The Qolsys IQ Panel 2 & 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.
ABOUT THIS GUIDE

This document outlines the basic hardware specifications and software directions to install and customize the IQ Panel 2 & 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.
<table>
<thead>
<tr>
<th>PAGE</th>
<th>SECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Panel Overview</td>
</tr>
<tr>
<td>6</td>
<td>Exterior Front</td>
</tr>
<tr>
<td>7</td>
<td>Interior</td>
</tr>
<tr>
<td>9</td>
<td>Wall Mount Option</td>
</tr>
<tr>
<td>10</td>
<td>Table Stand Option</td>
</tr>
<tr>
<td>11</td>
<td>Wiring Diagram</td>
</tr>
<tr>
<td>12</td>
<td>Powering the Panel</td>
</tr>
<tr>
<td>14</td>
<td>User Interface</td>
</tr>
<tr>
<td>15</td>
<td>Home Screen Overview</td>
</tr>
<tr>
<td>16</td>
<td>Message Center</td>
</tr>
<tr>
<td>16</td>
<td>Settings Tray</td>
</tr>
<tr>
<td>18</td>
<td>Programming</td>
</tr>
<tr>
<td>19</td>
<td>Advanced Settings</td>
</tr>
<tr>
<td>21</td>
<td>Setup Wizard</td>
</tr>
<tr>
<td>22</td>
<td>Installation</td>
</tr>
<tr>
<td>24</td>
<td>Installer/Dealer Settings</td>
</tr>
<tr>
<td>28</td>
<td>System Logs</td>
</tr>
<tr>
<td>29</td>
<td>Siren and Alarms</td>
</tr>
<tr>
<td>31</td>
<td>Security and Arming</td>
</tr>
<tr>
<td>34</td>
<td>Camera Settings</td>
</tr>
<tr>
<td>35</td>
<td>Sound</td>
</tr>
<tr>
<td>37</td>
<td>Z-Wave Device List</td>
</tr>
<tr>
<td>38</td>
<td>Devices</td>
</tr>
<tr>
<td>39</td>
<td>Security Sensors</td>
</tr>
<tr>
<td>40</td>
<td>Auto Learn Sensor</td>
</tr>
<tr>
<td>41</td>
<td>Add Sensor</td>
</tr>
<tr>
<td>42</td>
<td>Sensor Type</td>
</tr>
<tr>
<td>44</td>
<td>Sensor Name</td>
</tr>
<tr>
<td>46</td>
<td>Chime Type</td>
</tr>
<tr>
<td>47</td>
<td>Sensor Groups</td>
</tr>
<tr>
<td>50</td>
<td>Sensor Name</td>
</tr>
<tr>
<td>51</td>
<td>Chime Type</td>
</tr>
<tr>
<td>52</td>
<td>Sensor Groups</td>
</tr>
<tr>
<td>54</td>
<td>Sensor Name</td>
</tr>
<tr>
<td>55</td>
<td>Chime Type</td>
</tr>
<tr>
<td>56</td>
<td>Sensor Groups</td>
</tr>
<tr>
<td>58</td>
<td>Sensor Name</td>
</tr>
<tr>
<td>59</td>
<td>Chime Type</td>
</tr>
<tr>
<td>60</td>
<td>Sensor Groups</td>
</tr>
<tr>
<td>62</td>
<td>Wi-Fi Devices</td>
</tr>
<tr>
<td>64</td>
<td>Access Point Settings</td>
</tr>
<tr>
<td>65</td>
<td>AP Connected Devices</td>
</tr>
<tr>
<td>66</td>
<td>IQ Remote Devices</td>
</tr>
<tr>
<td>67</td>
<td>Z-Wave Devices</td>
</tr>
<tr>
<td>68</td>
<td>Add Device</td>
</tr>
<tr>
<td>69</td>
<td>Clear Device</td>
</tr>
<tr>
<td>70</td>
<td>Delete Failed Device</td>
</tr>
<tr>
<td>71</td>
<td>Remove All Devices</td>
</tr>
<tr>
<td>72</td>
<td>View/Edit Associations</td>
</tr>
<tr>
<td>73</td>
<td>Z-Wave Settings</td>
</tr>
<tr>
<td>75</td>
<td>Bluetooth Devices</td>
</tr>
<tr>
<td>76</td>
<td>Add Device</td>
</tr>
<tr>
<td>77</td>
<td>Edit Device</td>
</tr>
<tr>
<td>78</td>
<td>Delete Device</td>
</tr>
<tr>
<td>79</td>
<td>Remove All Devices</td>
</tr>
<tr>
<td>80</td>
<td>Settings</td>
</tr>
<tr>
<td>81</td>
<td>Add Speaker</td>
</tr>
<tr>
<td>83</td>
<td>System Tests</td>
</tr>
<tr>
<td>85</td>
<td>Wi-Fi Test</td>
</tr>
<tr>
<td>86</td>
<td>Sensor Test</td>
</tr>
<tr>
<td>90</td>
<td>Cellular Test</td>
</tr>
<tr>
<td>91</td>
<td>Image Sensor Config</td>
</tr>
<tr>
<td>92</td>
<td>Z-Wave Test</td>
</tr>
<tr>
<td>93</td>
<td>Rediscover Network</td>
</tr>
<tr>
<td>94</td>
<td>Neighbor Info</td>
</tr>
<tr>
<td>95</td>
<td>Counters</td>
</tr>
<tr>
<td>97</td>
<td>Z-Wave Diagnostics</td>
</tr>
<tr>
<td>98</td>
<td>Advanced Z-Wave Diag</td>
</tr>
<tr>
<td>99</td>
<td>PowerG Test</td>
</tr>
<tr>
<td>100</td>
<td>Panel Glass Break Test</td>
</tr>
<tr>
<td>103</td>
<td>Dual Path Test</td>
</tr>
<tr>
<td>104</td>
<td>Daughter Cards Test</td>
</tr>
<tr>
<td>105</td>
<td>Panel Test</td>
</tr>
<tr>
<td>107</td>
<td>User Management</td>
</tr>
<tr>
<td>108</td>
<td>Dealer Contact</td>
</tr>
<tr>
<td>109</td>
<td>Connecting to Wi-Fi</td>
</tr>
<tr>
<td>110</td>
<td>Weather</td>
</tr>
<tr>
<td>111</td>
<td>Photo Frame</td>
</tr>
<tr>
<td>114</td>
<td>Load Images from SD Card</td>
</tr>
<tr>
<td>115</td>
<td>Load Help Videos</td>
</tr>
<tr>
<td>117</td>
<td>Maintenance</td>
</tr>
<tr>
<td>118</td>
<td>Upgrade Software</td>
</tr>
<tr>
<td>119</td>
<td>Upgrade Software Using Wi-Fi</td>
</tr>
<tr>
<td>120</td>
<td>Software Update Via SD Card</td>
</tr>
<tr>
<td>121</td>
<td>Automatic Software Updates</td>
</tr>
<tr>
<td>121</td>
<td>Battery Replacement</td>
</tr>
<tr>
<td>123</td>
<td>Troubleshooting</td>
</tr>
<tr>
<td>126</td>
<td>Power Down</td>
</tr>
<tr>
<td>127</td>
<td>Panel Reboot</td>
</tr>
<tr>
<td>128</td>
<td>Hard Reboot</td>
</tr>
<tr>
<td>129</td>
<td>Panel Test Troubleshooting</td>
</tr>
<tr>
<td>131</td>
<td>Cannot Load Help Videos</td>
</tr>
<tr>
<td>132</td>
<td>Legal</td>
</tr>
<tr>
<td>135</td>
<td>Specifications</td>
</tr>
<tr>
<td>137</td>
<td>Supported S-Line Sensors</td>
</tr>
<tr>
<td>138</td>
<td>Supported PowerG Sensors</td>
</tr>
</tbody>
</table>
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 Qolsys model QS5110-P840 smoke detector.
EXTERIOR FRONT

Panel Camera

User Interface

Page Indicator

LED Status Light

Microphones
EXTERIOR BACK

- Mounting holes: single, double or triple "gang" box compatible
- Micro SD Card Slot
- Speaker
- RF Antenna routing hole
- Optional locking screw for wall mount
- Optional locking screws for table mount
- Siren
- Microphone
- Rear Access Cover
The battery should NEVER be disconnected without following proper power-down procedures (page 126)
Failure to comply may result in data corruption, panel failure, and a void of the manufacturer’s warranty

*CAUTION
INSTALLING THE PANEL
INSTALLING THE PANEL

WALL MOUNT OPTION

1. 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.
2. 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. Using the provided hole in the lower right hand side of the backplate as a template, drill a 1/4” hole in the wall 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 the power supply to the barrel jack or to the (+/Red) and (-/Black) terminals if using a custom length wire.

1. Latch the bottom of the panel into place, ensuring the RF antenna and power wire are routed into the wall and not pinched.
2. Swing the panel up towards the 4 snap tabs at the top.

Firmly pinch “diagonally and down” from the top front of the bezel at all 4 snap tab locations to ensure proper closure. You will hear a “pop” or “snap” sound when each tab has closed properly and the gap along the top should be tightly seated.

**IMPORTANT:** Not properly closing the panel could result in damage to the backplate or false panel tampers.
INSTALLING THE PANEL

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

IMPORTANT IF USING CUSTOM LENGTH WIRE:
- 5.5vDC Transformer: Use 18AWG wire no longer than 25ft to ensure sufficient power is received at the panel.
- 7vDC Transformer: Use 18AWG wire no longer than 100ft to ensure sufficient power is received at the panel.

* A 7vDC power supply is only supported on panels with hardware revision E or newer.

NOTE: Inputs are used only for Burglary applications.

NOTE: Use only UL/cUL listed external siren in UL/cUL listed installations. Rating: 12vDC/300mA
Press and hold the power button on the right side of the panel for 3 seconds to power up.

Connect power supply.
WARNING! Use a 5vDC to 7vDC Power Supply ONLY

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

- **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.
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.
PROGRAMMING
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.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td>Adjust brightness, font size &amp; 12/24 hour time</td>
</tr>
<tr>
<td>SD Card</td>
<td>Mount, unmount and manage SD Cards that are installed in a panel</td>
</tr>
<tr>
<td>Weather Temperature</td>
<td>Toggle between Farenheight and Celcius</td>
</tr>
<tr>
<td>Status</td>
<td>View the &quot;Current Status&quot; 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</td>
</tr>
<tr>
<td>Z-Wave Device Status</td>
<td>View the &quot;Current Status&quot; of Z-Wave devices: Name, Type, Status (Normal, Failure), and Battery. Also view “Alerts” and “History” for Z-Wave globally</td>
</tr>
<tr>
<td>Other Z-Wave Devices</td>
<td>Shows Z-Wave devices that are learned into the panel but that are not part of the main user interface (Lights, Locks, Thermostats &amp; Garage Doors)</td>
</tr>
</tbody>
</table>
## SETTINGS

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automation</td>
<td>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:</td>
</tr>
<tr>
<td></td>
<td>- <strong>Night</strong>: Turns light on at 7pm and off at 6am</td>
</tr>
<tr>
<td></td>
<td>- <strong>Evening</strong>: Turns light on at 7pm and off at 11pm</td>
</tr>
<tr>
<td></td>
<td>- <strong>Front Door</strong>: 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)</td>
</tr>
<tr>
<td></td>
<td>- <strong>Doorbell</strong>: 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)</td>
</tr>
<tr>
<td>License</td>
<td>Qolsys End User License Agreement</td>
</tr>
<tr>
<td>Activity Monitor</td>
<td>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:</td>
</tr>
<tr>
<td></td>
<td>- <strong>Quick Access</strong>: 300 second temporary access</td>
</tr>
<tr>
<td></td>
<td>- <strong>Deactivate</strong>: Disarms 24 hour sensors until they are re-activated manually</td>
</tr>
<tr>
<td>Advanced Settings</td>
<td>Access advanced settings &amp; programming. A valid Dealer (default 2222), Installer (default 1111) or Master Code (default 1234) is required</td>
</tr>
</tbody>
</table>

QOLSYS CONFIDENTIAL AND PROPRIETARY
PAGE 19 OF 139
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)**
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.

Steps:
- Welcome
- Wi-Fi
- System Check
- Update
- Security
- Panel Glass Break
- Z-Wave
- Bluetooth
- Users
- Dealer
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.*
# Installer/Dealer Settings

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account Number</td>
<td>blank</td>
<td>Security provider account number (up to 10 characters)</td>
</tr>
<tr>
<td>Power Management</td>
<td>Enabled</td>
<td>An energy-saving function when running on battery power only</td>
</tr>
<tr>
<td>SIA Power Restoration</td>
<td>Disabled</td>
<td>Turn on or off sensor hold for 60 seconds during power restore</td>
</tr>
<tr>
<td>Loss of Supervisory Signals for Emergency Sensors</td>
<td>4</td>
<td>Select the length in hours (4,12,24) before reporting a loss of supervision on life safety devices. <strong>NOTE:</strong> For UL/cUL the wireless supervision window for Emergency sensors (Smoke, Heat &amp; CO Detectors) shall be set to 4h</td>
</tr>
<tr>
<td>Loss of Supervisory Signals for Z-Wave</td>
<td>4</td>
<td>Select the length in hours (4/24hrs) before reporting a loss of supervision on Z-Wave Sirens.</td>
</tr>
<tr>
<td>Loss of Supervisory Signals for Non Emergency Sensors</td>
<td>24</td>
<td>Select the length in hours (4,12,24) before reporting a loss of supervision on security devices</td>
</tr>
</tbody>
</table>

* Additional options available only through the Dealer Code.
### INSTALLER/DEALER SETTINGS

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loss of Cell Signal Timeout</td>
<td>30</td>
<td>Select the length in minutes (10-120) before reporting a loss in cellular signal</td>
</tr>
<tr>
<td>Communication Test</td>
<td>Monthly</td>
<td>Choose Never, Weekly or Monthly when enabling the automated communication test</td>
</tr>
<tr>
<td>SIA Limits</td>
<td>Enabled</td>
<td>When enabled, the range for entry and exit delays is as follows:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Entry delay: 30-240 seconds, Exit Delay: 45-254 seconds</td>
</tr>
<tr>
<td></td>
<td></td>
<td>When disabled, the range for entry and exit delays are as follows:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Entry delay: 5 to 240 seconds, Exit delay: 5 to 254 seconds</td>
</tr>
<tr>
<td></td>
<td></td>
<td>When enabled the range for Dialer Delay is: 15 to 45 seconds</td>
</tr>
<tr>
<td></td>
<td></td>
<td>When disabled the range for Dialer Delay is: 0 to 254 seconds</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Languages</td>
<td>English</td>
<td>Set the panel's primary language to English(USA), French(Canada), Spanish(Latin America)</td>
</tr>
<tr>
<td>Favorite Languages</td>
<td>English/Spanish</td>
<td>Set the Panel's language toggle to your favorite 2 languages using French, English or Spanish</td>
</tr>
<tr>
<td>Hardware Power Button</td>
<td>Enabled</td>
<td>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</td>
</tr>
<tr>
<td>Jam Detection*</td>
<td>Disabled</td>
<td>When enabled the system can detect when an unusual amount of RF signals are being transmitted leading to a potential panel malfunction. This event reports to the central station when enabled</td>
</tr>
</tbody>
</table>
## INSTALLER/DEALER SETTINGS

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jam Detection Local Alarm*</td>
<td>Disabled</td>
<td>When enabled the system will sound a local alarm. “Jam Detection” must be active for this to function properly.</td>
</tr>
<tr>
<td>Note: Not evaluated by UL/cUL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RF Jam Sensitivity Level*</td>
<td>Normal</td>
<td>Choose between HIGH and NORMAL sensitivity levels</td>
</tr>
<tr>
<td>Open/Close Reports Allowed For Auto Learn</td>
<td>Enabled</td>
<td>Rather than sending a tamper to auto learn a sensor, enabling this will allow an open/close of the sensor to trigger auto learn</td>
</tr>
<tr>
<td>Panel Glass Break Detector</td>
<td>Disabled</td>
<td>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</td>
</tr>
<tr>
<td>Panel Motion Detector</td>
<td>Disabled</td>
<td>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. Please note: 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.</td>
</tr>
<tr>
<td>WI-FI Warning Messages</td>
<td>Enabled</td>
<td>When enabled the panel will display a pop up when entering “Settings” letting the end user know that Wi-Fi has been disconnected.</td>
</tr>
</tbody>
</table>
# INSTALLER/DEALER SETTINGS

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delete All Sensors</td>
<td>Deletes all security sensors and Bluetooth devices programmed in the panel</td>
</tr>
<tr>
<td>Delete All Z-Wave Devices</td>
<td>Deletes all Z-Wave devices programmed in the panel. This does not clear the device</td>
</tr>
<tr>
<td>Master Reset*</td>
<td>Restores panel to factory settings and erases all content</td>
</tr>
<tr>
<td>Data Recycle</td>
<td>This feature erases all User data previously stored</td>
</tr>
<tr>
<td>Reset Panel With Last Back-up Image*</td>
<td>Restores the panel to factory settings using the last known good software image</td>
</tr>
</tbody>
</table>
System logs allow the panel to send non-customer identifying information to the server for troubleshooting and bug identification.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upload logs to the server</td>
<td>Requires manual push</td>
<td>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.</td>
</tr>
<tr>
<td>Auto Upload Logs</td>
<td>Disabled</td>
<td>Automatically upload the system’s log to the servers every 24 hours</td>
</tr>
<tr>
<td>Log Level</td>
<td>Debug</td>
<td>Tell the panel how much information to record in log files. 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.</td>
</tr>
</tbody>
</table>

FIND IT

- **Swipe down for access**
- **SETTINGS**
- **ADVANCED SETTINGS**
- **ENTER CODE (1111, 2222)**
- **INSTALLATION**
- **SYSTEM LOGS**
## Siren and Alarms

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
</table>
| Panel Sirens             | All Sirens On | **All Sirens Off:** This will disable the siren for all alarm types including any paired or hardwired external sirens. After 30 mins the fire siren will be re-enabled.  
**All Sirens On:** This is the default setting which enables the siren for all alarms  
**Installer/Test Mode:** This disables the siren for all alarm types including any paired or hardwired external sirens for 30 mins then all sirens are re-enabled |
| Siren Annunciation       | Disabled | Panel siren pauses periodically to announce which locations have triggered the alarm.  
*UL Note: for UL/cUL this feature is not allowed for Fire, CO, Burglar Alarm* |
| 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 |
# Siren and Alarms

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dialer Delay</td>
<td>:30</td>
<td>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</td>
</tr>
<tr>
<td>Siren Timeout</td>
<td>4 min</td>
<td>Determine how long before siren stops sounding during an alarm event (4 minutes to 8 minutes). For UL/cUL the minimum bell time out shall be set to 5min.</td>
</tr>
<tr>
<td>Water/Freeze Siren</td>
<td>Disabled</td>
<td>When enabled, siren will sound when a water or freeze detector is triggered. When disabled, the panel emits a “water” tone</td>
</tr>
<tr>
<td>Police Panic</td>
<td>Enabled</td>
<td>Allows Police Panic to be enabled or disabled</td>
</tr>
<tr>
<td>Fire Panic</td>
<td>Enabled</td>
<td>Allows Fire Panic to be enabled or disabled</td>
</tr>
<tr>
<td>Auxiliary Panic</td>
<td>Enabled</td>
<td>Allows Auxiliary Panic to be enabled or disabled</td>
</tr>
<tr>
<td>Allow Master Code To Access Siren and Alarms</td>
<td>Disabled</td>
<td>Allow the master code to access these features and settings. Note: not allowed for UL/cUL</td>
</tr>
</tbody>
</table>
# SECURITY AND ARMING

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dealer Code</td>
<td>2222</td>
<td>Code to access all options</td>
</tr>
<tr>
<td>Installer Code</td>
<td>1111</td>
<td>Code to access installer options only</td>
</tr>
<tr>
<td>Swinger Shutdown</td>
<td>Enabled</td>
<td>Determines whether the panel allows the same sensor to trip the alarm more than once (enabled), or not (disabled)</td>
</tr>
<tr>
<td>Swinger Shutdown Count</td>
<td>1</td>
<td>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</td>
</tr>
<tr>
<td>Panel Tamper</td>
<td>Enabled</td>
<td>This setting enables or disables the Panel Tamper switch on the back of the panel</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>UL Note: for UL/cUL this setting shall be Enabled</em></td>
</tr>
<tr>
<td>Secure Arming</td>
<td>Disabled</td>
<td>Require user code for arming panel. <em>Note: this option shall be enabled for UL/cUL</em></td>
</tr>
</tbody>
</table>
## SECURITY AND ARMING

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refuse Arming When Battery Low</td>
<td>Disabled</td>
<td>Will not allow panel to arm if battery is low (below 8%)</td>
</tr>
<tr>
<td>Auto Bypass</td>
<td>Enabled</td>
<td>Toggle whether or not to bypass open or tampered sensors automatically. Note: Shall be disabled for UL/cUL</td>
</tr>
<tr>
<td>Auto Stay</td>
<td>Enabled</td>
<td>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</td>
</tr>
<tr>
<td>Arm Stay - No Delay</td>
<td>Enabled</td>
<td>Arm stay immediately with no countdown timer</td>
</tr>
<tr>
<td>Auto Exit Time Extension</td>
<td>Enabled</td>
<td>Automatically extend countdown timer if delay door is opened during countdown process a second time</td>
</tr>
<tr>
<td>Keyfob Instant Arming</td>
<td>Enabled</td>
<td>When enabled, turns off exit delay if keyfob is used to arm the system</td>
</tr>
<tr>
<td>Keyfob Alarm Disarm</td>
<td>Disabled</td>
<td>When enabled this will Allow a keyfob to disarm alarm events, except panics originating from the same key fob</td>
</tr>
<tr>
<td>Keyfob Disarming</td>
<td>Enabled</td>
<td>When Disabled, a Keyfob will not be able to disarm the panel</td>
</tr>
</tbody>
</table>
## SECURITY AND ARMING

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allow Master Code to Access Security and Arming</td>
<td>Disabled</td>
<td>Allow the master code to access these features and settings. Note: this option shall be disabled for UL/cUL.</td>
</tr>
<tr>
<td>Normal Entry Delay</td>
<td>30 Secs</td>
<td>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.</td>
</tr>
<tr>
<td>Normal Exit Delay</td>
<td>60 Secs</td>
<td>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”</td>
</tr>
<tr>
<td>Long Entry Delay</td>
<td>100 Secs</td>
<td>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.</td>
</tr>
<tr>
<td>Long Exit Delay</td>
<td>120 Secs</td>
<td>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”</td>
</tr>
</tbody>
</table>
CAMERA SETTINGS

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secure Delete Images</td>
<td>Enabled</td>
<td>When enabled, a code is required to delete disarm and image sensor photos</td>
</tr>
<tr>
<td>Disarm Photos</td>
<td>Enabled</td>
<td>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.</td>
</tr>
<tr>
<td>Alarm Photos</td>
<td>Enabled</td>
<td>When enabled, the built-in camera will take a single photograph during an alarm event.</td>
</tr>
<tr>
<td>Alarm Videos</td>
<td>Enabled</td>
<td>When an alarm is triggered the panel will record a video clip for 4 mins from it's built in 5mp panel camera.</td>
</tr>
<tr>
<td>Settings Photos</td>
<td>Disabled</td>
<td>Whenever Advanced Settings are accessed the panel will take and store a photo.</td>
</tr>
<tr>
<td>Allow Master Code to Access Image Settings</td>
<td>Disabled</td>
<td>Allow the master code to access these features and settings.</td>
</tr>
</tbody>
</table>

FIND IT

- SETTINGS
- ADVANCED SETTINGS
- ENTER CODE (1111, 2222)
- INSTALLATION
- CAMERA SETTINGS

Note: Supplementary feature not evaluated by UL/cUL
**SOUND**

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>Controls the panel’s voice volume, beeps and chime volume and the media volume (help videos) through individual sliders</td>
</tr>
<tr>
<td>Edit Chimes</td>
<td>Allows you to select from various chimes for each individual device</td>
</tr>
<tr>
<td>Voice Settings</td>
<td>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)</td>
</tr>
<tr>
<td>Chime Settings</td>
<td>Indicates whether the panel should emit tones/beeps. Sensors, Panel and Activity Monitoring Sensors can all be toggled independently. (unchecking box disables feature)</td>
</tr>
<tr>
<td>All Trouble Beeps</td>
<td>Toggles all sensor and panel trouble beeps on or off. By default all trouble beeps are disabled</td>
</tr>
</tbody>
</table>

**FIND IT**

- Swipe down for access
- SETTINGS
- ADVANCED SETTINGS
- ENTER CODE (1111, 2222)
- SOUND
# SOUND

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Low Battery</td>
<td>Panel sounds when a sensor battery is low. Chime type and frequency are set below. By default these sounds are disabled.</td>
</tr>
<tr>
<td>Sensor Tamper Beeps</td>
<td>Panel sounds when a sensor is tampered. Chime type and frequency are set below. By default these sounds are disabled.</td>
</tr>
<tr>
<td>Panel Tamper Beeps</td>
<td>Panel sounds when tampered or opened. Chime type and frequency are set below. By default these sounds are disabled.</td>
</tr>
<tr>
<td>Edit Trouble Beep Chimes</td>
<td>Select the chime type for Sensor Low Battery, Sensor Tamper, and Panel Tamper.</td>
</tr>
<tr>
<td>Trouble Beeps Timeout</td>
<td>Determines the amount of time between each trouble beep. Length can be set between 3-60 mins. (default is 30 mins).</td>
</tr>
<tr>
<td>Fire Safety Device Trouble Beeps</td>
<td>Panel will sound a trouble alert if a fire safety device is tampered, failed or has a low battery (disabled by default)</td>
</tr>
<tr>
<td>Touch Sounds</td>
<td>When touching an option the screen will make a sound. This is enabled by default.</td>
</tr>
</tbody>
</table>
## Z-WAVE DEVICE LIST*

**DEVICE LIST**
Shows device specific information for programmed Z-Wave devices.

### Device List Table

<table>
<thead>
<tr>
<th>ID</th>
<th>Type</th>
<th>Group</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Light</td>
<td>None</td>
<td>Light</td>
</tr>
<tr>
<td>3</td>
<td>Light</td>
<td>None</td>
<td>Bedroom Light</td>
</tr>
<tr>
<td>4</td>
<td>Door Lock</td>
<td>None</td>
<td>Front Door</td>
</tr>
<tr>
<td>5</td>
<td>Thermostat</td>
<td>None</td>
<td>Thermostat</td>
</tr>
</tbody>
</table>

*This page only available through the Dealer Code.*

**FIND IT**

- **SETTINGS**
- **ADVANCED SETTINGS**
- **ENTER CODE (1111, 2222)**
- **Z-WAVE DEVICE LIST**

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

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

*QOLSYS CONFIDENTIAL AND PROPRIETARY*  
PAGE 37 OF 139
*Z-Wave Devices Unsupported icon only available through the Dealer Code.
SECURITY SENSORS

Security Sensors
Add, edit or delete 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

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.
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. For PowerG contacts, hold the “enroll” button until the yellow LED flashes.

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:** The hardwire inputs on the panel can only be programmed as a Door/Window, Motion or Glass Break “Sensor Type”.

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 2+ 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

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. Choose Sensor Type from list

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

6. Choose Chime Type from list

7. Indicate Sensor Group from list

8. Indicate whether you want Voice Prompts on or off

9. Click “Add New” to save the information and complete the process.
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
Siren
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.
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.
When you select “Custom Description” as your sensor name the android keyboard will appear. Type in the desired name (up to 24 characters) and click “Done.” The name will appear in the field below “Sensor Name.”
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 GROUPS**

IQ Panel 2+ 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**

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Entry-Exit- Normal Delay</td>
<td>Y</td>
<td>Gives a period of time to exit the home or to disarm the panel when returning before sounding the alarm</td>
</tr>
<tr>
<td>12</td>
<td>Entry-Exit- Long Delay</td>
<td>Y</td>
<td>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”</td>
</tr>
<tr>
<td>13</td>
<td>Instant Perimeter D/W</td>
<td>Y</td>
<td>Door or window that triggers an alarm <strong>instantly</strong> when system is armed</td>
</tr>
<tr>
<td>14</td>
<td>Instant Interior Door</td>
<td>Y</td>
<td>An interior sensor that triggers an alarm <strong>instantly</strong> while armed to both stay and away. Does not trip if an entry/exit sensor is tripped first</td>
</tr>
<tr>
<td>16</td>
<td>Away Instant- Follower Delay</td>
<td>Y</td>
<td>Interior door that <strong>triggers alarm instantly</strong> when system is armed to away mode only</td>
</tr>
</tbody>
</table>
### DOOR/WINDOW

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Local Safety Sensor</td>
<td>Y</td>
<td>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</td>
</tr>
<tr>
<td>8</td>
<td>Reporting Safety Sensor</td>
<td>Y</td>
<td>This sensor reports to the central station and <strong>triggers</strong> an alarm when “Activity Monitoring” is active, regardless of panel status</td>
</tr>
<tr>
<td>9</td>
<td>Delayed Reporting Safety Sensor</td>
<td>Y</td>
<td>This sensor reports to the central station and triggers an alarm when &quot;Activity Monitoring&quot; is active, regardless of panel status. This sensor has an entry delay</td>
</tr>
</tbody>
</table>

*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*
### SENSOR GROUPS

#### MOTION/IMAGE SENSOR

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>Away- Instant Motion</td>
<td>Y</td>
<td>Active only when armed to “Away”, and trips instantly when motion is detected. Does <strong>not</strong> trip if an entry/exit sensor is tripped first</td>
</tr>
<tr>
<td>15</td>
<td>Stay- Instant Motion</td>
<td>Y</td>
<td>Active in both “Stay” &amp; “Away” modes, and trips instantly when motion is detected. Does <strong>not</strong> trip if an entry/exit sensor is tripped first</td>
</tr>
<tr>
<td>35</td>
<td>Stay- Delay Motion</td>
<td>Y</td>
<td>Active in both “Stay” &amp; “Away” modes. Triggers an entry delay when motion is detected. Does <strong>not</strong> trip if an entry/exit sensor is tripped first</td>
</tr>
<tr>
<td>20</td>
<td>Away- Delay Motion</td>
<td>Y</td>
<td>Active when armed to “Away”. Triggers an entry delay when motion is detected. Does <strong>not</strong> trip if an entry/exit sensor is tripped first</td>
</tr>
<tr>
<td>25</td>
<td>Safety Motion</td>
<td>Y</td>
<td>This sensor does <strong>not</strong> 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</td>
</tr>
</tbody>
</table>

*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.*
## Glass Break

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

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Glass Break</td>
<td>Y</td>
<td>Active in both “Stay” and “Away” mode</td>
</tr>
<tr>
<td>17</td>
<td>Glass Break -Away Only</td>
<td>Y</td>
<td>Active in “Away” mode only</td>
</tr>
</tbody>
</table>

## Key Fob

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

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

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

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

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

### SMOKE DETECTOR/HEAT

*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.

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>Smoke-Heat</td>
<td>Y</td>
<td>Triggers an alarm when sensor detects smoke/rapid rise in heat</td>
</tr>
</tbody>
</table>

### SMOKE-M

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

### CO DETECTOR

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

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>34</td>
<td>CO</td>
<td>Y</td>
<td>Triggers an alarm when sensor detects Carbon Monoxide</td>
</tr>
</tbody>
</table>
## HARDWIRE TRANSLATOR

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Takeover</td>
<td>Y</td>
<td>Triggers an alarm when sensor is tampered in “Stay” or “Away” mode</td>
</tr>
</tbody>
</table>

## WIRELESS TRANSLATOR

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Translator</td>
<td>Y</td>
<td>Triggers an alarm when sensor is tampered in “Stay” or “Away” mode</td>
</tr>
</tbody>
</table>
**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*

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

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

### 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*

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Shock-Glass-Break</td>
<td>Y</td>
<td>Arms and trips shock sensors immediately when armed to both “Stay” and “Away”</td>
</tr>
<tr>
<td>17</td>
<td>Glass-Break-Away Only</td>
<td>Y</td>
<td>Arms and trips shock sensors immediately when armed only to “Away”</td>
</tr>
</tbody>
</table>

**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

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

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>52</td>
<td>Freeze</td>
<td>Y</td>
<td>Triggers an alarm when sensor detects low temperatures. <strong>UL NOTE:</strong> temperature sensor functionality has not been evaluated by UL/cUL</td>
</tr>
</tbody>
</table>

### TILT

*345 MHz tilt sensors can be programmed as “Loop” 3 only

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Entry-Exit- Normal Delay</td>
<td>Y</td>
<td>Triggers alarm after “normal delay” expires. Arms with both “Stay” and “Away”</td>
</tr>
<tr>
<td>12</td>
<td>Entry-Exit- Long Delay</td>
<td>Y</td>
<td>Triggers alarm after “long delay” expires. Arms with both “Stay” and “Away”</td>
</tr>
<tr>
<td>25</td>
<td>Garage Tilt- Safety Tilt</td>
<td>Y</td>
<td>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. <strong>UL NOTE:</strong> Functionality in conjunction with garage door openers has not been evaluated by UL/cUL</td>
</tr>
</tbody>
</table>
# Sensor Groups

## Door Bell

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Local Safety Sensor</td>
<td>Y</td>
<td>This sensor does <strong>not</strong> 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</td>
</tr>
</tbody>
</table>

## Siren

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>Siren</td>
<td>Y</td>
<td>Used for supervising Z-Wave sirens for wireless connectivity. Reports to the central station.</td>
</tr>
<tr>
<td>25</td>
<td>Local Safety Sensor</td>
<td>Y</td>
<td>Used for supervising Z-Wave sirens for wireless connectivity. Local supervision only. Does <strong>NOT</strong> report to the central station.</td>
</tr>
</tbody>
</table>
**DOOR/WINDOW-M**  (For use only with Multi-function Door/Window Sensors)

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Entry-Exit- Normal Delay</td>
<td>Y</td>
<td>Gives a period of time to exit the home or to disarm the panel when returning before sounding the alarm</td>
</tr>
<tr>
<td>12</td>
<td>Entry-Exit- Long Delay</td>
<td>Y</td>
<td>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”</td>
</tr>
<tr>
<td>13</td>
<td>Instant Perimeter D/W</td>
<td>Y</td>
<td>Door or window that triggers alarm <strong>instantly</strong> when system is armed</td>
</tr>
<tr>
<td>14</td>
<td>Instant Interior Door</td>
<td>Y</td>
<td>An interior sensor that triggers an alarm <strong>instantly</strong> while armed to both stay and away. Does not trip if an entry/exit sensor is tripped first</td>
</tr>
<tr>
<td>16</td>
<td>Away Instant- Follower Delay</td>
<td>Y</td>
<td>Interior door that <strong>triggers alarm instantly</strong> when system is armed to away mode only</td>
</tr>
</tbody>
</table>
## DOOR/WINDOW-M (For use only with Multi-function Door/Window Sensors)

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Local Safety Sensor</td>
<td>Y</td>
<td>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</td>
</tr>
<tr>
<td>8</td>
<td>Reporting Safety Sensor</td>
<td>Y</td>
<td>This sensor reports to the central station and triggers an alarm when “Activity Monitoring” is active, regardless of panel status</td>
</tr>
<tr>
<td>9</td>
<td>Delayed Reporting Safety Sensor</td>
<td>Y</td>
<td>This sensor reports to the central station and triggers an alarm when &quot;Activity Monitoring&quot; is active, regardless of panel status. This sensor has an entry delay</td>
</tr>
</tbody>
</table>

## OCCUPANCY SENSOR

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAME</th>
<th>SUPERVISED</th>
<th>SCENARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Occupancy Sensor</td>
<td>Y</td>
<td>This sensor group is to be used for monitoring activity in the home. This group does not report</td>
</tr>
</tbody>
</table>
Voice prompts annunciate 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 indicates the sensor’s incoming frequency when pairing to the IQ Panel 2 and IQ Panel 2+.

For the IQ Panel 2 you will see traditional SecurityRF-319 for legacy sensors and S-Line for Qolsys Encrypted sensors.

IQ Panel 2+ will show the following options depending on the pre-installed RF Daughter Card:

- PowerG
- SecurityRF-319
- S-Line
- SecurityRF-345
- 345RF 2G
- SecurityRF-433
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 2’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.
To connect to a Wi-Fi network, follow the steps below:

1. Swipe down from the top menu bar and select settings.
2. Touch Advanced Settings (Installer Code)
3. Then touch “Wi-Fi”
4. 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)
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
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 reconnect 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.

1. Connect the IQ Remote to the panel’s access point or to the same Wi-Fi network the panel is connected to. Please note: IQ Remote only supports 2.4Ghz networks

2. Select “Pair” on the panel. Similar to “WPS” this will initiate a discovery process on the panel.

3. Select “GO” or “Pair” on the IQ Remote. This will find the panel on the network and connect to it.

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 or delete the device.

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.
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**
  Pair new devices

- **Edit Device**
  Make changes to existing devices

- **Clear Device**
  Clears or resets the memory of a Z-Wave device. Also deletes a device from the IQ Panel 2 if currently paired. (Requires you touch the “Pair” button on the device)

- **Delete Failed Device**
  Remove a failed 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.

- **View/Edit Associations**
  Manually change Z-Wave associations for specific devices.
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).  
   - **Doorbell**: Turns light on only after 7pm for 15min 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” icon)
Clears Z-Wave device from a network, whether it was enrolled with another controller previously or the IQ Panel 2. Also deletes a device from the IQ Panel 2 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. 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.

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

Touch “Delete Failed Device From Panel”

Touch “Delete”
DELETE ALL Z-WAVE 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 to all Z-Wave devices associated with the IQ Panel 2 within the Lifeline association group (Association Group 1).
VIEW/EDIT ASSOCIATIONS

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”
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 to control other Z-Wave settings.

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

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.
<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allow Master Code Z-Wave</td>
<td>Disabled</td>
<td>Allow Master User Code to access Z-Wave Settings</td>
</tr>
<tr>
<td>Settings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allow Master Code Z-Wave</td>
<td>Disabled</td>
<td>Allow Master User Code to access Z-Wave Devices (Add, Edit, Clear, Delete</td>
</tr>
<tr>
<td>Management</td>
<td></td>
<td>Failed Device, Remove All Devices &amp; View/Edit Associations)</td>
</tr>
<tr>
<td>Access to Automation</td>
<td>Enabled</td>
<td>When enabled it allows the ability to apply simple automated actions to</td>
</tr>
<tr>
<td></td>
<td></td>
<td>lights and switches directly from the panel</td>
</tr>
<tr>
<td>Z-Wave</td>
<td>Enabled</td>
<td>Activate or deactivate the Z-Wave radio. Please use this procedure only</td>
</tr>
<tr>
<td></td>
<td></td>
<td>when the controller (panel) is missing or inoperable</td>
</tr>
<tr>
<td>Advanced Z-Wave Settings</td>
<td>Disabled</td>
<td>When Advanced Z-Wave Settings is enabled the following new icons will</td>
</tr>
<tr>
<td></td>
<td></td>
<td>appear on the Z-Wave Devices page:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- <strong>Continuous Add Devices</strong>: Activates an “always listening” enroll mode.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Include one Z-Wave device after another. When complete you can edit the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>device(s) with a custom name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- <strong>Replace Failed Node</strong>: Allows a node that has failed to be replaced</td>
</tr>
<tr>
<td></td>
<td></td>
<td>with a new device using the same node ID</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- <strong>Manage Devices From Secondary Controllers</strong>: Allows secondary controllers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>to manage devices on the network</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- <strong>Controller Shift</strong>: Shifts the primary controller from IQ Panel to</td>
</tr>
<tr>
<td></td>
<td></td>
<td>another controller</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- <strong>Add/Remove Controller</strong>: This icon acts like an “Add/Remove” button</td>
</tr>
<tr>
<td></td>
<td></td>
<td>when pairing the IQ Panel into another network</td>
</tr>
</tbody>
</table>
**BLUETOOTH DEVICES**

**Bluetooth Devices**
Add, Edit, Delete and Configure a Bluetooth Device. Bluetooth disarm supported via a mobile device. Bluetooth Chime, annunciation and 2 Way Voice supported on Anker 3102 Bluetooth speaker.

**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).

**Add Speaker**
Pair an Anker 3102 Bluetooth speaker with the panel for remote voice annunciations, chimes and two-way voice.

**FIND IT**

- **Settings**
- **Advanced Settings**
- **Enter Code (1111, 2222)**
- **Installation**
- **Devices**
- **Bluetooth Devices**

Swipe down for access.
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. 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

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

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

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
ADD SPEAKER

1. Select “Add Speaker”

2. Initiate Bluetooth pairing from the speaker.

3. Touch the correct device from the list on the panel to begin the pairing process.

4. Once paired, a pop up showing “Bluetooth Device Added Successfully” will appear. Touch “OK” to confirm.

5. Your speaker will now show under the “Paired Devices” list on the panel.

**NOTE:** Only “Anker” brand speakers are supported. Model 3102 is highly recommended.
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

**Image Sensor Config**
Test the panel's connection to Image Sensors

**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.

* PowerG Test available only if a PowerG Daughter card is installed in the panel.
**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**

- **SETTINGS**
- **ADVANCED SETTINGS**
- **ENTER CODE (1111, 2222)**
- **SYSTEM TESTS**
SYSTEM TESTS

WI-FI TEST

Wi-Fi Test
The Wi-Fi test checks the IQ Panel 2’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.

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

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

Note: If test fails, please check your Wi-Fi settings.
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. This new version of the Sensor Test requires RF PIC Version 10.2.15-G1 or higher.

<table>
<thead>
<tr>
<th>ZONE</th>
<th>NAME</th>
<th>AVERAGE DBM</th>
<th>LAST EVENT RESULTS (DBM) (PACKETS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Back Window</td>
<td>Strong (-43)</td>
<td>Strong (-47) Perfect (16)</td>
</tr>
<tr>
<td>2</td>
<td>Front Window</td>
<td>Strong (-31)</td>
<td>Strong (-33) Perfect (8)</td>
</tr>
<tr>
<td>3</td>
<td>Back Door</td>
<td>Good (-55)</td>
<td>Good (-55) Excellent (7)</td>
</tr>
</tbody>
</table>

Refer to page 85 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.

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

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

Note: For UL/cUL, perform a placement test first for all wireless initiating devices. The acceptable result shall be “Excellent”.
**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's RF pigtail antenna.

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

SENSOR TEST

Sensor Test
The panel can test its connection and communication to individual security sensors. Before running this test there must be at least one security sensor paired with the system. This version of the sensor test is for panels with the older RF PIC Version 10.2.15-G0.

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. “Signal Source” relates to a sensor’s frequency.

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

<table>
<thead>
<tr>
<th>NO</th>
<th>ID</th>
<th>SIGNAL SOURCE</th>
<th>NAME</th>
<th>RESULT</th>
<th>LAST RUN TIME</th>
<th>Packets Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>61B8A0</td>
<td>G</td>
<td>Water</td>
<td>No Signal</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>2</td>
<td>625DA1</td>
<td>G</td>
<td>Front Door</td>
<td>Perfect(8)</td>
<td>04:49 PM, Jun 07, 2017</td>
<td>3-5</td>
</tr>
</tbody>
</table>

Results

Perfect
Excellent
Good
Minimum
No Signal

Packets Received
8
6-7
3-5
1-2
No RF packets received

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

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:

Number of Image Sensors: 1

View Settings for:

Select the desired Image Sensor by touching “View” next to its name

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 app)

QOLSYS CONFIDENTIAL AND PROPRIETARY
PAGE 91 OF 139
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.

<table>
<thead>
<tr>
<th>ID</th>
<th>TYPE</th>
<th>STATUS</th>
<th>TEST TIME</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Light</td>
<td>Normal</td>
<td>6:46 PM</td>
<td>Run</td>
</tr>
<tr>
<td>3</td>
<td>Light</td>
<td>Normal</td>
<td></td>
<td>Run</td>
</tr>
<tr>
<td>4</td>
<td>Door Lock</td>
<td>Unreachable</td>
<td></td>
<td>Run</td>
</tr>
</tbody>
</table>

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

Touch “View” next to any device and a pop-up will appear listing it's “Neighbor Nodes”
**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.

### Counter Details

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>Passed</th>
<th>Failed</th>
<th>Reset</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Light</td>
<td>2921</td>
<td>0</td>
<td>Reset</td>
</tr>
<tr>
<td>4</td>
<td>IQ Outlet</td>
<td>2521</td>
<td>1</td>
<td>Reset</td>
</tr>
</tbody>
</table>
# Z-WAVE TESTS

<table>
<thead>
<tr>
<th>COUNTER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acked commands no auto route</td>
<td>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)</td>
</tr>
<tr>
<td>Acked commands auto route</td>
<td>Command was successful and acknowledged by the sensor; it used the normal automatic Z-Wave network route to execute the command for this device.</td>
</tr>
<tr>
<td>Failed commands network failed</td>
<td>Not possible to transmit data because Z-Wave network is busy (jammed). Command failed to execute.</td>
</tr>
<tr>
<td>Network failed</td>
<td>Not possible to transmit data because Z-Wave network is busy (jammed). Command failed to execute</td>
</tr>
<tr>
<td>Network not idle</td>
<td>Auto-routed command failed because Z-Wave network is not yet stable. Command failed to execute</td>
</tr>
<tr>
<td>Network no route</td>
<td>Auto-routed command failed because there is no successful Z-Wave network route to the device. Command failed to execute</td>
</tr>
<tr>
<td>Reset All</td>
<td>Resets all counters back to 0 as to better diagnose the network</td>
</tr>
<tr>
<td>Details</td>
<td>Shows individual device details such as passed and failed commands. Here you can also reset an individual device's counter</td>
</tr>
</tbody>
</table>
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.
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.
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 Motion Viewer’s image.

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

*PowerG daughter card must be installed in the panel to access this 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.
**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.
 PANEL GLASS BREAK DETECTION REQUIREMENTS

Panel Installation Requirements:
- Wall mounted
- Power supply connected
- Panel Glass Break detection enabled
- Armed “Away” or “Stay” depending on programming

Detection Area
- 90° Line of sight
- No obstacles
- 3ft Minimum from the panel up to 15ft max

Glass Requirements
- Tempered Glass - 1/8” to 1/4”
- Plated Glass - 1/8” to 1/4”
- Insulated Glass - 1/8” to 1/4”
- Window must be framed
- Minimum Dimensions 12” by 12”
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 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 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
**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.
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.
CUSTOMIZATION
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).

<table>
<thead>
<tr>
<th>User Type</th>
<th>Access Level</th>
<th>Expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dealer</td>
<td>All settings as well as Master Reset and access to change Dealer Contact information</td>
<td>N/A</td>
</tr>
<tr>
<td>Installer</td>
<td>All Settings</td>
<td>N/A</td>
</tr>
<tr>
<td>Master</td>
<td>All user-related features and Settings, including connecting to Wi-Fi, User Management, Sound App and Sensor customization</td>
<td>On the date indicated when created (optional)</td>
</tr>
<tr>
<td>User</td>
<td>Arming/Disarming</td>
<td>On the date indicated when created (optional)</td>
</tr>
<tr>
<td>Guest</td>
<td>Arming/Disarming</td>
<td>On the date indicated when created (optional)</td>
</tr>
<tr>
<td>Duress</td>
<td>Disarming (but sends duress signal to security provider).</td>
<td>N/A</td>
</tr>
</tbody>
</table>
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.

Example:

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

*This page available only through the Dealer Code
To connect to a Wi-Fi network, follow the steps below:

1. Swipe down from the top menu bar and select settings.
2. Touch Advanced Settings (Installer Code)
3. Then touch “Wi-Fi”
4. 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
CUSTOMIZATION

WEATHER

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

H 36°  L 20°

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

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 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
## PHOTO FRAME SETTINGS

<table>
<thead>
<tr>
<th>Item</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>1 minute</td>
<td>How long each image will show before transitioning to the next image in the library (1, 2, or 5 minutes)</td>
</tr>
<tr>
<td>Effect</td>
<td>Dissolve</td>
<td>Transition effect used between each image (fade to black, dissolve)</td>
</tr>
<tr>
<td>Shuffle</td>
<td>Enabled</td>
<td>Display pictures in random or sequential order</td>
</tr>
<tr>
<td>Display Type</td>
<td>Photo Frame</td>
<td>Choose what to display on the screen when the panel is not in use. (Off, Photo Frame and Weather Clock)</td>
</tr>
<tr>
<td>Photo Frame Start Time</td>
<td>10 minutes</td>
<td>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)</td>
</tr>
<tr>
<td>Nighttime Mode Start Time</td>
<td>11:00 PM</td>
<td>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)</td>
</tr>
<tr>
<td>Nighttime Mode End Time</td>
<td>6:00 AM</td>
<td>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)</td>
</tr>
<tr>
<td>Nighttime Mode Settings</td>
<td>Display</td>
<td>Choose what the Nighttime Mode Start/End times have the ability to control (Display, Voices and/or Chimes)</td>
</tr>
</tbody>
</table>

**FIND IT**

- Swipe down for access
- PHOTO FRAME
- PHOTO FRAME SETTINGS
CUSTOMIZATION

LOAD IMAGES FROM SD CARD

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”

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

QOLSYS CONFIDENTIAL AND PROPRIETARY
PAGE 114 OF 139
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).

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

Acceptable File types: .m4v
Total storage space: 200MB
NOTE: videos look best in aspect ratio 1280x800
MAINTENANCE
# MAINTENANCE

## UPGRADE SOFTWARE

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upgrade Using Network</td>
<td>Search the network for updates and install new software</td>
<td>for UL/cUL, remote software uploading is not allowed</td>
</tr>
<tr>
<td>Upgrade Using SD Card</td>
<td>Search an inserted SD Card for updates and install new software</td>
<td></td>
</tr>
<tr>
<td>Downgrade Using Network</td>
<td>With the proper Patch Tag the system can be properly downgraded</td>
<td></td>
</tr>
<tr>
<td>Patch Tag</td>
<td>A code corresponding to a specific software update on the server</td>
<td></td>
</tr>
<tr>
<td>Automatic Upgrade</td>
<td>Allow the panel to update it’s software as new versions become available</td>
<td>Note: For UL/cUL, automatic upgrade is not allowed</td>
</tr>
<tr>
<td>Automatic Background Check and Download</td>
<td>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 Enabled</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Proper maintenance requires prompt administration of any software updates.
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 "OK." Your panel will install the update and automatically restart.

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.qolsys.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” then touch "SD Card” then “Unmount SD Card”

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

Turning on automatic software updates enables the panel to check for new software version Every Night 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@qolsys.com

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

Find It

Settings

Advanced Settings

Enter Code (1111, 2222)

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
</table>
| Z-Wave              | **Home ID:**
|                     | **Z-Wave Firmware Version:**
|                     | **Z-Wave API Version:**
|                     | **Manufacturing ID:**
|                     | **Product Type:**
|                     | **Product ID:**
| Ethernet            | **Connection:** Connected/Disconnected
|                     | **IP Address:** Panel's IP Address when connected
|                     | **Internet:** Can the panel communicate outside the home. Available/Unavailable |
| 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 |
TROUBLESHOOTING

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

<table>
<thead>
<tr>
<th>Test</th>
<th>Description</th>
<th>If fails:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm-Disarm</td>
<td>Tests the arm/disarm operation</td>
<td>Reboot panel, run test again then if necessary perform a master reset and repeat test</td>
</tr>
<tr>
<td>Camera</td>
<td>Tests panel camera operation</td>
<td>Reboot panel, run test again then if necessary perform a master reset and repeat test</td>
</tr>
<tr>
<td>Photos</td>
<td>Checks that photos are loaded in the photo frame app</td>
<td>1) Go to Settings -&gt; Photo Frame -&gt; Add Photos</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) Add photos from Wifi photo sets or an SD card</td>
</tr>
<tr>
<td>Help Videos</td>
<td>Checks help videos are installed in the panel</td>
<td>1) Go to Settings/Advanced Settings/Installation -&gt; Load Help Videos</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) Load All the Help videos in SD card and insert it into panel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3) Add the selected files from SD card to help videos list on the panel</td>
</tr>
<tr>
<td>Battery</td>
<td>Checks panel battery health</td>
<td>1) Make sure the battery is connected</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) If test continues to fail, replace the battery</td>
</tr>
<tr>
<td>LED Green/Red</td>
<td>Check panel LED operation</td>
<td>1) Reboot the panel and run the test again</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) Master reset and repeat test</td>
</tr>
</tbody>
</table>
# Panel Test Troubleshooting

<table>
<thead>
<tr>
<th>Test</th>
<th>Description</th>
<th>If fails:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Tamper</td>
<td>Check panel Tamper state</td>
<td>1) Check to ensure backplate is secure and installed properly.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) Repeat test.</td>
</tr>
<tr>
<td>AC Status</td>
<td>Check panel AC power status</td>
<td>1) Inspect the wire leads are secure and properly connected on the terminal block and adapter.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) Repeat test.</td>
</tr>
<tr>
<td>Internet Connection</td>
<td>Check panel's Internet connectivity</td>
<td>1) Go to Wifi Setting page. Enable Wifi and connect to a Wifi Network</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) Make sure Internet is available on the home router. You can check internet information in the “About” section.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3) Contact your network service provider on continued internet connectivity failure.</td>
</tr>
<tr>
<td>Wi-Fi</td>
<td>Tests whether panel is connected to Wifi network</td>
<td>1) Go to Wifi Setting page and enable wifi.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) Connect to a Wifi Network</td>
</tr>
<tr>
<td>Upgrade Service</td>
<td>Checks that the panel can receive updates from the Qolsys servers</td>
<td>1) Verify internet and Wi-Fi connections.</td>
</tr>
<tr>
<td>Z-Wave</td>
<td>Check panel's Z-Wave module operation</td>
<td>1) Reboot the panel and repeat test.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) Master reset and repeat test</td>
</tr>
<tr>
<td>Sirens</td>
<td>Check that the panel’s siren is functioning properly (Burglar, Auxiliary, Fire &amp; CO)</td>
<td>1) Verify the siren is plugged in.</td>
</tr>
</tbody>
</table>
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 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.
<table>
<thead>
<tr>
<th>Items</th>
<th>Parameters</th>
<th>IQ Panel 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platform</td>
<td>Android OS</td>
<td>Android 5.1</td>
</tr>
<tr>
<td>LCD Display</td>
<td>Size</td>
<td>7” LCD</td>
</tr>
<tr>
<td></td>
<td>Resolution</td>
<td>1280 x 800</td>
</tr>
<tr>
<td></td>
<td>Brightness</td>
<td>300 cd/m2</td>
</tr>
<tr>
<td></td>
<td>RGB</td>
<td>24bit</td>
</tr>
<tr>
<td>Touchscreen</td>
<td>Type</td>
<td>Capacitive glass multi-touch</td>
</tr>
<tr>
<td>User Codes</td>
<td>Up to 242</td>
<td>Role based (Dealer, Installer, Master, User, Guest, Duress)</td>
</tr>
<tr>
<td>Wireless</td>
<td>WiFi</td>
<td>Wi-Fi 802.11 a/b/g/n/ac dual band 2.4/5ghz - including built-in router capability</td>
</tr>
<tr>
<td></td>
<td>Image Sensor</td>
<td>Supports up to 5 Alarm.com Image Sensors (if included)</td>
</tr>
<tr>
<td></td>
<td>Z-Wave</td>
<td>Supports up to 134 devices (80 lights, 15 Smart Sockets, 6 Locks, 6 Thermostats, 21 Misc, 6 Garage Doors)</td>
</tr>
<tr>
<td>Cellular</td>
<td>LTE (Bands 2,4,5,12,13,17)</td>
<td></td>
</tr>
<tr>
<td>Security R/F</td>
<td>Up to 128 RF Zones. IQ Panel 2 uses Encrypted 319.5MHz. IQ Panel 2+ uses PowerG plus ONE of the following depending on SKU: Encrypted 319.5MHz, 345MHz or 433MHz.</td>
<td></td>
</tr>
<tr>
<td>Bluetooth</td>
<td>Qualcomm Bluetooth Low Energy (BLE) 4.0</td>
<td></td>
</tr>
<tr>
<td>Hardwire Input</td>
<td>Wired x2</td>
<td>2 non powered closed loop circuit with 4.7k EOL resistor</td>
</tr>
<tr>
<td>Siren Output</td>
<td>Wired x1</td>
<td>1 controlled output (open collector), 300mA max with a 12v power supply wired in series</td>
</tr>
<tr>
<td>Flash Memory</td>
<td>Internal Storage</td>
<td>12GB NAND Flash</td>
</tr>
<tr>
<td>SD Card Slot</td>
<td>Push-Push</td>
<td>Micro SD slot x 1</td>
</tr>
<tr>
<td>LED Indicator</td>
<td>Status LED</td>
<td>Green (Disarmed), Red (Armed)</td>
</tr>
<tr>
<td>Items</td>
<td>Parameters</td>
<td>IQ Panel 2</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------------------------</td>
<td>------------------------------------------------</td>
</tr>
<tr>
<td>Speaker</td>
<td>Stereo 1W x 2</td>
<td>Stereo speakers (unified audio)</td>
</tr>
<tr>
<td>Camera</td>
<td>Front Camera</td>
<td>5MP fixed focus</td>
</tr>
<tr>
<td>Microphone</td>
<td>Microphone</td>
<td>Stereo microphones x 2</td>
</tr>
<tr>
<td>Siren</td>
<td>Piezo</td>
<td>SPL minimum 85dB for UL985</td>
</tr>
<tr>
<td>Tamper</td>
<td>Tamper Switch</td>
<td>Reporting tamper release button</td>
</tr>
<tr>
<td>Battery</td>
<td>Type</td>
<td>Lithium Polymer 3200mAh</td>
</tr>
<tr>
<td>Buttons</td>
<td>Standby</td>
<td>Right side button used for sleep/wake, hard reboot, and clean screen cancel</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Dimension</td>
<td>5”H x 7.75”W x .75”D (195mm x 130mm x 23mm)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>AC/DC</td>
<td>Output: 5v – 7v 1000mA CC, Input 100-240VAC 50/60Hz</td>
</tr>
<tr>
<td>Mount</td>
<td>Back Plate</td>
<td>Wall mount or table top (stand included)</td>
</tr>
<tr>
<td>Certification</td>
<td>UL/cUL</td>
<td>UL-985, UL-1023, UL-1635, UL-639, UL-498A, UL-634, ULC-634, ULC-S306, CSA-C22.2</td>
</tr>
<tr>
<td>FCC</td>
<td>2AAJXQS-IQPANEL2 (may contain additional modules with separate FCC ID's)</td>
<td></td>
</tr>
<tr>
<td>IC</td>
<td>11205A-QSIQPANEL2</td>
<td></td>
</tr>
<tr>
<td>Safety</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>Operational</td>
<td>-10-50°C, Note: not evaluated by UL/cUL</td>
</tr>
<tr>
<td>Storage</td>
<td></td>
<td>-40 - 80°C</td>
</tr>
</tbody>
</table>
## SUPPORTED S-LINE SENSORS

<table>
<thead>
<tr>
<th>Detector Type</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door/Window</td>
<td>QS1133-840&lt;sup&gt;UL&lt;/sup&gt;, QS1135-840, QS1136-840, QS1137-840</td>
</tr>
<tr>
<td>Door/Window - Shock Sensor</td>
<td>QS1138-840</td>
</tr>
<tr>
<td>Vanishing Door/Window Contact</td>
<td>QS1134-840&lt;sup&gt;UL&lt;/sup&gt;</td>
</tr>
<tr>
<td>PIR Motion Detector</td>
<td>QS1230-840&lt;sup&gt;UL&lt;/sup&gt;, QS1231-840</td>
</tr>
<tr>
<td>Glassbreak Detector</td>
<td>QS1431-840&lt;sup&gt;UL&lt;/sup&gt;</td>
</tr>
<tr>
<td>Smoke Detector</td>
<td>QS5110-840&lt;sup&gt;UL&lt;/sup&gt;</td>
</tr>
<tr>
<td>Wireless CO Detector</td>
<td>QS5210-840</td>
</tr>
<tr>
<td>Keyfobs</td>
<td>QS1331-840</td>
</tr>
<tr>
<td>Tilt Sensor</td>
<td>QS1131-840</td>
</tr>
<tr>
<td>Flood Detector</td>
<td>QS5536-840</td>
</tr>
<tr>
<td>Temperature Sensor</td>
<td>QS5535-840</td>
</tr>
<tr>
<td>Hardwire Translator</td>
<td>QS7130-840, QS7131-840</td>
</tr>
</tbody>
</table>

<sup>UL</sup> indicates that the device is certified to UL standards
<table>
<thead>
<tr>
<th>Detector Type</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door/Window</td>
<td>PG9945</td>
</tr>
<tr>
<td>Door/Window - Shock Sensor</td>
<td>PG9935</td>
</tr>
<tr>
<td>Vanishing Door/Window Contact</td>
<td>PG9975</td>
</tr>
<tr>
<td>PIR Motion Detector</td>
<td>PG9904(P), PG9914, PG9934(P), PG9924</td>
</tr>
<tr>
<td>Dual Tech (PIR+Microwave) Motion Detector</td>
<td>PG9984(P)</td>
</tr>
<tr>
<td>Outdoor Motion Detector</td>
<td>PG9974(P), PG9944, PG9994(P)</td>
</tr>
<tr>
<td>Glassbreak Detector</td>
<td>PG9922</td>
</tr>
<tr>
<td>Smoke Detector</td>
<td>PG9916, PG9926, PG9936</td>
</tr>
<tr>
<td>Wireless CO Detector</td>
<td>PG9913</td>
</tr>
<tr>
<td>Keyfobs</td>
<td>PG9929, PG9939, PG9949, PG9938</td>
</tr>
<tr>
<td>Sirens</td>
<td>PG9901, PG9911</td>
</tr>
<tr>
<td>Wireless Repeater</td>
<td>PG9920</td>
</tr>
</tbody>
</table>
IQ Panel 2
QS9201-1200-840
QS9202-1200-840

IQ Panel 2+
Verizon     AT&T     Telus
QS9201-1208-840  QS9202-1208-840  QS9207-1208-124
QS9201-5208-840  QS9202-5208-840  QS9207-5208-124
QS9201-4208-840  QS9202-4208-840  QS9207-4208-124

Conforms to UL Std. S985, 1023. & 1635
Certified to ULC Sub C1023 & ULC Std S545
Qolsys Inc. proprietary.
Reproduction without permission is not permitted.