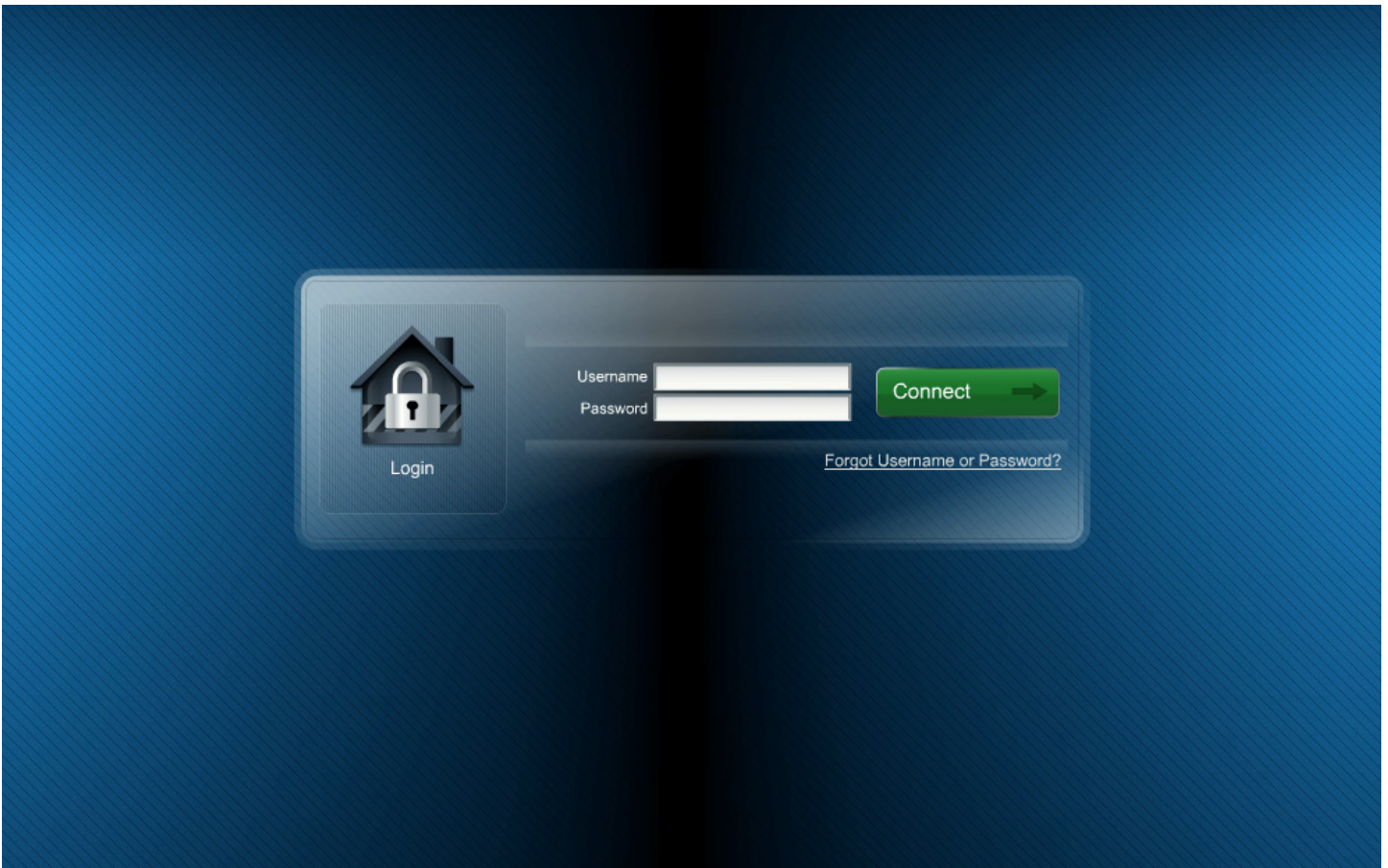


Total Connect™ 2.0

Online Help Guide



Hints for use:

- When viewing in a web browser, hit F11 to toggle full screen mode. Use the bookmarks panel or table of contents to jump to the desired topic. Select the page header to return to the table of contents.
- When viewing on mobile devices, use the table of contents to jump to the desired topic. Select the page header to return to the table of contents.

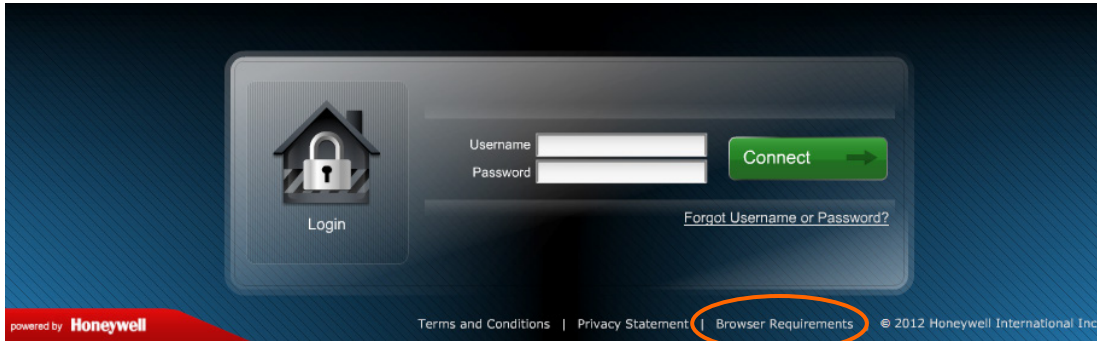
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Before you start

Total Connect and your web browser

Total Connect works with all the popular web browsers. However there are some requirements based on operating system, browser and add-ons such as QuickTime and Flash. To ensure a smooth experience please check the web browser requirements.



[Click for web browser requirements](#)

Total Connect and IP video

For those users that have video services (IP cameras), please take the time to install/configure QuickTime player. This is necessary to view streaming video.

[Click to configure the QuickTime player](#)

In addition, we have a special topic on how to improve video captures using your IP cameras.

[Click to learn more about improving video captures](#)

IP camera firmware updates

As products improve the firmware for an IP camera may need to be updated. Typically these changes improve performance and response times, and may even add a minor feature.

[Click to learn more about updating the camera firmware](#)

Overview of features

TC2 includes a lot of features and convenience items for a more connected experience with your security system. Let's take a quick look at the features. (Note, only those features that your system supports will appear.)



5 Day Forecast – This is based on the security system's ZIP code, and is especially useful for multiple locations that span different regions.

News, Traffic, and other information (LYNX Touch L5100, L5200, L7000 only) – Optional pushed content based on the ZIP code and appears on the control display. The traffic information covers a 50 mile radius around the security system's location. (*Contact your security provider to get this optional "Information Services" feature.*)

Messages (LYNX Touch L5100, L5200, L7000 only) – These are security provider information messages that keep users abreast of the latest new products, features, technology upgrades, and special offers. Since there are a lot of new products and features in the pipeline this is an excellent way of staying informed.

Locations

Locations module – This module shows all the systems and their locations that are available for control to the Master User. Subordinate users will only see locations they are authorized to. At each location, the modules that appear pertain only to the selected location. So if that location does not have video, the Video module will not appear.

Besides the normal functions, the Location module enables you to sync panel data, configure information services and add/edit a slide show for display on the location's security system. The "Slide Show" feature is for those security systems that support picture slide shows (such as the LYNX Touch L5100, L5200, L7000 series) and is functional only when using Wi-Fi or the internet. (*Contact your security provider to get this optional "Information Services" feature.*)

Security

Security module – This module enables easy control of the location's security system. It displays detailed zone status and has zone bypass controls. Additionally it has a "keypad view" that can be used for control of more advanced features. (Not available for LYNX Plus L3000, or LYNX Touch L5000.)

Events, Rules & Notifications

Events, Rules & Notifications module – Allows you to view all events (including automation events for the LYNX Touch L5100, L5200, L7000 series). You have the ability to schedule the notification of events. A "Summary" feature enables viewing and printing of all events for the location.

For the LYNX Touch L5200, L7000 series scheduling has been extended to include choices for Sunrise/Sunset scheduling and also the ability to randomize a fixed schedule. Randomizing allows turning something on/off within a +/- 30 minute window.

Users

Users module – Allows you to add subordinate users and manage their profile. You can grant/deny access to various devices (automation, cameras, etc.) for each user. Further you can sync user data between the control panel and Total Connect. (Not available for LYNX Plus L3000, or LYNX Touch L5000.)

Automation

Automation module (LYNX Touch L5100, L5200, L7000 series only) – This module supports Z-Wave automation devices. Using Total Connect you can control the system’s automation devices like; thermostats, lights, outlets, door locks, shades, etc. In addition you can create “scenes” to control your premises’ automation devices when leaving, entering, going on vacation, or other occasions.

Video

Video module – This module enables viewing and controlling the cameras. Up to six cameras per location are supported. You have thumbnails for each camera and each can be expanded for a more detailed view that is updated in real time.

Synchronizing data

Syncing certain features is required to assure the Total Connect data and the Security System data are the same. There are a few different “Sync” functions dependent on what type of security system you have.

The synchronization request button for the Locations module, Users module, and Automation module will not be processed if the keypad view (virtual keypad) was launched prior to sending the sync command. (This issue affects all systems except the L5100.) If the virtual keypad has been launched and you wish to sync, you must log out by clicking “Log Out” (do not close your browser) and log back in. You can then send the sync command.

Sync requirements for the various security systems are defined below:

Sync Requirements	
LYNX Touch L5100, L5200, L7000	<p>Security Sync is done at the <u>Location</u> module. Total Connect will prompt you that a sync is required.</p> <ul style="list-style-type: none"> • When a sensor is added or removed. • When a sensor name is added or changed. <p>User Sync is done at the <u>User</u> module. Total Connect will prompt you that a sync is required.</p> <ul style="list-style-type: none"> • When a user code is added or changed in Total Connect or at the LYNX control. <p>The Master user in the LYNX control is assigned as the “Administrator” user in the Total Connect “User” module. This user must have the “Enable User Code Sync” check box enabled for the sync to work.</p> <p>Automation Sync is done at the <u>Location</u> module. Total Connect will prompt you that a sync is required.</p> <ul style="list-style-type: none"> • When a device is included or excluded. • When a device name is added or changed. • When a “Scene” is added or changed at Total Connect. • When a “Rule” or “Schedule” is added or changed at Total Connect. • When a thermostat schedule is added or changed at Total Connect.

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LYNX Touch L5000 LYNX Plus L3000	<p>Security Sync is done at the Location module. When you initiate a sync, you will be prompted for the Installer Code.</p> <ul style="list-style-type: none">• When a sensor is added or removed.• When a sensor name is added or changed. <p>User Code management is not available for these products. Since User Synchronization is not available on these panels, any user who is disabled cannot log into Total Connect, but will still be able to use the control panel.</p>
VISTA (TC2.0 compatible)	<p>Security Sync is done at the Location module. When you initiate a sync, you will be prompted for the Installer Code.</p> <ul style="list-style-type: none">• When a sensor is added or removed.• When a sensor name is added or changed. <p>User Sync is done at the User module.</p> <ul style="list-style-type: none">• When a user code is changed at Total Connect. <p>The Master user in the VISTA control panel is assigned as the "Administrator" user in the Total Connect "User" module. This user must have the "Enable User Code Sync" check box enabled for the sync to work.</p> <p>If a user code is changed at the VISTA control panel, Total Connect will not prompt you to perform a Sync. If you feel a "Sync" is required initiate the command to update Total Connect with the latest data.</p>

Customizing your layout

You can customize the look of Total Connect by rearranging the modules. Simply drag the module's title bar to the desired position. This can be done with the module either expanded or collapsed.



Left click the title bar and drag to the desired position.

Information area

This area provides weather and messages. This information is based on the security system's location. Click on the weather to pull up a 5-day forecast, or click on the message envelope to read important messages. These messages are from your security system provider and relate to service calls, new products, upgrades, and special offers.

Click to pause email notifications. Very convenient for when you are at the location.



Getting your mobile apps

Honeywell mobile apps are available for your Apple, Android or BlackBerry mobile devices. Just click on Mobile Apps.

Security module

You can toggle between a quick look at your security system's status, or bring up a keypad to control your security system.



Used to clear troubles.

Security system "Status" view.

Click to toggle between "Status" or "Keypad" view.



Click to toggle back to "Status" view.

This area provides detailed zone information. You can select from filters on the left such as; Alarms, Troubles, etc., to just view specific zone conditions.

- Zones can be bypassed and troubles cleared.
- Zones can have multiple faults.
- Works like your security system's keypad.

Not available for the LYNX Plus L3000 and the LYNX Touch L5000.

Events, Rules & Notifications module

This enables you to view events that result from your; security system, rules & notifications, IP video cameras, and automation devices (Z-Wave devices).

Security events are stored for 90 days, and Video events are stored for 90 days or a maximum of approximately 100 MB. In either case, older events are deleted to make room for new events.

Click to see the details of all your scenarios.

Search Filter.

Click to set up event notifications.

Toggles between Live Events, and Admin Logs.

Click to play video event.

Recent Live events.

Enables attaching a note to the event.

Enables locking the event to prevent deletion.

Click to hide the event.

Sample Summary Screen:

Security								
Event Type	Subject	Send To	Enabled	Schedule/State	Trigger Type	Trigger	Notes	
Armed Away	Armed Away	Default Group	Yes	Always	Event Notification - Notify when the event occurs	ILP5	No Schedule	
Disarmed	Disarmed Greg 1	Default Group	No	Always	Event Notification - Notify when the event occurs	ILP5	No Schedule	
Sensor Open			Yes	Always	Scene	Switch 1 On	No Schedule	

Automation								
Event Type	Subject	Send To	Enabled	Schedule/State	Trigger Type	Trigger	Notes	
Threshold Alert	Threshold Alert - 230 : Thermost	Default Group	Yes	Always	Event Notification - Notify when the event occurs	Automation	No Schedule	
Thermostat Mode Changed	Thermostat Mode Changed - 230 :	Default Group	Yes	Always	Event Notification - Notify when the event occurs	Automation	No Schedule	
Door Locked	Door Locked - 240 : Lock 240	Default Group	Yes	Always	Event Notification - Notify when the event occurs	Automation	No Schedule	

Filtering events

After clicking the **Search** icon, the following choices appear.

Search Filter.

Check to show all hidden events.

Summary

Events, Rules & Notifications

Live Events

Admin Logs

Setup

Type All

Start Date 01/18/2012 12 AM

End Date 04/18/2012 12 PM

Sensor Open - Sensor 2 : Front Door

04 / 10 / 2012 11:33:16 AM EDT - Security Panel

Switch Off - Outlet 1

Setting up event notifications

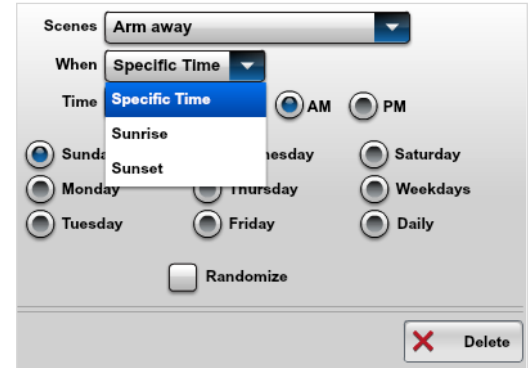
This is where you choose which events will be reported to a particular user group.

Before setting up event notifications for "Sensor Open" or "Sensor Close" conditions, ensure a session with the security system's Control Panel is not active. The best way to assure this is to log-off of Total Connect, then log in again to setup the event notifications.

Take the time to explore each notification category and become familiar with the event types that can trigger notifications.

Event categories may have expandable sub-categories. Categories that are not supported by your security system will not appear. Further, the Admin category will not appear if the user does not have Admin rights.

For the LYNX Touch L5200, L7000 series scheduling has been extended to include choices for Sunrise/Sunset scheduling and also the ability to randomize a fixed schedule. Randomizing allows turning something on/off within a +/- 30 minute window.



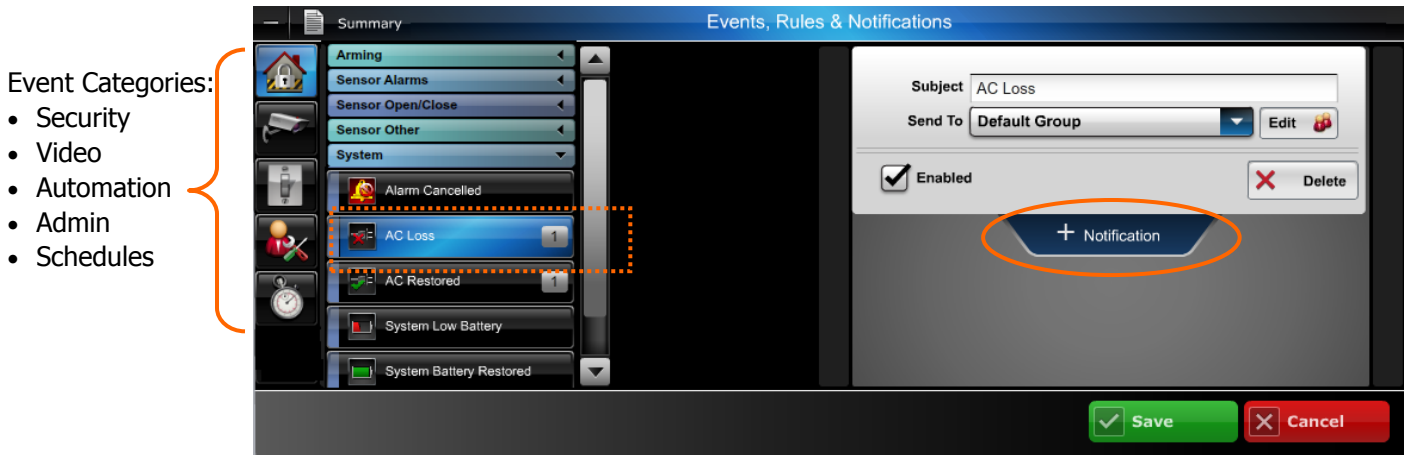
Example 1 – System Event Notification

In the example below; a Security system event (AC Loss) was chosen to notify the Default Group of users. When an AC Loss occurs, each member of the Default Group will be notified.

1. On the Events, Rules & Notifications bar, click the **Setup** icon.



2. You start by picking from the event categories; Security, Video, Automation, Admin, or Schedules.



- Event Categories:
- Security
 - Video
 - Automation
 - Admin
 - Schedules

3. From the Security > System event category, choose the event (AC Loss) to be notified of.
4. At the right, click **Notification**. The notification info window appears.
5. Enter a Subject name for the notification. Then from the Send To drop-down menu, select the user group to notify. (Ensure the **Enabled** box is checked.) To add another user group to be notified, click **Notification** again and repeat.
6. Repeat for all events that require notifications.
7. Click **Save**. The "Default Group" will be notified whenever an AC Loss condition occurs.

Example 2 – Sensor Open Event Notification

In the example below; a Sensor Open condition (Flood) was chosen to notify the Default Group of users. This type of notification might be used when you want to be notified when a security cabinet, special room, flood or other sensed condition within the premises occurs.

When the Sensor Open condition occurs, each member of the Default Group will be notified.

1. On the Events, Rules & Notifications bar, click the **Setup** icon.



2. You start by picking from the event categories; Security, Video, Automation, Admin, or Schedules.

Event Categories:

- Security
- Video
- Automation
- Admin
- Schedules

A screenshot of the "Events, Rules & Notifications" setup window. On the left, a list of event categories is shown: Arming, Sensor Alarms, Sensor Open/Close, Sensor Open, Sensor Closed, Sensor Left Open, Sensor Other, and System. The "Sensor Open/Close" category is expanded, and the "Sensor Open" event is selected. To the right of this list, a list of events is shown: "1 : Flood", "95 : Fire", and "99 : Police". The "1 : Flood" event is selected. On the right side of the window, a configuration panel is visible. It includes fields for "Subject" (Sensor Open - 1 : Flood), "Send To" (Default Group), and "Sched / State" (Always). There are also radio buttons for "Notify me when this event occurs" and "Notify me when this event does not occur". At the bottom, there is a "Save" button and a "Cancel" button. The "Enabled" checkbox is checked.

3. From the Security > Sensor Open/Close event category, choose the event (Flood) to be notified of.
4. At the right, click **Notification**. The notification info window appears.
5. Enter a Subject name for the notification. Then from the Send To drop-down menu, select the user group to notify. (Ensure the **Enabled** box is checked.) Since this is a Flood condition, you would always want to be notified, therefore at the Sched/State drop-down field select **Always**. To add another user group to be notified, click **Notification** again and repeat.
6. Repeat for all events that require notifications.
7. Click **Save**. The "Default Group" will be notified whenever a Flood condition occurs.

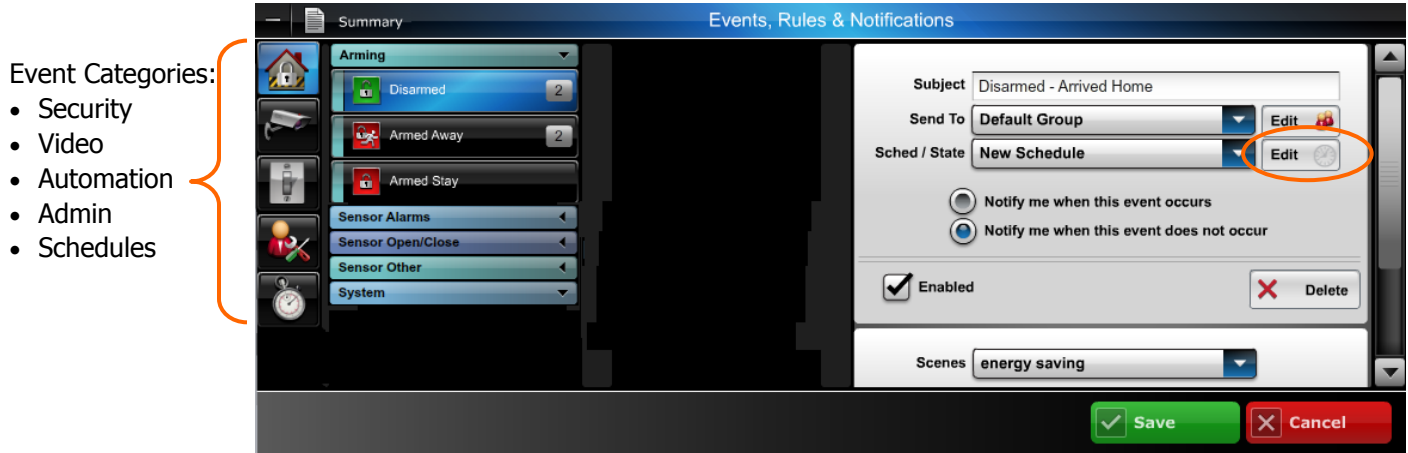
Example 3 – No Disarm Event Notification

In the example below; a No Disarm event was chosen to notify the Default Group of users. This type of notification might be used when you want to be notified when a child is due home from school by a certain time; and did not arrive at the home. When the No Disarm condition occurs (by the specified time), each member of the Default Group will be notified.

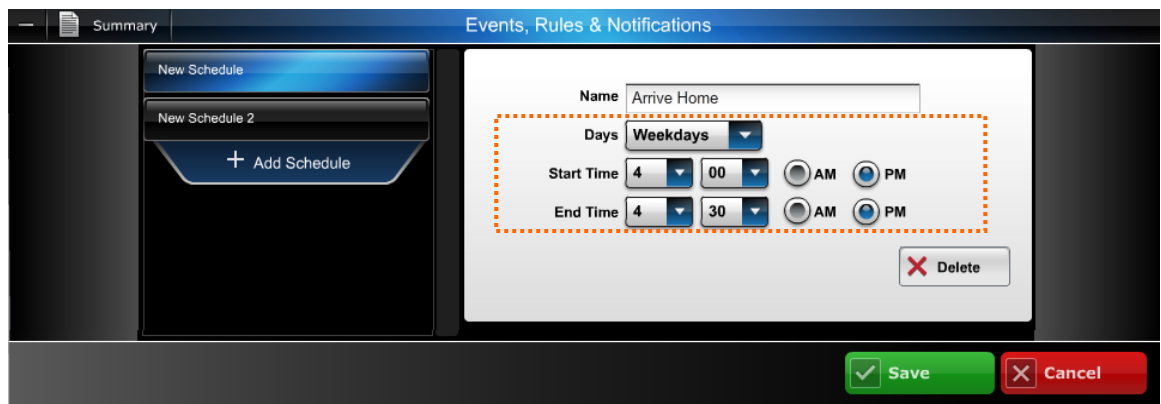
1. On the Events, Rules & Notifications bar, click the **Setup** icon.



2. You start by picking from the event categories; Security, Video, Automation, Admin, or Schedules.



3. From the Security > Arming event category, choose the event (Disarmed) to be notified of.
4. At the right, click **Notification**. The notification info window appears.
5. Enter a Subject name for the notification. Then from the Send To drop-down menu, select the user group to notify. (Ensure the **Enabled** box is checked.) Since you want to be notified if this event DOES NOT occur, ensure the **Notify me when this event does not occur** is selected.
6. Since this is a time dependent event, click the Sched/State **Edit** button to setup the schedule.



7. Set the schedule parameters, then click **Save**.
8. The "Default Group" will be notified whenever a Disarmed condition DOES NOT occur by 4:30 pm on any weekday.

Example 4 – Video Triggered Event Notification

In the example below; a video camera will detect motion when the security system is armed away. Any detected motion will be used to trigger a notification to the Default Group of users. This type of notification might be used when you want to be notified if there is motion in a store after hours.

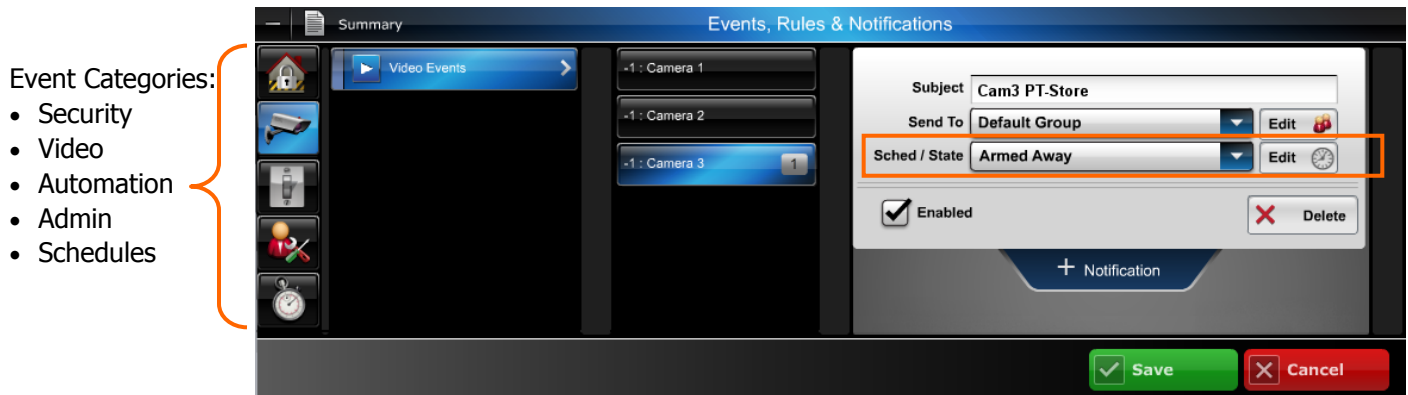
When video motion occurs, each member of the Default Group will be notified.

NOTE: For configuring the camera become familiar with the "*Edit camera settings*" topic, and particularly the information on "*Event Detection Areas*" as needed.

1. On the Events, Rules & Notifications bar, click the **Setup** icon.



2. You start by picking from the event categories; Security, Video, Automation, Admin, or Schedules.



3. At the left, choose the event category Video > Video Events > Camera 3.
4. From the Sched/State drop-down field, choose **Armed Away**.
5. The "Default Group" will be notified whenever camera 3 detects motion when the security system is Armed Away.

Example 5 – Scheduled Event Notification

In the example below; when the High Value Tool Room is opened during the night shift, a notification will be sent to the Default Group of users. This type of notification might be used when you want to be notified of an event that might occur during a certain time schedule when the security system is disarmed. When this event occurs (during the scheduled time), each member of the Default Group will be notified.

1. On the Events, Rules & Notifications bar, click the **Setup** icon.



2. You start by picking from the event categories; Security, Video, Automation, Admin, or Schedules.

Event Categories:

- Security
- Video
- Automation
- Admin
- Schedules

The screenshot shows the 'Events, Rules & Notifications' setup screen. On the left, there is a list of event categories: Arming, Sensor Alarms, Sensor Open/Close, Sensor Open, Sensor Closed, Sensor Left Open, Sensor Other, and System. In the center, there is a list of locations: 1: Door, 2: Front Door, and 3: HV Tool Room. On the right, there are three buttons: '+ Notification', '+ Trigger Scene', and '+ Video Capture'. The '+ Notification' button is circled in orange. At the bottom right, there are 'Save' and 'Cancel' buttons.

3. From the Security > Sensor Open/Close event category, choose event Sensor Open, then HV Tool Room.

4. At the right, click **Notification**. The notification info window appears.

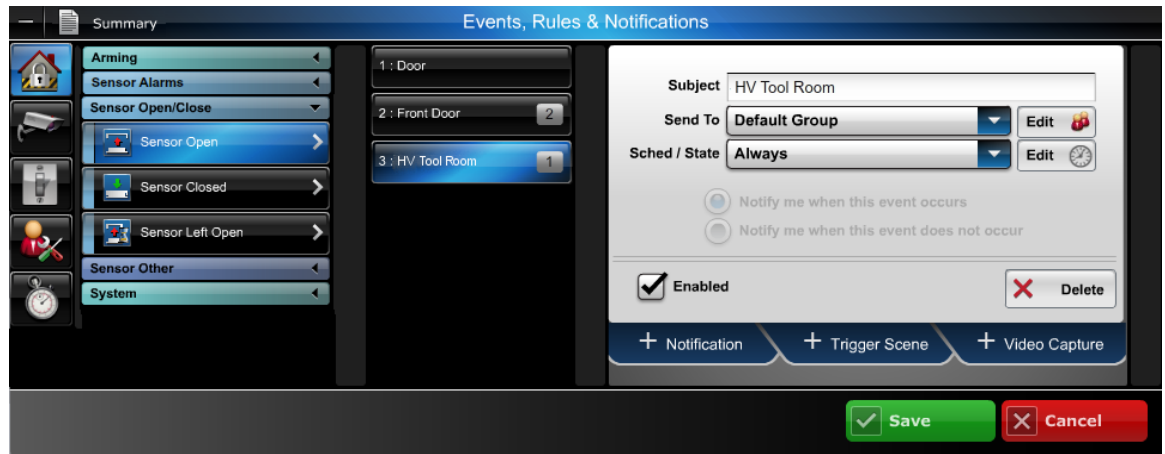
The screenshot shows the notification info window. The 'Subject' is 'Sensor Open - HV Tool Room'. The 'Send To' is 'Default Group'. The 'Scheduled / State' is 'Always'. There is an 'Edit' button next to the 'Scheduled / State' dropdown, which is circled in orange. There are also radio buttons for 'Notify me when this event occurs' and 'Notify me when this event does not occur'. At the bottom, there is a 'Delete' button. At the bottom right, there are 'Save' and 'Cancel' buttons.

5. Since this is a time dependent event, click the Sched/State **Edit** button to setup the schedule. Click **Add Schedule**. The schedule window appears.

The screenshot shows the schedule window. The 'Name' is 'HV Tool Room'. The 'Days' is 'Daily'. The 'Start Time' is '6:00 AM' and the 'End Time' is '11:55 PM'. There is an 'Add Schedule' button highlighted with a dashed orange box. At the bottom right, there is a 'Delete' button. At the bottom, there are 'Save' and 'Cancel' buttons.

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- Enter a Name for the schedule (such as HV Tool Room). Then set the schedule parameters and click **Save**.
- Repeat steps 2 thru 4.



- Enter a Subject name for the notification. Then from the Send To drop-down menu, select the user group to notify. (Ensure the **Enabled** box is checked.)
- From the Sched/State drop-down menu, select the schedule (i.e., HV Tool Room) you just created then click **Save**. The "Default Group" will be notified whenever the High Value Tool Room is opened on the night shift.

Users module

Shows users associated with this Total Connect account.

Create an event notification group and add members.

Add a new user.

To edit a user, hover over the user and click Edit.

Green = User is enabled.
Red = User is disabled.

Privilege level

Button toggles between This Location Only and All Locations. Click to synchronize user data between the control panel and Total Connect.

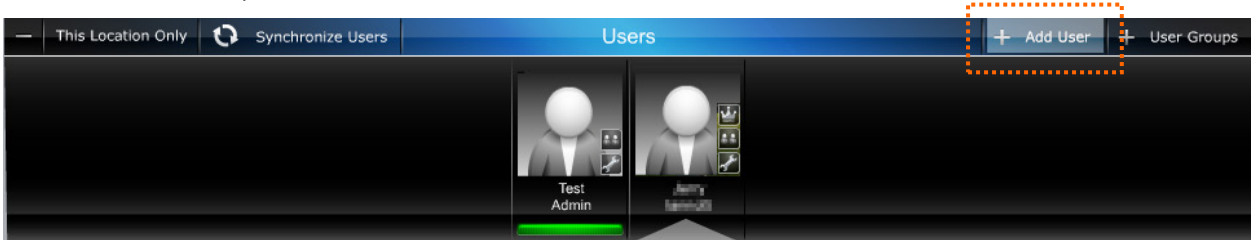
Note: The LYNX Plus L3000 and the LYNX Touch L5000 do not support synchronizing users.

Privilege Level	
	Master User , owner of the account, and has all rights. Can view "Admin Logs".
	Administrator , can create new users, sync users, and disable users. (Cannot disable the Master User.) If enabled by the Master User, can also manage user codes for others.
	System Administrator , can create and edit notifications.
	Alert , a reminder to validate your email address.

Adding users

Adding users is easy, just follow these steps.

1. At the Users module, click **Add User**.



2. A selection screen appears.



3. Choose the type of user you want to create, then click its icon. The appropriate user dialog screen appears.
4. Depending on the type of user chosen the fields in the dialog screen will vary. For a description of what those fields mean, refer to the next topic.
5. Upon completion, click **Save**.

Editing users

Notes:

User Name: 6-80 character length (not case sensitive)
 Password: 6-32 character length (case sensitive)
 Valid Entries: 0-9, A-Z and ? ! @ # \$ % ^ * - _ = + .

4. Enter the control **Panel User** number assigned for the user. This is for email and event logs when the system is armed/disarmed and will display the user's first and last name.

If the Enable User Code Sync is checked, the "Panel User" field will be grayed out and the "Panel User" number cannot be changed.

5. Enter the 4-digit **User Code**, so this user will not be prompted for it when arming/disarming the security system. Check the desired boxes to grant access to devices.

If master user, refer to the Enable User Code Sync Rules on the next page.

1. Edit user information.

2. Check to give user rights.

Refer to definitions that follow.

3. Add email and SMS notification information.

Refer to definitions that follow.



6. Click **Save**.

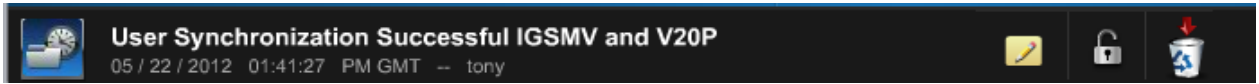
User Rights	
Administrator	Admin rights grant the ability to add and control other users as well as to configure and edit notifications.
Security Professional Access	Allows the security professional one time access to the users Total Connect account with full access to edit settings and help troubleshoot problems. (User codes cannot be changed, and video cannot be viewed.) Once access is granted the Master user will receive an email. The granted access will expire after 60 minutes.
Enable User Code Sync See detailed rules below.	Allows you to manage panel users from Total Connect. Note, the LYNX Touch L5000, and L3000 do not allow managing users.
Prompt for user code	When checked the user must enter their panel User Code.
Display User Codes	When checked the Panel User number and User Code are displayed.

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Enable User Code Sync Rules

Only the Master User that is assigned to the control panel can synchronize user codes. When synchronizing users for the first time, the Master User Code in the Total Connect database must match the Master User Code programmed in the security system's control panel.

When the Master User changes a user code and performs a sync, a successful change can be verified by checking the [Events Rules & Notifications](#) (Admin Logs) for a synchronization event.



LYNX Touch L5100, L5200, L7000	<p>If the Master User is enabled for User Code Sync, any user they disable cannot log into Total Connect, and will be deleted from the control panel.</p> <p>If the Master User is NOT enabled for User Code Sync, any user they disable cannot log into Total Connect, but will be able to use the control panel.</p>
LYNX Touch L5000 LYNX Plus L3000	<p>If the Master User is NOT enabled for User Code Sync, any user they disable cannot log into Total Connect, but will be able to use the control panel.</p>
VISTA (TC2.0 compatible)	<p>If the Master User is enabled for User Code Sync, any user they disable cannot log into Total Connect, and will be deleted from the control panel.</p> <p>If the Master User is NOT enabled for User Code Sync, any user they disable cannot log into Total Connect, but will be able to use the control panel.</p>

Email Definitions

SMS (short message service)	<p>Limited to under 160 characters, this is the most basic concise message. It arrives along with the users other text messages.</p> <p><i>This is a good choice for users that just want the most brief notification, and work extensively with text messaging.</i></p>
Text Email	<p>A very basic email that does not contain any formatting, or graphics. It may contain an internet link.</p> <p><i>This is a good choice for basic cell phones that support email.</i></p>
HTML Email	<p>A feature rich email that exhibits text formatting, graphics and anything else that may be contained on a web page.</p> <p><i>This is a good choice for smartphones where the user prefers a rich HTML presentation.</i></p>
Text w/ Attachment	<p>A very basic email that does not contain any formatting, or graphics. It may contain an internet link, and may contain an attachment.</p> <p><i>This is a good choice for smartphones where the user prefers brief condensed emails but may want to view attachments.</i></p>
HTML w/ Attachment	<p>A feature rich email that exhibits text formatting, graphics and anything else that may be contained on a web page. This choice allows attachments.</p> <p><i>This is a good choice for smartphones where the user prefers a rich HTML presentation with the ability to view attachments.</i></p>

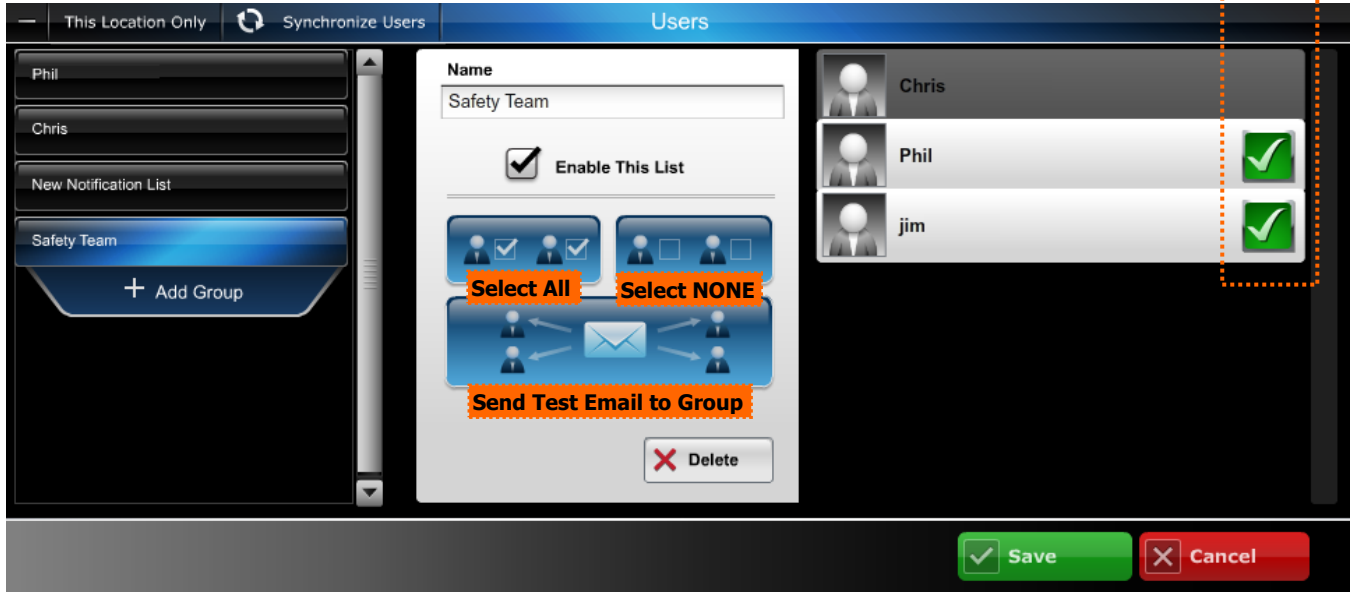
Creating an event notification group and adding members

This is where you configure which notifications are sent to each user group. Some important points are:

- Each member must be assigned to a group (a group can contain one or more members). Also the master user is a predefined group (default group).
- Within a particular group you can choose ALL members, NO members, or only certain members.
- The notification list can be enabled or disabled as needed.

1. Select from an existing group or click **Add Group**.
2. Enter a Name for the group, then check **Enable This List**.
3. Select which group members are to be notified.
4. Click **Save**.

Select which group members are to be notified.

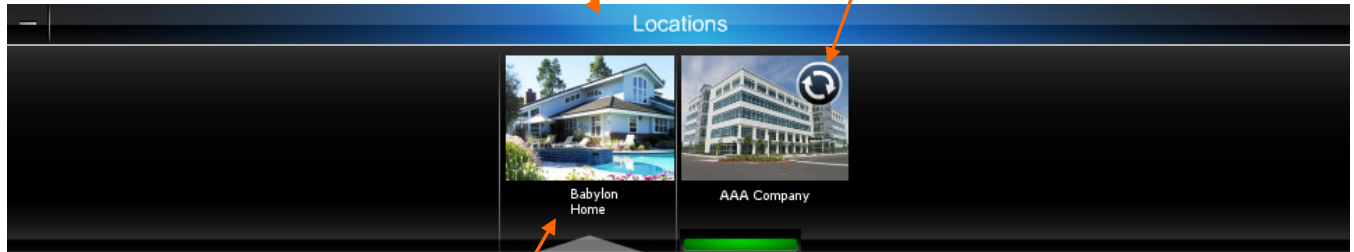


Locations module

This is where you can edit information on a particular location.

Shows the systems associated with the account.

Click to synchronize location data between the panel and Total Connect.



To edit a location, hover over the name and click Edit.

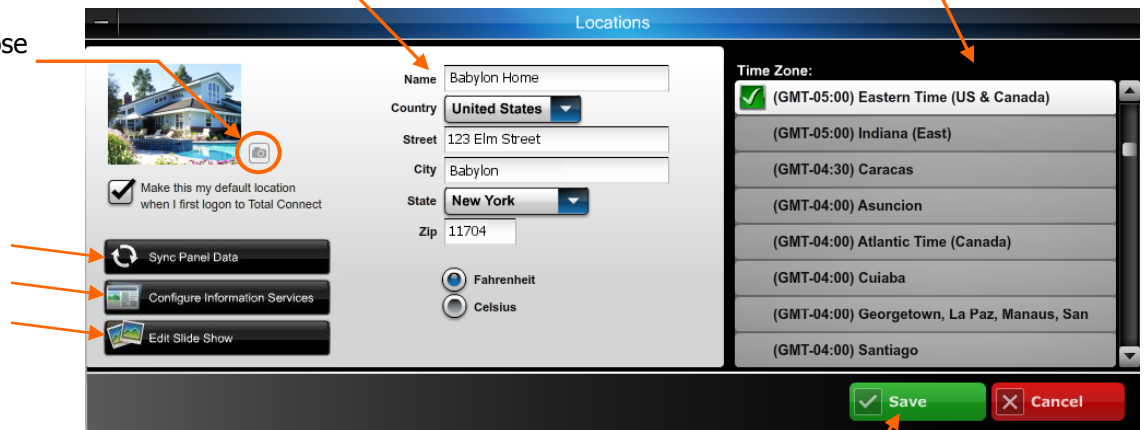
Editing the location

2. Enter a location name.

3. Choose the location's time zone.

The time zone only applies to event logs and email notifications. It does not effect the control panel time.

1. Click here to choose a picture.

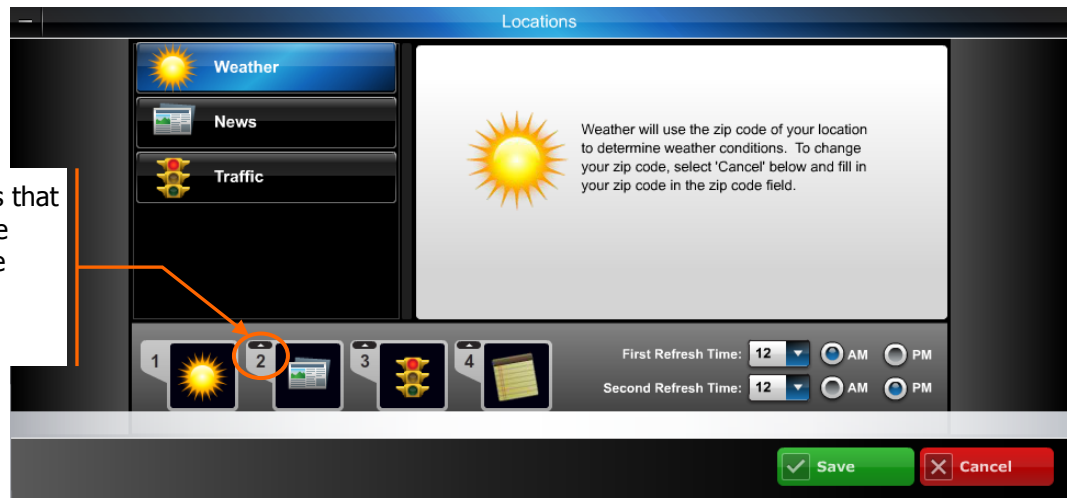


4. Click Save.

Configure information services

This feature allows you to add weather information to the Total Connect information area, and content such as weather, news, traffic, and notes to the LYNX Touch L5100, L5200, L7000 display.

Clicking here brings up icons that allow you to reorder how the push content appears on the LYNX Touch L5100, L5200, L7000 screen.

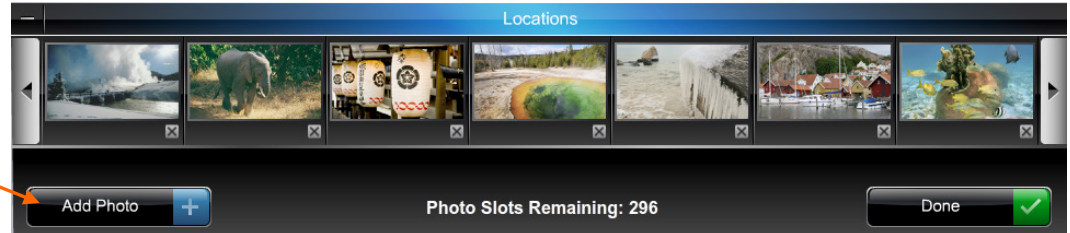


Edit slide show

(Contact your security provider to get this optional "Information Services" feature.)

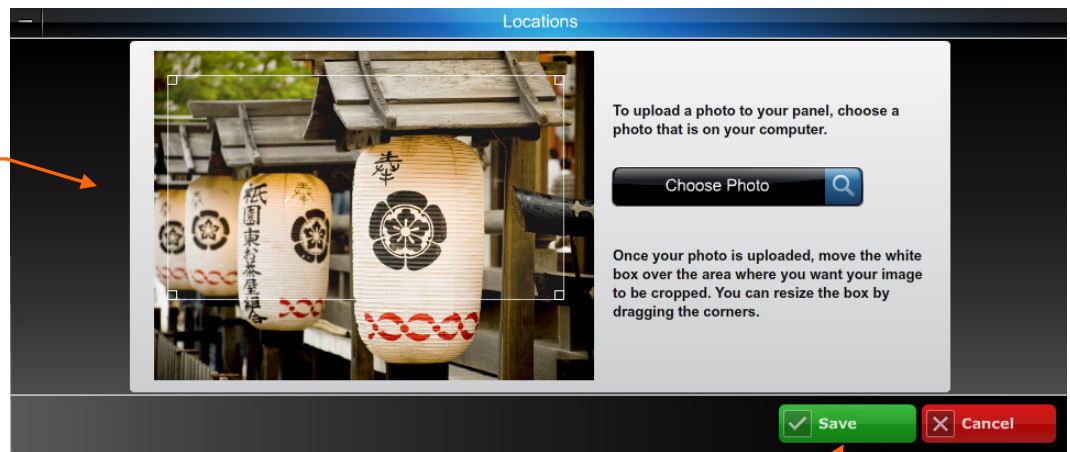
This tool supports the LYNX Touch L5100, L5200, L7000 control slide show feature. It allows you to add, crop, and delete photos. Pictures are cropped to 480 x 272 pixels.

1. Click to add a picture from your PC.



2. Click "Choose Photo" and navigate to the file on your PC.

3. Position and resize the crop box.



- Each file must be either .JPG or .PNG and under 2 MB.
- Up to 13 MB of space is available.
- The LYNX Touch controls must be communicating using Wi-Fi.

4. Click Save.

Automation module

This module is for those security systems that support Z-Wave automation devices. Security systems such as the LYNX Touch L5100, L5200, L7000 support Z-Wave automation devices.

Automation allows control of door locks, lights, outlets, shades, and thermostats. In addition to manual control of these Z-Wave devices through Total Connect you can create a "Scene" that would control a group of Z-Wave automation devices when a specific condition occurs. (Control of automation devices is restricted to users that are granted permission. See the topic "*Users*" for more information.)

Conditions such as arming and disarming a security system can trigger a "Scene" to be run.

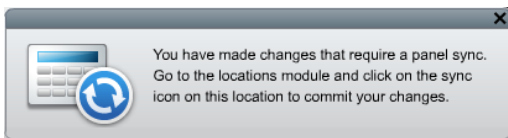
Let's look at the Automation module.

The screenshot shows the Automation module interface. At the top, there's a "Quick Control Mode" toggle. Below it, the "Main Floor" thermostat is displayed with a temperature of 75.0°F. To the right, there are heat and cool setpoints (70.0°F and 75.0°F) and a fan control. A "Normal" mode selector is also present. Below the thermostat, there are filters for "All", "Locks", "Switches", and "Dimmers". The main area shows five device cards: "Front Door", "Living Rm", "Bk. Yard Light", "Garage Light", and "Porch". At the bottom, there's a "Scenes" section with an "Arrive Home" scene and buttons for "Edit" and "Create New".

Annotations:

- Low Battery Warning: Points to a battery icon on the thermostat.
- Thermostat control, the features displayed depend on the model: Points to the thermostat controls.
- Automation devices, you can filter what is viewed by using the filters: Points to the filter menu.
- Here is where you create or edit Scenes: Points to the "Create New" button.
- Toggles between Quick Control and Full Control mode: Points to the "Quick Control Mode" toggle.
- For certain devices you can select a custom icon: Points to a custom icon on the "Living Rm" device card.
- Scheduling, on this thermostat you can schedule temperature changes: Points to a clock icon on the thermostat.

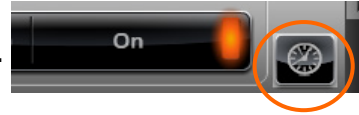
In the next topics we will explore Thermostat scheduling and creating an Automation Scene. Note, that whenever you save a created or edited a scene you will receive a temporary pop-up reminder to synchronize your panel. This will send the new scene information to the control panel.



After getting familiar with the Automation module, please read the "*Automation helpful hints*" sub-topic later in this document.

Thermostat scheduling

1. Click the clock icon to open the thermostat scheduling.
2. The scheduling window appears.

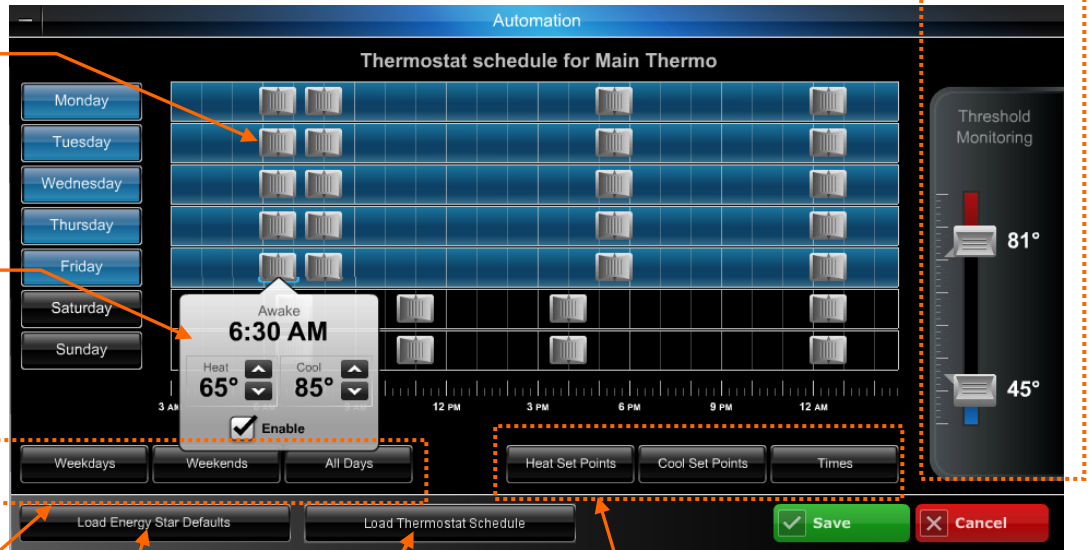


If the temperature falls outside the threshold limits, an email notification is sent. (Needs to be setup, see the "*Setting up event notifications*" topic.)

Drag the slide buttons to set the time.

Click the slide button to pop up a temperature setting box.

In this example since Week Days was selected, your settings will apply to all the highlighted days.



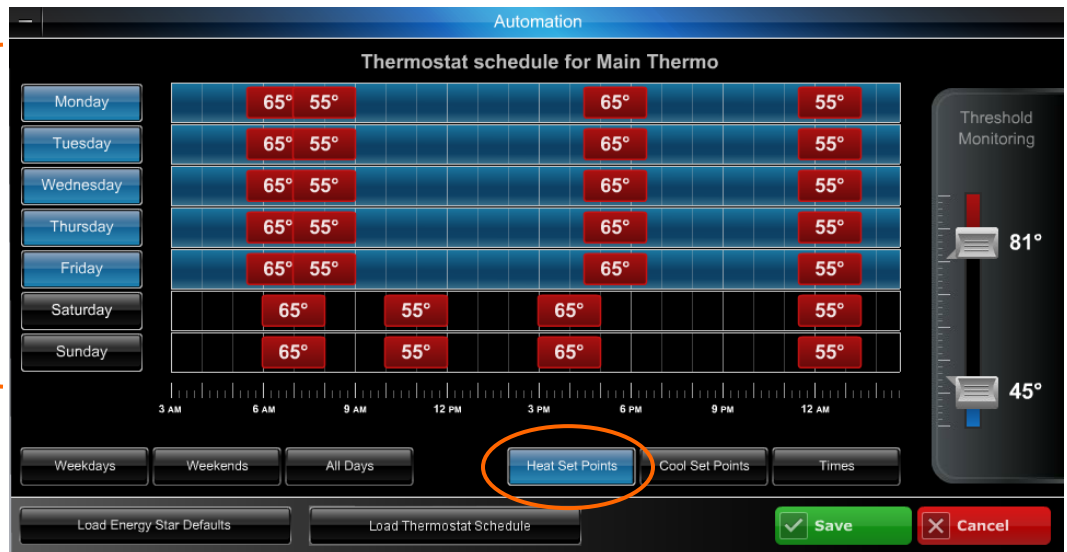
Select the days of the week to set.

Another choice is to just load the "Energy Star Defaults" for your thermostat.

This appears when there are multiple thermostats. It enables you to duplicate the schedule of the first thermostat to other units.

Click and hold any of these momentary buttons to display specific information.

With the momentary "Heat Set Points" button depressed, the temperatures are displayed.



Creating an automation scene

Here we will use the Automation module to create a simple scene to control your automation devices during a vacation. In this scene you want the following scenario to take place when you leave the premises for a vacation:

- When you leave, the automatic front and rear door locks will lock.
- The living room light will be dimmed to 80%.
- The kitchen light will be dimmed to 80%.
- The porch light will be dimmed to about 25%.
- The electric porch heater will be set to off.
- The main thermostat will be set back to 62 degrees to save energy.

To create the Vacation scene:



1. Click **Create New**. Then in the Scene Name field, enter the name "Vacation", then choose an icon.



2. In the device area, ensure the ALL filter is activated so you can see every device. Use the scroll left and right arrows if necessary to find the automation device.
3. Since we want the front and rear door locks in the locked mode, check the box by each lock to include it in this scene. Click the front and rear door lock icons to attain the LOCKED state.
4. Find the living room light device, and check the box to include it in the scene. Set the dimmer slide to about 80%. Repeat this for the kitchen light, and the porch light, using the dimmer slide to the desired illumination level.
5. Find the porch heater and check the box to include it in the scene. Click the icon to attain the OFF state.
6. Look at each device and ensure only those devices to be included in this scene have their box checked.
7. Set the thermostat to 62 degrees and click the hold button.
8. Save the scene.
9. Click the green Run button to verify the automation devices action. Make any changes as necessary.

Using the scene:

When you leave for vacation you would arm the security system in the normal manner. Then after leaving the premises use your smartphone or other device to log into Total Connect. At the Automation module, select the "Vacation" scene and click run.

Automation helpful hints

There are many configuration options in the Automation module, some can be configured at the LYNX Touch control, but it is much easier to perform all these tasks from Total Connect. Manual control of your automation devices is easily done from the automation module. The same is true for creating and editing simple scenes.

However there are times when a more detailed scene is desired. As you get familiar with creating and running simple scenes, you will be ready to create more detailed scenes. Below are a collection of functions that more advanced users should be aware of.

General:

- Only those features offered by the Z-Wave device will appear.
- When necessary, left and right scroll arrow buttons will appear to view more devices.

Thermostat:

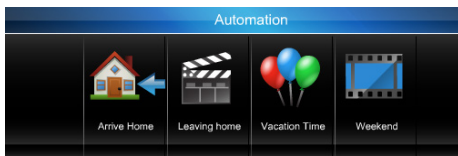
- Thermostat name is limited to 13 characters.
- Thermostat and Fan mode buttons will toggle through their different modes. If the mode button is held a pop-up list of possible modes will appear.
- When auto mode is selected, Dual set points will appear.
- When a thermostat set point is changed, the thermostat will stay at that temperature until the next set point time.
- If the Hold button is selected, the thermostat will stay at that temperature until either the hold button is pressed again, or any other thermostat property is changed. In that case the Hold button will deselect.

Locks, Switches, Dimmers, and Outlets:

- These devices can be dragged to the desired order.
- An "X" will appear for any device that is not connected.
- If you have a Z-Wave door lock, a jammed condition will be sensed and will appear in the "Events, Rules & Notifications" module. This condition can be configured as an email notification.

Scenes:

- You can create up to 20 scenes with a total limit of 47 devices. Each scene is limited to 4 locks, 3 thermostats, and 40 lights/switches. (Actual limits are determined by the LYNX Touch control.)
- After creating a new scene, use the green run button to test the scene.
- When in the "Quick Control" mode (button on the Automation module), the you will see a series of scenes. Just click on the scene to run it.



Video module

Total Connect lets you monitor up to six cameras, providing thumbnail images for each one (Thumbnails are updated every 10 to 20 seconds). In turn, each thumbnail image can be double clicked to open a resizable real-time streaming video viewer window.



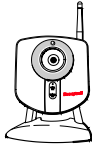

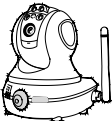


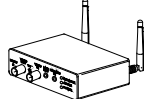
Wired camera.

Wireless camera signal strength indicator.

Enables you to set various parameters for this camera. Refer to the topic "[Edit Camera Settings](#)".

Firmware update notification. Refer to the topic "[Updating the camera firmware](#)".

The various cameras each have different features that can be controlled. **When a particular camera is selected, only the Tool buttons for that model camera will appear.** The table below highlights the features of each internet camera model:

Camera	Features
 iPCAM-WI Camera	<ul style="list-style-type: none"> wired or wireless fixed lens video motion detection
 iPCAM-WI2 Camera iPCAM-WI2B	<ul style="list-style-type: none"> wired or wireless fixed lens video motion detection sleek design comes in black, or white
 iPCAM-PT Camera	<ul style="list-style-type: none"> wired or wireless fixed lens video motion detection PIR motion detection pan and tilt with presets aux lighting
 iPCAM-WO Camera	<ul style="list-style-type: none"> wired or wireless fixed lens video motion detection PIR motion detection outdoor use
 iPCAM-WL	<ul style="list-style-type: none"> wired or wireless fixed lens video motion detection automatic normal/low-light lens function (0 Lux level)
 ACU Wireless Analog Converter Unit	<ul style="list-style-type: none"> Allows any camera that outputs NTSC video to be used with Total Connect. provides a video output for a local NTSC video monitor

Refer to the topics that follow for details on the viewer windows, tool buttons and how to set your camera preferences.

Viewer windows

Working from the thumbnails you can open one or more viewer windows by double clicking the thumbnail. Each viewer window;

- displays video in real time.
- can be resized, and arranged by dragging.
- displays the tool buttons based on the camera features. For information on the tool icons, refer to the "*Tool buttons*" topic.



About Network Bandwidth . . .

Since the IP cameras are network devices, they depend on the network's ability to transfer data. This ability is referred to as bandwidth. Although you can stream up to 6 cameras you are limited by the network bandwidth supplied by your internet provider. In addition, be aware your actual network bandwidth will decrease depending on your local network traffic and transport servers.

There are three measurements that affect the quality of network service:

Upload Speed – The amount of data that can be transferred from the transmitting premises (where the cameras are located) in a period of time. This is measured in bits per second.

Download Speed – The amount of data that can be transferred from the receiving premises (where the Total Connect application is running) in a period of time. This is measured in bits per second.

Ping Time – Internet transfers do not go directly from the source to the destination server, instead they hop from available server to available server to reach the destination server. With each hop there is a response lag referred to as "Ping Time." Depending on the number of hops, this lag can add up.

To attain maximum video quality and frame rate from your IP camera it requires a transfer speed of 1.5 Mbps for both Upload and Download paths. Therefore to achieve this for six IP cameras it requires 9 Mbps for both Upload and Download paths. Many internet providers easily exceed this bandwidth.

If the necessary bandwidth is not available, the resolution and frame rate will decrease. If this situation occurs, consider having less viewer windows open. That will free up bandwidth for the important IP cameras you want to monitor.

Below are some examples of viewer windows.

Pan/Tilt Camera, initial view



Use the Enlarge button to bring up a larger dedicated viewing window.

Pan/Tilt Camera, expanded to full screen










The tool buttons displayed are based on the camera features.



- You may use the arrow buttons to position a PT (pan & tilt) camera.
- Use single clicks and allow time for the camera to attain the new position.
- Use the center Home button to command the camera to its home position.
- Refer to the detailed description in the "*Tool buttons*" topic.

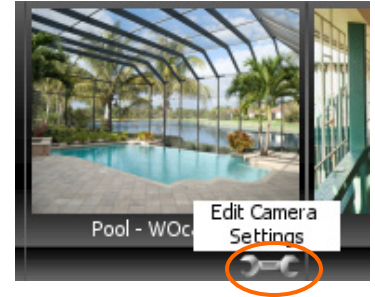
Tool buttons

Button	Function
	<p>How the camera's "Home" position is determined.</p> <ul style="list-style-type: none"> • If no video detection areas have been set up, the camera's home position is centered in its vertical and horizontal axis. • If a video detection area has been set up, that view <u>now becomes the home position</u>. • When a camera has been moved to <u>other than the home position</u>, after 5 minutes of no movement the camera will always return to the home position.
	<p>arrow buttons – Click to incrementally position the camera in a vertical or horizontal direction.</p> <p>center home button – Click to drive the camera to its home position.</p> <p>preset buttons 1, 2, 3, 4 – These buttons are used to quickly drive the camera to a preset watch area. (Up to 4 preset watch areas can be set.) Just "single-click" the button to go to the preset watch area.</p> <p>To set a preset watch area, use the arrow buttons to drive the camera to the desired area. Then press and hold the desired 1, 2, 3, or 4 button for about 3-seconds. A checkmark will briefly appear to confirm the preset is saved.</p>
	<p>enlarge – Used to toggle the viewer window between full screen and previous view.</p>
	<p>movie camera – Used to manually capture video clips. When clicked, a <u>10 second video clip</u> is captured, based on the pre-capture and post-capture settings stored in the camera. The video clip will be stored as an event, and may trigger an email notification if desired. (Refer to the "<i>Edit camera settings</i>" topic.)</p> <p>Note, if a scheduled period has been setup for video motion detection, this feature is restricted to the scheduled period. If no schedule has been setup, there is no restriction (operates 24/7).</p>
	<p>still camera – Used to manually capture still pictures. You will be prompted to save the picture if desired.</p>
	<p>light – Used to toggle on or off the camera's auxiliary lighting LEDs. Depending on the ambient low light conditions, the auxiliary LED lighting can improve video quality up to 15 feet.</p>
	<p>auto pan – Causes the camera to swing through its entire horizontal range. At the end of the panning motion, the camera will return to the starting position. After 5 minutes of no movement the camera will always return to the home position.</p>
	<p>stop/play – When clicked, this button toggles between stopping and starting the live video stream. When stopped, the video image is replaced by a blank screen.</p> <p>Note, if you inadvertently click on the live video screen, the video may go blank. You can use this button to restart the live video.</p>

Edit camera settings

Note, the settings for each camera are configured separately. On each camera preview window there is a Tool icon in the lower right corner, click this icon to configure the camera. It is important to know that configuration settings are stored in the camera and are retrieved when a video session is opened.

To understand the various configuration settings we will look at the settings for a typical camera. Refer to the screen shots that follow to understand how to configure each camera settings. Most settings use drop-down menus or check boxes.



Name and Date/Time

You can assign the camera a descriptive name. Up to 15 characters may be used. The new name will appear when the next video session is initiated. You can also set your date and time preferences.

Video

cam3 OD-Pool

Name and Date/Time

Event Capture / Notification

Event Schedule

Event Detection Areas

Other Features

Camera Information

Camera Name:

Time Zone:

12/24 Hour Format:

Date/Time Format:

Adjust for Daylight Savings:

Timestamp Visible:

Event Capture / Notification

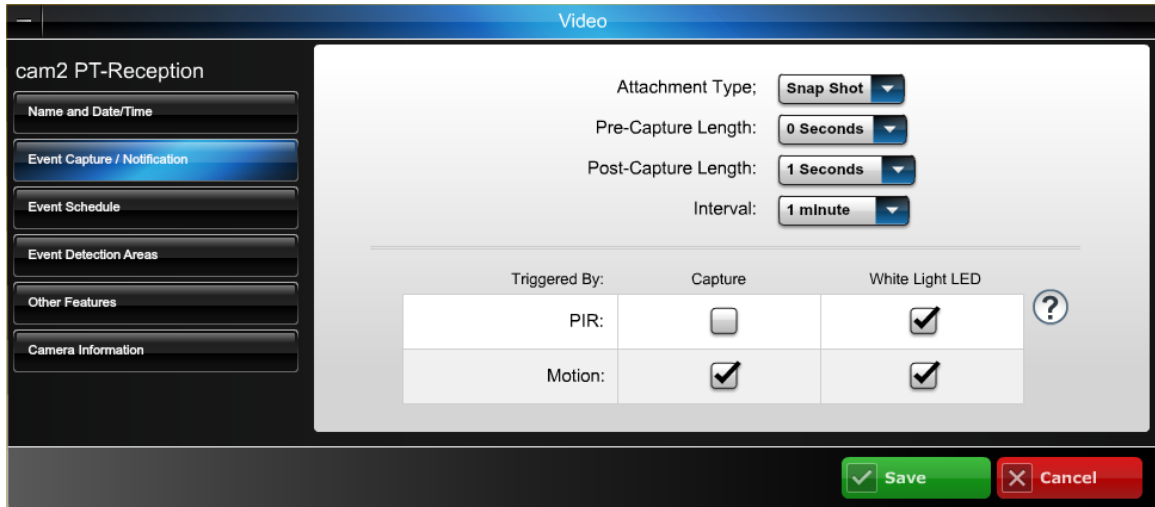
This screen enables you to choose what IP camera feature will be used to detect motion, and to specify the video capture window that results when motion is detected. It allows you to tailor the timing of the video capture in respect to when motion is detected. Some cameras have additional features (such as White Light LED) that you can activate here.

All of our IP cameras utilize video analytics to detect motion. Some cameras also have a PIR (Passive Infra Red) detector that may be used to detect motion.

Note: You must choose only one method of motion detection.

PIR motion detection is based on sensing body heat via multiple beams. When the detected heat signature breaks the beams in sequence, motion is detected. It has a range of about 15 feet (4.5m) and does not require ambient light to detect motion.

Video analytics detects motion by comparing sequential video frames for change. In many situations, video analytics is a superior method of detection since it can be configured to avoid areas that may have movement that would falsely detect motion. Additionally range is not a factor since motion detection is based on changes to the video frame.



Attachment Type – If you want an email notification, choose between sending a [Video Clip](#) or [Snapshot](#) attachment. Note, regardless of the choice, a video clip will always be stored in the event history.

Pre-Capture and Post Capture Length – These two settings determine the beginning and end of the 10 second period that is captured when motion is detected. For video a 10 second clip is captured, and for snapshots a series of 10 are captured.

Interval – Choose from 1 to 15 minutes before the next video motion can be captured. This setting helps reduce excessive notifications.

PIR, Motion, Capture, White LED camera options – This enables you to set which Triggers will be used to cause certain actions. Depending on the camera type, features that are not supported will be grayed out. Triggers can be from a security system control panel input, the camera's PIR detector, or video motion. One or more may be selected.

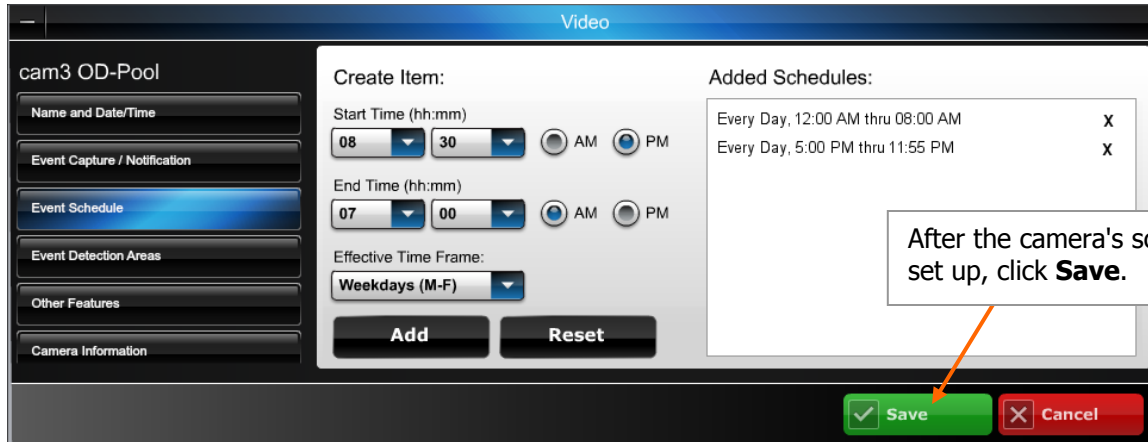
1. Choose the triggered input(s) that will capture video:

- PIR – Triggered by the camera's PIR sensor. Will trigger on movement within the PIR sensor view. There are no masking, sensitivity levels or adjustments. DO NOT choose if Motion detection is going to be used.
- Motion – Triggered by video analytics within four user defined "Event Detection Areas". Motion is determined by comparing current and previous video frames. DO NOT choose if PIR detection is going to be used.

2. Determine what action results from the triggered input:

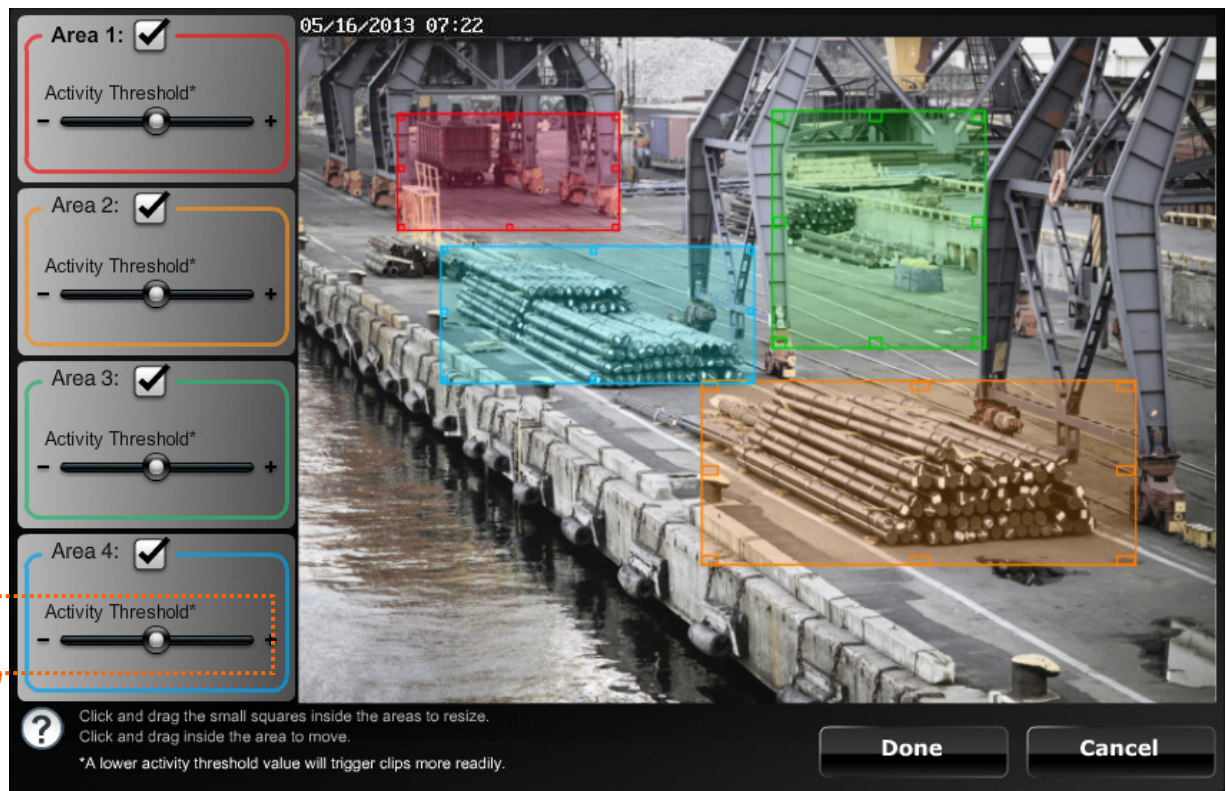
- Capture – The video or snap shot is stored in the Event History and can be sent as an email notification if desired.
- White Light LED – The camera's white light LEDs turn on for the 10 second video motion capture period. (This works only when the room is dark.)

Event Schedule – This allows setting schedules that define when a motion event can be detected. Schedules may be deleted by clicking the "X" adjacent to the schedule.



Event Detection Areas – This allows setting up to 4 detection areas where video motion can be detected and the Activity Threshold can be adjusted. When an area is activated by checking the box, a transparent colored Detection Area will appear on the screen. You can drag and resize the box as desired. Click **Done** when all the areas are configured.

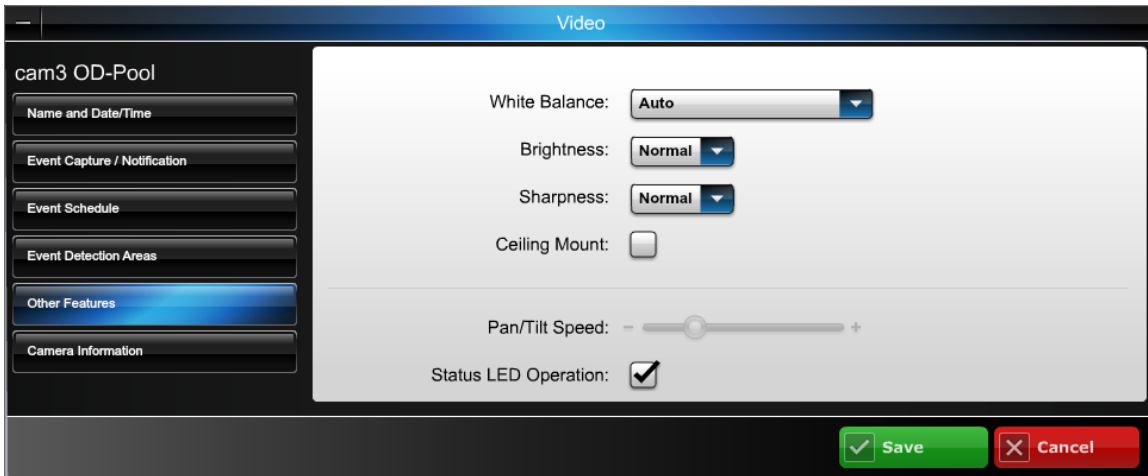
Motion detected in any area will trigger a video event and store a video clip or series of snapshots.



A lower activity threshold value will trigger clips more readily.

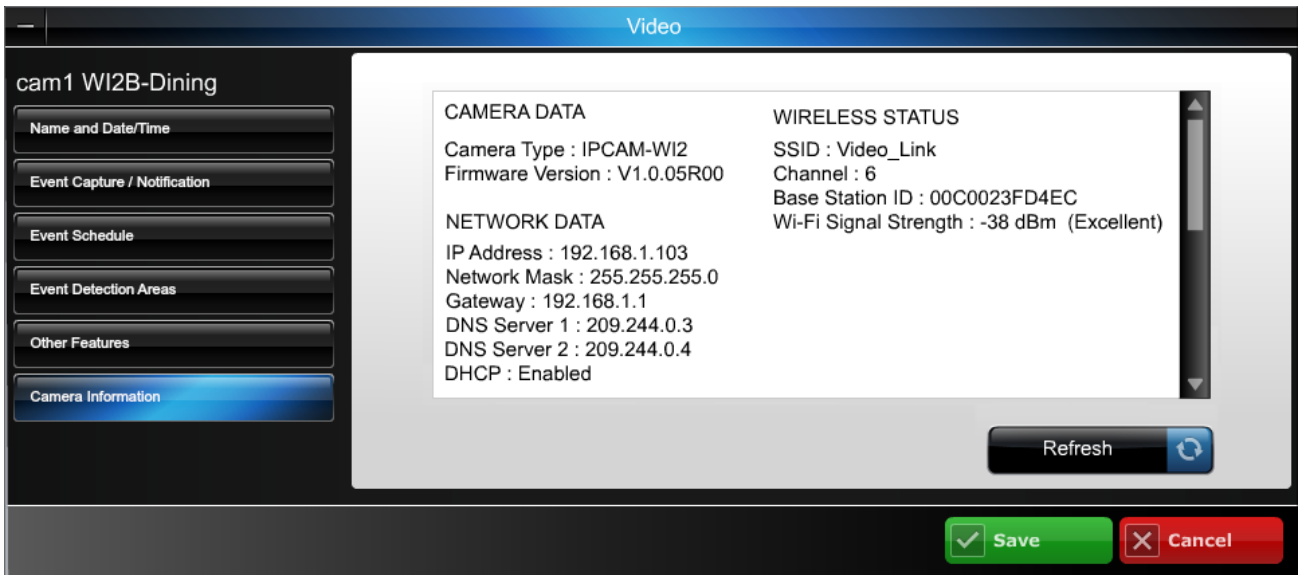
NOTE: After setting up the detection areas, go to the topic "*Setting up event notifications*" and ensure all the desired notifications are enabled. Also refer to the next topic "*Improving video captures*" to learn how to get optimum capture results.

Other Features – This allows setting various camera parameters that may improve the image quality.



- White Balance, Brightness, Sharpness – Enables adjusting the video parameters as desired.
- Ceiling Mount – For cameras that are ceiling mounted, check the Ceiling Mount box to invert the image.
- Pan/Tilt Speed – Allows choosing the camera panning speed. Note, a slower speed will give clearer video.
- Status LED Operation – Uncheck this box to turn off the camera's status LEDs for stealth operation. Although the camera will appear as not operating, all functions are working.

Camera Information – This information is for Technical Support use only, and is not intended as a substitute for network theory.



In the descriptions below, the item in **red** is used by Technical Support to determine the Wi-Fi quality.

Camera Data	
Camera Type	Identifies the camera model number.
Firmware Version	Often referred to as "Subnet Mask", this number indicates the maximum number of IP addresses that can be hosted by the router.

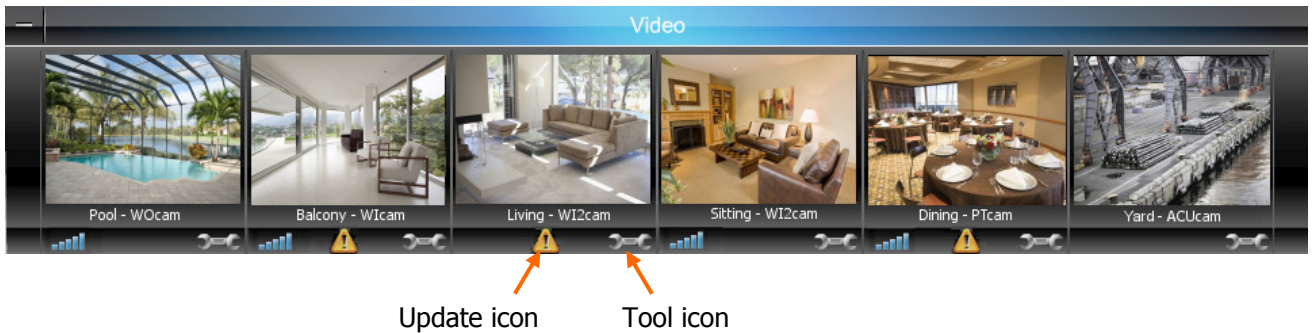
Total Connect 2.0 Online Help Guide

Network Data	
IP Address	IP address of the router or Honeywell's WAP-PLUS.
Network Mask	Often referred to as "Subnet Mask", this number indicates the maximum number of IP addresses that can be hosted by the router.
Gateway	IP address of the modem (or gateway router) that the router communicates with.
DNS Server 1	Primary Domain Name Server used by the router.
DNS Server 2	Secondary Domain Name Server used by the router.
DHCP	Indicates if the router is using DHCP (Dynamic Host Control Protocol) to assign IP addresses to the devices.

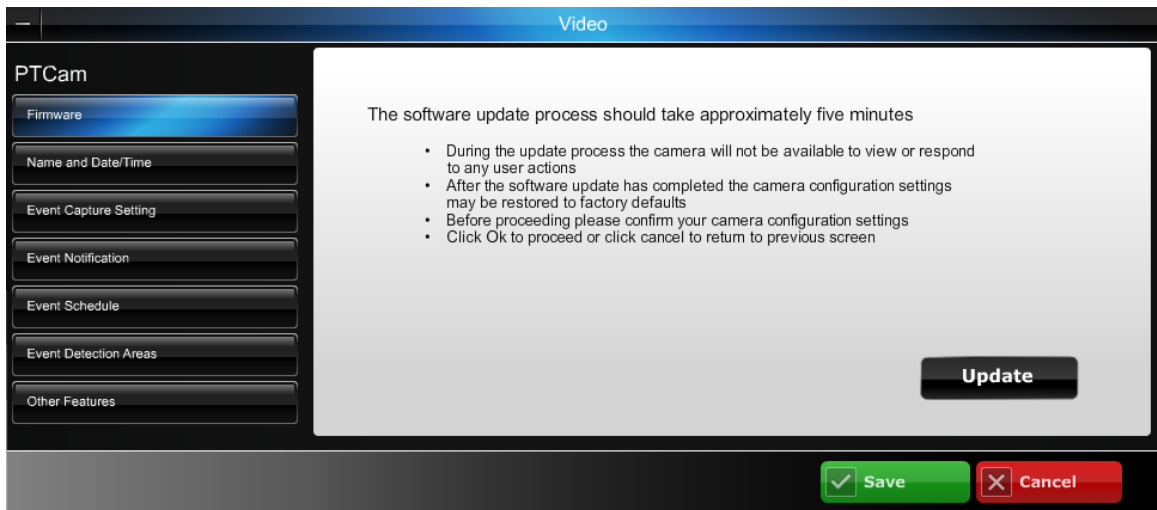
Wireless Status	
SSID	This is the broadcast name of the wireless router or Honeywell's WAP-PLUS. It helps the user to identify the correct router.
Channel	Indicates the wireless channel number the wireless router is using to communicate with the IP device.
Base Station ID	This is the binary number that represents the SSID (see above).
Wi-Fi Signal Strength	<p>This indicates the Wi-Fi signal strength for the IP camera. Specifically the relative signal strength between the IP device and the wireless router or Honeywell's WAP-PLUS.</p> <p>For installations where Honeywell's WREX Wi-Fi Extender is used, it indicates the relative signal strength between the IP device and the WREX.</p>

Updating the camera firmware

If your camera is not running the latest firmware an Update icon will appear.



1. Click on the Tool icon in the lower right corner.
2. The Firmware update window appears.



3. Click the **Update** button. A confirmation message appears. Click **OK** to the confirmation message to proceed.
4. During the firmware update process the video image will be replaced with a tool image. You can continue using other cameras. When the firmware update completes, normal operation for that camera is restored.

Improving video captures

All of our IP cameras utilize video analytics to detect motion. Some cameras also have a PIR (Passive Infra Red) detector that may be used to detect motion.

PIR motion detection is based on sensing body heat via multiple beams. When the detected heat signature breaks the beams in sequence, motion is detected. It has a range of about 15 feet (4.5m) and does not require ambient light to detect motion.

Video analytics detects motion by comparing sequential video frames for change. In many situations, video analytics is a superior method of detection since it can be configured to avoid areas that may have movement that would falsely detect motion. Additionally range is not a factor since motion detection is based on changes to the video frame.

The video analytics utilize up to four detection areas. Each detection area can be positioned and resized in the video frame to only look at areas of concern and to avoid areas that would result in false motion detection. When using video analytics, use the guidelines below to properly setup the camera to detect motion.

Video motion to avoid

- Lighting that is subject to rapid changes will cause unwanted motion detection. Examples are; rapid changes from cycling interior lights, or external lighting that changes due to moving clouds, moving foliage, and weather conditions.
- People or cars that normally pass by a window, door or sidewalk.
- Blowing plants or flags.
- In commercial situations, non intrusion areas where people are expected to be.

When the scene has poor lighting

Poor lighting or low contrast scenes will never produce reliable motion detection. If the camera can't see the people, the video analytics will not detect any motion. Improve the scene by:

- Adding more lights. This is especially helpful in outdoor scenes, such as the backyard, or that dimly lit pathway or porch.
- Distribute the lighting so as to reduce shadows.
- Using brighter lights.

Configure the capture zones for optimum motion detection

- Consider if the camera is correctly aimed to concentrate on the area that needs protection, and avoids those areas that would not improve protection.
- Look at the image and identify portions of the image that would keenly capture motion that results from intrusion. Position the detection areas to overlay those image portions.
- Keep the detection areas as small as possible to eliminate looking at video that may result in false captures.
- Take another look and readjust the position and size of the detection area as necessary.
- Test and fine tune the Activity Threshold setting for each detection area.

How to best apply these guidelines

By using the guidelines above to Configure the Detection Areas, then Adjust the Activity Threshold we can optimize camera's detection. Let's take a look at some sample configurations.

1 Configure the Detection Areas

By using smaller detection areas you get better motion detection with less false triggers. Let's take a look at some sample configurations.



In the picture above, we avoid outdoor lighting and focus on three capture areas; the stairway, far hallway, and near hallway.



This room has two walls of outdoor lighting that can cause problems. In this case, three detection areas were used. One area covers possible intrusion from the windows, another covers the stairs, and lastly one covers the hall with adjacent room.

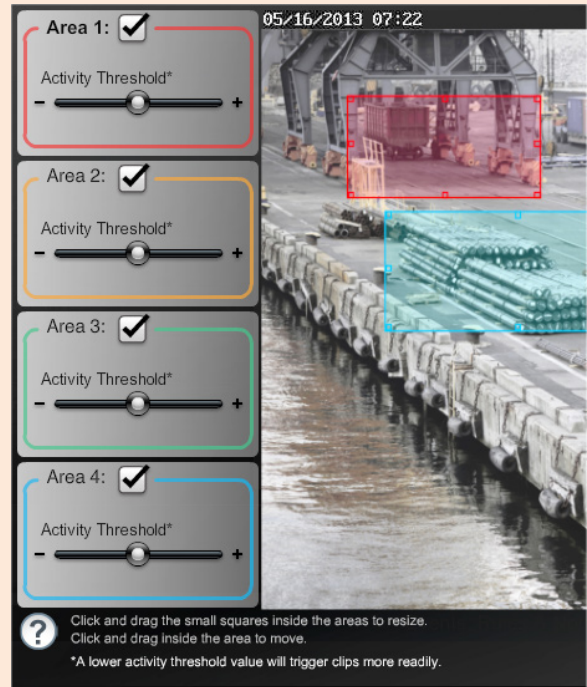


This entryway is surrounded by side glass panes that are subject to external lighting changes. Further, shadows caused by delivery people and mail people may trigger motion. In this case we chose one simple detection area that would trigger when the doors are opened.

2 Adjust the Activity Threshold

The activity threshold can be adjusted for each detection area. The default setting is mid position and that will work well for most detections. However by taking the time to test the scene and fine tune this setting, a higher success rate of detections can be achieved.

REMEMBER - - A lower activity threshold value will cause the camera to trigger more readily.



By following these guidelines, a high degree of valid motion detections can be attained. However, because of the many variables that can cause unwanted motion detection there is no way to eliminate all undesired motion detection.

Video troubleshooting

If you are experiencing any difficulty with your video, please refer to the information below.

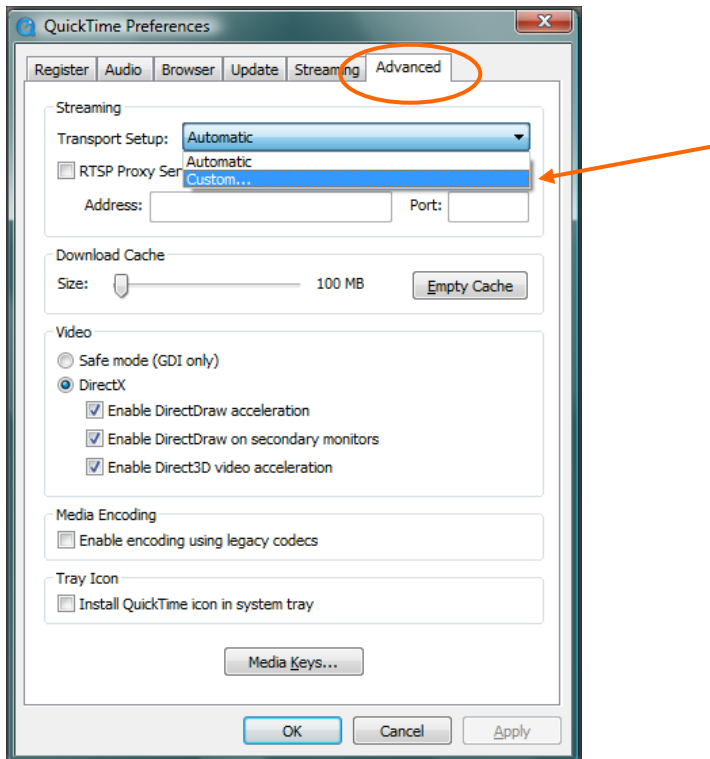
SYMPTOM – The thumbnails are working but there is no streaming video.

Cause: You must have Apple QuickTime installed on your PC and updated to the latest version. Perform the following corrective steps. If you do not already have QuickTime Player installed please download and install it.

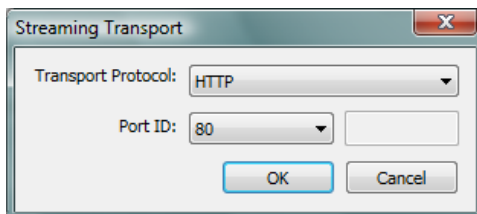
<http://www.apple.com/quicktime/download/> After the installation is completed and the PC has been rebooted, configure the player.

Configuring the QuickTime player

1. Open the player. Typically navigate **Start > Programs > QuickTime > QuickTime Player**.
2. From the **Edit** pull-down menu, navigate **Preferences > QuickTime Preferences**. The Preferences window appears.



3. Select the **Advanced** tab. Then using the Transport Setup drop-down box, select **Custom**.

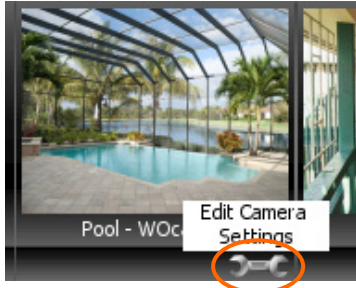


4. Ensure the Transport Protocol is set to **HTTP**, and the Port ID is set to **80**.
5. Click **OK**, then click **Apply**. Click **OK** to close.

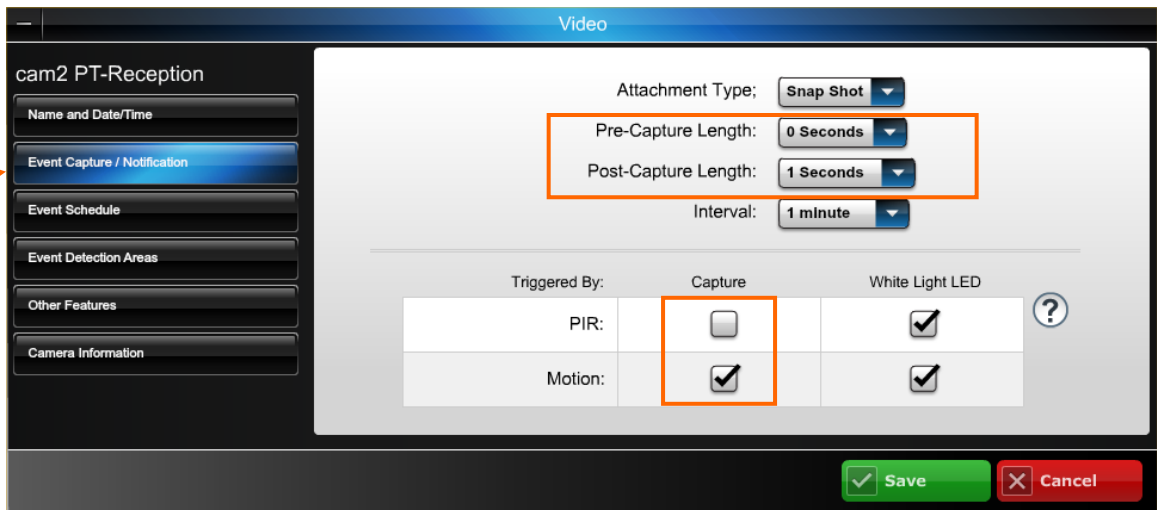
SYMPTOM – Camera is not triggering on motion, or triggers too often.

Cause: A detection method must be selected or modified. Either PIR or Motion must be selected. If Motion is selected, then the camera analytics need to be adjusted. Perform the following corrective steps.

1. Log into Total Connect and open the "Video", then for the appropriate camera select the Tool icon.



2. Check the Event Capture/Notification Setting, Event Schedule, and Event Detection Areas settings.



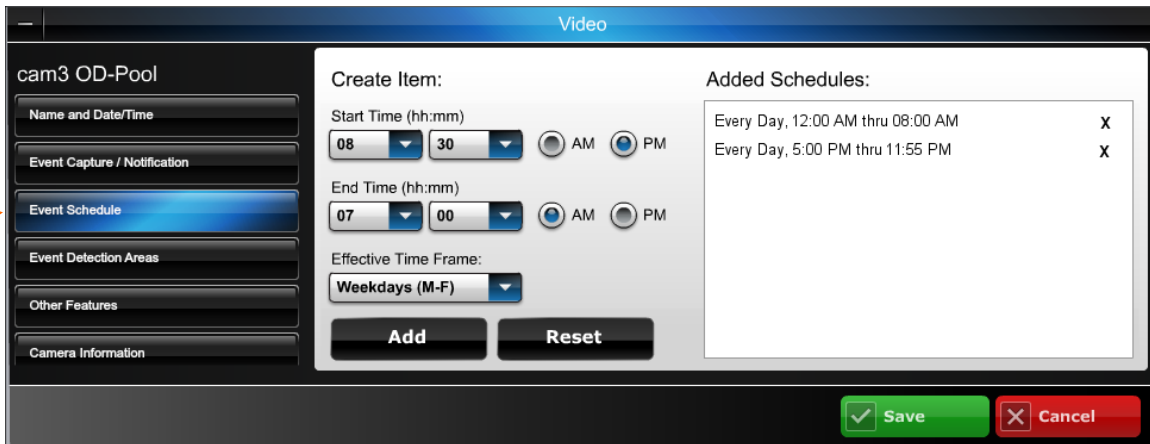
You may have to adjust the Pre-Capture and Post Capture length settings. Use a test subject walking across the field to help in finding the best video capture parameters.

Ensure that either PIR or Motion is selected. **DO NOT select both.**

PIR detection – works by using input from the camera's built-in PIR sensor. This is not adjustable.

Motion detection – works by analyzing frame-to-frame video differences. This is adjustable by clicking the EVENT DETECTION AREAS button, then adjusting the Activity Threshold for each detection area. Further attention should be given to the detection area size. See the guidelines below for setting the video analytics.

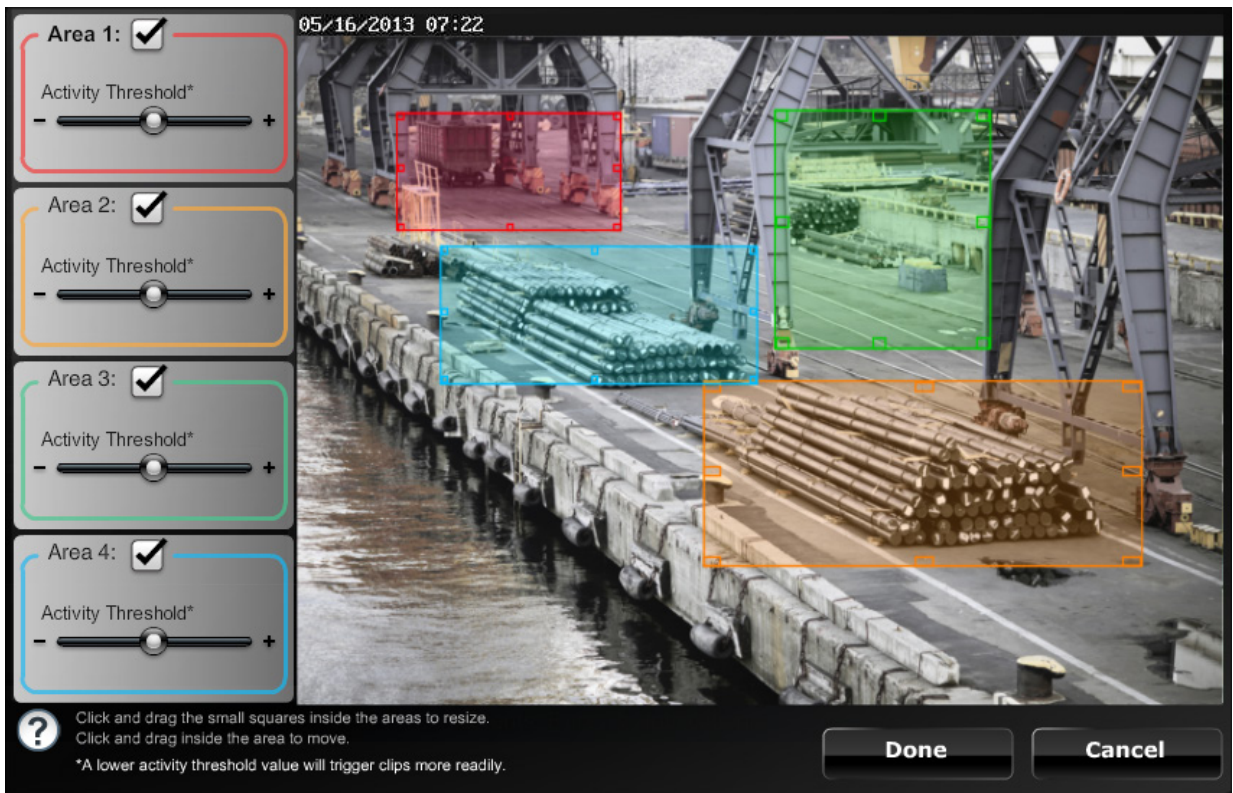
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If you have an Event Schedule set up, be aware that triggering will only occur within the scheduled time frame.



In the Event Notification settings, ensure **Motion** is selected and **PIR** is NOT selected, then return to Event Detection Areas. The following screen appears to enable adjusting the Activity Threshold for each area. Using the information below, make the adjustments, then click **Done**.



- Adjusting the **Activity Threshold** to the **+** side will increase the amount of activity needed to trigger the camera.
- Select the position and size of each detection area carefully so as to exclude areas that may cause unnecessary triggering. Consider positioning tightly on the area, or a pathway that leads to that area.

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- For indoor scenes, note that fans, curtains, changing light sources, shadows, and reflections off of other objects may produce false triggering.
- Consider repositioning the camera. The best detection is when motion is across the screen.
- When possible set the camera angle, and detection area height to avoid pets.
- For outdoor scenes, note that moving plants, and shadows may produce false triggering.

NOTE: In order for any change to take place you must click DONE to save the information for that camera.

Working with your Dealer / Installer to correct issues

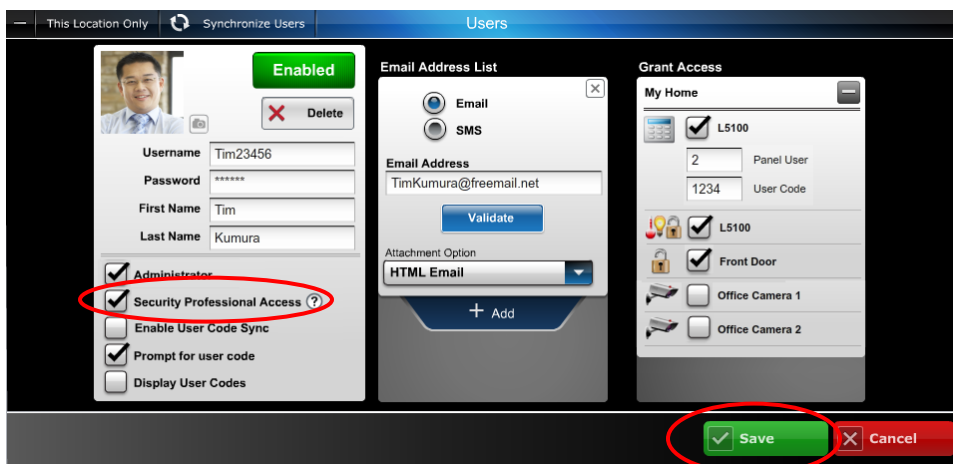
There may be times when the quickest way to resolve a problem would be to grant permission for the Dealer/Installer to access your Total Connect account and check the configuration.

As a result of an issue or special configuration changes, your Dealer/Installer may contact you and ask that you grant them permission to access your account.

Be aware that this permission limits the Dealer/Installer to a 1 hour window for each session granted. During that session the Dealer/Installer CAN NOT view your video or passwords.

To grant permission:

1. Log into your TC2 account.
2. Open **Users**, and hover over the user. Click the **Edit** button.
3. Check the **Security Professional Access** box, and confirm the pop-up security message.
4. Click **Save**.



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