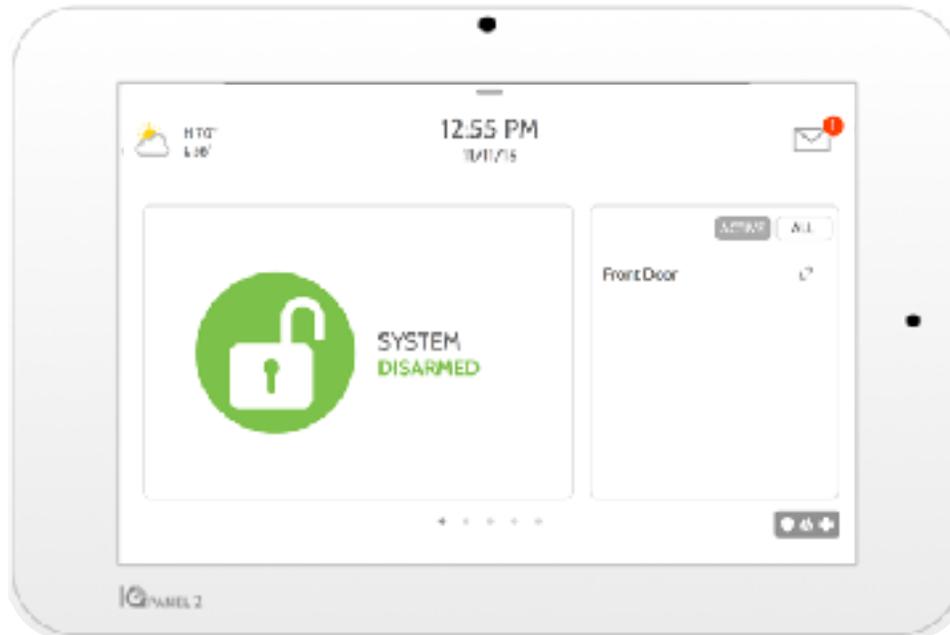


IQ PANEL 2

INSTALLATION MANUAL

Qolsys IQ Panel 2
Software Version 2.0



The Qolsys IQ Panel 2 is a 7" touchscreen built with an Android operating system, providing full security and smart home functionality in an easy to use interface.

INCLUDED IN BOX

IQ Panel 2



Power Supply



Table Stand



ABOUT THIS GUIDE

This document outlines the basic hardware specifications and software directions to install and customize the IQ Panel 2. 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 2 User Guide. The information contained is confidential and 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

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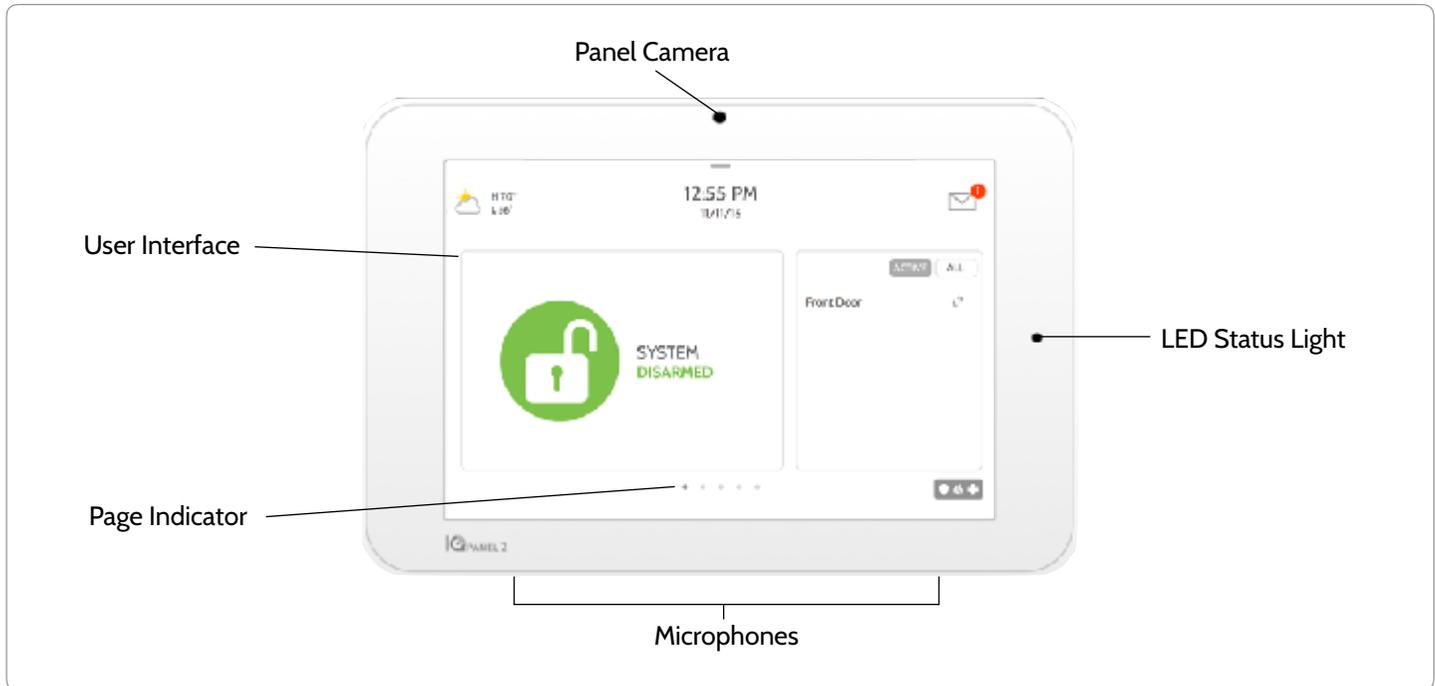
- 120- Specifications

PANEL OVERVIEW

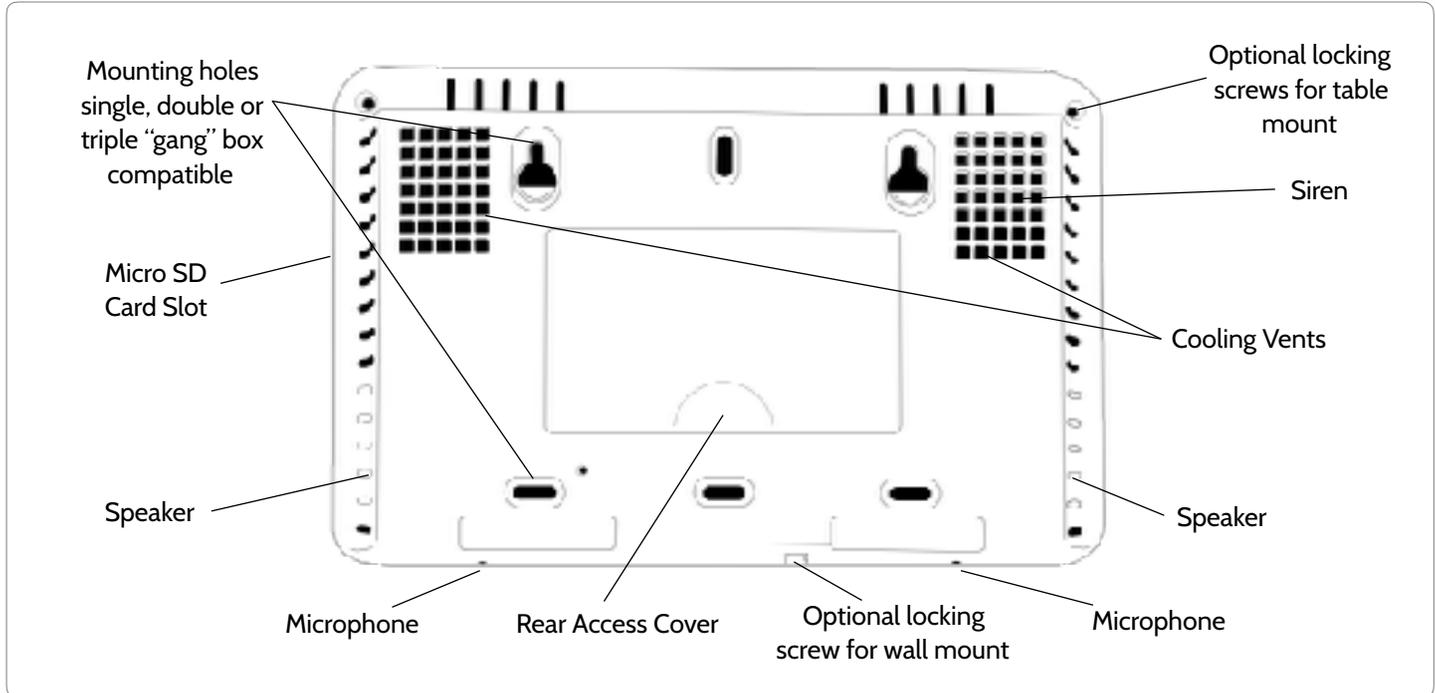
Warning: This Product should be installed in accordance with the National Fire Alarm Code, ANSI/NFPA 72, (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269). Printed information describing proper installation, operation, testing, maintenance, evacuation planning, and repair service 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 Golsys model QS5110-P840 smoke detector.

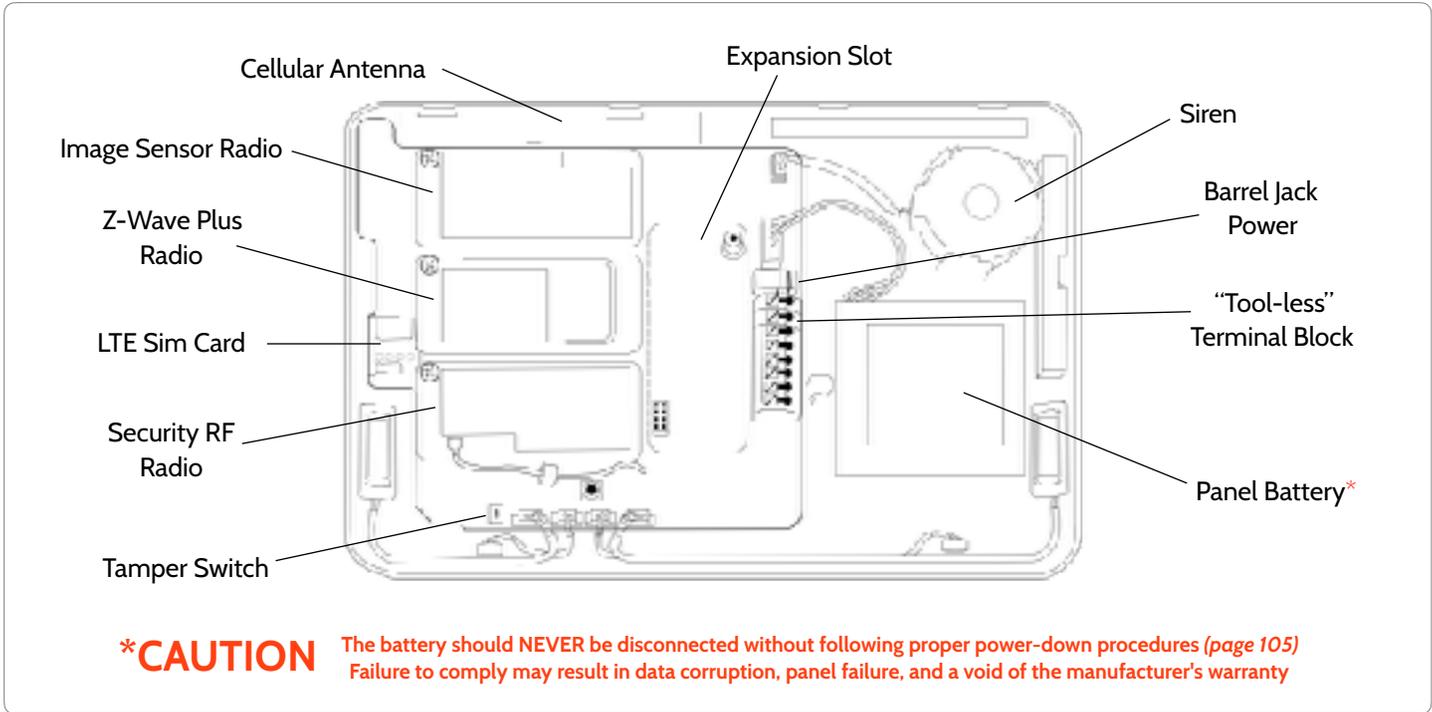
EXTERIOR FRONT



EXTERIOR BACK



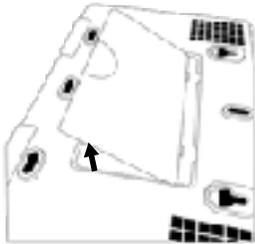
INTERIOR



***CAUTION** The battery should NEVER be disconnected without following proper power-down procedures (page 105)
Failure to comply may result in data corruption, panel failure, and a void of the manufacturer's warranty

INSTALLING THE PANEL

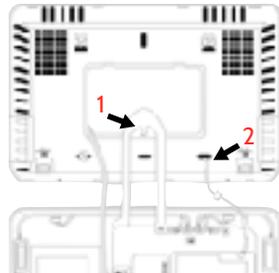
WALL MOUNT OPTION



Insert your thumb or finger under the opening on the back cover and firmly pull up to remove. This cover is not needed for wall mount.

Press tabs on the bottom of the panel and pull apart to remove the back plate.

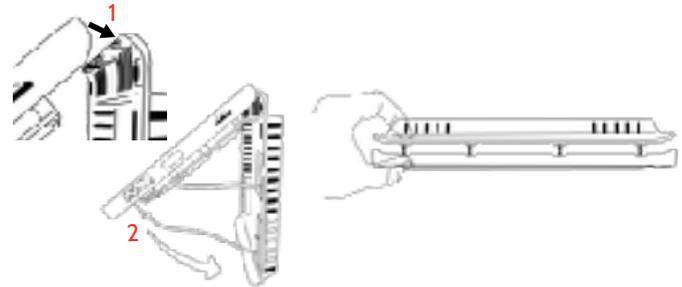
Mount to the wall using appropriate hardware ensuring it's level.



1. Hang the front of the panel with the hanging strap on the back plate as shown above.

2. Make a small hole in the wall through the bottom right mounting hole and feed the white RF antenna into the wall.

IMPORTANT: *Not properly routing the RF antenna in the wall will greatly reduce RF sensor range.*



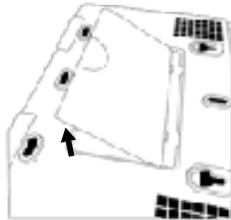
Connect your 5.0 - 5.5v DC Power supply to the barrel jack or to the (+/Red) and (-/Black) terminals if using a custom length wire.

1. At a 60° - 90° angle seat the top of the panel on the top 4 tabs of the back plate. Ensure the tabs line up with the grooves on the panel.

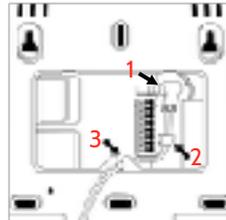
2. Swing the panel downwards to close while feeding the antenna and power wire in the wall.

If there is a gap on the top because the panel did not completely close, firmly pinch at all 4 tab locations to ensure proper closure. You will hear a "pop" or "snap" sound when pinched.

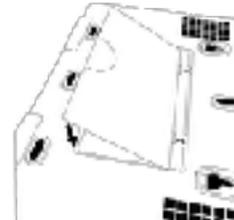
TABLE STAND OPTION



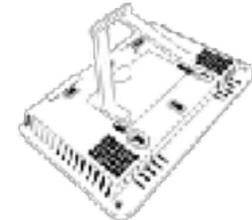
Insert your thumb or finger under the opening on the back cover and firmly pull up to remove.



1. With the included power supply and cable, plug the barrel connector into the jack next to the terminals as shown above.
2. Route the cable under the hook next to the battery.
3. Route the cable through the strain relief opening.



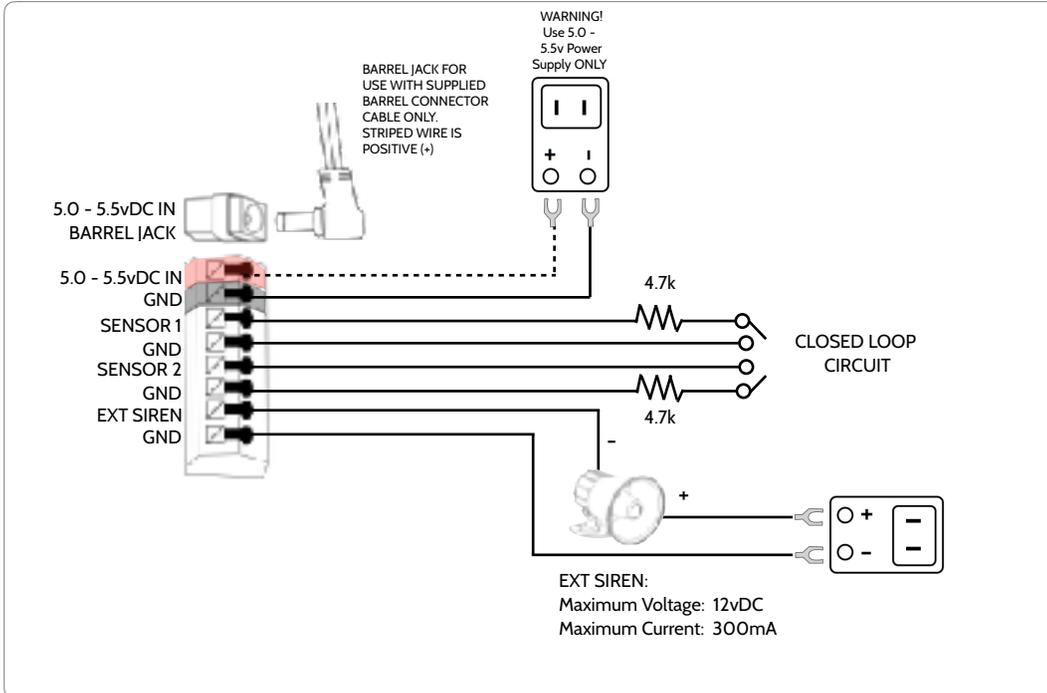
Replace the cover by inserting the top first, then while making sure the cable passes under the opening firmly press down on the bottom until the cover “snaps” into place.



Insert table stand dowels into the 2 upper keyholes.

Slide the stand firmly upwards until you hear a “click” from each side.

WIRING DIAGRAM



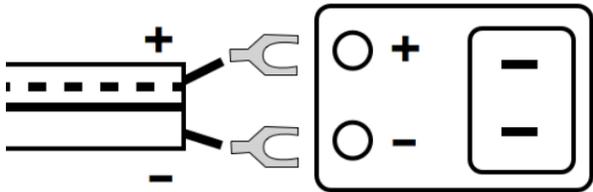
NOTES

IMPORTANT IF USING CUSTOM LENGTH WIRE: Use 18AWG wire no longer than 25ft to ensure sufficient power is received at the panel.

NOTE: Inputs are used only for Burglary applications.

NOTE: Use only UL/ cUL listed external siren in UL/cUL listed installations. Rating:12vDC/ 300mA

POWERING THE PANEL



Connect power supply.

WARNING! Use 5.0 - 5.5v Power Supply ONLY

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

IMPORTANT IF USING CUSTOM LENGTH WIRE:

Use 18AWG wire no longer than 25ft to ensure sufficient power is received at the panel.



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

USER INTERFACE

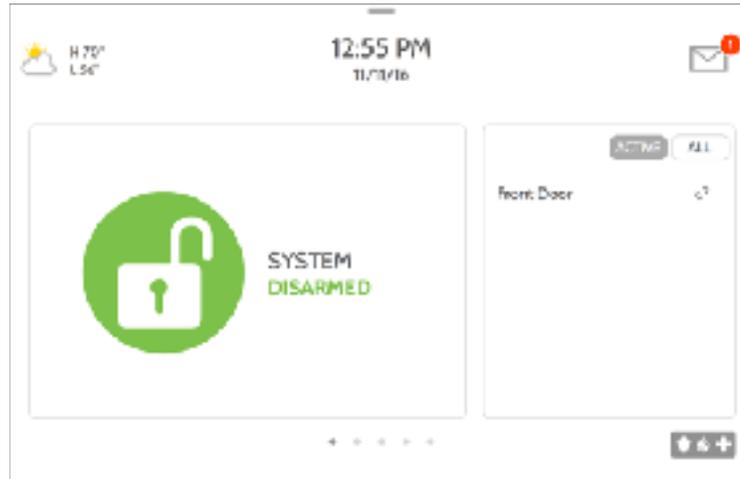
HOME SCREEN OVERVIEW

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. The footer shows panic options and additional pages.

Header &
Settings Tray

Primary
User
Interface

Page
Indication and
Emergency



MESSAGE CENTER

The header contains the 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

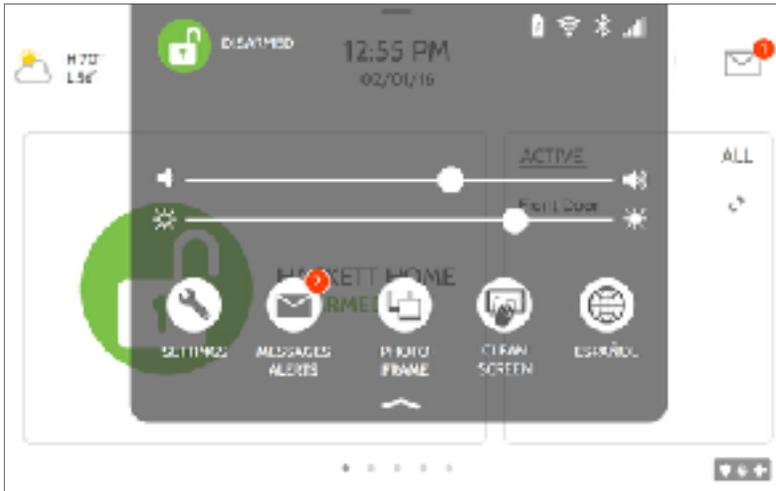
This is where you will find Video Tutorials to help with common questions

MESSAGES/ALERTS/ALARMS

This is where you will find messages from the Security Provider, Panel Alerts and Alarm Notifications.

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 and other quick settings.



FIND IT



Swipe down
for access

PROGRAMMING

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.

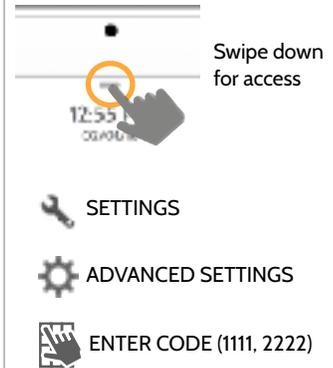
INSTALLER MENU (1111)



DEALER MENU (2222)



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
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. NOTE: For UL/cUL the wireless supervision window for Emergency sensors (Smoke, Heat & CO Detectors) shall be set to 4h.
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.
Loss of Cell Signal Timeout	30	Select the length in minutes (10-120) before reporting a loss in cellular signal.

FIND IT



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



INSTALLATION



INSTALLER/DEALER SETTINGS

* Additional options available only through the Dealer Code.

INSTALLER/DEALER SETTINGS

Setting	Default	Description
Communication Test	Monthly	A weekly or monthly automated communication test
SIA Limits Note: for UL/cUL set entry delay to 45 sec. and for UL set exit delay to max 120 sec. and for cUL set exit delay to 60 sec.	Enabled	When enabled , the range for entry and exit delays is as follows: -Entry delay: 30-240 seconds, Exit Delay: 45-254 seconds When disabled , the range for entry and exit delays are as follows: -Entry delay: 5 to 240 seconds, Exit delay: 5 to 254 seconds When enabled the range for Dialer Delay is: 15 to 45 seconds When disabled the range for Dialer Delay is: 0 to 254 seconds
Languages		Currently unavailable. Reserved for future use
Favorite Languages		Currently unavailable. Reserved for future use
IQ2 Panel		Currently unavailable. Reserved for future use
Jam Detection*	Disabled	When enabled the system can detect when an unusual amount of RF signals are being transmitted leading to a potential panel malfunction. This will report to the central station and handled accordingly.
Jam Detection Local Alarm* Note: 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.
RF Jam Sensitivity Level*	Normal	Choose between HIGH and NORMAL sensitivity levels.

INSTALLER/DEALER SETTINGS

Setting	Default	Description
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.
Delete All Sensors		Deletes all sensors and Bluetooth devices programmed in the panel at once
Delete All Z-Wave Devices		Deletes all Z-Wave devices programmed in the panel at once. This does not clear the device.
Master Reset*		Restores panel to factory settings
Reset Panel With Last Back-up Image*		Restores the panel to factory settings using the last known good software image

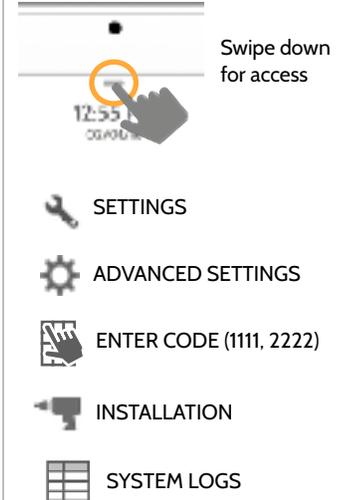
SYSTEM LOGS



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 it's activity to the server. This information is used to troubleshoot bugs and diagnose panel problems. The panel will upload any logs saved in it's 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>No log output: No information recorded Fatal: Record fatal or severely problematic information only Error: Record all errors and fatal issues Warn: Record warnings, errors, and fatal issues Info: Record all generic, non-customer related information Debug: Record diagnostic messages, Info, Warnings, Errors, and Fatal issues Verbose: Record all non-customer identifying information</p>

FIND IT



SIREN AND ALARMS



Siren and Alarms

Change siren settings for certain types of alarm events.

Setting	Default	Description
Disable Siren	Disabled	When Enabled , turns internal piezo siren (and external siren, if connected) off. This will silence all panics. Fire panic siren will re-enable automatically after 30 mins. <i>UL Note: for UL/cUL the Siren is not allowed to be turned off to not operate.</i>
Siren Annunciation	Disabled	Panel siren pauses periodically to announce which locations have triggered the alarm. <i>UL Note: for UL/cUL this feature is not allowed for Fire, CO, Burglar Alarm</i>
Fire Verification	Disabled	When enabled, panel requires two fire events from smoke detector (one detector twice or two detectors once each)
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 8 minutes). <i>For UL/cUL the minimum bell time out shall be set to 5min.</i>

FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



INSTALLATION



SIREN AND ALARMS

SIREN AND ALARMS

Setting	Default	Description
Water/Freeze Siren	Disabled	When enabled, siren will sound when a water or freeze detector is triggered. When disabled, the panel emits a "water" tone.
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
Allow Master Code To Access Siren and Alarms	Disabled	Allow the master code to access these features and settings. <i>Note: not allowed for UL/cUL.</i>

SECURITY AND ARMING

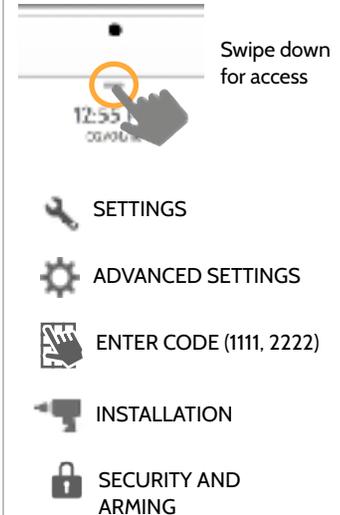
FIND IT



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
Duress Authentication	Disabled	Toggle whether or not to allow duress codes
Secure Arming	Disabled	Require user code for arming panel. <i>Note: this option shall be enabled for UL/cUL.</i>
Refuse Arming When Battery Low	Disabled	Will not allow panel to arm if battery is low (below 30%)
Auto Bypass	Enabled	Toggle whether or not to bypass open or tampered sensors automatically. <i>Note: Shall be disabled for UL/cUL.</i>
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



SECURITY AND ARMING

Setting	Default	Description
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.
Keyfob Disarming	Enabled	When Disabled, a Keyfob will not be able to disarm the panel.
Allow Master Code to Access Security and Arming	Disabled	Allow the master code to access these features and settings. <i>Note: this option shall be disabled for UL/cUL</i>
Normal Entry Delay	30 Secs	How much time users have to enter their code after opening a door (30-254secs). With SIA limits disabled the minimum time can be set to 5 secs.
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"
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

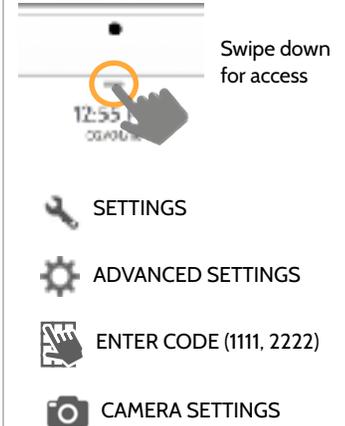


Camera Settings

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 image sensor photos.
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 an alarm is triggered the panel will take 2 photos. One when the alarm has been triggered and the second at the end of the alarm event.
Setting 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

FIND IT



Note: Supplementary feature not evaluated by UL/cUL

SOUND



Sound

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

Setting	Description
Volume	Controls the panel's voice volume, beeps and chime volume and the media volume through individual sliders.
Edit Chimes	Allows you to select from various chimes for each individual device.
Voice Settings	Indicates whether the panel should "speak." Sensors, Panel messages, Activity Monitoring Sensors, and Z-Wave device actions can all be toggled independently. (unchecking a box disables the individual feature, unchecking the primary box disables all)
Chime Settings	Indicates whether the panel should emit tones/beeps. Sensors, Panel and Activity Monitoring Sensors can all be toggled independently. (unchecking box disables feature)
All Trouble Beeps	Toggles all sensor and panel trouble beeps on or off

FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



SOUND

SOUND

Setting	Description
Sensor Low Battery	Panel sounds when a sensor's battery is low. Chime type and frequency are set below.
Sensor Tamper Beeps	Panel sounds when a sensor is tampered. Chime type and frequency are set below.
Panel Trouble Beeps	Panel sounds when tampered or opened. Chime type and frequency are set below.
Edit Trouble Beep Chimes	Select the chime type for Sensor Low Battery, Sensor Tamper, and Panel Tamper.
Trouble Beeps Timeout	Determines the amount of time between each trouble beep. Length can be set between 3-60 mins. (default is 30 mins).
Fire Safety Device Trouble Beeps	Panel will sound a trouble alert if a fire safety device is tampered, failed or has a low battery.
Touch Sounds	When touching an option the screen will make a sound. This is enabled by default

Z-WAVE DEVICE LIST*



DEVICE LIST

Shows device specific information for programmed Z-Wave devices.



6:45 PM
06/03/16



ID	TYPE	GROUP	NAME	Info
2	Light	None	Light	Info
3	Light	None	Bedroom Light	Info
4	DOOR LOCK	None	Front Door	Info
5	Thermostat	None	Thermostat	Info



By pressing “Info” you will find the following information for that selected device.

- Product Info
- Protocol Info
- Application Info
- Supported Command Class

FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



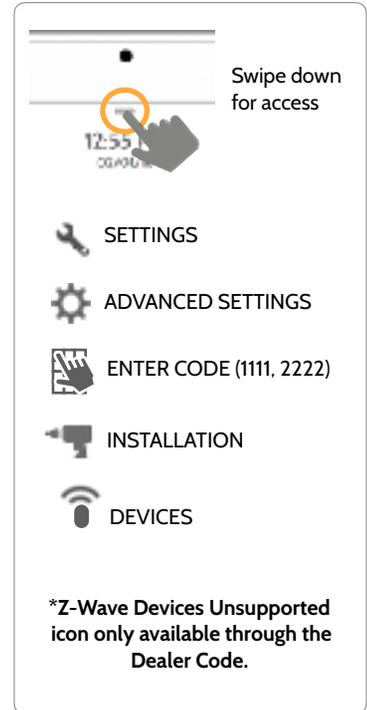
Z-WAVE DEVICE LIST

*This page only available through the Dealer Code.

DEVICES



FIND IT



SECURITY SENSORS



Security Sensors

Add, edit or remove up to 128 security RF or life safety devices. This includes support for Image Sensors, when Image Sensor Daughter Card is installed.



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 sensor



Sensor Status

Monitor sensor status in realtime.



Sensor Group

Quick reference to all sensor groups and their actions

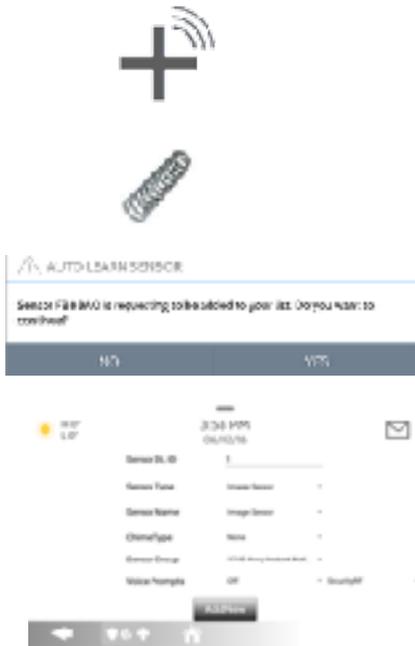
FIND IT

Swipe down for access

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

Note: image sensors functionality has not been investigated by UL/cUL. This is a supplementary feature that does not interfere with mandatory life safety and security protection operation of the alarm system control unit.

AUTO LEARN SENSOR



1. Select “Auto Learn Sensor”
2. Open and close or tamper a sensor to enroll. Image sensors have a 2 min enrolling window. For contacts **HARDWIRED** into “Sensor 1 or 2” on the back of the panel, simply open the contact.
3. Panel will chime and display the sensor’s DL code, or HW1/HW2 for hardwired contacts. Select OK to confirm.
4. Configure sensor group, name, chime etc.. with smart filtering drop down lists.
5. Select “Add New” to complete and move to the next sensor.

NOTE: Panel only supports D/W leads, PIR or Glassbreaks for the HW inputs. When enrolling an “S-Line” sensor, the panel will auto detect that it’s encrypted and change the “Security RF” field to S-Line.

ADD SENSOR



Sensor DL ID	<input type="text"/>
Sensor Type	Motion -
Sensor Name	Family Room +
Chime Type	None -
Sensor Group	17-05-Away-Instant Mdl. +
Voice Prompts	off + Security99

Add New

1. Select “Add Sensor” (**NOTE: These same fields can be edited later from the “Edit Sensor” app**)
2. Tap the field marked “**Sensor DL ID**” to open the keyboard. Enter the six digit DL code on the back of the device and touch “Done”
3. Choose **Sensor Type** from list
4. Choose **Sensor Name** from the list or create a “Custom Name” using the built in keyboard with Custom Text to Speech.
5. Choose **Chime Type** from list
6. Indicate **Sensor Group** from list
7. Indicate whether you want **Voice Prompts** on or off
8. Click “Add New” to save the information and complete the process.

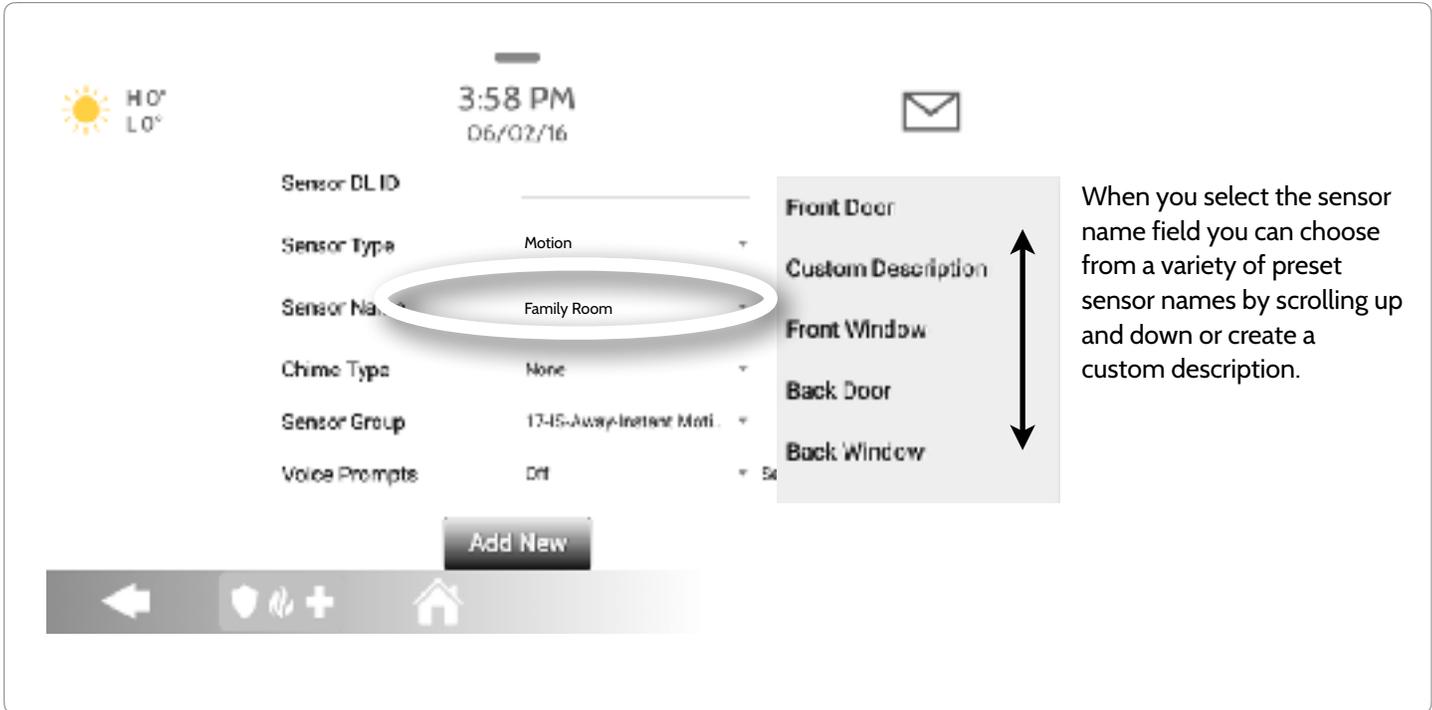
SENSOR TYPE

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
- Heat
- Water
- Shock Sensor
- Freeze
- Tilt
- Image Sensor
- Door Bell
- Smoke-M
- Door/Window-M
- Occupancy Sensor



SENSOR NAME



The screenshot displays the configuration screen for a security sensor. At the top, there is a weather icon (sun) with 'H 0°' and 'L 0°', the time '3:58 PM', and the date '06/02/16'. Below this is a list of sensor settings:

- Sensor DL ID: _____
- Sensor Type: Motion
- Sensor Name: Family Room (highlighted with a white oval)
- Chime Type: None
- Sensor Group: 17-15-Away-Instant Moti.
- Voice Prompts: Off

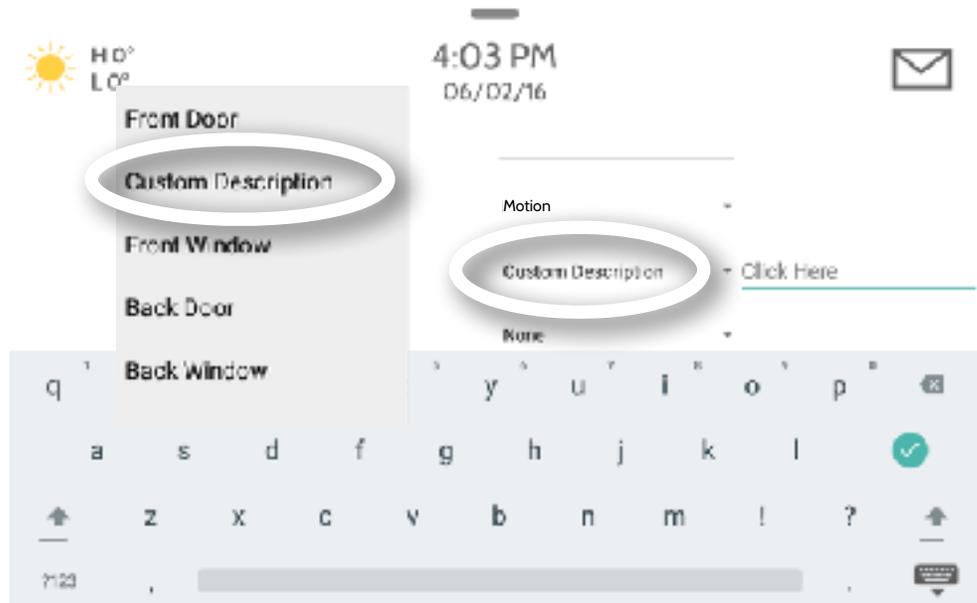
A dropdown menu is open for the 'Sensor Name' field, showing the following options: Front Door, Custom Description, Front Window, Back Door, and Back Window. A vertical double-headed arrow is positioned to the right of the dropdown menu, indicating that it is scrollable.

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.

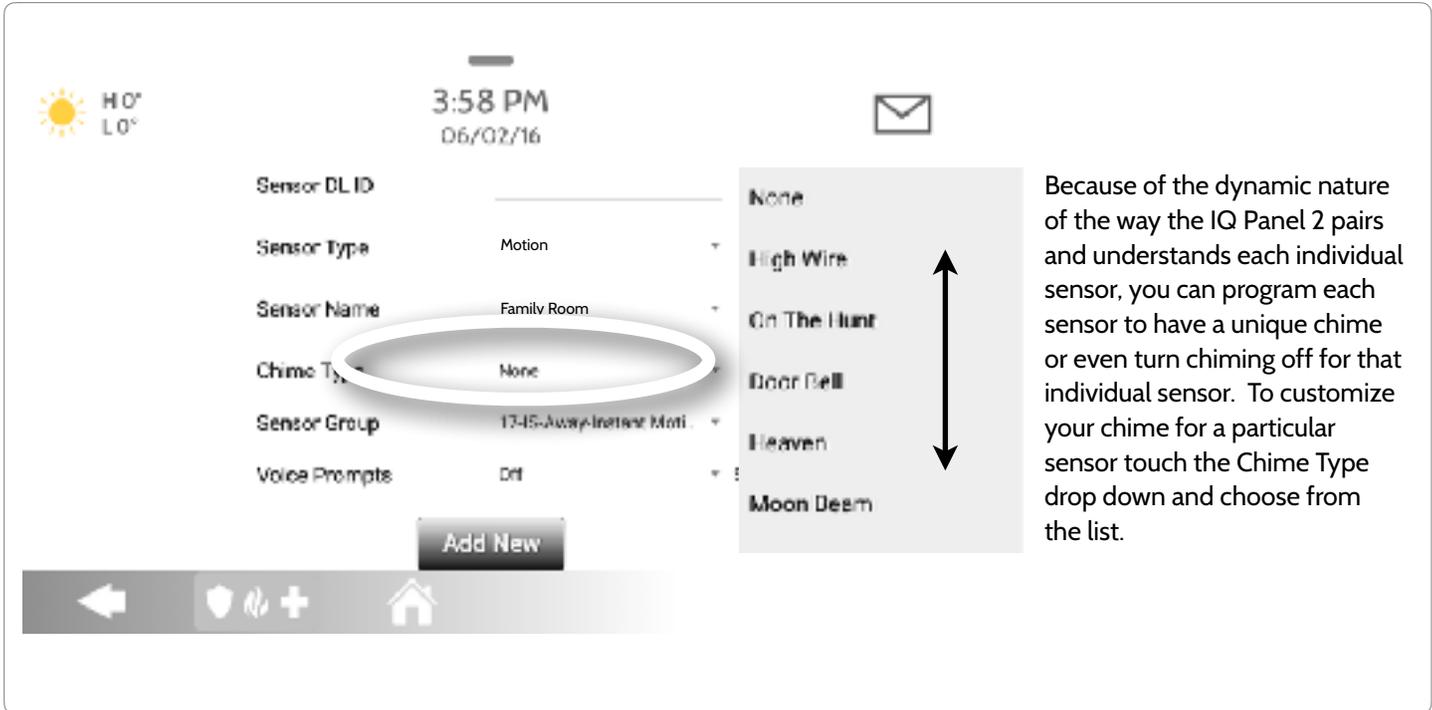
At the bottom of the screen, there is an 'Add New' button and a navigation bar with icons for back, home, and other functions.

SENSOR NAME: CUSTOM DESCRIPTION

When you select “Custom Description” as your sensor name the android keyboard will appear. Type in the desired name (up to 24 characters, alphanumeric only, no special characters) and click “Done.” The name will appear in the field next to “Sensor Name.”



CHIME TYPE



The screenshot displays the Golsys mobile application interface. At the top, there is a weather widget showing a sun icon, 'H0°', and 'L0°'. The time is '3:58 PM' and the date is '06/02/16'. A notification icon (envelope) is in the top right. The main content area shows a list of sensor settings for a sensor named 'Family Room'. The 'Chime Type' dropdown menu is open, showing a list of options: 'None', 'High Wire', 'On The Hunt', 'Door Bell', 'Heaven', and 'Moon Beam'. The 'None' option is currently selected and highlighted with a white oval. A vertical double-headed arrow is positioned to the right of the dropdown menu, indicating the range of options. At the bottom of the screen, there is a navigation bar with a back arrow, a shield icon, a plus sign, and a home icon. An 'Add New' button is located above the navigation bar.

Sensor DLID		None
Sensor Type	Motion	High Wire
Sensor Name	Family Room	On The Hunt
Chime Type	None	Door Bell
Sensor Group	1745-Away-Innest Moti.	Heaven
Voice Prompts	Off	Moon Beam

Because of the dynamic nature of the way the IQ Panel 2 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.

SENSOR GROUP

Sensor groups will change the behavior of the sensor. These are tied directly to your sensor type, therefore 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"



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 instantly when system is armed
14	Instant Interior Door	Y	An interior sensor that triggers an alarm instantly 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 triggers alarm instantly when system is armed to away mode only

DOOR/WINDOW

GROUP	NAME	SUPERVISED	SCENARIO
25	Local Safety Sensor	Y	This sensor does not report or trigger an alarm. This is a chime only 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 triggers 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.

MOTION/IMAGE SENSOR

GROUP	NAME	SUPERVISED	SCENARIO
17	Away- Instant Motion	Y	Active only when armed to “Away”, and trips instantly when motion is detected. Does not 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 not 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 not 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 not trip if an entry/exit sensor is tripped first.
25	Safety Motion	Y	This sensor does not 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.

GLASS BREAK

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

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

KEYPAD

GROUP	NAME	SUPERVISED	SCENARIO
0	Fixed Intrusion	Y	Installed in a fixed location such as under a desk, the button(s) is/are programmed to trigger a police panic . UL NOTE: Hold-up functionality has not been evaluated by UL/cUL.
1	Mobile Intrusion	N	Keypad can be mobile and is programmed to trigger a police panic
2	Fixed Silent	Y	Installed in a fixed location such as under a desk, the button(s) is/are programmed to trigger a silent police panic

AUXILIARY PENDANT

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

SMOKE DETECTOR/HEAT

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

CO DETECTOR

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

HARDWIRE TRANSLATOR

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

WIRELESS TRANSLATOR

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

WATER

GROUP	NAME	SUPERVISED	SCENARIO
38	Water Sensor	Y	Triggers an alarm when sensor detects presence of water. <i>UL NOTE: flood sensor functionality has not been evaluated by UL/cUL.</i>

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) select “Multi-Function-1”, for all others, select “Flood-2”

SHOCK SENSOR

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”

FREEZE

GROUP	NAME	SUPERVISED	SCENARIO
52	Freeze	Y	Triggers an alarm when sensor detects low temperatures. <i>UL NOTE: temperature sensor functionality has not been evaluated by UL/cUL.</i>

TILT

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 does not 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. <i>UL NOTE: Functionality in conjunction with garage door openers has not been evaluated by UL/cUL.</i>

DOOR BELL

GROUP	NAME	SUPERVISED	SCENARIO
25	Local Safety Sensor	Y	This sensor does not 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.

SMOKE-M

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

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 instantly when system is armed
14	Instant Interior Door	Y	An interior sensor that triggers an alarm instantly 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 triggers alarm instantly 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 not report or trigger an alarm. This is a chime only 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 triggers 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	Occupancy Sensor	Y	This sensor group is to be used for monitoring activity in the home. This group does not report.

VOICE PROMPTS



H 0°
 L 0°

3:58 PM
 06/02/16

Sensor DL ID: 1

Sensor Type: Image Sensor

Sensor Name: Image Sensor

Chime Type: None

Sensor Status: 17-18 Away Instant Mod.

Voice Prompts: Off

Add New

SecurityRF

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.*

WI-FI DEVICES



Wi-Fi Devices

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



Associated Wi-Fi clients

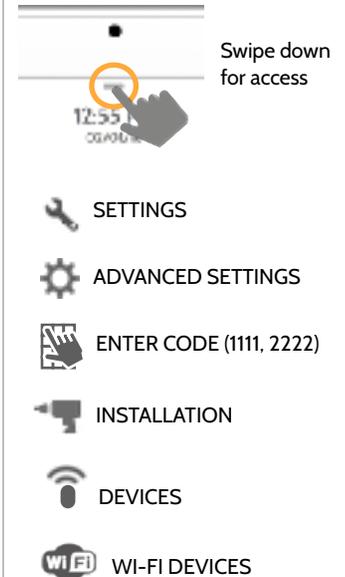
View connected device information such as IP, MAC address and for how long the device has been connected.



Qolsys Access Point

Configure the IQ Panel 2's built in router. Enable/Disable the router, broadcast or hide the SSID and change the SSID's password etc...

FIND IT



ASSOCIATED WI-FI CLIENTS



H:59°
L:47°

4:41 PM
11/01/16



NO	MAC ADDRESS	IP ADDRESS	CONNECTED TIME(N:M: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.

QOLSYS ACCESS POINT



The screenshot shows the Qolsys Access Point configuration page. At the top, there is a weather widget showing 'H 59° L 47°' and a clock showing '4:17 PM 11/01/16'. Below the weather is a notification icon with a red '2' and a green checkmark. The main configuration area has several sections: 'Wi-Fi Access Point' (with a sub-item 'Wi-Fi Access Point Enabled'), 'SSID' (with a sub-item 'SSID is set to QOLNET2AN123'), 'DHCP Range' (with a sub-item 'DHCP Range is set to 191.168.50.X'), 'Change Password', 'AP MODE' (with a sub-item 'Ap Mode set to HIDDEN'), and 'WPS PUSH BUTTON'. At the bottom, there is a navigation bar with icons for back, home, and other functions.

Wi-Fi Access Point:

Enable or Disable the Qolsys Access Point

SSID:

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

Change Password:

Change the password of the SSID

AP Mode:

Broadcast or Hide the built-in router's SSID from being viewed or accessed by unwanted devices.

WPS Push Button:

Connect devices to the panel's built-in router using WPS. This can only be used when "AP Mode" is set to broadcast.

Z-WAVE DEVICES



Z-Wave Devices

Add, Edit, Clear and Remove Z-Wave Devices.



Add Device

Include new devices



Edit Device

Make changes to existing devices



Clear Device

Clears or resets the memory of a Z-Wave device. (Requires you touch the "Include" button on the device)



Delete Failed Device

Remove a Z-Wave device from the IQ Panel 2's memory (does not require you to have the device)



Remove All Devices

Delete all Z-Wave devices from the IQ Panel 2's memory



Z-Wave Settings

Configure device limits and other Z-Wave settings.



Network Wide Inclusion (NWI)

Include Multiple Z-Wave devices at the same time.



Replace Failed Node

Replace a failed device keeping the same Node ID.



Association

Manually change Z-Wave associations for specific devices.



Set As SIS

Static Update Controller (SUC) ID Server. When the IQ Panel is set as a SIS this allows for secondary controllers included in the network to have the ability to add/remove devices.

ADD DEVICE



1. Select “Add Device”

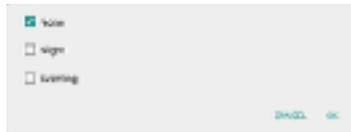


2. Touch “Include”



3. Press the “Include” 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).

- **Doorbell:** Turns light on only after 7pm for 15 min. when Doorbell is activated (must have a sensor with the default quick name “Doorbell” added in the panel).



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

FIND IT



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



INSTALLATION



DEVICES



Z-WAVE DEVICES

CLEAR DEVICE



Clears Z-Wave device from a network, whether it was enrolled with another controller previously or the IQ Panel 2.



Touch
“Clear Device”



Panel will start sending a
“Clear” signal



Press
“Include” or
“Learn” button on

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 Include or learn. Refer to your device’s installation manual for specifics on Inclusion or learning.*

DELETE FAILED DEVICE



Deletes Z-Wave device from the panel. This does not clear the device's memory. Before adding the device to another network see instructions on how to "Clear" 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

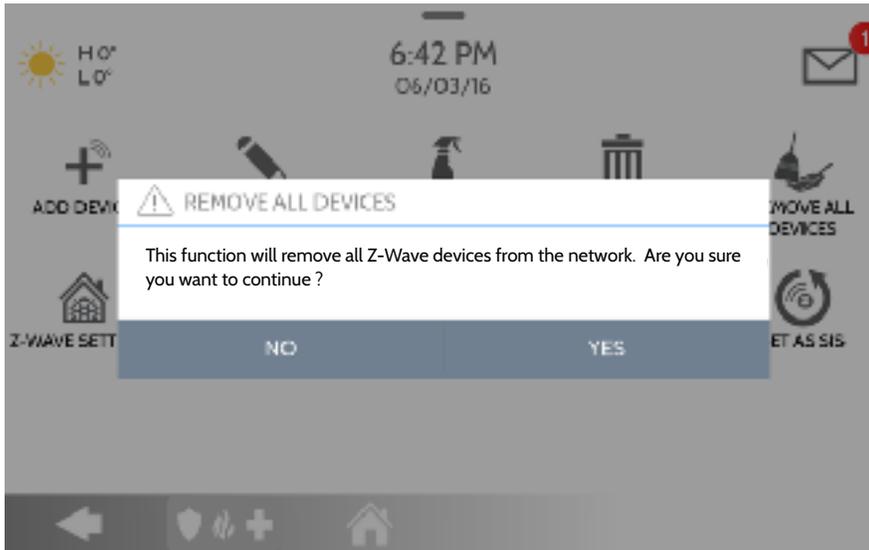


Touch "Delete"

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.

This procedure will send a Device Reset Locally frame to all Z-Wave devices associated with the IQ Panel 2 within the Lifeline association group (Association Group 1).

Z-WAVE SETTINGS

Z-Wave Settings allow an installer to set a maximum number of Z-Wave devices allowed on the IQ Panel 2 in all categories and control other Z-Wave settings.

Device	Default	Maximum Number Supported
Thermostats	3	Maximum number of supported Thermostats is 6
Smart Sockets*	0	Maximum number of supported IQ Smart Sockets is 15
Lights	5	Max number of supported Z-Wave light modules is 80
Door Locks	3	Maximum number of supported Z-Wave Door Locks is 6
Other Z-Wave Devices	5	Maximum number of misc Z-Wave devices is 21
Garage Doors	3	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

- 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

Z-Wave Settings allow an installer to set a maximum number of Z-Wave devices allowed on the IQ Panel 2 in all categories and control other 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 installation settings
Access to Automation	Enabled	When enabled it allows the ability to apply simple automated actions to lights and switches directly from the panel.
Z-Wave	Enabled	Activate or deactivate Z-Wave radio. Note: Please use this procedure only when the controller (panel) is missing or inoperable.
Primary Controller	Enabled	Allows the panel to act as the primary Z-Wave controller (enabled), or as a secondary controller (disabled). When Primary Controller is disabled “Controller Shift” and “Add/Remove Controller” icons will appear on the Z-Wave Devices page. Controller Shift: Shifts primary controller from IQ Panel to another controller on the network. Add/Remove Controller: This icon acts like an “Add/Remove” button when including the IQ Panel into another network.

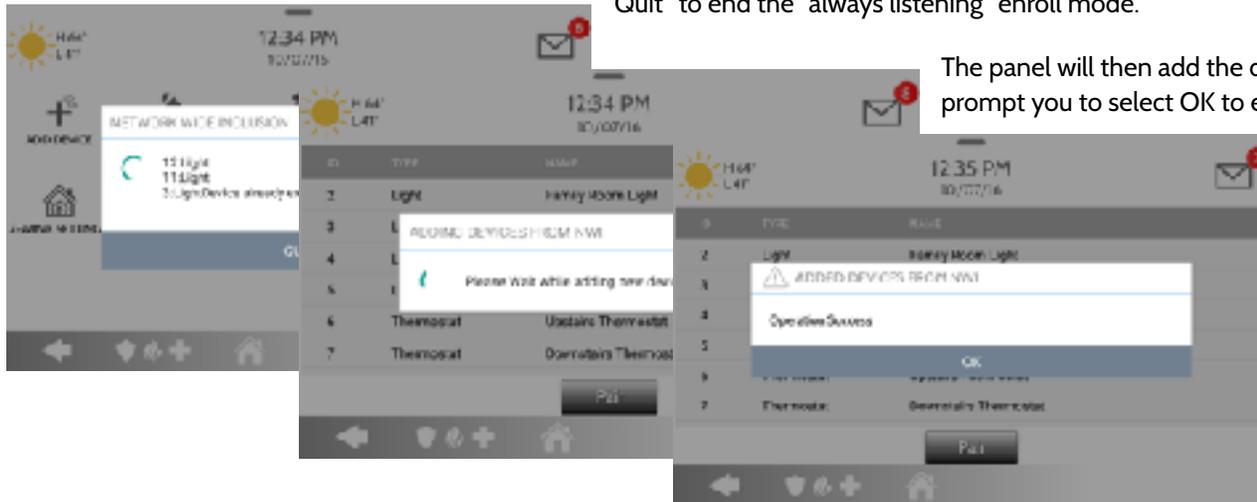
NWI (Network Wide Inclusion)



Activates an “always listening” enroll mode. Include one Z-Wave device after another. When complete you can return to edit the device and give a custom name.

The panel will show each device requesting to be added. Select “Quit” to end the “always listening” enroll mode.

The panel will then add the devices and prompt you to select OK to exit.



ASSOCIATION



Manually change Z-Wave associations for specific devices.



The screenshot shows the following data in the association modal:

ID	Type	Name
<input type="checkbox"/>	1	Panel
<input type="checkbox"/>	2	Light
<input type="checkbox"/>	4	Light
<input type="checkbox"/>	5	Light
<input type="checkbox"/>	6	Thermostat
<input type="checkbox"/>	7	Thermostat

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"

BLUETOOTH DEVICES



Bluetooth Devices

Add, Edit, Delete and Configure Bluetooth Device settings



Add Device

Pair new 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

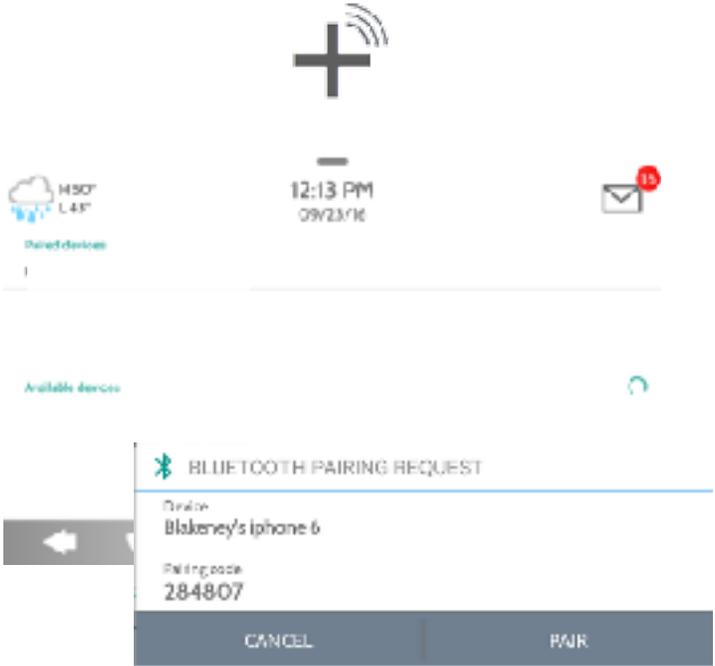


DEVICES



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 and then on your phone.
5. Your mobile device will now show under the “Paired Devices” list on the panel.

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

EDIT DEVICE



ID	MAC	NAME	EDIT
9	04:14:8F:27:35:D7	Blakeney's iPhone 6	
7	0B:02:4B:3C:2A:ED	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.

DELETE DEVICE



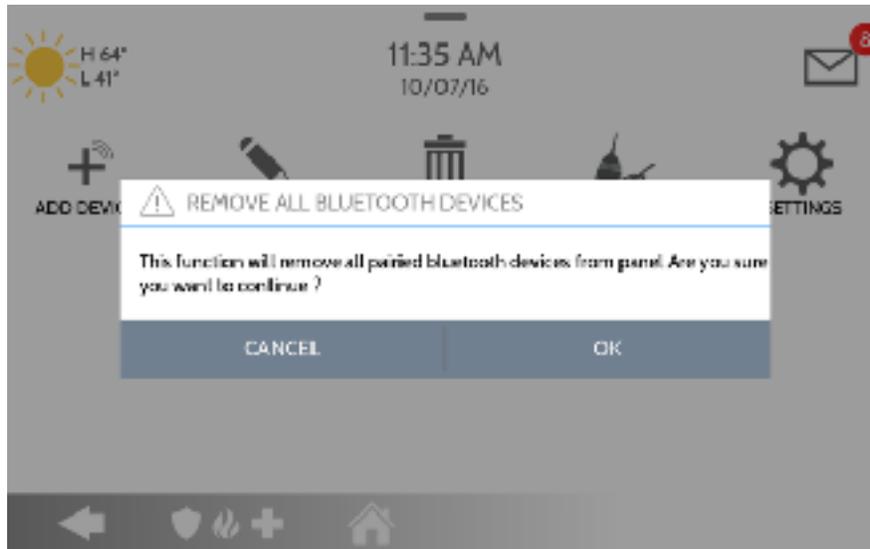
1. Select the check box next to the device you would like to delete.

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.

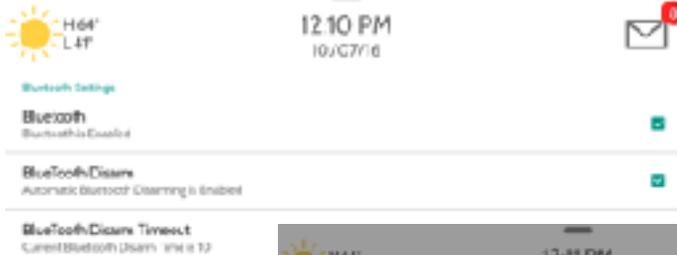
BLUETOOTH DISARM:

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.

1, 5, 10, 20, 30 min disarm timeout



SYSTEM TESTS

SYSTEM TESTS



System Tests

There are several tests you can perform to ensure your system is working efficiently.



Wi-Fi Test

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



Z-Wave Tests

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



Sensor Test

Test the panel's communication with individual security sensors



Wi-Fi Devices Test

Held for future use.



Cellular Test

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



Panel Glass Break Test

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



Image Sensor Config

Test the panel's connection to Image Sensors

FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



SYSTEM TESTS

SYSTEM TESTS



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



ENTER CODE (1111, 2222)



SYSTEM TESTS

WI-FI TEST



Wi-Fi Test

The Wi-Fi test checks the IQ Panel 2's connection to your network. Before running this test, be sure to connect the panel to the network. See "customization" section for directions on connecting to Wi-Fi.



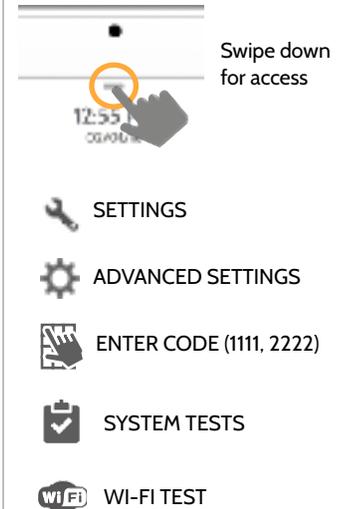
A successful test will result in a "pass" and indicates the date and time of the test along with connection speed.

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



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

FIND IT



SENSOR TEST



Sensor Test

The panel can test its connection and communication to the individual security sensors. Before running this test there must be at least one security sensor paired with the system.

Sensors connected to the panel will appear on the screen. The panel will detect open and close reports. Please allow 10 secs between tests if tripping the same device more than once.

The panel will audibly report and display test results from “No Signal” to “Perfect”, including how many packets were received.

ID	TYPE	STATUS	SIGNAL	LAST READ TIME
2	ULC-1A	HOPE Window	No Signal	
1	SPM-1B	Hallway Motion Detector	Perfect	03:55 PM Sep 26, 2018

Results	Packets Received
Perfect	8
Excellent	6-7
Good	3-5
Minimum	1-2
No Signal	No RF packets received

FIND IT



Swipe down for access



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”.

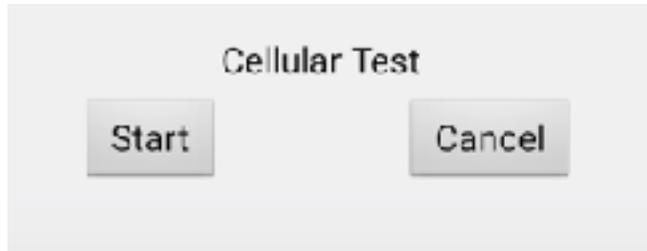
CELLULAR TEST



Cellular Test

Test the panel's built-in cellular radio connection. You must first activate the radio through alarm.com prior to this test.

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



FIND IT

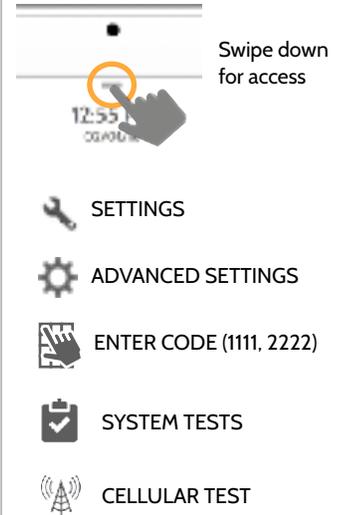


IMAGE SENSOR CONFIG



Image Sensor Config

Test an image sensors connectivity with the panel to ensure they are communicating properly and are able to take photos.

Choose an Image Sensor to Test:



Select the desired Image Sensor by touching "View" next to it's name



Touch "Sensor Tests"

Select the test you want to run:



PIR Test checks the motion sensor

Installer Peek In tests the camera (Results appear through the Alarm.com apps)

FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



SYSTEM TESTS



IMAGE SENSOR CONFIG

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.

6:46 PM
06/03/16

ID	TYPE	STATUS	TEST TIME	RESULT
2	Light	Normal		Run
3	Light	Normal		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 maps 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 TESTS
- REDISCOVER NETWORK

Z-WAVE TESTS

FIND IT



Neighbor Info

Use “Neighbor Info” to view which devices can view each other. This helps when testing the range of a Z-Wave device.



The screenshot shows a mobile app interface with a table of devices. The 'View' button for the first device is circled, and a callout box shows the 'Neighbor Nodes for Light (5)' list.

ID	NAME	VIEW/TEST (INFO)
2	Light	View
3	Bedroom Light	View
4	Front Door	
5	Thermostat	

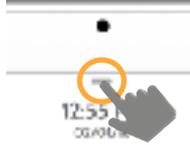
Neighbor Nodes for Light (5)

- 4 : front_door

close

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

Swipe down for access



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

Z-WAVE TESTS



Counters

View a numerical representation of the Z-Wave network. View failed and acknowledged commands as a whole or from an individual device.



4:59 PM
09/20/16



Acked commands no auto route : 0
 Acked commands auto route : 0
 Failed commands no ack : 170
 Failed commands network failed : 0
 Failed commands network not idle : 0
 Failed commands network no route : 0



5:00 PM
06/20/16



ID	NAME	POWER	WAVE	RESET COUNT (0)
2	Family Room Light	0	18	Reset
3	Bedroom Light	0	20	Reset
4	Overstair Light	0	19	Reset
5	Hallway Light	0	15	Reset
6	Upstairs Threshold	0	48	Reset

FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



SYSTEM TESTS



Z-WAVE TESTS



COUNTERS

Z-WAVE TESTS

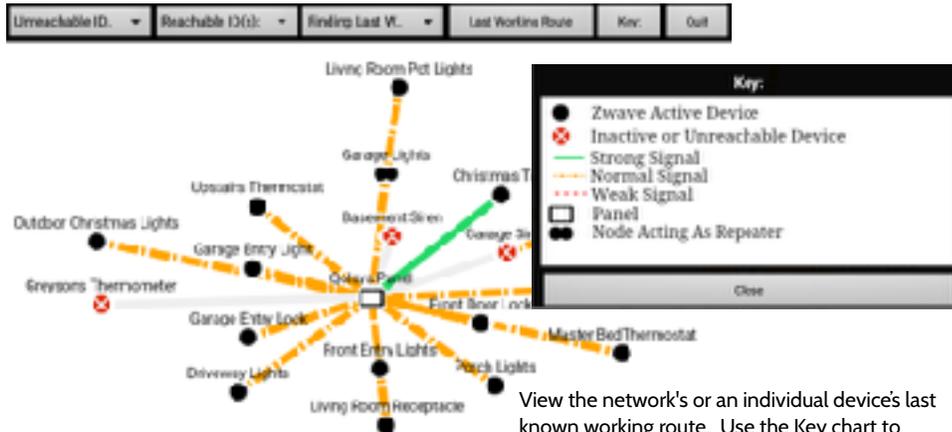
COUNTER	DESCRIPTION
Aked commands no auto route	Command was successful and acknowledged by the sensor; it did not use the normal automatic Z-Wave network route to execute the command for this device (command was re-routed on the Z-Wave network in order to succeed)
Aked commands auto route	Command was 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



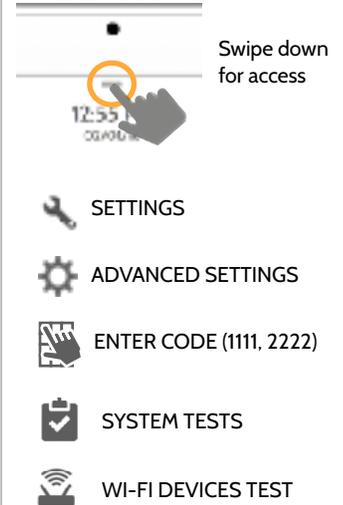
- SETTINGS
- ADVANCED SETTINGS
- ENTER CODE (1111, 2222)
- SYSTEM TESTS
- Z-WAVE TESTS
- Z-WAVE DIAGNOSTICS

WI-FI DEVICES TEST



Wi-Fi Devices
Held for future use

FIND IT



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 test.



11:07 AM
09/28/16



Panel Glass Break Test

Clap Test

Circle will turn yellow to indicate glass break detector is listening and noise is detected



Glass Break Simulator Test

Circle will turn green to indicate glass break frequency is detected



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



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)

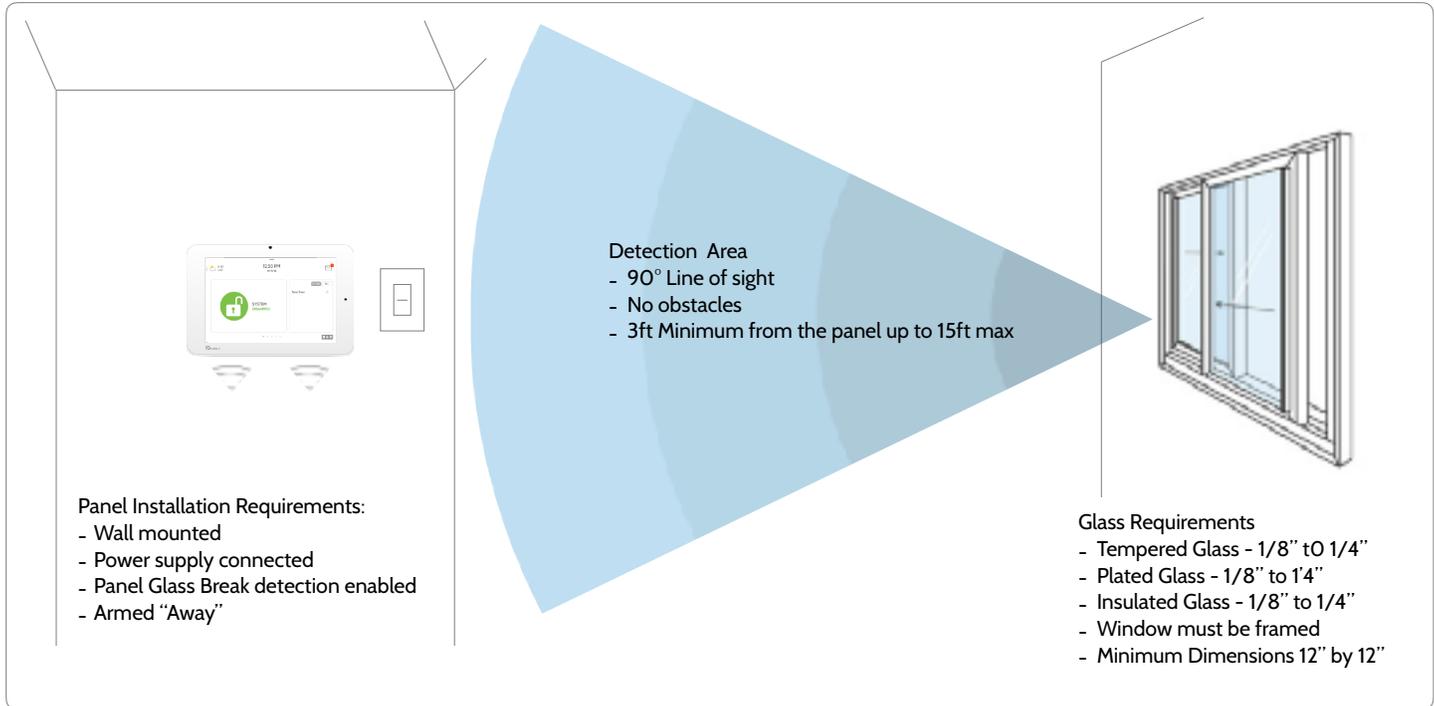


SYSTEM TESTS



PANEL GLASS BREAK TEST

PANEL GLASS BREAK DETECTION REQUIREMENTS



DUAL PATH TEST



When enabled, dual path connectivity allows the IQ Panel 2 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.

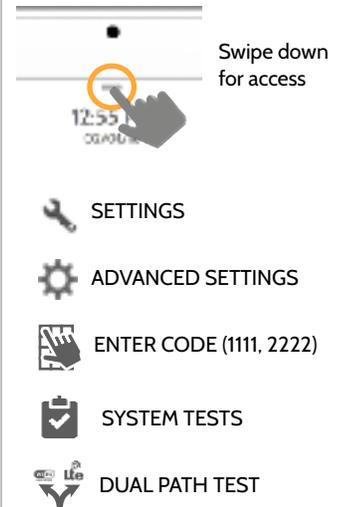
You can also run a Wi-Fi test to ensure that the Dual Path is connecting properly. Unlike the standard Wi-Fi test (which checks connection to the router) the panel will check the broadband connection to Alarm.com.

**Note: The IQ Panel 2 must be connected to a wi-fi network to enable Dual Path*

IQ Panel 2 is compatible with the following UL/ULC listed monitoring station receivers: SG-System I/II/III/IV/5.

NOTE: Wi-Fi is for supplemental use only for UL/cUL

FIND IT

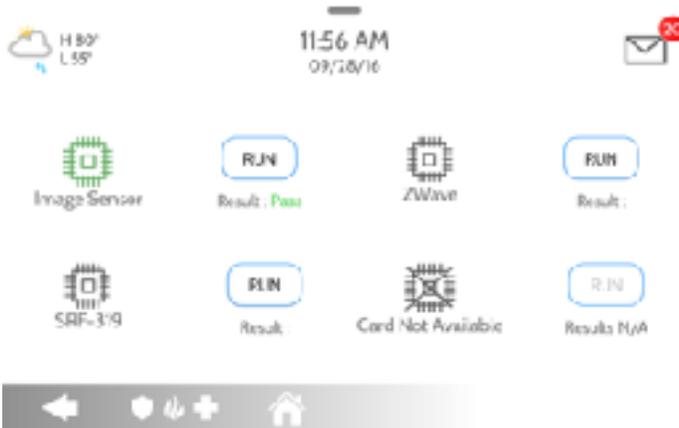


DAUGHTER CARDS TEST



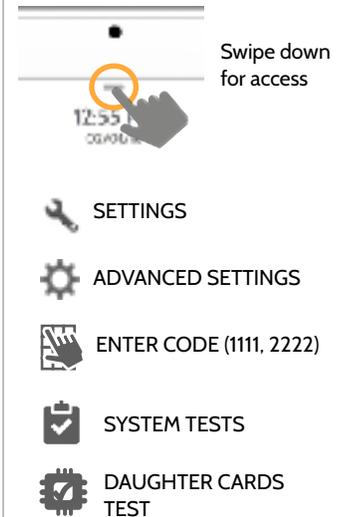
Daughter Cards Test

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. After which the panel will show a result of a “Pass” or “Fail”.

FIND IT



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.

FIND IT



Swipe down for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



SYSTEM TESTS



PANEL TEST

CUSTOMIZATION

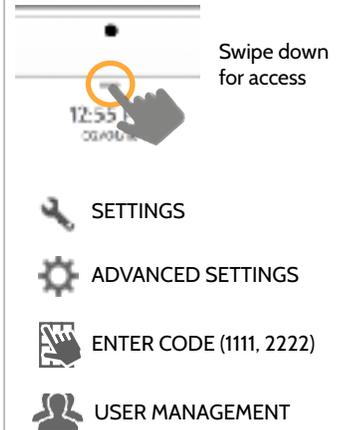
USER MANAGEMENT



The IQ Panel 2 can hold up to 242 user codes. Only Dealers, Installers and Master users can access this app and once created you can edit all information but user type (Installer, Master, User, Guest)

User Type	Access Level	Expires
Dealer	All settings as well as Master Reset and access to change Dealer Contact information.	N/A
Installer	All Settings	N/A
Master	All user-related features and Settings, including connecting to Wi-Fi, User Management, Sound App and Sensor customization	On the date indicated when created (optional)
User	Arming/Disarming	On the date indicated when created (optional)
Guest	Arming/Disarming	On the date indicated when created (optional)
Duress	Disarming (but sends duress signal to security provider). This user will be disabled unless you turn on "Duress Authentication" under "Security and Arming"	N/A

FIND IT



DEALER CONTACT*



DEALER CONTACT

Here you can 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 25 characters, Tag Line 2 allows up to 50.

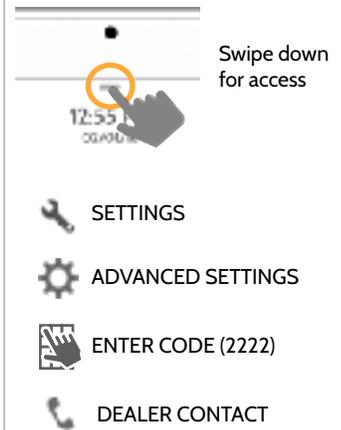


Dealer Name	ABC Security
Top Line 1	Home Automation Specialists
Top Line 2	
Phone	1888-123-4567
Email	jondoe@abcsecurity.com
Web	ABCSecurity.com

Example:

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

FIND IT



Swipe down for access

- SETTINGS
- ADVANCED SETTINGS
- ENTER CODE (2222)
- DEALER CONTACT

*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)



INSTALLATION



WI-FI

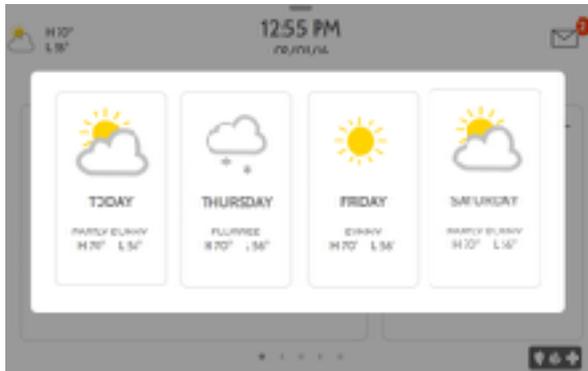
WEATHER



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



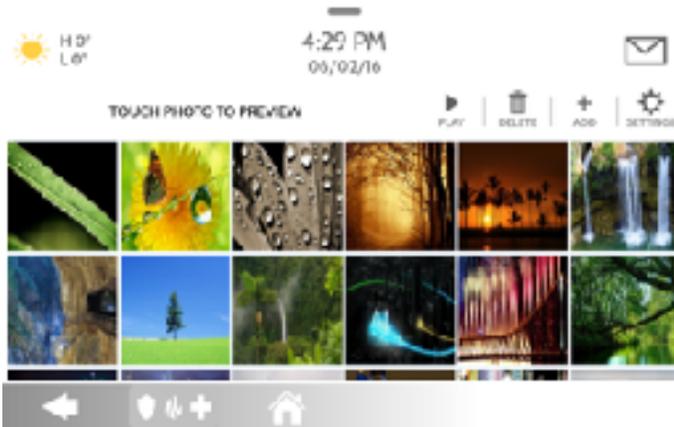
Touch the weather icon in the upper left corner of the header to reveal a 4 day forecast

PHOTO FRAME



PHOTO FRAME

The IQ Panel 2 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: Starts Photo Frame immediately. Good for testing photo frame feature appearance and transitions



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



ADD PHOTOS: Add new photos using an SD card or download one of several “Wi-Fi” photo sets using your panel’s WiFi connection



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

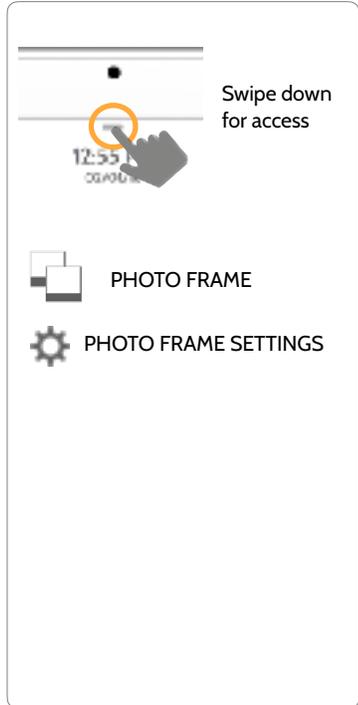


PHOTO FRAME

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. (5, 10, 15, 20, 25, or 30 minutes)
Automatically turn off display	11:00 PM	Determines the time when the display shuts down completely. (Use this feature to turn off the LCD at night)
Automatically turn on display	6:00 AM	Determines the time when the display "wakes up" after sleeping. (Use this feature to turn the LCD back on in the morning)



LOAD IMAGES FROM SD CARD



Card will slide all the way in.
To remove, push gently and card will spring out.

To load new images from an SD card:

- 1- Load photos* onto an SD Card
- 2- Insert the SD Card into the panel
- 3- Open the “Photo Frame” app
- 4- Press “Add Photos”
- 5- Choose “Replace All Photos” or “Add New Photos”

6- Wait for the images to load
7- Once loaded, you can press “Play” to test.

NOTE: Before removing the SD Card, go to “Settings” then touch “SD Card” and select “Unmount”

FIND IT

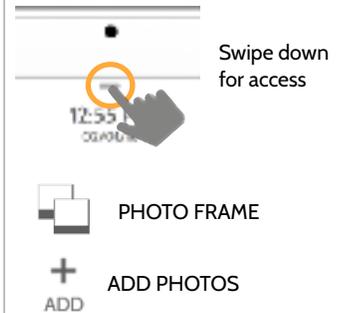


Photo requirements:

- JPEG
- 1280x720 pixels (or less)
- No larger than 5MB each
- No more than 20 images
- Saved in folder entitled “Photos”

LOAD HELP VIDEOS



Upload custom help videos with an SD Card. Make your own troubleshooting videos for your customers or use our built in videos.

Swipe down from the top menu bar and select settings.



Touch Advanced Settings
(Installer Code)



Load Help Videos

Touch “Add” or “Replace”
(Make sure the SD card has been inserted).

Help video settings

Total space allocated
2.00MB

Available space
184MB

Load Help Videos from SD Card

Add
Add the selected files to Help Video list

Replace
It will cleanup the panel's help videos files and copy the selected one

Select videos individually or all at once to either replace existing videos or add to them.

FIND IT



Swipe down
for access



SETTINGS



ADVANCED SETTINGS



ENTER CODE (1111, 2222)



INSTALLATION



LOAD HELP VIDEOS

MAINTENANCE

UPGRADE SOFTWARE

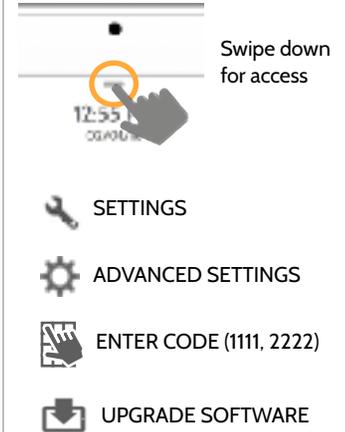


Upgrade Software

Upgrade the panel's software version using Wifi or an SD Card.

Setting	Description
Upgrade Using Network	Search the network for updates and install new software. <i>Note: for UL/cUL, remote software uploading is not allowed</i>
IQ2 Remote Upgrade Using Network	Currently unavailable. Reserved for future use
Upgrade Using SD Card	Search an inserted SD Card for updates and install new software
Downgrade Using Network	With the proper Patch Tag the system can be properly downgraded
Patch Tag	A code corresponding to a specific software update on the server.
Automatic Upgrade	Allow the panel to update its software as new versions become available. <i>Note: For UL/cUL, automatic upgrade is not allowed.</i>
Automatic Upgrade Interval	Determines interval the IQ Panel 2 will look for software updates. (Default 24 hrs)

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 2 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 "okay." Your panel will install the update and automatically restart.

FIND IT



-  SETTINGS
-  ADVANCED SETTINGS
-  ENTER CODE (1111, 2222)
-  UPGRADE SOFTWARE

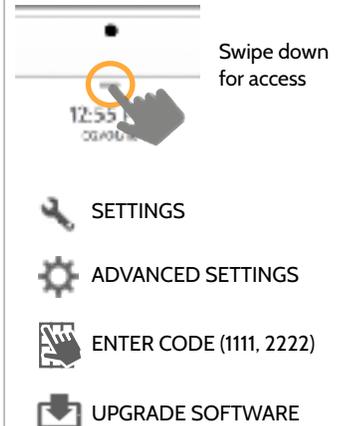
Note: For UL/cUL the remote software feature shall not be used and the panel shall not be setup to remotely upgrade.

SOFTWARE UPDATES VIA SD CARD

- 1- Insert an SD card into your computer. (**We recommend a class 4 or higher SDHC card with 4gb - 16gb storage space*)
- 2- Download the current software from dealers.golsys.com (*requires login*)
- 3- Once the file is downloaded, right click the file and select "Unzip" or "Open"
- 4- Drag all files to your SD card. Delete ANY other files, and safely remove the SD card from your computer
- 5- Slide your SD card into the slot on the upper right side of the IQ Panel 2.
- 6- From the drop down menu Touch "Settings"
- 7- "Advanced Settings" and enter a valid Installer code (*default is 1111*)
- 8- Touch "Upgrade Software"
- 9- Touch "Upgrade using SD Card"
- 10- The panel will search the SD Card for the patch and begin downloading it automatically.
- 11- Once complete touch "OK" to reboot the panel. **DO NOT TOUCH THE SCREEN.** The process will take about 5 minutes and the LED may turn red, screen may turn off, etc. After the panel reboots the home screen will appear and the LED will turn green. For the next 5 minutes the panel will update the backup partition. Do not power down or use the panel during this time
- 11- Eject the SD Card: ("Settings", enter your installer code (default is 1111), "SD Card" then "Safely Remove"

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

FIND IT



AUTOMATIC SOFTWARE UPDATES

Turning on automatic software updates enables the panel to check for new software version every 24hrs by default.

From the drop down menu select "Settings"

"Advanced Settings". (Installer/Dealer Code)

Touch "Upgrade Software"

Make sure the "Automatic Updates" button is checked.

Change update interval by selecting "Automatic Upgrade Interval"



QUESTIONS? Contact us at techsupport@golsys.com

FIND IT



SETTINGS



ADVANCED SETTINGS



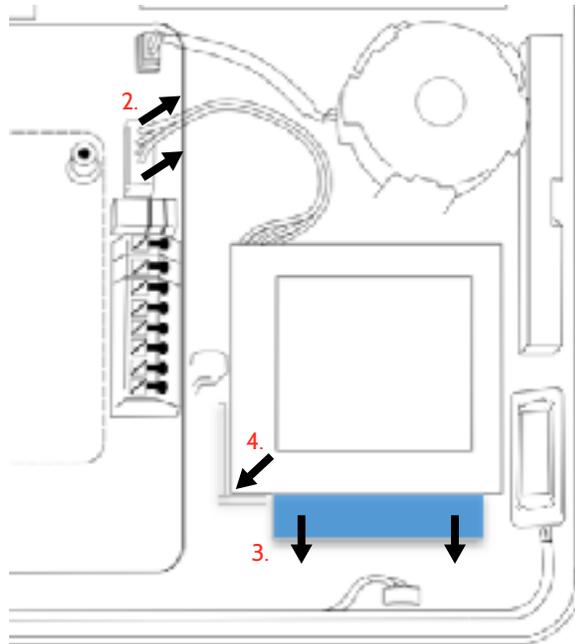
ENTER CODE (1111, 2222)



UPGRADE SOFTWARE

Note: For UL/cUL the automatic software update feature shall not be enabled.

BATTERY REPLACEMENT



1. **Power down panel:** Go to 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 the blue tab from under the battery downwards. This will peel away the tape holding the battery in place.
4. **Install New Battery:** Remove the protective film from the adhesive tape on the back of the battery and seat the battery into the bottom lefthand plastic corner. Plug the battery connector back into the board.

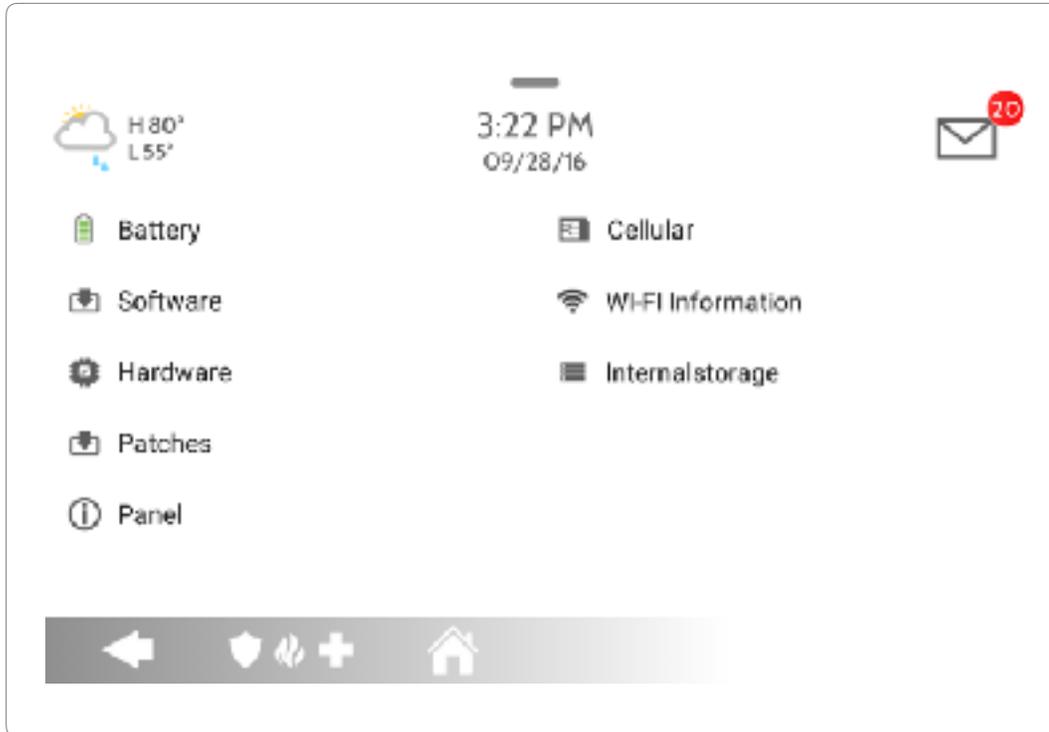
CAUTION:

Do **NOT** use a screwdriver or anything sharp that could puncture the battery.

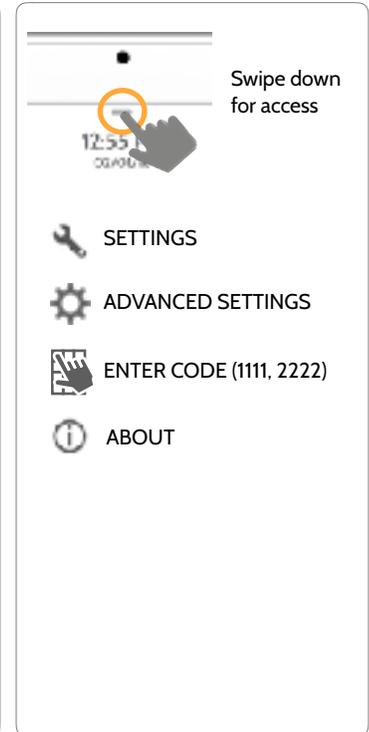
Do **NOT** pull on the battery cable to try and remove battery.

TROUBLESHOOTING

ABOUT



FIND IT



ABOUT

Item	Description	
Battery	Battery Status: Disconnected, Charging, Full	Battery Level: Displayed in %
Battery level	Displays the battery's charged percentage.	
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: Image Sensor 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

ABOUT

Item	Description	
Z-Wave	Home ID: Z-Wave Firmware Version: Z-Wave API Version:	Manufacturing ID: Product Type: Product ID:
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

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.

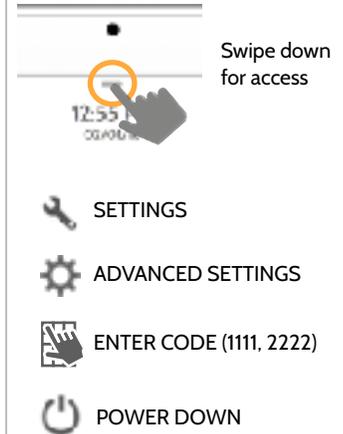
1. From the drop down menu Select “Settings”.
2. Select “Advanced Settings” then enter your installer code
3. Select “Power Down”
4. Wait for panel LED to turn off
5. Disconnect the power

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



QUESTIONS? Contact us at techsupport@golsys.com

FIND IT



PANEL REBOOT

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

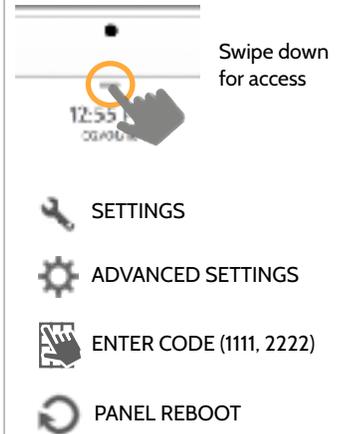
1. From the drop down menu Select “Settings”.
2. Select “Advanced Settings” then enter your installer code
3. Select “Panel Reboot”
4. Wait for the panel to restart

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

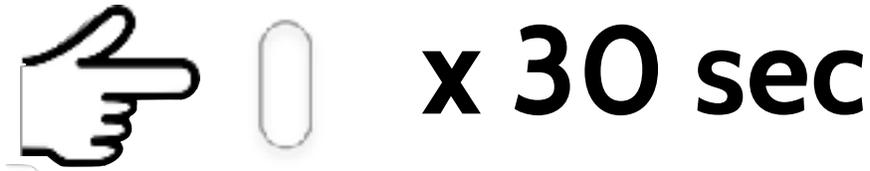


QUESTIONS? Contact us at techsupport@golsys.com

FIND IT



HARD REBOOT



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



QUESTIONS? Contact us at techsupport@golsys.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 or an SD card.
Help Videos	Checks help videos are installed in the panel.	1) Go to Settings/Advanced Settings/Installation -> Load Help Videos 2) Load All the Help videos in SD card and insert it into panel 3) Add the selected files from SD card to help videos list on the panel.
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	1) Check to ensure backplate is secure and installed properly. 2) Repeat test.
AC Status	Check panel AC power status	1) Inspect the wire leads are secure and properly connected on the terminal block and adapter. 2) Repeat test.
Internet Connection	Check panel's Internet connectivity	1) Go to Wifi Setting page, Enable Wifi and connect to a Wifi Network 2) Make sure Internet is available on the home router. You can check internet information in the "About" section. 3) Contact your network service provider on continued internet connectivity failure.
Wi-Fi	Tests whether panel is connected to Wifi network	1) Go to Wifi Setting page and enable wifi. 2) Connect to a Wifi Network
Upgrade Service	Checks that the panel can receive updates from the Golsys servers	1) Verify internet and Wi-Fi connections.
Z-Wave	Check panel's Z-Wave module operation	1) Reboot the panel and repeat test. 2) Master reset and repeat test
Sirens	Check that the panel's siren is functioning properly (Burglar, Auxiliary, Fire & CO).	1) Verify the siren is plugged in

CANNOT LOAD HELP VIDEOS

If your panel cannot load a help video you will receive an error message. Please ensure that your video(s) meet the requirements:

Acceptable File types:

.m4v

Total storage space:

200MB

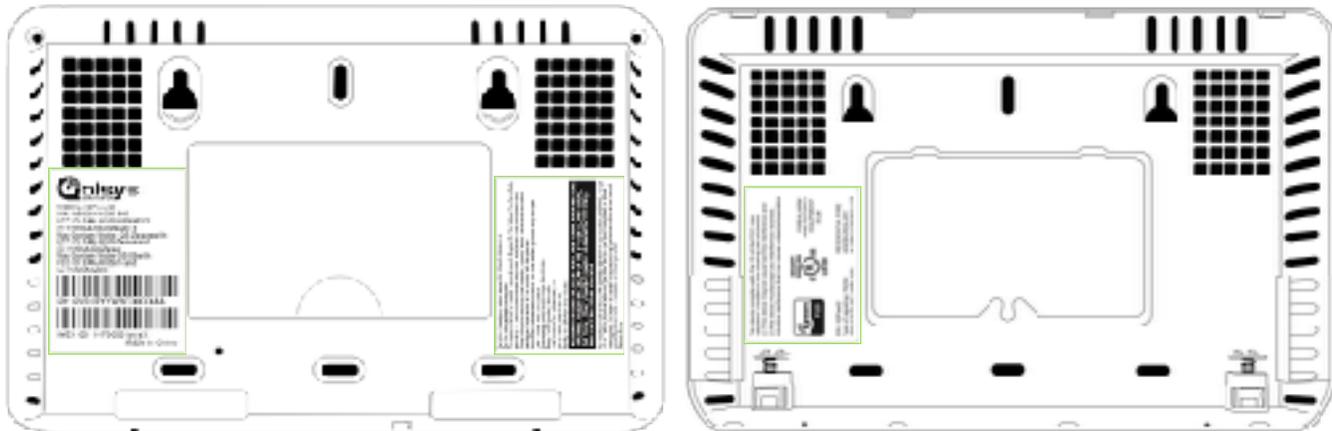
NOTE: videos look best

in aspect ratio

1280x800

IMPORTANT

Important warning and information can be found on the interior and exterior of the panel's mounting plate.



IMPORTANT

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 this transmitters must be installed to provide a separation distance of at least 20 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.

IMPORTANT

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.

SPECIFICATIONS



Items	Parameters	IQ Panel 2
Platform	Android OS	Android 5.1
LCD Display	Size	7" LCD
	Resolution	1280 x 800
	Brightness	300 cd/m2
	RGB	24bit
Touchscreen	Type	Capacitive glass multi-touch
User Codes	Up to 242	Role based (Dealer, Installer, Master, User, Guest, Duress)
Wireless	WiFi	Wi-Fi 802.11 a/b/g/n/ac dual band 2.4/5ghz - including built-in router capability
	Image Sensor	Supports up to 5 Alarm.com Image Sensors (if included)
	Z-Wave	Supports up to 134 devices (80 lights, 15 Smart Sockets, 6 Locks, 6 Thermostats, 21 Misc, 6 Garage Doors)
	Cellular	LTE (Bands 2,4,5,12,13,17)
	Security R/F	Encrypted 319.5MHz, up to 128 RF zones, with legacy device support
	Bluetooth	Qualcomm Bluetooth Low Energy (BLE) 4.0
Hardwire Input	Wired x2	2 non powered closed loop circuit with 4.7k EOL resistor
Siren Output	Wired x1	1 controlled output (open collector), 300mA max with a 12v power supply wired in series
Flash Memory	Internal Storage	12GB NAND Flash
SD Card Slot	Push-Push	Micro SD slot x 1
LED Indicator	Status LED	Green (Disarmed), Red (Armed)
Speaker	Stereo 1W x 2	Stereo speakers (unified audio)

SPECIFICATIONS



Items	Parameters	IQ Panel 2
Camera	Front Camera	5MP fixed focus
Microphone	Microphone	Stereo microphones x 2
Siren	Piezo	SPL minimum 85dB for UL985
Tamper	Tamper Switch	Reporting tamper release button
Battery	Type	Litium Polymer 3200mAh
Buttons	Standby	Right side button used for sleep/wake, hard reboot, and clean screen cancel
Mechanical	Dimension	5"H x 7.75"W x .75"D (195mm x 130mm x 23mm)
Power Supply	AC/DC	Output: 5v - 5.5v 1000mA DC, Input 100-240VAC 50/60Hz
Mount	Back Plate	Wall mount or table top (stand included)
Certification	UL/cUL	UL-985, UL-1023, UL-1635, UL-639, UL-498A, UL-634, ULC-634, ULC-S306, CSA-C22.2
	FCC	2AAJXQS-IQPANEL2 (may contain additional modules with separate FCC ID's)
	IC	11205A-QSIQPANEL2
	Safety	
Temperature	Operational	-10-50C, Note: not evaluated by UL/cUL
	Storage	-40 - 80C



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Software version: 2.0

Conforms to UL Std. S985, 1023. & 1635
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