSORS



Detector Type	Model
Door/Window	PG9945 <sup>UL RF/CB</sup> , PG9307 <sup>UL RB</sup> , PG9309, PG9312 <sup>UL CB</sup>
Door/Window - Shock Sensor	PG9935 <sup>UL CB</sup>
Dual Tech (PIR+Microwave) Motion Detector	PG9984(P) <sup>UL CB</sup>
Glassbreak Detector	PG9922 <sup>UL CB</sup>
Heat Detector	PG9936H <sup>UL RF</sup>
Keyfobs	PG9929, PG9939, PG9949, PG9938 <sup>UL CB</sup>
Outdoor Motion Detector	PG9902, PG9974(P), PG9994(P) <sup>UL CB</sup>
PIR Motion Detector	PG9904(P), PG9914, PG9924, PG9862, PG9872 <sup>UL CB</sup>
PIR Motion Detectors with Camera	PG9934(P), PG9944 <sup>UL CB</sup>
Sirens	PG9901 <sup>UL RF/RB</sup> , PG9911 <sup>UL RF/RB</sup>
Smoke Detector	PG9936 <sup>UL RF</sup>
Wireless CO Detector	PG9933 <sup>UL RF</sup>
Wireless Repeater	PG9920 <sup>UL CB</sup>
Vanishing Door/Window Contact	PG9303 <sup>UL CB</sup> , PG9975 <sup>UL RB</sup>
PowerG Wired to Wireless Converter (Supervisory window must be set to 200 sec when used with Fire and/or CO devices)	PG9WLSHW8 <sup>UL RFB CB</sup>

**NOTE:** Only the PowerG sensors marked with <sup>UL CB</sup> in the table above shall be used in UL/ULC Residential and Commercial Burg (UL2610/ULC-S304 Security Level I-II) listed installations. Devices marked with <sup>UL RB</sup> in the table above shall be used only in UL/ULC Residential Burg (UL1023/ULC-S304 Security Level I) listed installations. Devices marked with <sup>UL RF</sup> in the table above can be used in UL/ULC Residential Fire (UL985/ULC-S545) listed installations.

**QOLSYS CONFIDENTIAL AND PROPRIETARY**

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# Johnson Controls



This manual applies to the following IQ Panel 4 SKU's

Verizon	AT&T	Telus
IQP4001	IQP4004	IQP4007
IQP4001BLK	IQP4004BLK	IQP4007BLK
IQP4002	IQP4005	IQP4008
IQP4002BLK	IQP4005BLK	IQP4008BLK
IQP4003	IQP4006	IQP4009
IQP4003BLK	IQP4006BLK	IQP4009BLK

Conforms to UL Std. S985, 1023, & 2610  
Certified to ULC Sub C1023 & ULC Std S545  
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