



Smartvue S9Q
User Guide



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INTRODUCING SMARTVUE S9

MAKING YOUR WORLD A SAFER PLACE

You are about to make your world a safer place with Smartvue S9. Smartvue Corporation has been inventing the future of network video surveillance since 1996 and Smartvue S9 is uniquely designed to make professional surveillance simple and elegant.

QUICKSTART

OUT OF THE BOX

Your Smartvue S9 network video server (SERVER) comes with a power supply and a Quickstart Guide. Smartvue S9 network video cameras and other supported cameras are available separately, see your authorized Smartvue dealer or visit www.smartvue.com.

TURN IT ON

Connect an Ethernet cable to the network ETHERNET PORT #1 (left port) on the back of the SERVER and plug it into your local network. Plug in power using the included power supply to the 12V AC connector. on the front of the SERVER and press the power button to turn the system on.



LOGIN

To find the IP address of the Smartvue S9 server you can use Bonjour or UPNP, which is software that makes it easy for devices to find one another on a network.

USE **BONJOUR** OR **UPNP** TO FIND THE IP ADDRESS OF YOUR SERVER

On Windows, the Smartvue S9X Server will show up under DEVICES when using UPNP.

If you are using an Apple computer, in Safari select BOOKMARKS, then SHOW ALL BOOKMARKS. Click BONJOUR and you will see the Smartvue S9 server in the list, click on it. If you are using any other browsers, access Bonjour or try using applications such as DNSSD for Firefox.

Optionally you can log into your router and see the list of attached devices to find the IP address for the Smartvue S9 server.

At any computer connected to this network, type this address into your web browser (Internet Explorer, Chrome, or Firefox on a Microsoft Windows PC or Safari, Chrome, or Firefox on an Apple Mac) and the LOGIN screen will appear. Enter the default name "admin" and password "admin" then click LOG IN.



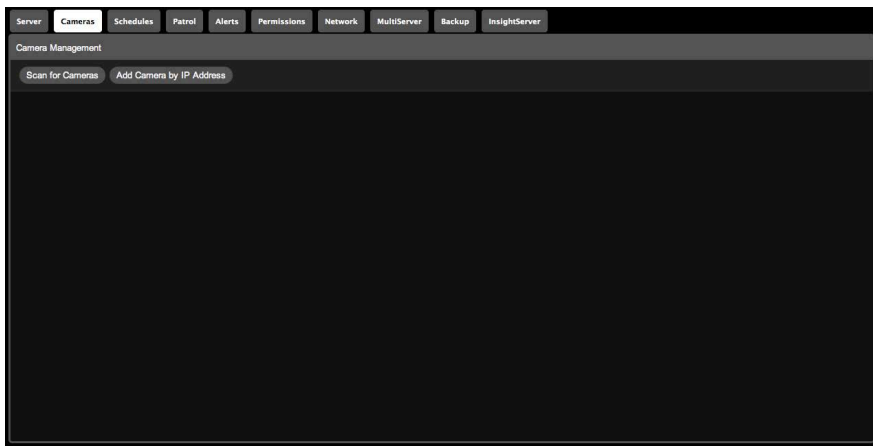
The default Username and Password are "admin" and "admin"

ADD CAMERAS

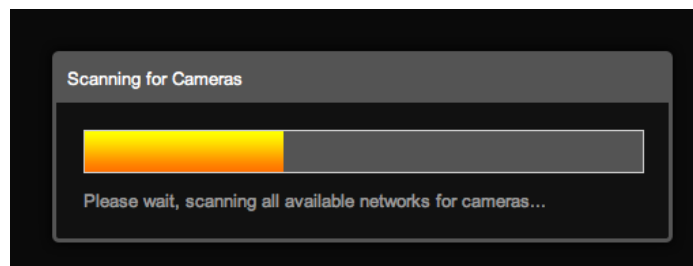
If your cameras are not already added to the system, after you login, to add new cameras to the SERVER, click on the SETTINGS button. The SERVER settings page will appear.



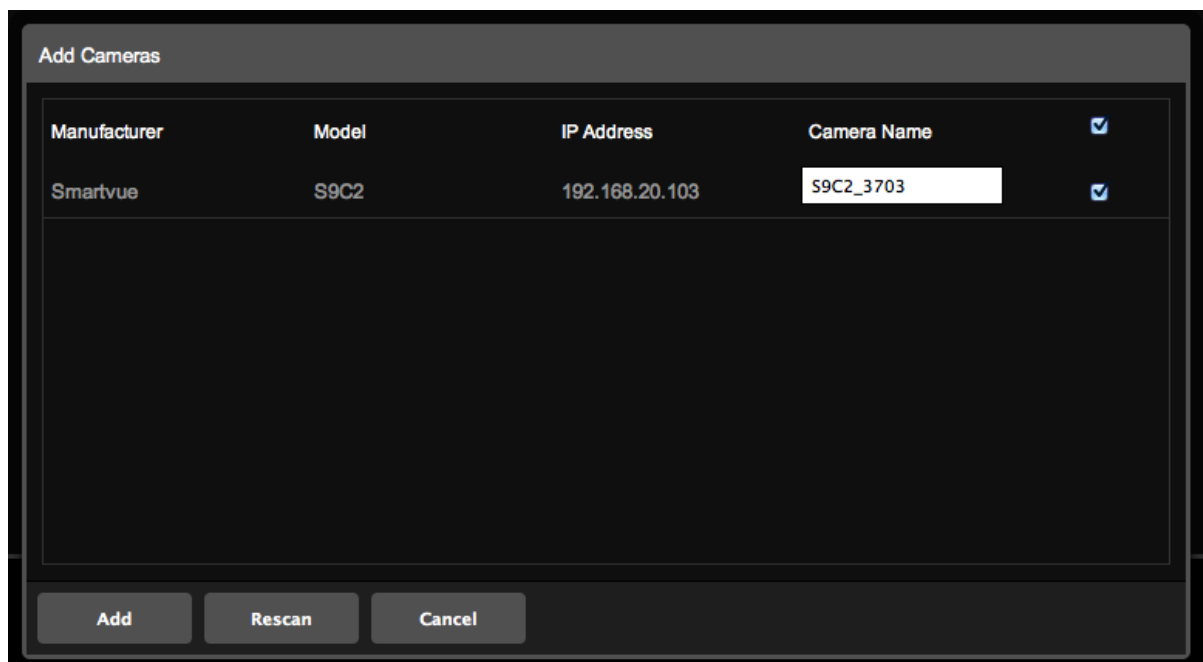
In SETTINGS, click on the CAMERAS button, the MANAGE CAMERAS page will appear.



Click on the SCAN FOR CAMERAS button to add new cameras to your SERVER and the system will begin the search for all compatible cameras.



The SERVER will then list the cameras and give you the option to name them and add them to the SERVER. To manually add a camera click on ADD CAMERA BY IP ADDRESS.



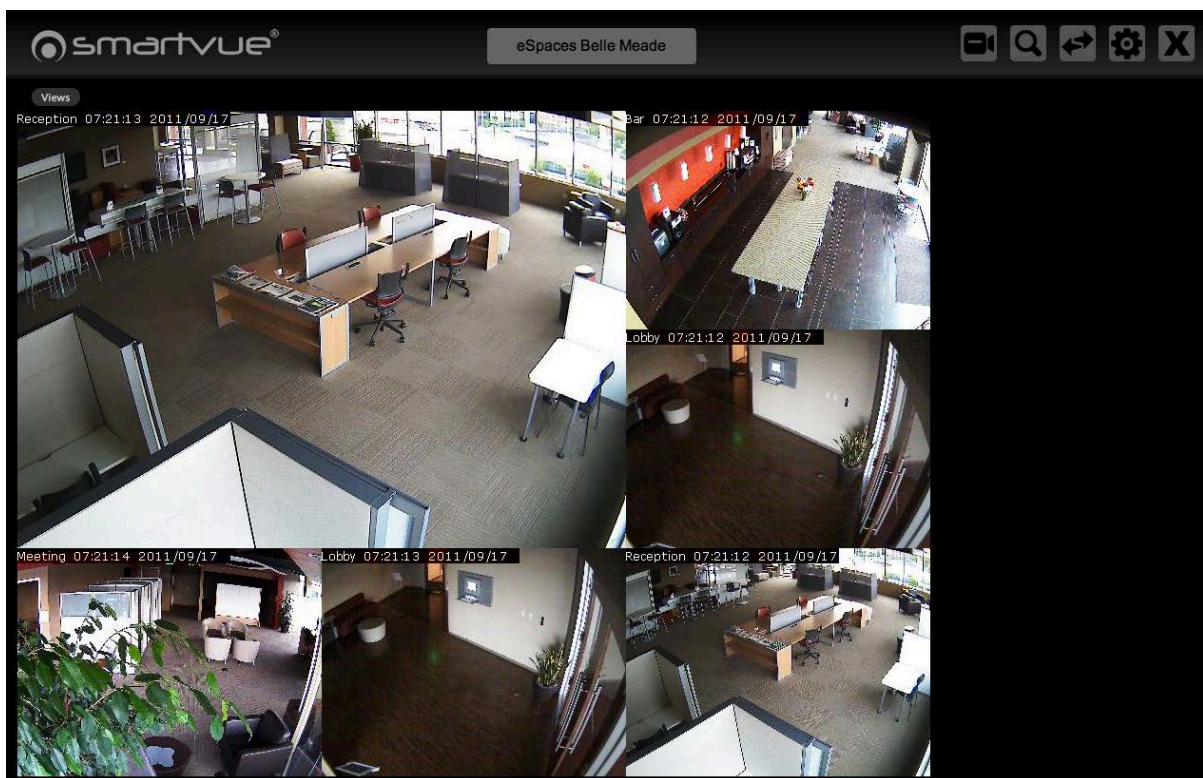
The SERVER will only find cameras connected to the same network(s) that the Smartvue SERVER is connected to.

THIRD PARTY CAMERAS

Smartvue S9 Servers support a number of different third party cameras from different manufacturers, please see the SETTINGS>CAMERAS section of this manual for a list of supported cameras. New cameras are added regularly, please check www.smartvue.com for the most recent list of supported cameras

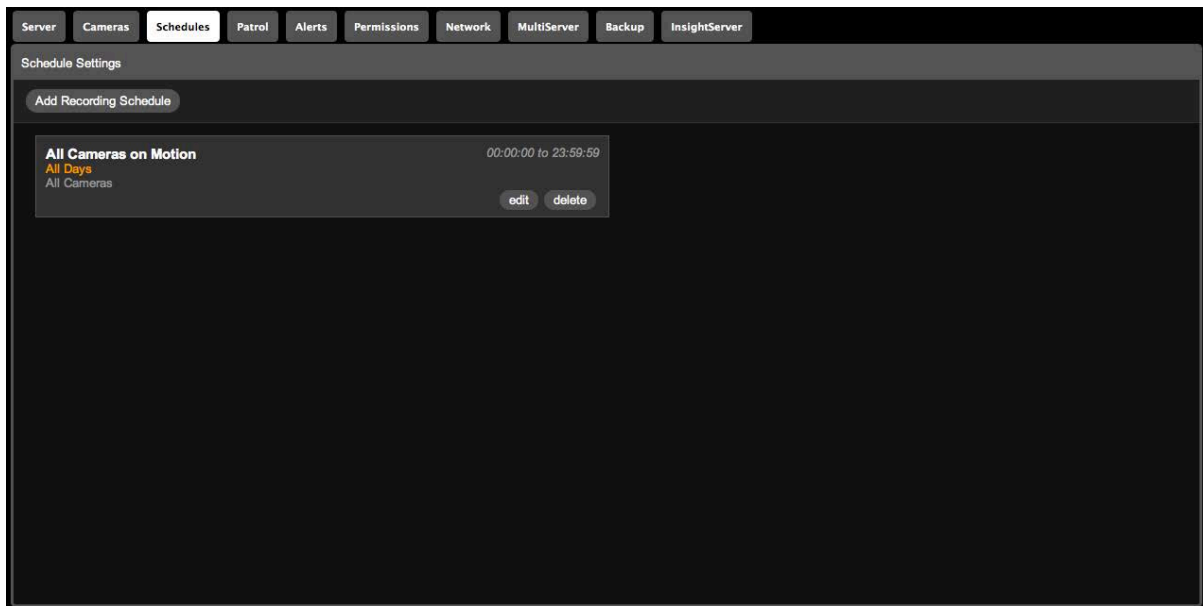
SEE IT LIVE

Once cameras have been added, you can view live video by clicking on the CAMERA ICON at the top of the screen, the LIVE MULTIVIEW page will be displayed. Click on any camera preview image to view video from that camera. Click on the VIEWS button to change the layout of the preview.



RECORD IT

By defaults all cameras added to the system are set to record 24x7. To edit a recording schedule, on the SETTINGS page, click on the SCHEDULES button. The recording schedule will appear. Click on edit to edit the current schedule or click on ADD RECORDING SCHEDULE to add a new recording schedule.



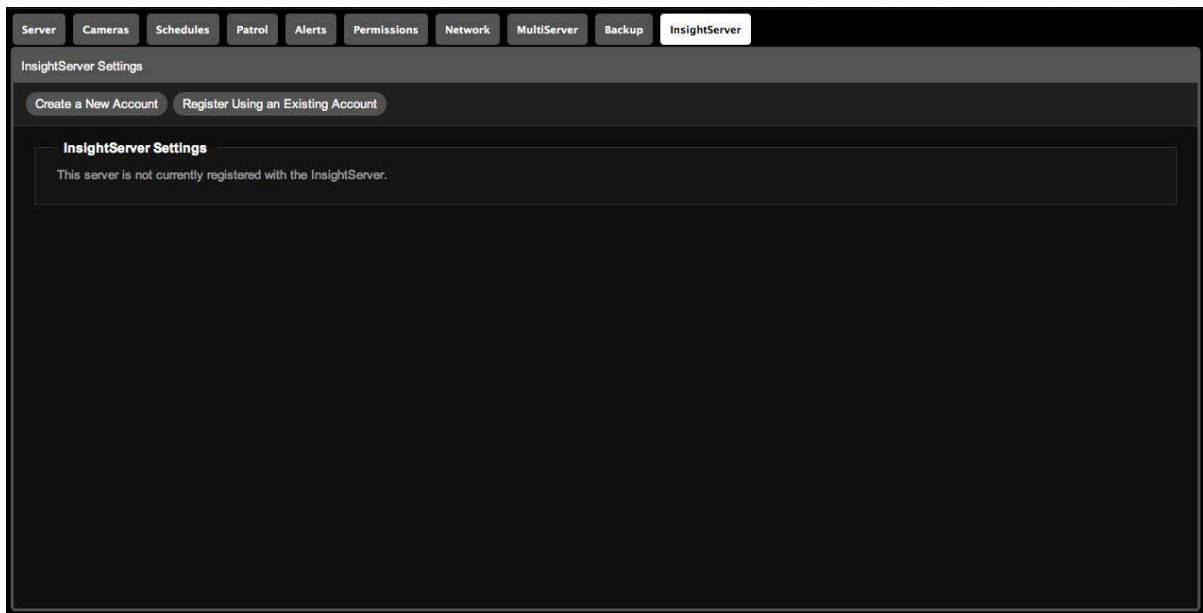
CONTROL IT

The TOOLBAR buttons at the top right of the page offer the basic functions of the SERVER. To learn more about these functions and how each of the SETTINGS functions work, please see the appropriate section in this manual.

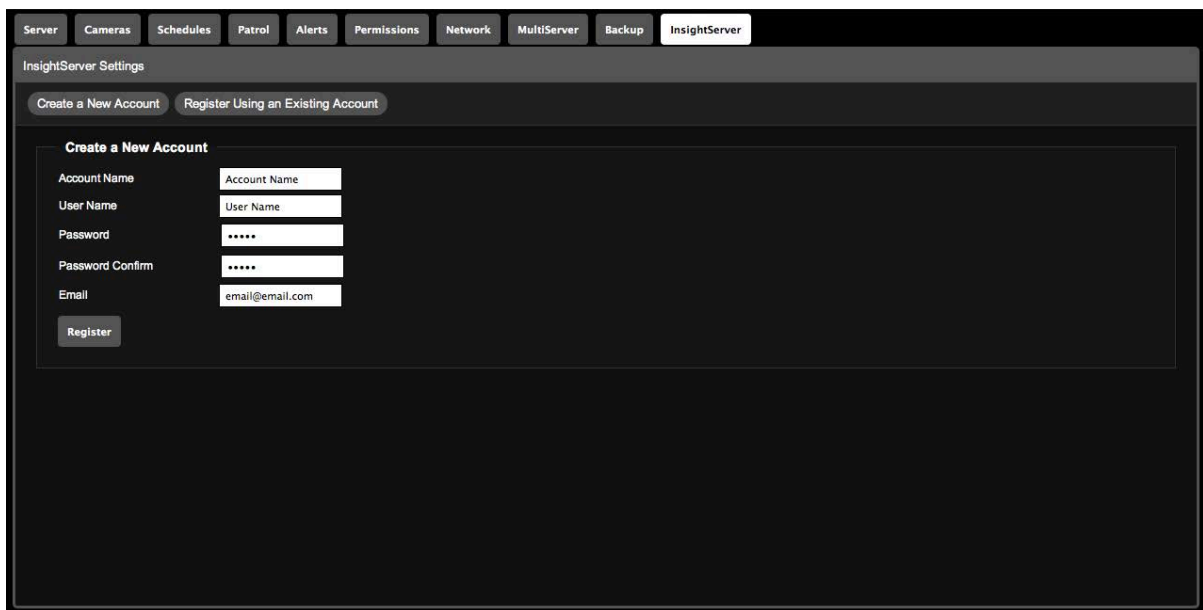


GO REMOTE

Cloudvue surveillance service makes remote viewing fast and easy. The service is free for a single user account. The first step is to register your SERVER with Cloudvue. From the SETTINGS page, click on Cloudvue, and then click on CREATE A NEW ACCOUNT.



Enter an ACCOUNT NAME (create one yourself), USERNAME (this will be used to login) and a PASSWORD as well as your email address and click SAVE. After you complete registration, you can go to WWW.CLOUDVUE.COM and login.



Cloudvue is designed for lower bandwidth devices and will play live video at a reduced size and frame rate.

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HARDWARE OVERVIEW

SMARTVUE S9Q SERVER



LOGIN

Connect an Ethernet cable to ETHERNET PORT #1 on the back of the SERVER and plug it into your local network. Plug in power using the included power supply to the 12V AC connector. Press the power switch on the front of the SERVER to turn it ON.



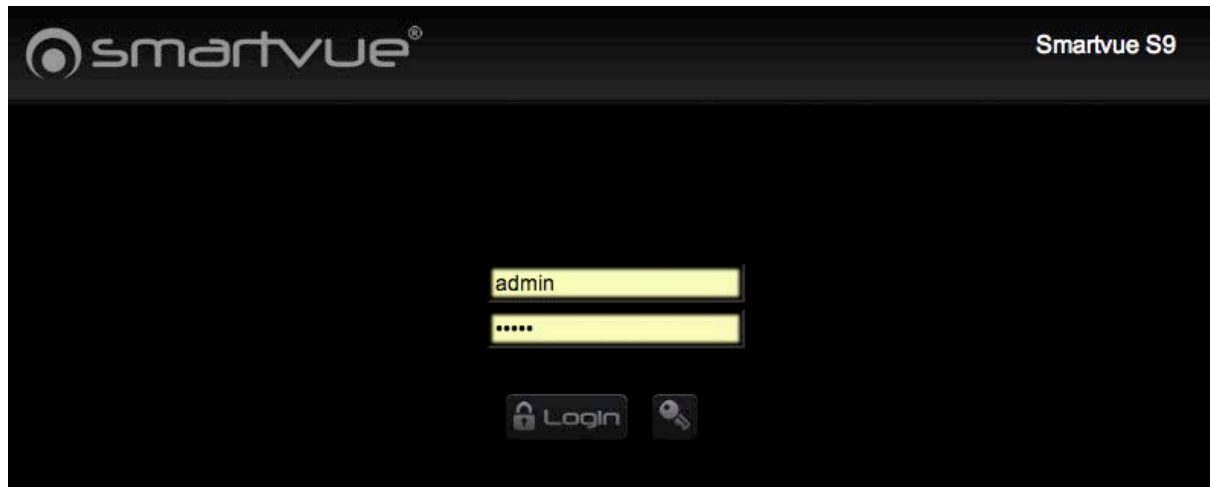
To find the IP address of the Smartvue S9 server you can use Bonjour, which is software that makes it easy for devices to find one another on a network.

In Internet Explorer, from the VIEW menu option, select BONJOUR. Bonjour will then display the IP address or a link to the Smartvue S9 server. If you do not have Bonjour, go to Apple.com then download and install BONJOUR SERVICES FOR WINDOWS.

If you are using an Apple computer, in Safari select BOOKMARKS, then SHOW ALL BOOKMARKS. Click BONJOUR and you will see the Smartvue S9 server in the list, click on it. If you are using any other browsers, access Bonjour or try using applications such as DNSSD for Firefox.

Optionally you can log into your router and see the list of attached devices to find the IP address for the Smartvue S9 server.

At any computer connected to this network, type this address into your web browser (Internet Explorer, Chrome, or Firefox on a Microsoft Windows PC or Safari, Chrome, or Firefox on an Apple Mac) and the LOGIN screen will appear. Enter the default name "admin" and password "admin" then click LOG IN.



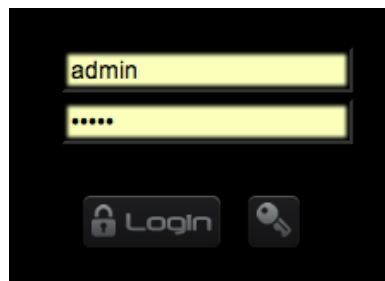
The default Username and Password are "admin" and "admin"

DIRECT WIRELESS ACCESS

To wirelessly access the Smartvue S9 server directly, select the SSID of "SmartvueS9" with no password. The address for the server is 192.168.40.1 and the SSID is hidden by default. You can change the SSID to a custom code for better security. See SETTINGS.

FORGOT PASSWORD

To recall a lost password, click on the FORGOT PASSWORD link (key icon) and enter your USERNAME. The password will be emailed to the email address in the user's profile.



TOOLBAR

The main controls for the SERVER are available as toolbar buttons in the upper right corner of every page. Each button offers specific functions.



LIVE VIEW

Opens the live video multiview page. See all of your cameras from here and create your own custom view layouts.

ARCHIVE

Opens the recorded video archive page. Search and playback recorded video from any camera.

PATROL

Starts a camera patrol, which displays selected cameras for set times in order continuously. Go to the SETTINGS page to set the PATROL settings.

PROFILE

Opens the current user's profile for editing.

SETTINGS

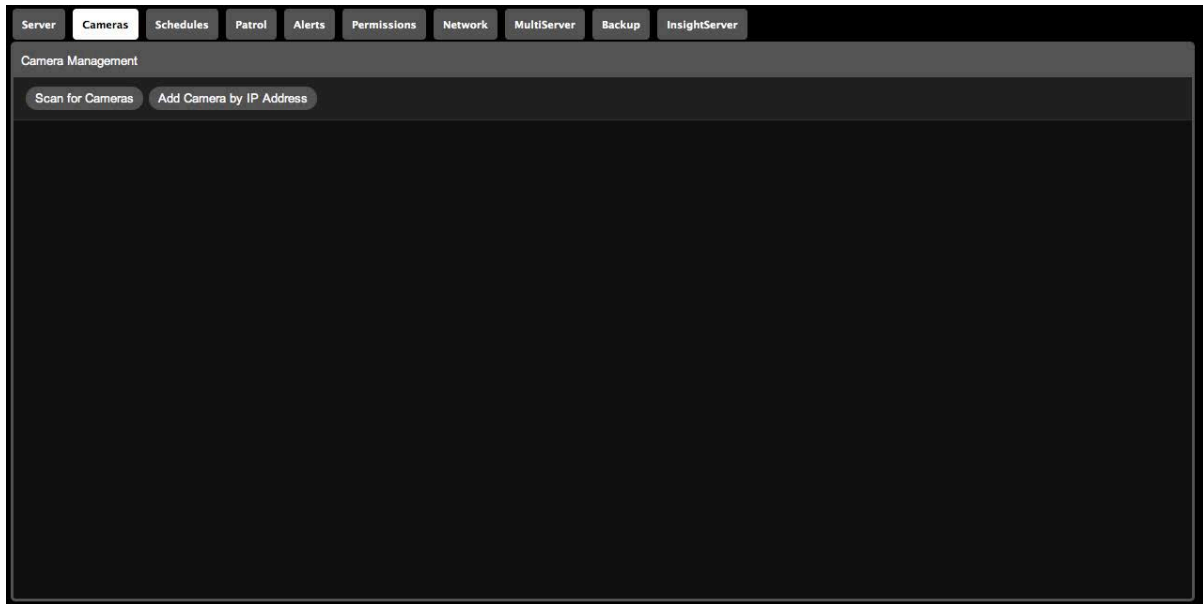
Opens the SETTINGS page for access to all of the different SERVER settings.

EXIT

Exits the application.

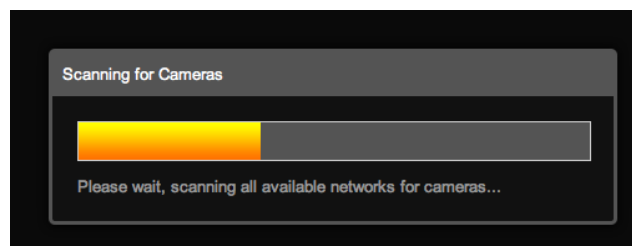
ADDING & REMOVING CAMERAS

Before you can view any cameras, you must add them to the SERVER. On the SETTINGS page, click on the CAMERAS, the MANAGE CAMERAS page will appear.

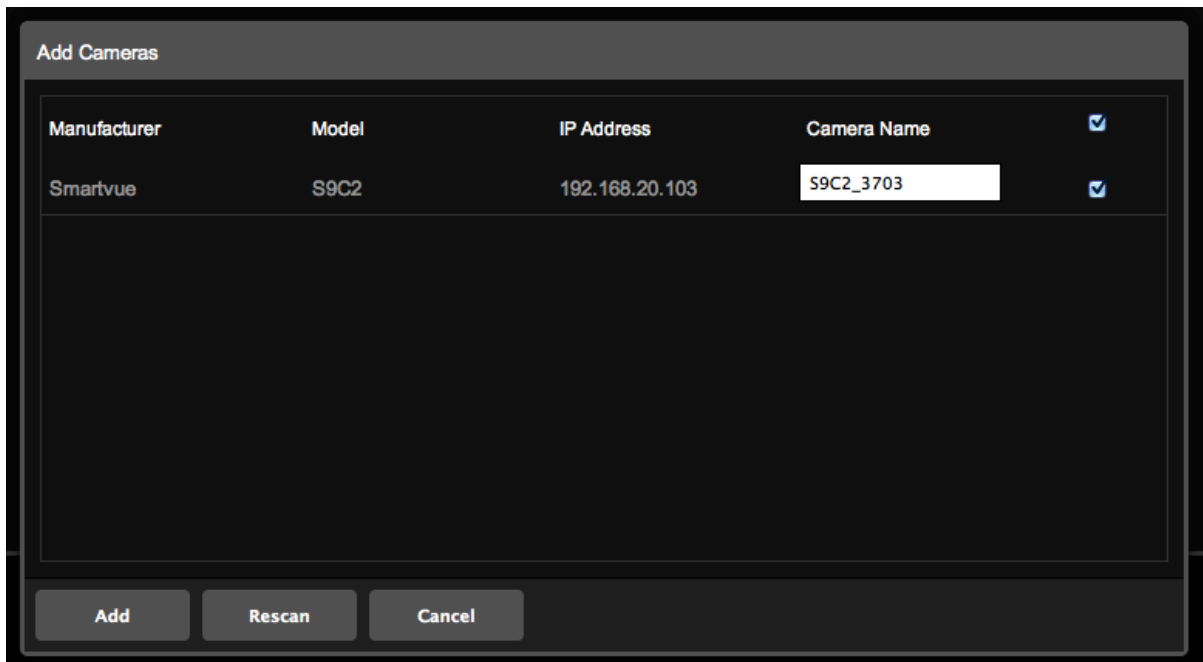


ADD CAMERAS

Click on the SCAN FOR CAMERAS button to add new cameras to your SERVER. The SERVER will automatically search for cameras. It will list all supported cameras.



Enter a name for each one of the cameras to be added to the SERVER and then click on the ADD button.



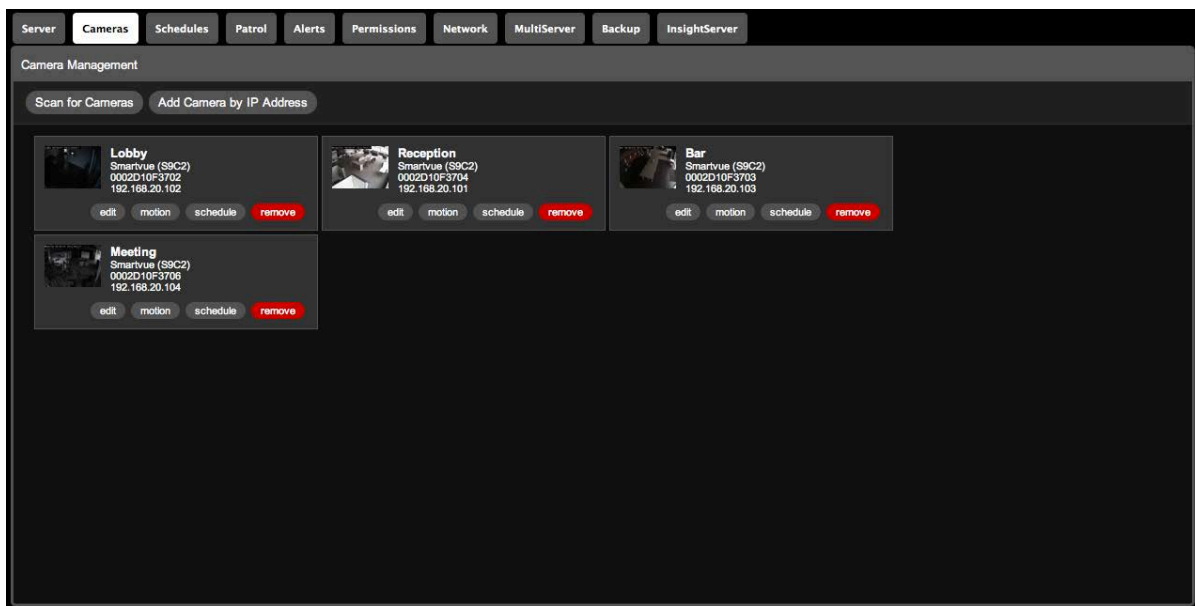
The SERVER will only find cameras connected to the same network(s) that the Smartvue SERVER is connected to or any wireless Smartvue cameras.

THIRD PARTY CAMERAS

Smartvue S9 Servers support a number of different third party cameras from different manufacturers, please see the SETTINGS>CAMERAS section of this manual for a list of supported cameras. New cameras are added regularly, please check www.smartvue.com for the most recent list of supported cameras.

REMOVE CAMERAS

To remove a camera, click on the red REMOVE button in the camera settings box.

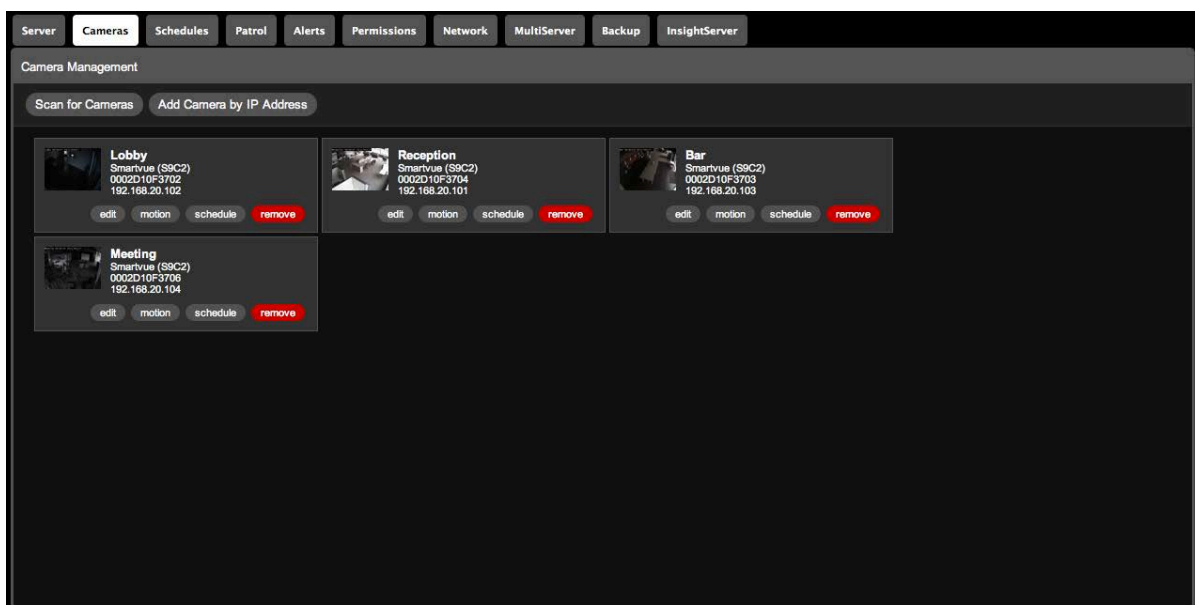


A dialog will appear to confirm removal of the camera. All recorded video associated with the camera will be deleted.

When you remove a camera from the SERVER, all video associated with that camera will be deleted. Consider video backup prior to deleting a camera. See BACKUP.

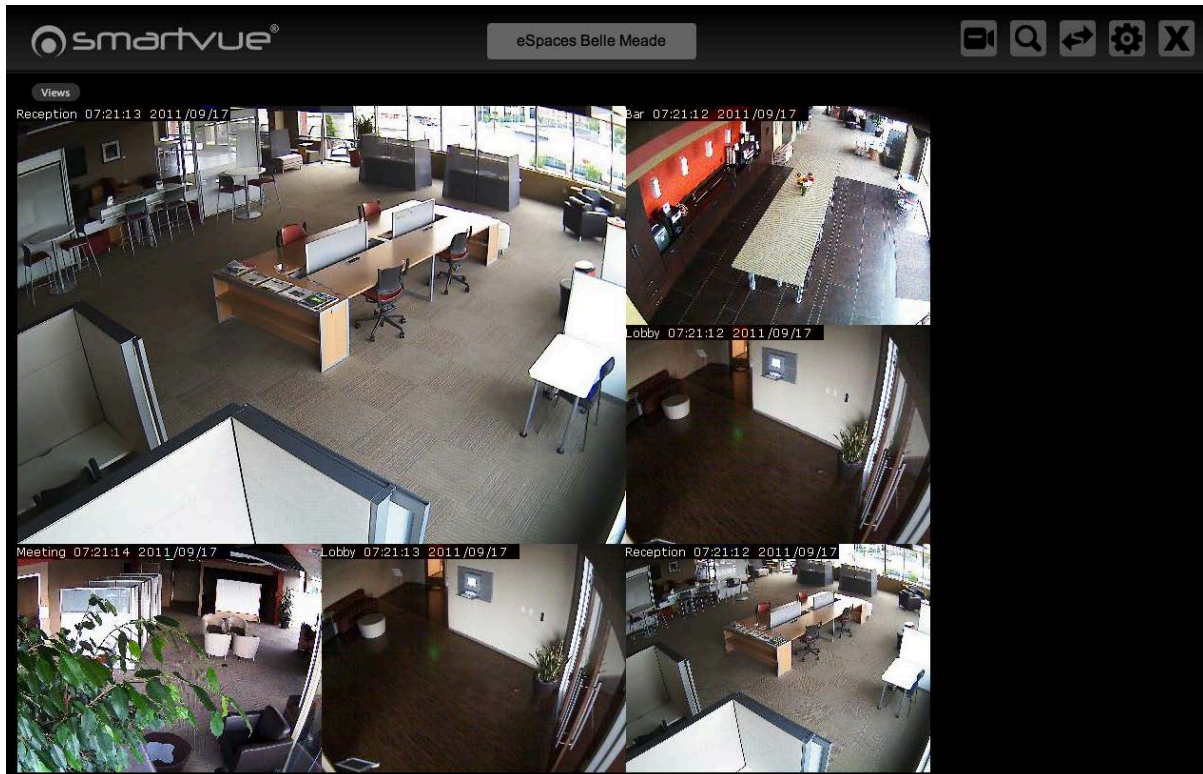
CHANGE CAMERA ORDER

To change the order of the cameras in the live preview list, simply drag and drop each camera to its desired location.

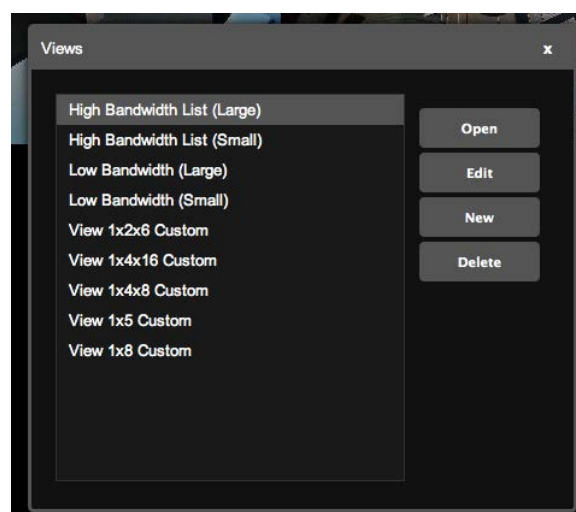


VIEWING LIVE VIDEO

LIVE VIDEO is the first page to be displayed when you log into a Smartvue SERVER. This page will display previews from each camera in your system. Click on any preview to see the live video from that camera.

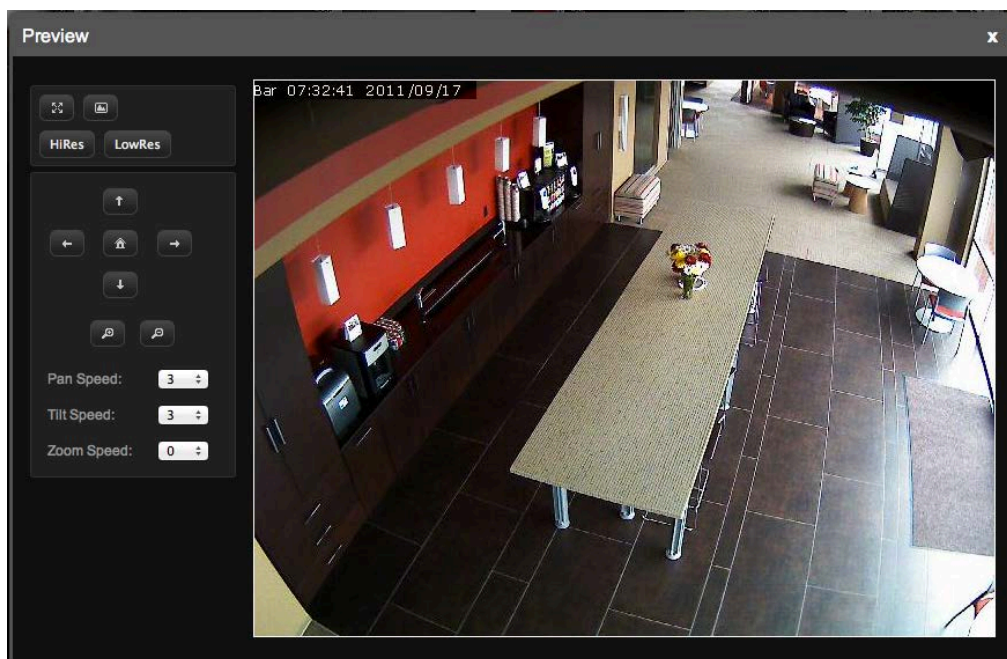


To change the view layout, click on the VIEWS button, then double-click on any view name (or click on the view name and then click on the OPEN).



LIVE VIDEO PLAY

To view live video, click on any preview and a live video playback screen will appear.



Click on the FULL SCREEN button to view the video full screen.

Click on the SNAPSHOT button to take a snapshot of the current view.

Click on the HIRES button to view the video in high-resolution mode (its native recording format). Click on the LOWRES button to go back to the low-resolution mode.

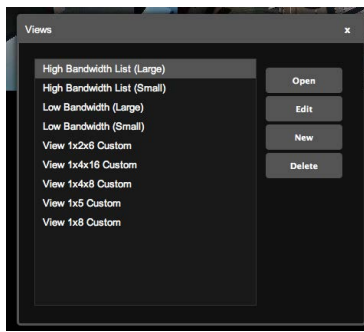
In HIRES (High Resolution) mode there will be latency (the video will lag by a few seconds). This is normal as Quicktime buffers the high-resolution video stream prior to playback.

If your camera offers PTZ (pan, zoom, and tilt) functions, the HOME, LEFT, RIGHT, UP, and DOWN buttons will be enabled. You can also control the speed of the PTZ controls.

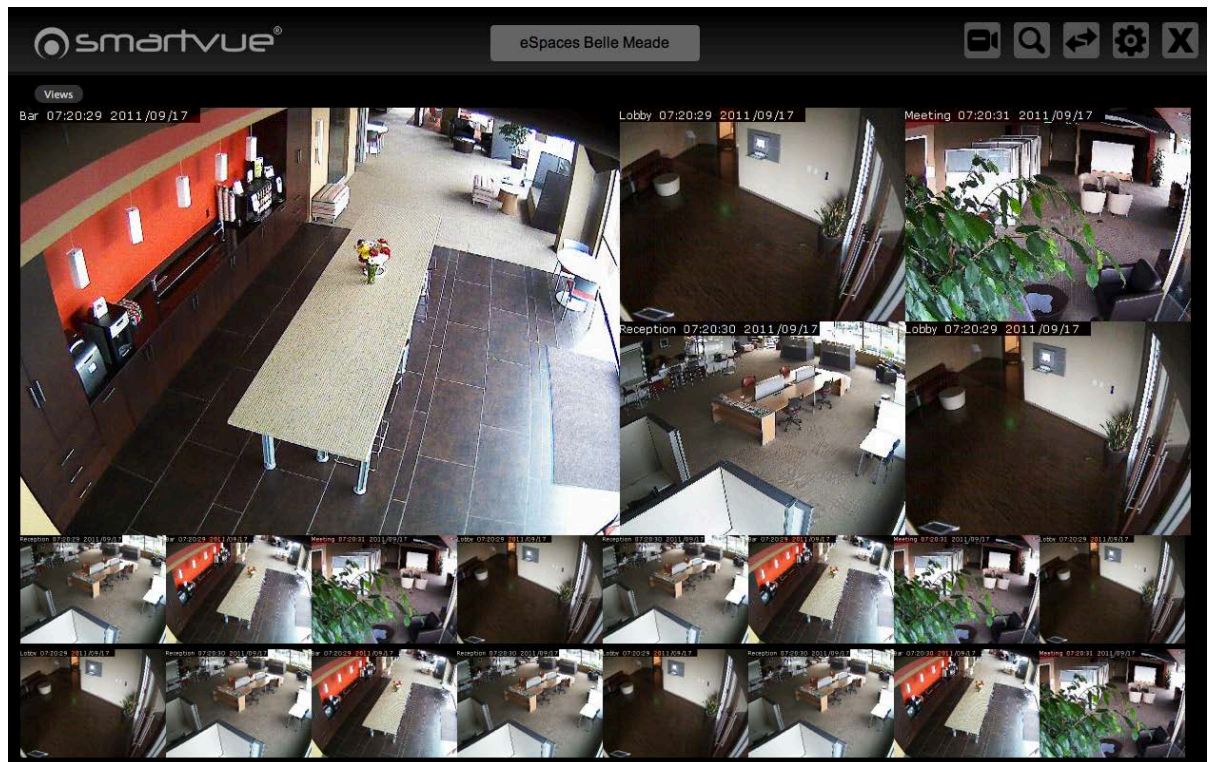
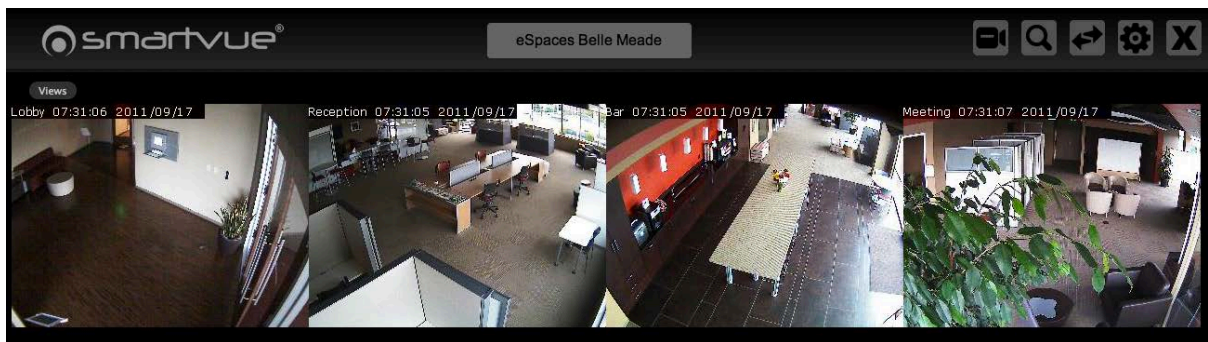
To close this playback, click on the X in the upper right corner.

VIEWS

Smartvue S9 offers many ways to preview your cameras and the ability to edit views and create custom views. In the live view window, click on VIEWS to see a list of available views. To change the view, double-click on any view name or click on a view name and then click on OPEN.



The LIST views simply display a list of all the cameras in order (the order can be changed in the CAMERA MANAGEMENT settings). High-Bandwidth List means that the preview uses a higher frame rate motion video (VIDEO MODE) and Low-Bandwidth List means that the preview uses images that are updated one every few seconds (IMAGE MODE). The other custom views are a combination of layouts of small and large previews.



EDIT VIEWS

To edit a view, click on VIEWS, click on the view to edit, and then click on EDIT. You will see the view layout.



Click on any image location (where it says SELECT CAMERA), a list of cameras will appear. Select the camera you want to preview in that location.

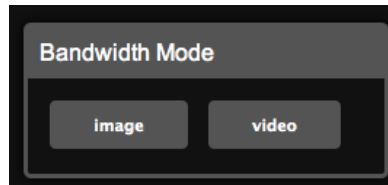


If you click on RESET, the entire layout will be reset.

If you click on AUTO, the cameras will automatically be placed into the layout in order (to change the order, go to SETTINGS>CAMERAS and drag the cameras into the order you prefer).

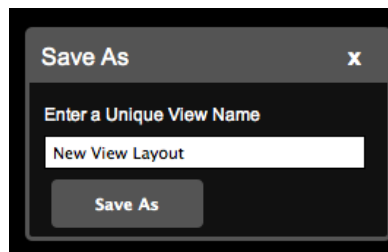
If you click on RANDOM, the cameras will be automatically placed into the layout in random order.

Once you select the camera, the BANDWIDTH MODE selection will appear. Select VIDEO for higher frame-rate video preview (recommended) or IMAGE for images that will appear one every few seconds. IMAGE mode is perfect if you have a slow connection to the server.



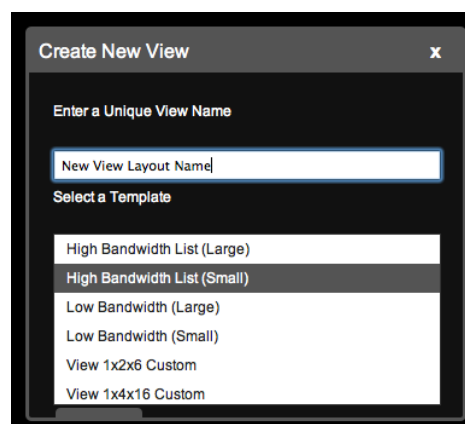
Click on SAVE CHANGES to save changes to the view layout.

Click on SAVE AS NEW to save the layout as a new layout. You will be prompted to name the new view layout and it will appear in the VIEWS list.



CREATE CUSTOM VIEWS

To create a new view, click on VIEWS, and then click on NEW. Enter a view name, pick a template, then click on SAVE.





Click on any image location (where it says SELECT CAMERA), a list of cameras will appear. Select the camera you want to preview in that location.

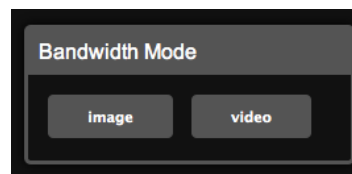


If you click on RESET, the entire layout will be reset.

If you click on AUTO, the cameras will automatically be placed into the layout in order (to change the order, go to SETTINGS>CAMERAS and drag the cameras into the order you prefer).

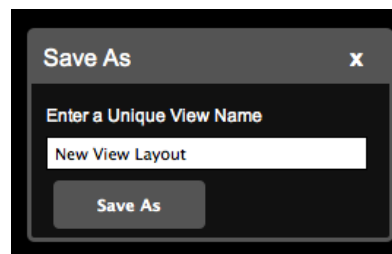
If you click on RANDOM, the cameras will be automatically placed into the layout in random order.

Once you select the camera, the BANDWIDTH MODE selection will appear. Select VIDEO for higher frame-rate video preview (recommended) or IMAGE for images that will appear one every few seconds. IMAGE mode is perfect if you have a slow connection to the server.



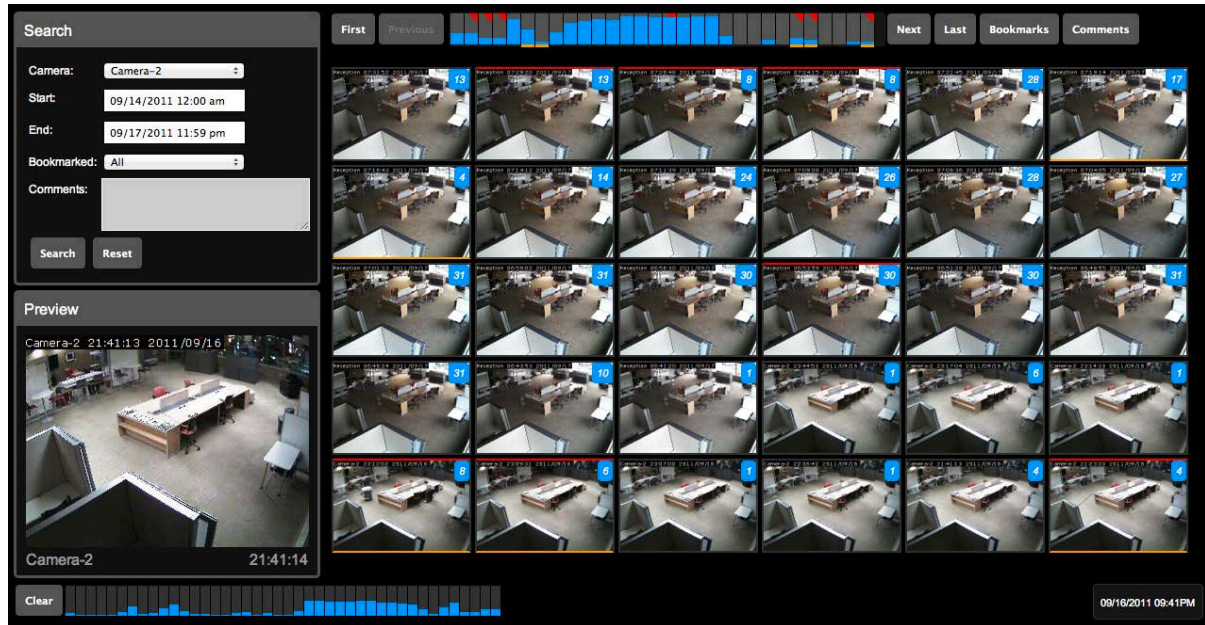
Click on SAVE CHANGES to save changes to the view layout.

Click on SAVE AS NEW to save the layout as a new layout. You will be prompted to name the new view layout and it will appear in the VIEWS list.



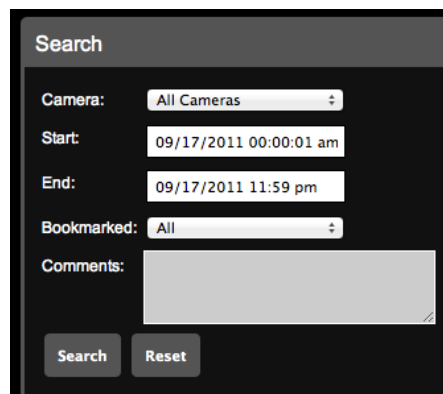
ARCHIVE (RECORDED VIDEO)

ARCHIVE enables users to search through and play recorded videos. It also offers features to make comments, place bookmarks, download, and delete video clips. To open the archive, click on the ARCHIVE button in the toolbar. Click on the ARCHIVE button to begin your search.



SEARCH RECORDED VIDEO

When you open the ARCHIVE page, the most recent video recordings will be displayed. To search for specific recording, there are a number of search options that can be used.



CAMERA

CAMERA enables searching by a particular camera. By default, all cameras are searched.

START DATE & TIME

Select a date and time to start the search at.

END DATE & TIME

Select the end date and time for the search.

BOOKMARKED

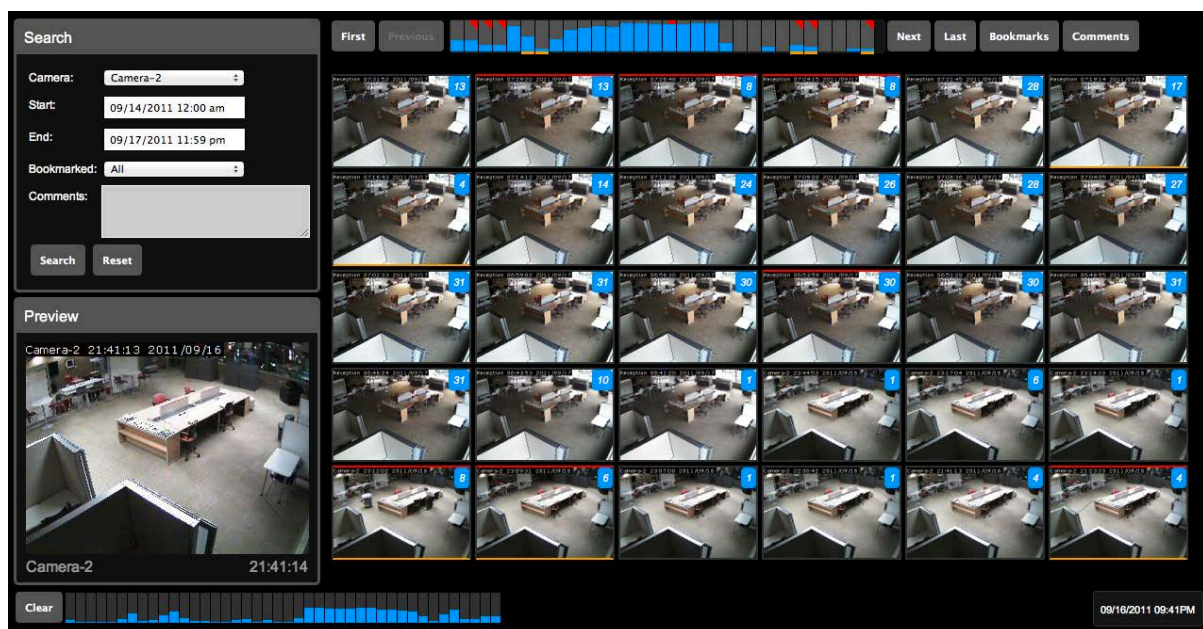
Select YES to search only for bookmarked videos.

COMMENTS

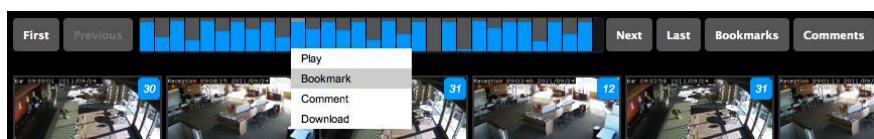
Enter text into this box to search for key words from any video with comments.

SEARCH

Click on SEARCH to begin the search. The results will be displayed as thumbnails with the starting time displayed at the bottom of each clip. Hover over any clip to see a larger preview image in the lower left. Click on the NEXT, LAST, PREVIOUS and FIRST page buttons to page through the search list. Click on BOOKMARKS to view all clips with bookmarks in your search. Click on COMMENTS to view all clips with comments in your search. Click on any clip to play it.



A bar histogram across the top will display a block for every clip displayed below. The blue in the bar will show how much motion was detected in each clip. A red corner indicates a BOOKMARK and a yellow bottom indicates a COMMENT. If you hover over any clip in the bar, a preview image will appear in the lower left corner and you will have the option to PLAY the clip, BOOKMARK the clip, COMMENT on the clip, or DOWNLOAD the clip.



A bar across the bottom will have a small block for a segment of the entire search (for example you can see all the motion in a 48 hour period). The blue in the bar will show how

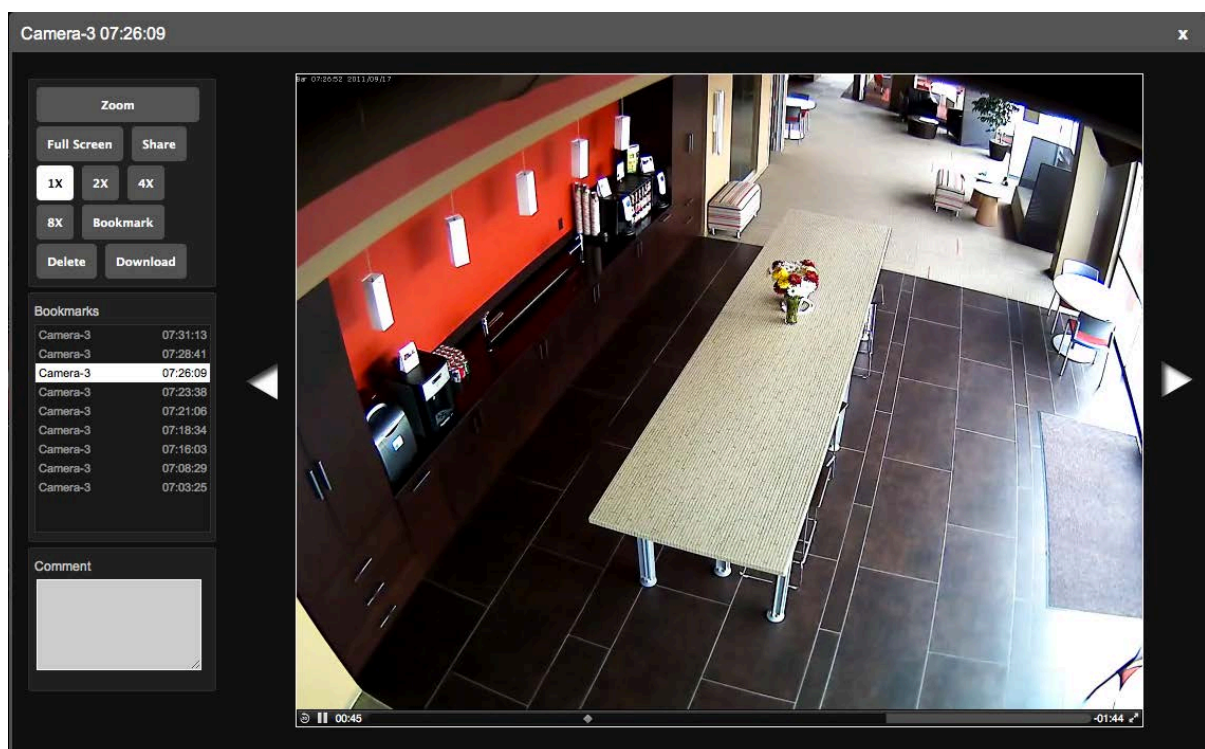
much motion was detected in each group of clips. As you hover over the bar, the exact date and time of that group of clips will appear to the far right.

To go to any block of videos, click on that block and all of the videos in that group will appear above. Click on CLEAR to clear the specific block view and go back to the original search.



RECORDED VIDEO PLAYBACK

To play recorded video, click on any thumbnail image from the recorded video search page. The video playback dialog will appear and the video clip will automatically start to play. You can control the playback to scrub through the video or pause it using the controls under the video clip.



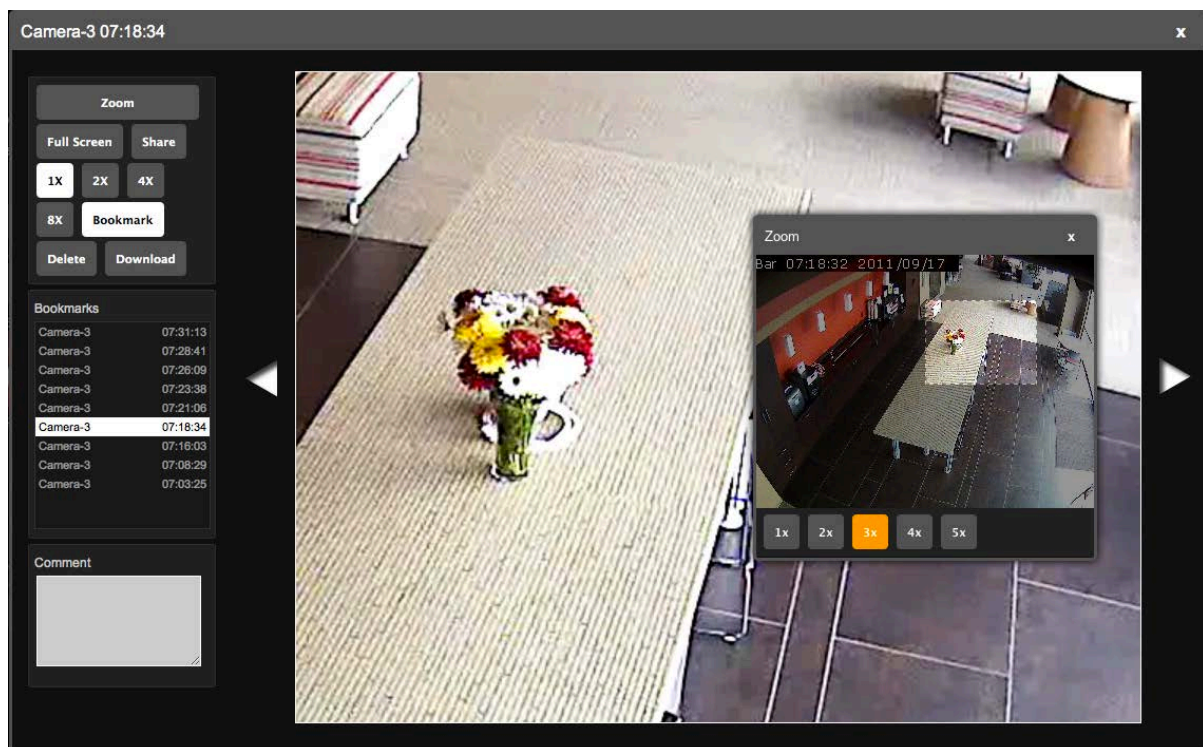
If there is a comment on this video, the comment will be displayed in the lower left corner. A list of all bookmarked videos will also appear in a list on the left, click on any clip in the list to view it.

To go to the next clip in the search criteria, click on the large white arrow on the screen pointing to the right. To go to the previous clip in the search, click on the large white arrow pointing left.

ZOOM

Click on the ZOOM button to zoom in on a part of the video. The ZOOM BOX will appear. Select the area of the video you would like to zoom in on in the ZOOM BOX and then

select the amount of zoom you would like (1X to 5X). Note that as you zoom in on recorded video, you will have less and less detail.



COMMENT

Enter a comment for the clip. This text comment is searchable.

BOOKMARK

Click on the BOOKMARK button to place a bookmark, this clip will automatically appear in the list of bookmarks below. Bookmarks are searchable.

2X, 4X, 8X PLAYBACK SPEED

Click on any PLAYBACK SPEED option button to change the playback speed of the video.

DOWNLOAD

Click on the DOWNLOAD button to download this video clip to your desktop.

DELETE

Click on the DELETE button to delete this video clip.

FULL SCREEN

Click on the FULL SCREEN button to play the video full screen. Note that the aspect ratio of the video may not match your screen and the video might appear stretched or squished. You can also click on the FULL SCREEN button in the Quicktime player control to view the video full screen while maintaining the proper aspect ratio.

SCRUBBER

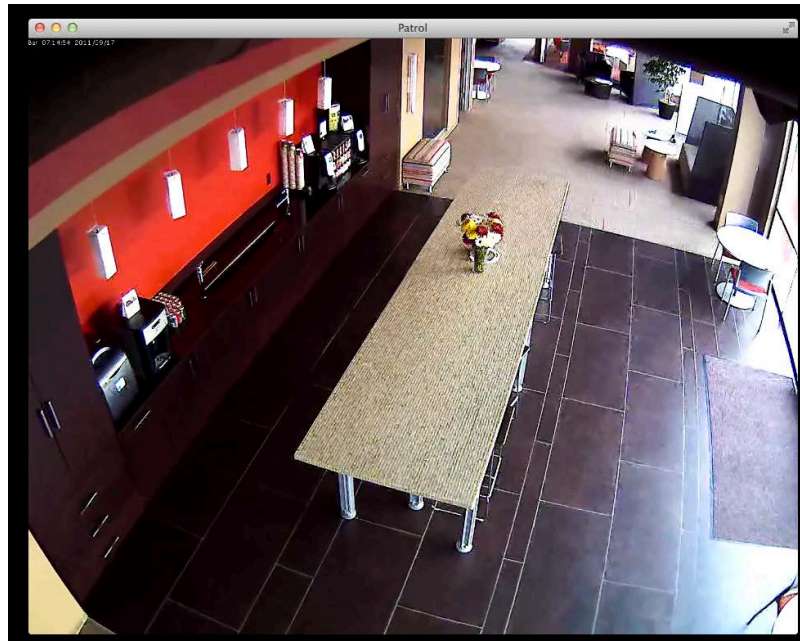
Use the built in QuickTime controls such as play and pause as well as the scrubber to drag to any point in the video to play back.

SHARE

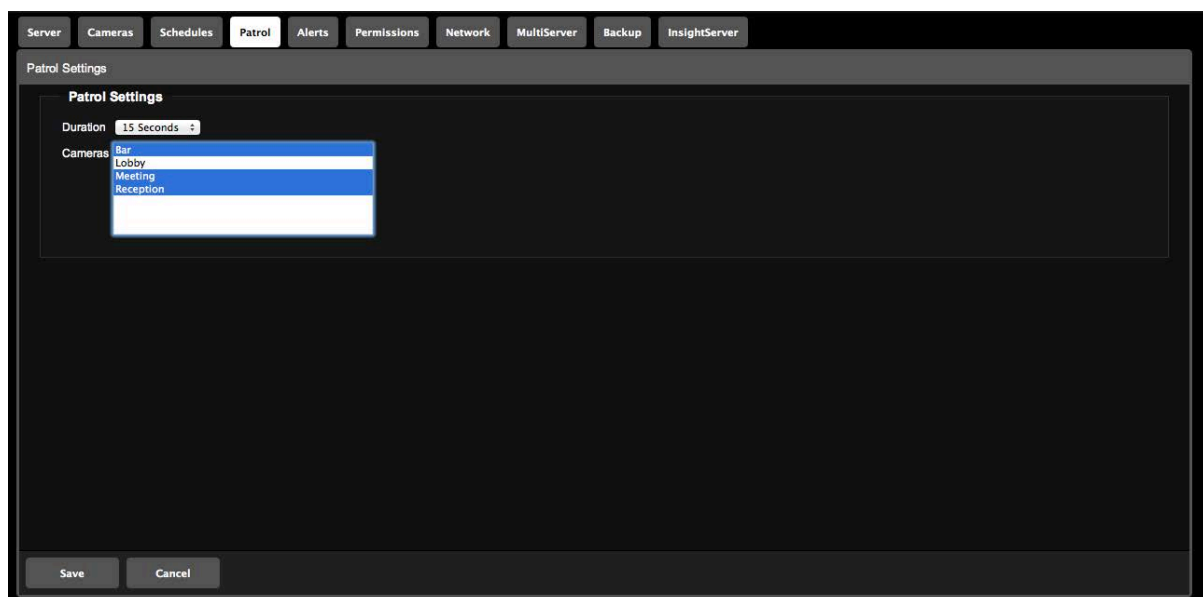
To easily share this clip with other people, click on the SHARE button. This will ask you for a list of emails to share the clip with and then upload the clip to the Cloudvue Surveillance Cloud. This feature requires a paid Cloudvue account to use. Contact Smartvue at www.smartvue.com for more information.

PATROL

A PATROL (similar to a security guard walking a beat) is an automated display of video from selected cameras, for a specified time, which loops continuously. To start the patrol, click on the PATROL button in the toolbar. You can also run the PATROL full screen by clicking on the FULL SCREEN button.



Patrol settings must be made before a patrol will run properly. Click on SETTINGS, and then click on PATROL. The PATROL SETTINGS page will be displayed. Select all or just some of the cameras you want in the patrol, then select the time to display each camera.



CAMERAS

Select the cameras to display in the tour.

DURATION

Select the amount of time that each camera will be displayed before showing the next camera in the queue.

SAVE

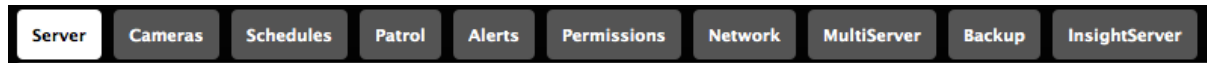
Click on **SAVE** to save the **PATROL** settings.

Patrol settings must be made before a **PATROL** can run.

To start the patrol, click on the **PATROL** button in the main toolbar.

SETTINGS AND PREFERENCES

The SERVER settings control the all the settings and preferences for the server. Click on the SETTINGS button (gear icon) in the mail toolbar to access the SETTINGS page.



There are a number of options in the SETTINGS page including SERVER (general system settings), CAMERAS (add, remove, motion detection, and camera management), SCHEDULES (add, remove, and edit recording schedules), PATROL (patrol settings), ALERTS (manage alerts such as motion detection, backup, and camera disconnection), PERMISSIONS (users and permission management), NETWORK (wireless and wired network settings), MULTISERVER (manage multiple servers from a single login), BACKUP (backup video to USB or NAS), and Cloudvue (manage remote access).

SERVER SETTINGS

Click on SERVER to open the SERVER SETTINGS page.

The screenshot displays the 'Server Settings' interface. At the top, a navigation bar contains tabs for 'Server', 'Cameras', 'Schedules', 'Patrol', 'Alerts', 'Permissions', 'Network', 'MultiServer', 'Backup', and 'InsightServer'. The 'Server' tab is selected. Below the navigation bar, the 'Server Settings' page is organized into several panels:

- General Settings:** Includes fields for 'Name' (e5spaces Belle Meade), 'Description' (Smartvue S9 Video Surveillance Server), and 'Clip Length (Sec)' (150). A note states: 'Setting over 300 seconds may cause instability. Please reboot.'
- Time Information:** Includes a 'Time Zone' dropdown (GMT-06:00 Central Time (US & Canada)), a checked 'Automatic Date & Time' option, and fields for 'Date' (09/17/2011) and 'Time' (06:37:32 AM).
- SMTP Settings:** Includes a 'Select SMTP Server' dropdown (Smartvue Default) and input fields for 'SMTP Host', 'SMTP Port', 'SMTP Username', and 'SMTP Password'.
- Storage:** Displays 'Hard Drive Capacity' (913GB), 'Total Used' (822GB), and 'Total Available' (45GB). A 'Delete Videos' button is present with a warning: 'Selecting this option will permanently delete all video files.'
- Update:** Shows 'Available Version' (9.3.7) and 'Software Version' (9.3.7) with an 'Update' button.
- Licensing:** Shows 'Camera License Count' (10).

At the bottom of the settings panel, there are three buttons: 'Save', 'Cancel', and 'Reboot Server'.

NAME AND DESCRIPTION

Enter the name and description of this server.

CLIP LENGTH

Set the default video recording clip length in settings. The default is 150 seconds (2.5 minutes). Note that any setting over 300 seconds may cause instability. Please reboot your server after changing this setting.

TIME INFORMATION

Set the time zone then select AUTOMATIC DATE AND TIME. To manually change the date and time, deselect this option, then enter the customer date and time

SMTP SETTINGS

By default the Smartvue server uses its own SMTP mail server to send out email and test message alerts. If you would like to use your own mail server, select CUSTOM SETTINGS from the drop down and enter your own mail settings.

STORAGE

HARD DRIVE CAPACITY displays the total capacity of the storage drive minus the server software. TOTAL USED displays the used disk space. TOTAL AVAILABLE displays the total disk space available for storage of video. By default the Smartvue server will automatically overwrite older videos with new ones when the system reaches its capacity.

DELETE VIDEOS

Clicking this button will permanently delete all videos on this system.

UPDATE

SOFTWARE VERSION displays the current version of the Smartvue S9 OS (operating system). AVAILABLE VERSION displays the currently available software from Smartvue. If a new version is available, the UPDATE button will appear and allow you to upgrade your system to the latest software.

LICENSING

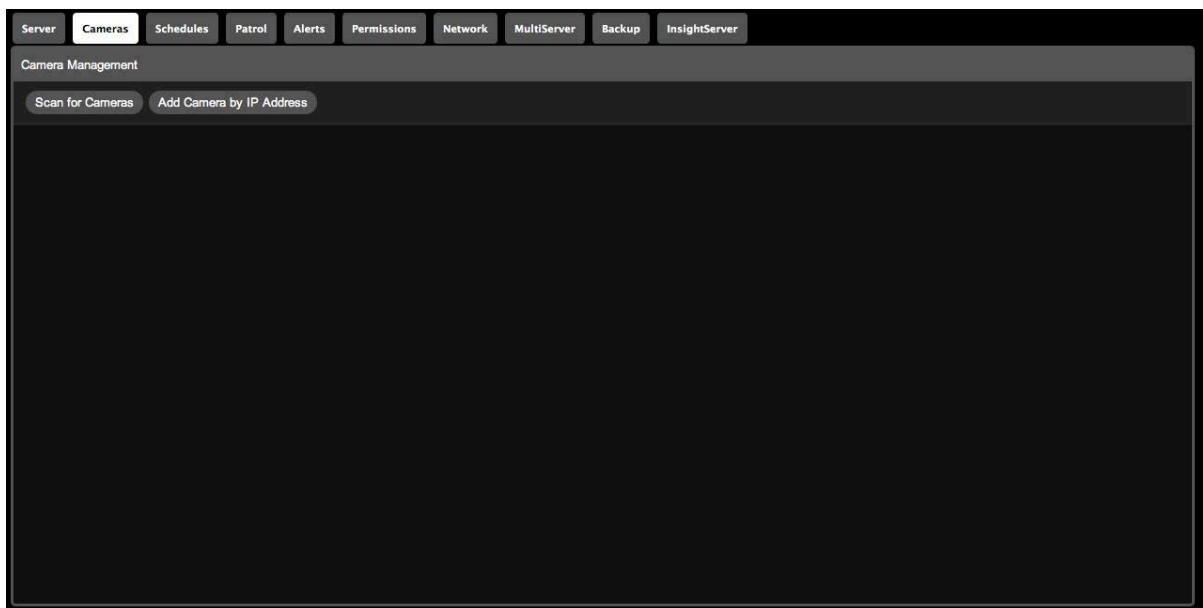
CAMERA LICENSE COUNT displays the total number of cameras that can be added to the server. To purchase additional licenses, please contact your authorized Smartvue Partner.

REBOOT SERVER

Pressing the REBOOT SERVER button will force a reboot of the server.

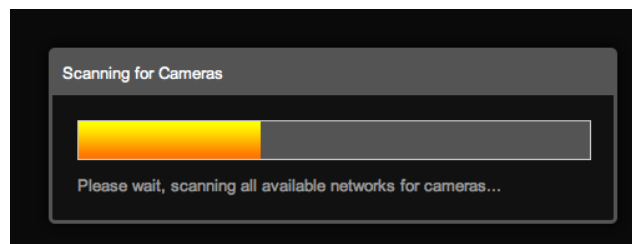
CAMERA MANAGEMENT

In SETTINGS, click on CAMERAS to add, remove, and manage cameras.

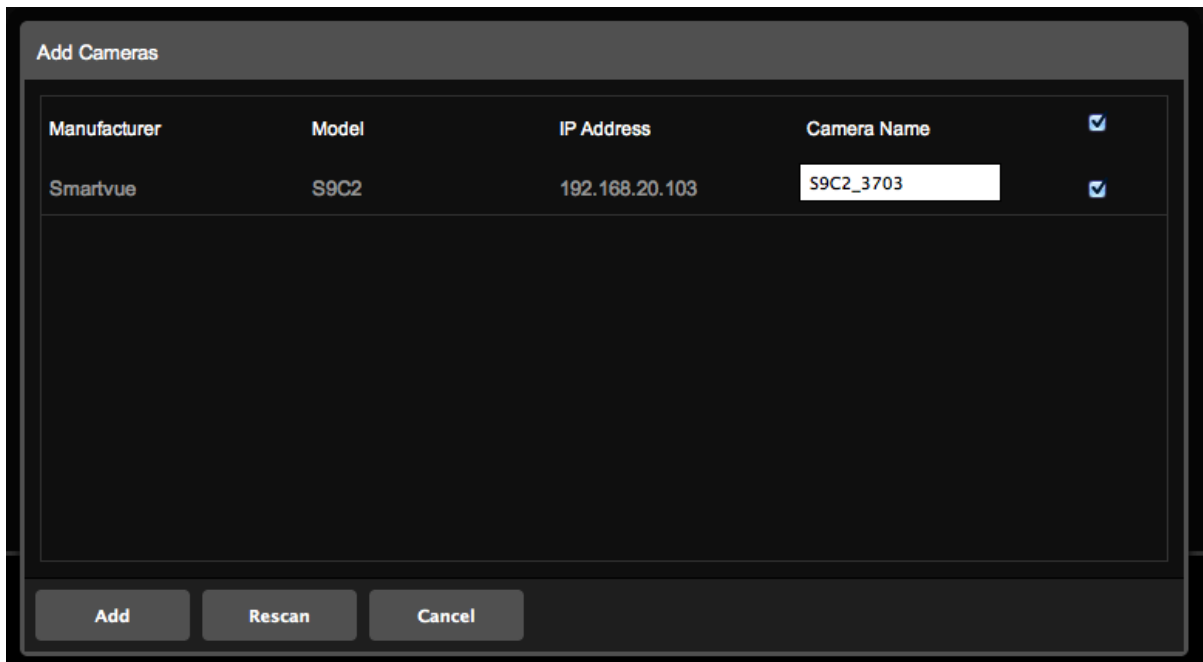


ADD CAMERAS

Click on the SCAN FOR CAMERAS button to add new cameras to your SERVER. The SERVER will automatically search for cameras. It will list all supported cameras.



Select each camera you would like to add, enter a name for each, then click on the ADD button. Click on RESCAN to rescan your networks for cameras.



The SERVER will only find cameras connected to the same network(s) that the Smartvue SERVER is connected to or any wireless Smartvue cameras.

SUPPORTED CAMERAS

Smartvue S9 Servers support the following cameras. New cameras are added regularly, please check www.smartvue.com for the most recent list of supported cameras.

Don't See a Camera on the List?

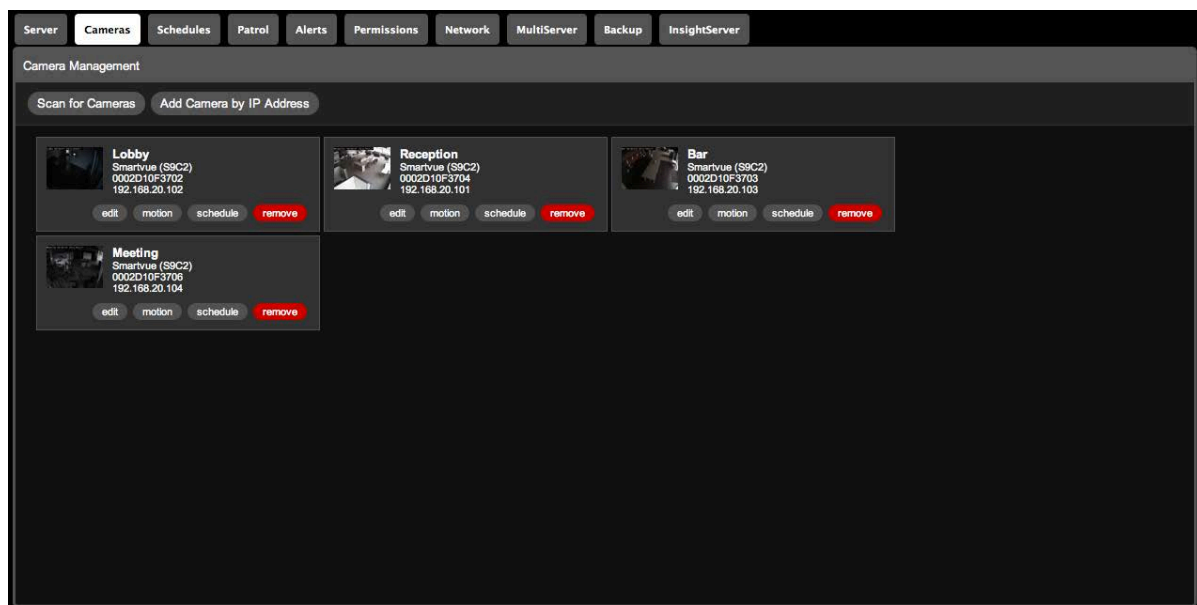
In the Camera Management screen, click on ADD CAMERA BY IP ADDRESS. Type in the IP address of the camera, and then select the closest model camera from the same manufacturer in the drop down list (for example, select the Axis 5512 to support the Axis 5532).

Submit a Camera Request

Email the Camera Manufacturer Name and the Model Number to support@smartvue.com or call (888) 754-4543 and we will get it on our list.

REMOVE CAMERAS

To remove a camera, click on the red REMOVE button in the camera settings box.

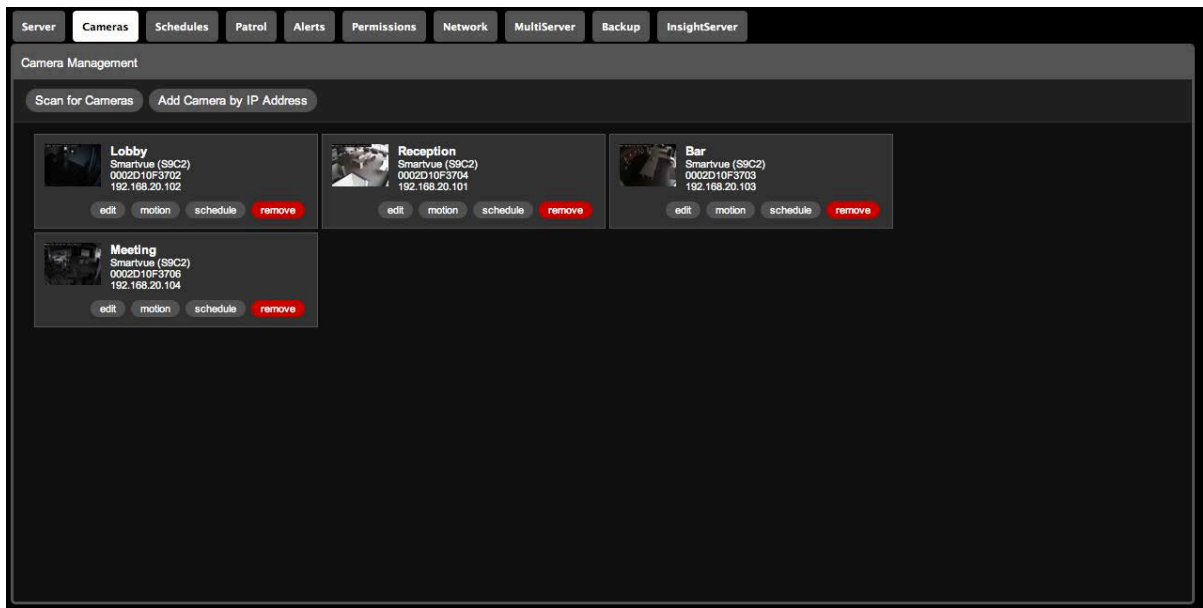


A dialog will appear to confirm removal of the camera. All recorded video associated with the camera will be deleted.

When you remove a camera from the SERVER, all video associated with that camera will be deleted. Consider video backup prior to deleting a camera. See BACKUP.

CHANGE CAMERA ORDER

To change the order of the cameras in the live preview list, simply drag and drop each camera to its desired location.



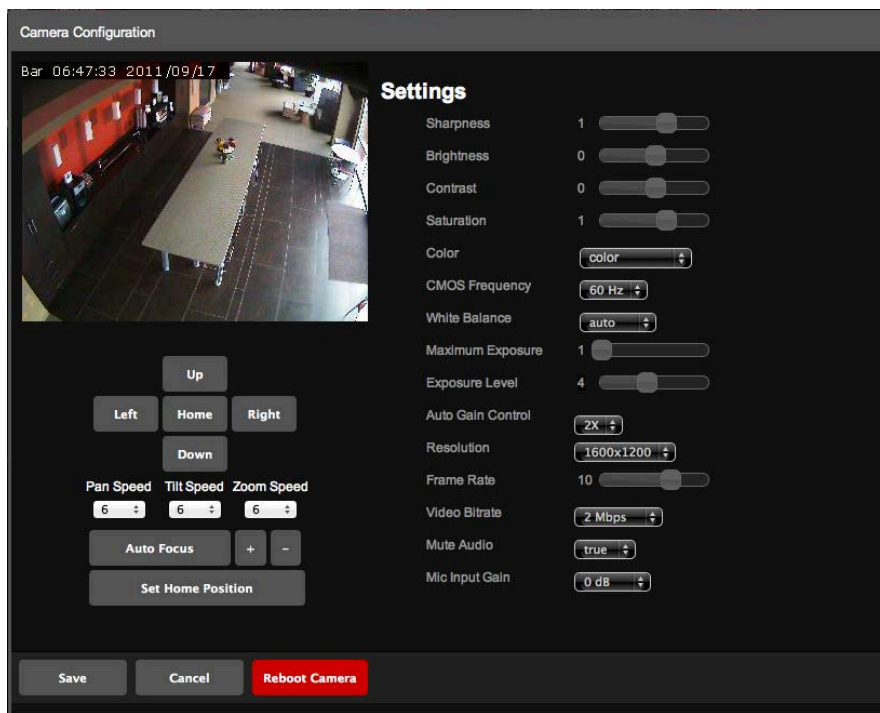
CAMERA IP ADDRESS

The camera's IP address will be displayed under the camera name. Note that the IP address might be for a wireless camera on the server and you may not be able to access that address directly from your network.

EDIT

To edit camera settings, click on the EDIT button of the camera you want to edit. The camera settings dialog will appear. A preview of the video will appear in the upper left corner.

Note that camera edit settings will vary from camera model to camera model and manufacturer-to-manufacturer.



PTZ Home Position (Pan, Tilt, and zoom)

The home position is the default position of a PATZ camera. Smartvue will reset the position of any PTZ camera back to HOME after a few minutes of not being used. To set the HOME POSITION, use the UP, DOWN, LEFT, and RIGHT buttons to put the camera in the position you like, then click on the SET HOME POSITION button.

PTZ Speed

To change the distance, which the camera moves when you click on the UP, DOWN, LEFT, and RIGHT buttons, change the drop down setting here. The larger the number, the further the camera moves when clicked.

Auto Focus

For cameras that support remote AUTO and MANUAL focus, click on the AUTO FOCUS or the + or – buttons to change the focus.

Reboot Camera

To reboot the camera, click on the REBOOT CAMERA button.

Camera Name

Enter a new camera name here and click on the cursor icon to save the new name.

Sharpness

Adjust the sharpness of the video image.

Brightness

Adjusts the brightness of the video.

Contrast

Adjusts the video contrast between light and dark.

Saturation

Adjust the color saturation of the video image.

Color

Select color or black and white mode. The default is COLOR.

CMOS Frequency

Adjust the frequency of the sensor to match with lighting. If you notice flicker in your video, please adjust this frequency. The default is 60Hz.

White Balance

White balance is a color adjustment and controls the ratio of blue light to red light. Adjust to AUTO or MANUAL. The default is AUTO.

Maximum Exposure

Select a proper maximum exposure time according to the light source of the surroundings. The number is the fraction of a second (1=1/1 second, 30=1/30th of a second). Shorter exposure times result in less light coming to the sensor. The default is 30.

Exposure Level

Manually set the Exposure level, which ranges from 1 to 8 (dark to bright). 1 is the default.

Auto Gain Control AGC

AGC works to improve the quality of the video when light conditions are poor. 4X is the default.

Resolution

Sets the resolution of the video from that camera from 176x144 up to 1600x1200. The default is 1600x1200.

Frame Rate

The default frame rate is 15 frames per second (the camera will capture 15 images every second). For certain resolutions the camera will operate up to 30 frames per second. The lowest frame rate is one frame per second. The default is 15fps.

Video Bitrate

This is the rate at which the video is compressed and recorded at. The bit rate range is 64-4,608 kbps (kilobits per second). The default is 2mbps (2 megabits per second). Reducing bit rate reduces the storage requirements of the video but also reduces the quality. For higher quality at reduced bitrates, consider also reducing the frame rate.

Mute Audio

Enables audio recording in the camera. Set to FALSE to enable audio recording.

Note that listening to live audio or recording audio from a camera may be illegal in your area. Please consult with the local authorities.

Mic Input Gain

Enables a boost to the sensitivity of the microphone. The default is 0db.

Audio Bitrate

This controls the amount of storage for the video recording. The higher the number, the better the video quality. The default is 64Kbps.

Flip

Flips the video vertically to enable a camera to be placed on its bottom instead of mounted upside down on a ceiling which is the default.

Mirror

Flip the video horizontally.

Camera Name

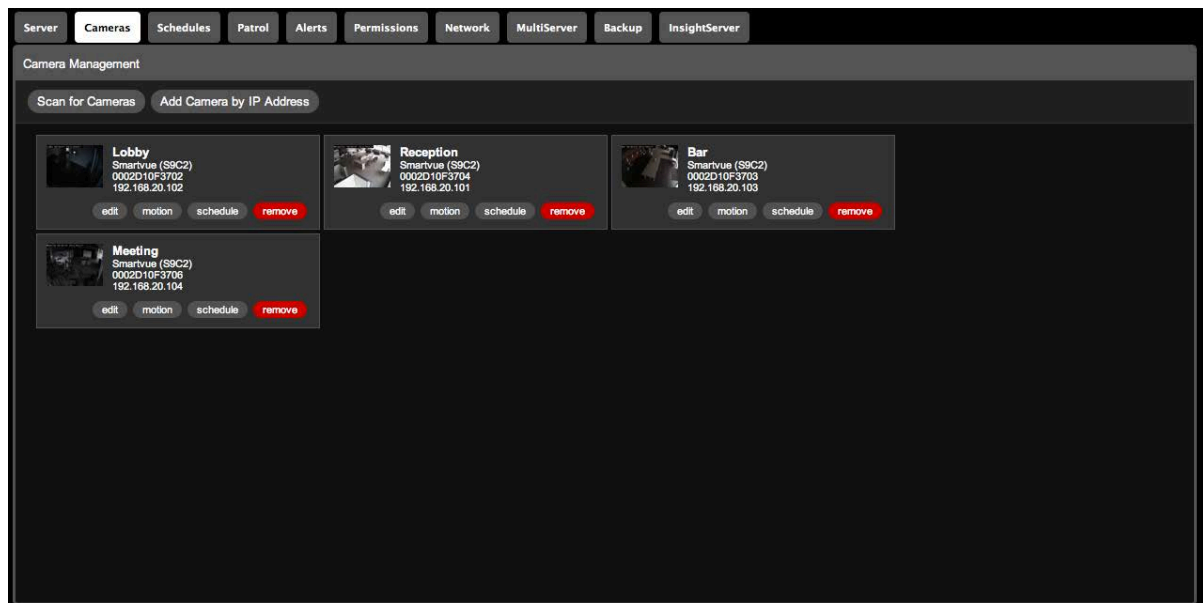
The CAMERA NAME is the display name of the camera.

Enable Timestamp

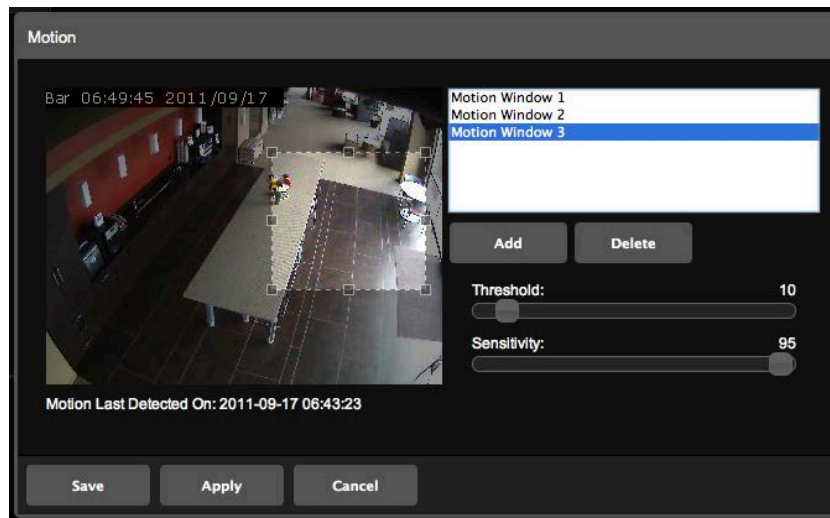
Enables or Disables the camera name, date, and time stamp.

MOTION DETECTION

In the cameras list, click on the MOTION button associated with the camera you want to set motion for.



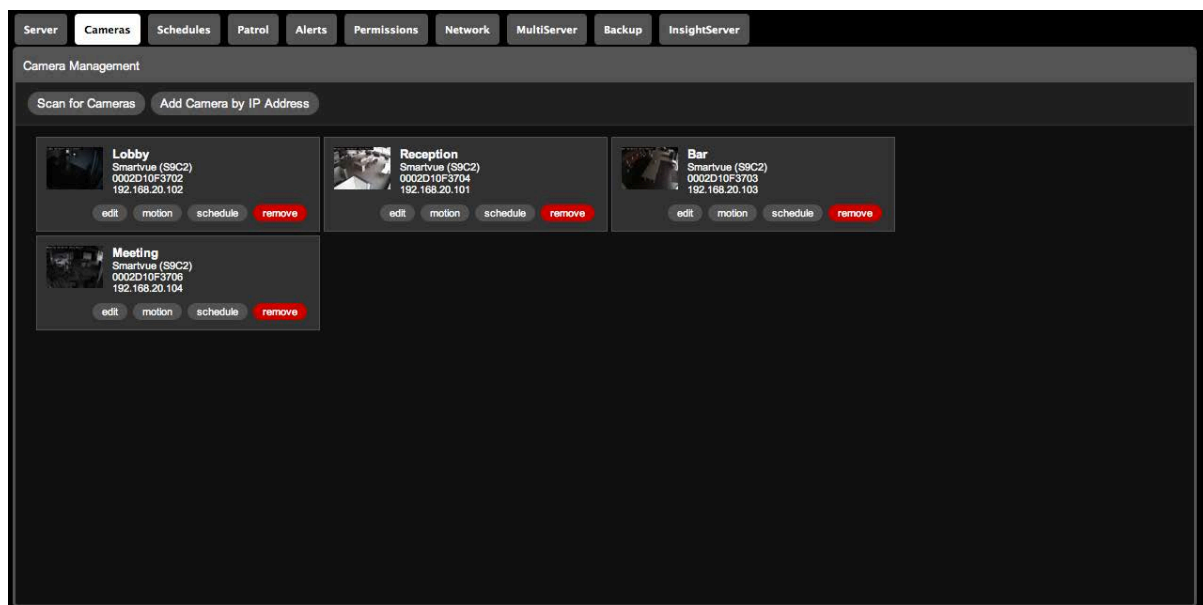
The motion detection dialog will appear with a preview image of the camera. Click on ADD button to set a new area of interest. You can set up to three areas of interest for each camera. Click on DELETE to remove a motion area.



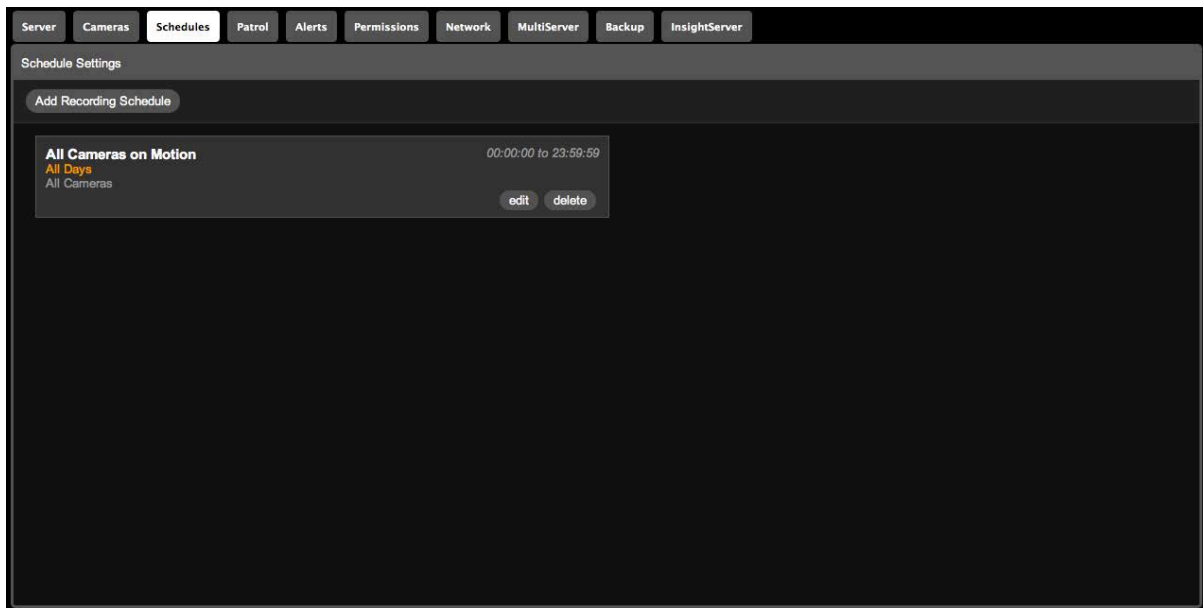
Drag the area to the correct location and then click APPLY. You will see a time and date stamp next to MOTION LAST DETECTED so you can test you motion settings. Adjust the THRESHOLD (default amount of noise in the video) and SENSITIVITY (how sensitive the camera is to picking up motion) settings to your particular environment. The default settings very sensitive and may need to be changed. The default settings are THRESHOLD 10 and SENSITIVITY 95.

SCHEDULE

To set a recording schedule for any camera, in the list of cameras, click on the SCHEDULE button associated with the camera you want to record, or click on the SCHEDULES tab at the top of the screen. The SCHEDULE dialog will appear.



By default, all new cameras are set to record 24x7.



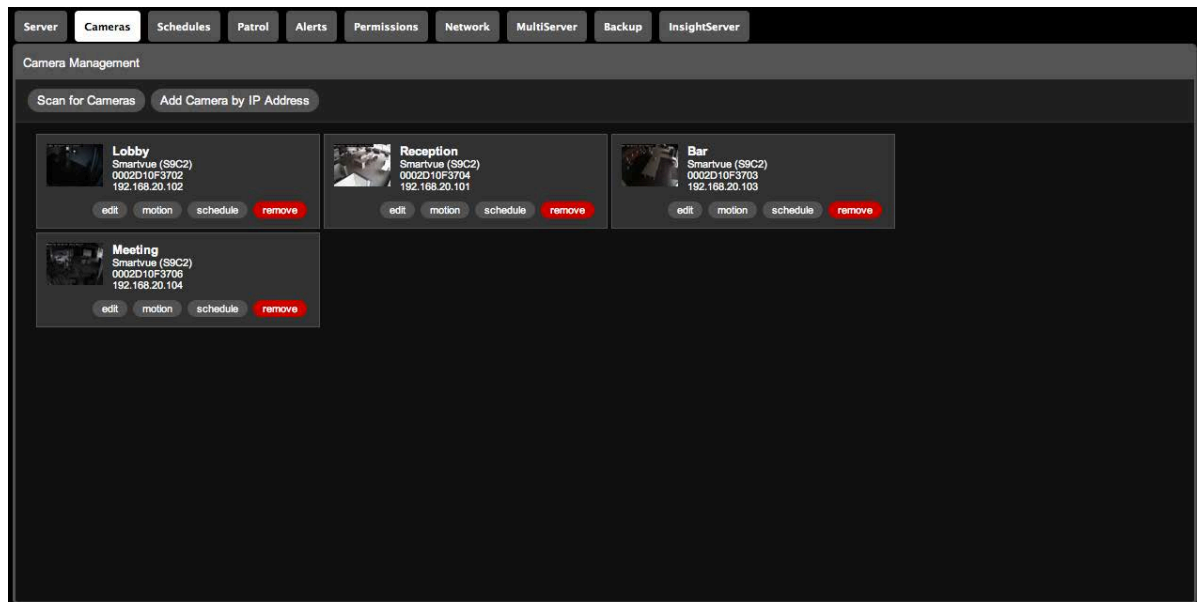
To add a new schedule, click on ADD RECORDING SCHEDULE. Enter a custom name for the schedule. Select the specific days to record or select ALL DAYS. Select the START TIME and the END TIME of the recording. Then select the specific cameras to record on this schedule or select ALL CAMERAS. To set the schedule to only record when motion is detected (this will increase the amount of video that can be saved on the server), select the ONLY RECORD WHEN MOTION IS DETECTED option. Click on SAVE.

The image shows a 'Add Recording Schedule' dialog box. It contains the following fields and options: 'Name' (text input with 'Untitled Recording Schedule'), 'Days' (dropdown menu with 'All Days' selected), 'Start Time' (text input with '12:00:00 am'), 'End Time' (text input with '11:59:59 pm'), 'Cameras' (dropdown menu with 'All Cameras' selected), and a checked checkbox for 'Only Record when Motion is Detected'. At the bottom are 'Save' and 'Cancel' buttons.

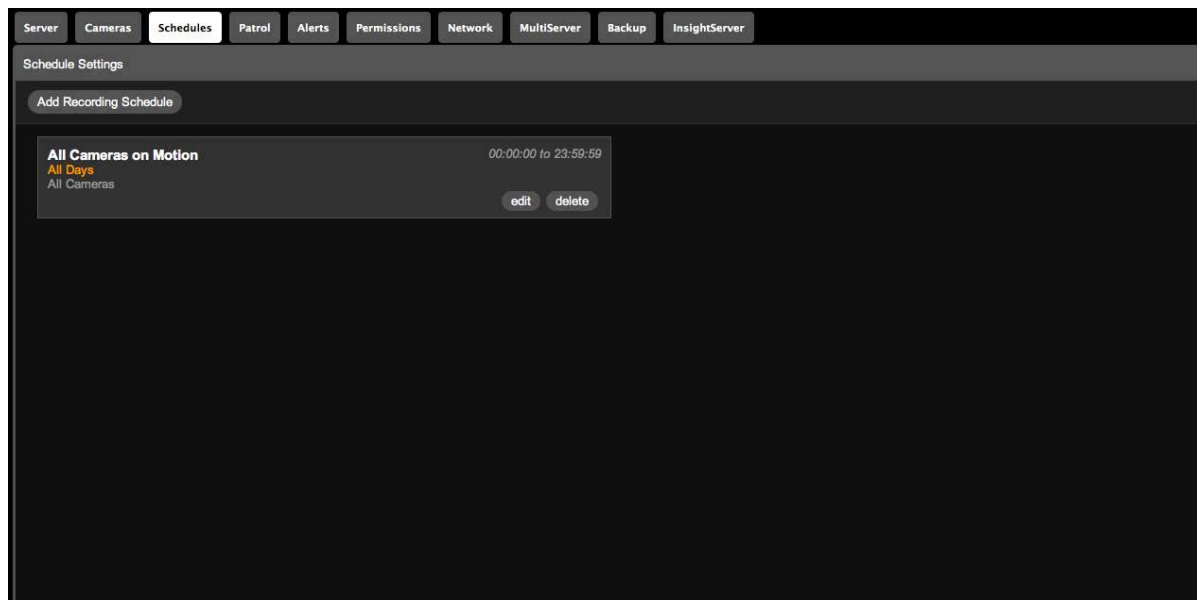
Record on Motion Detection by selecting the ONLY RECORD WHEN MOTION IS DETECTED option.

SCHEDULE

To set a recording schedule for any camera, in the list of cameras, click on the SCHEDULE button associated with the camera you want to record, or click on the SCHEDULES tab at the top of the screen. The SCHEDULE dialog will appear.



By default, all new cameras are set to record 24x7.



To add a new schedule, click on ADD RECORDING SCHEDULE. Enter a custom name for the schedule. Select the specific days to record or select ALL DAYS. Select the START TIME and the END TIME of the recording. Then select the specific cameras to record on this schedule or select ALL CAMERAS. To set the schedule to only record when motion is detected (this

will increase the amount of video that can be saved on the server), select the **ONLY RECORD WHEN MOTION IS DETECTED** option. Click on **SAVE**.

Add Recording Schedule

Name: Untitled Recording Schedule

Days: All Days, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday

Start Time: 12:00:00 am

End Time: 11:59:59 pm

Cameras: All Cameras, Bar, Lobby, Meeting, Reception

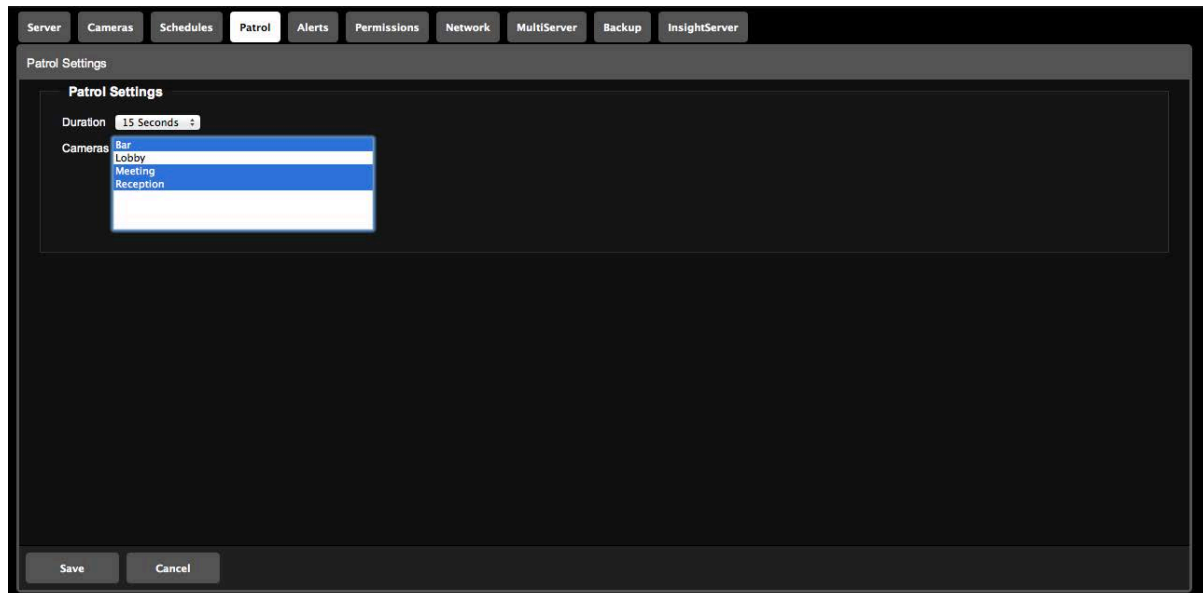
Only Record when Motion is Detected

Save Cancel

Record on Motion Detection by selecting the **ONLY RECORD WHEN MOTION IS DETECTED** option.

PATROL

A PATROL (similar to a security guard walking a beat) is an automated display of video from selected cameras, for a specified time, which loops continuously. Patrol settings must be made before a patrol will run properly. Click on **SETTINGS**, and then click on **PATROL**. The **PATROL SETTINGS** page will be displayed. Select all or just some of the cameras you want in the patrol, then select the time to display each camera.



CAMERAS

Select the cameras to display in the tour.

DURATION

Select the amount of time that each camera will be displayed before showing the next camera in the queue.

SAVE

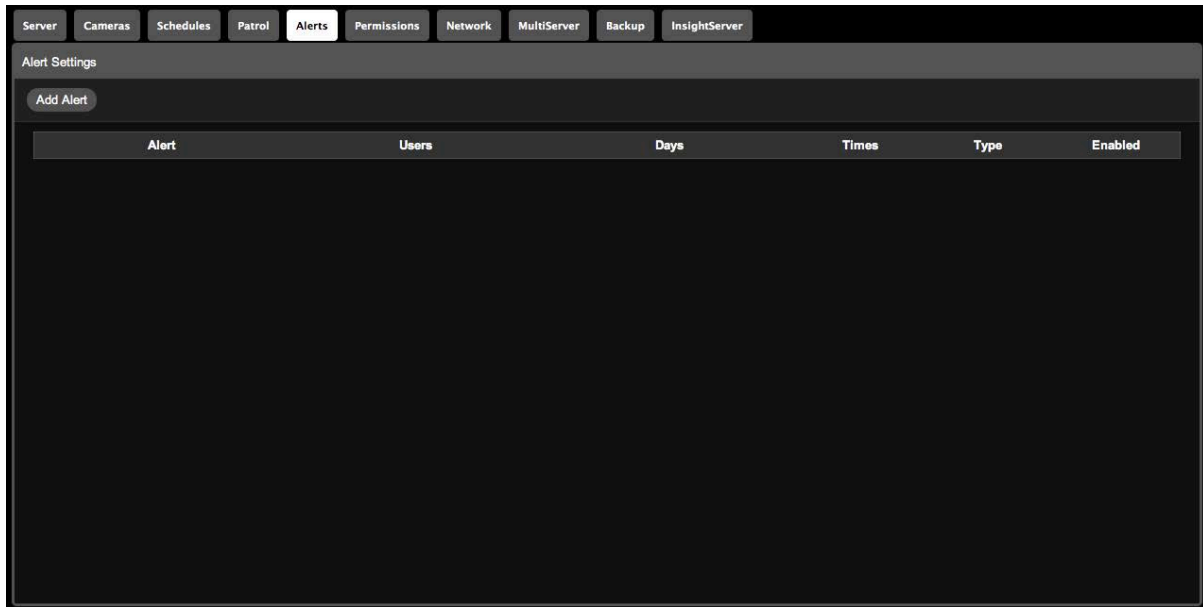
Click on **SAVE** to save the **PATROL** settings.

Patrol settings must be made before a **PATROL** can run.

To start the patrol, click on the **PATROL** button in the main toolbar.

ALERTS

Click on the ALERTS button in SETTINGS to open the ALERTS page.



ADD ALERT

To add an alert, click on the ADD ALERT button. The Add Alert dialog will appear.

The 'Add Alert' dialog box contains the following fields:

- Type: Camera Disconnect
- Start Time: 12:00:00 am
- End Time: 11:59:59 pm
- Days: A list box showing 'All Days', 'Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', and 'Saturday'.
- Users: A list box showing 'Josh Bowling', 'Martin Renkis', 'Scot Wittkamp', 'Smartvue Administrator', and 'visitor visitor'.
- Notification Type: Email
- Enabled:

At the bottom are 'Save' and 'Cancel' buttons.

ALERT TYPE

Select the type of alert to ADD. The options include CAMERA DISCONNECT (send alert when a camera disconnects from the server), CAMERA RECONNECT (send alert when camera reconnects to the server), SERVER STARTUP (send alert when the server boots up),

USER LOGIN (send alert with name of user when they log into the server), and WHEN MOTION DETECTED (send alert when motion is detected).

The image shows a 'Add Alert' dialog box with the following fields and options:

- Type:** Camera Disconnect (checked), Camera Reconnect, Server Startup, **User Login** (highlighted), When Motion Detected
- Start Time:** (empty)
- End Time:** (empty)
- Days:** All Days, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday
- Users:** Josh Bowling, Martin Renkis, Scot Wittkamp, Smartvue Administrator, visitor visitor
- Notification Type:** Email
- Enabled:**

Buttons: Save, Cancel

USERS

Select one or more users to receive this alert. To add users to your server, click on PERMISSIONS.

NOTIFICATION TYPE

Select the type of alert notification, either email or SMS/MMS text message (when images are sent with the alert, the server will send MMS). Note that some mobile phones do not have SMS or MMS support.

ENABLED

Allows you to quickly disable or enable an alert without removing it.

Add Alert

Type: When Motion Detected

Start Time: 12:00:00 am

End Time: 11:59:59 pm

Days: All Days, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday

Users: Josh Bowling, Martin Renkis, Scot Wittkamp, Smartvue Administrator, visitor visitor

Cameras: Bar, Lobby, Meeting, Reception

Notification Type: Email

Enabled:

Include Image:

Save Cancel

MOTION DETECTION ALERT

If you select the type WHEN MOTION DETECTED, you will have additional alert options.

CAMERAS

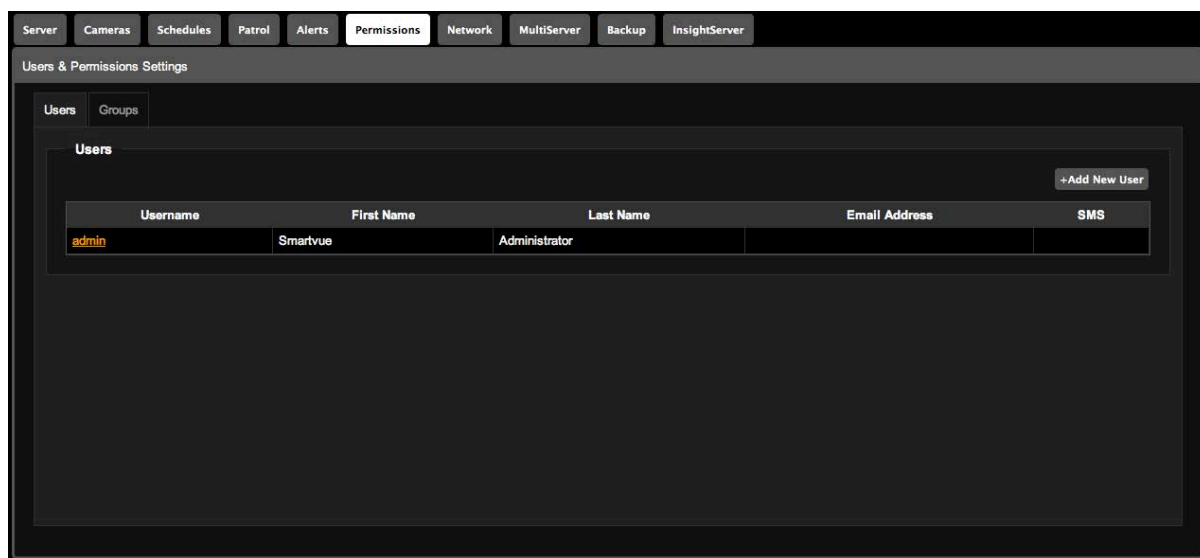
Select one or more cameras from the list. When motion is detected on any one of those cameras an alert will be sent.

INCLUDE IMAGE

If this option is selected, when motion is detected, an image from that motion event will be sent with the email or the test message (as MMS).

PERMISSIONS

To manage users and permissions, in SETTINGS, click on PERMISSIONS.



ADD USER

To add a new user, click on the + ADD NEW USER button. The NEW USER dialog will appear.

The 'Add New User' dialog form contains the following fields and options:

- Username: jsmitb
- Password: [masked]
- First Name: John
- Last Name: Smith
- Email: jsmitb@smartvue.com
- Wireless Carrier: AT&T (dropdown)
- MMS/SMS/Mobile Phone: 615-998-0098
- Group: Administrator (dropdown)
- Cameras: Bar, Lobby, Meeting, Reception (checkboxes)

At the bottom of the dialog are three buttons: Save, Cancel, and Delete.

Enter the Username, Password, First Name, Last Name, Email, Mobile number and Carrier as well as permissions. Select the GROUP (permissions) they have and then select the cameras that this user can view. Click on the SAVE button to add the new user.

EDIT USER

To edit a user, click on the user's name in the list. From the EDIT USER dialog you can change password and delete the user.

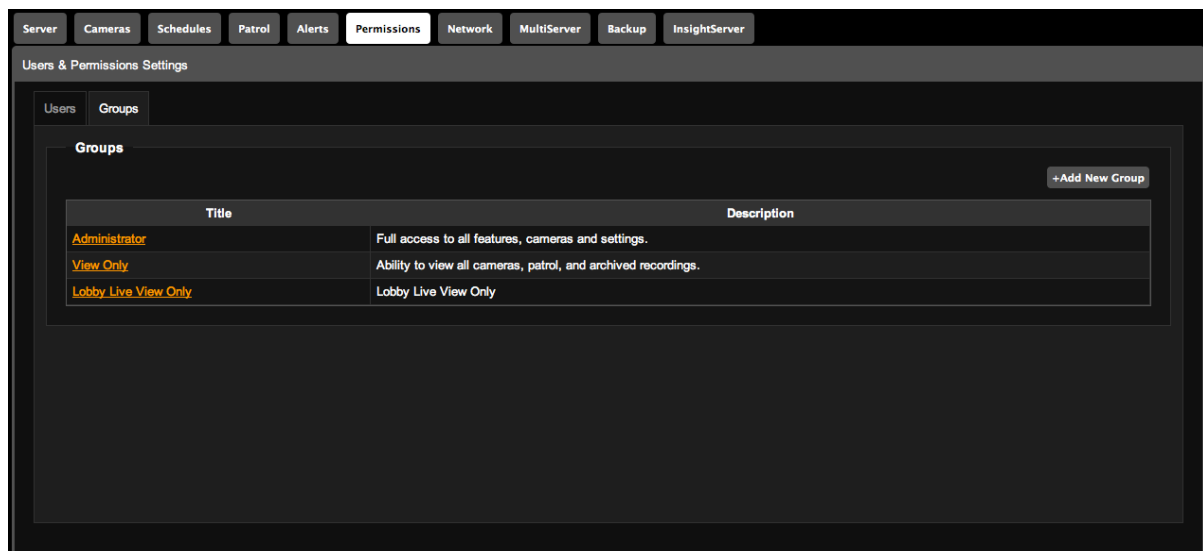
DELETE USER

To delete a user, click on user's name of the user you want to delete then click on the DELETE button. The ADMIN user cannot be deleted, although its password can be changed.

Only users with Administrator roles can delete other users.

GROUPS (PERMISSIONS)

The GROUPS feature allows administrators to grant access to certain features of the SERVER. The two default groups are ADMINISTRATOR, which has all permissions, and VIEW ONLY, which only has video viewing permissions only. Click on the GROUPS tab to open the GROUPS dialog.



ADD GROUP

Click on the + ADD NEW GROUP button to add a new GROUP. The permission details will appear. Enter a TITLE to name the group and add a description. Select the permissions to grant the user. Permissions include ALLOW PATROL (enables the patrol feature), ALLOW ARCHIVE (allows users to access recorded video), ALLOW ARCHIVE SETTINGS (allows users to download and delete videos), and ALLOW SETTINGS (allows the user to access and edit the server's settings).

+ Add New Group

Title	<input type="text" value="View Lobby Camera Only"/>
Description	<input type="text" value="View the Camera in the Lobby - Live Only"/>
Allow Patrol	<input checked="" type="checkbox"/>
Allow Archive	<input type="checkbox"/>
Allow Archive Settings	<input type="checkbox"/>
Allow Settings	<input type="checkbox"/>

Check the USER settings to limit access to specific cameras.

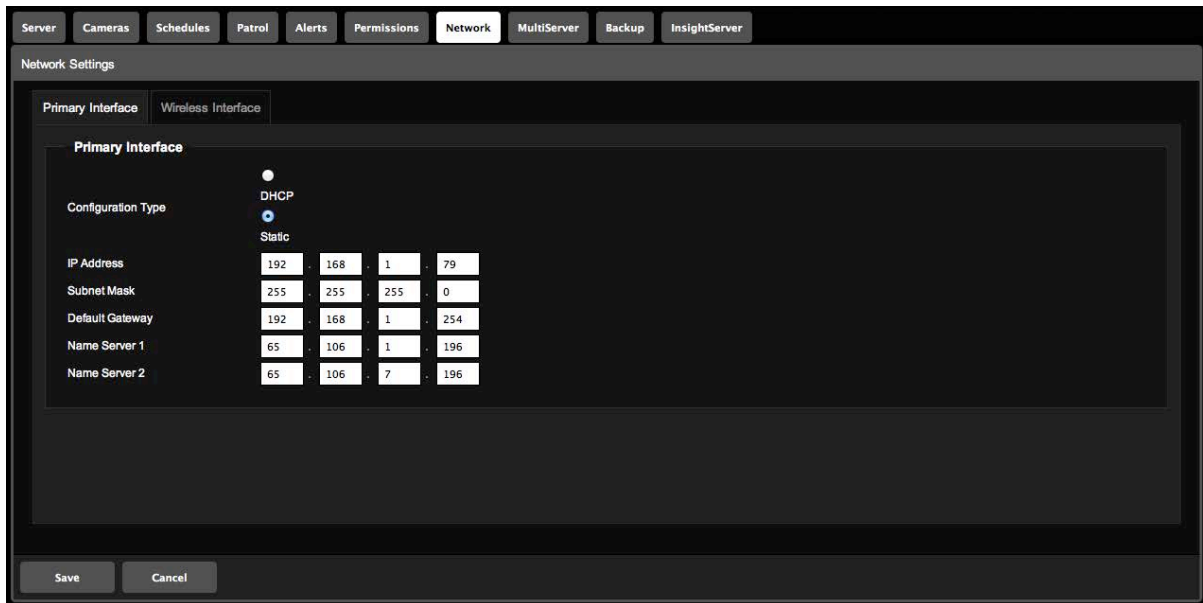
NETWORK SETTINGS

To access network settings for the server, in SETTINGS, click on NETWORK. The network settings dialog will appear.

PRIMARY INTERFACE NIC

Click on the PRIMARY INTERFACE tab to change the settings for NIC port on the server.

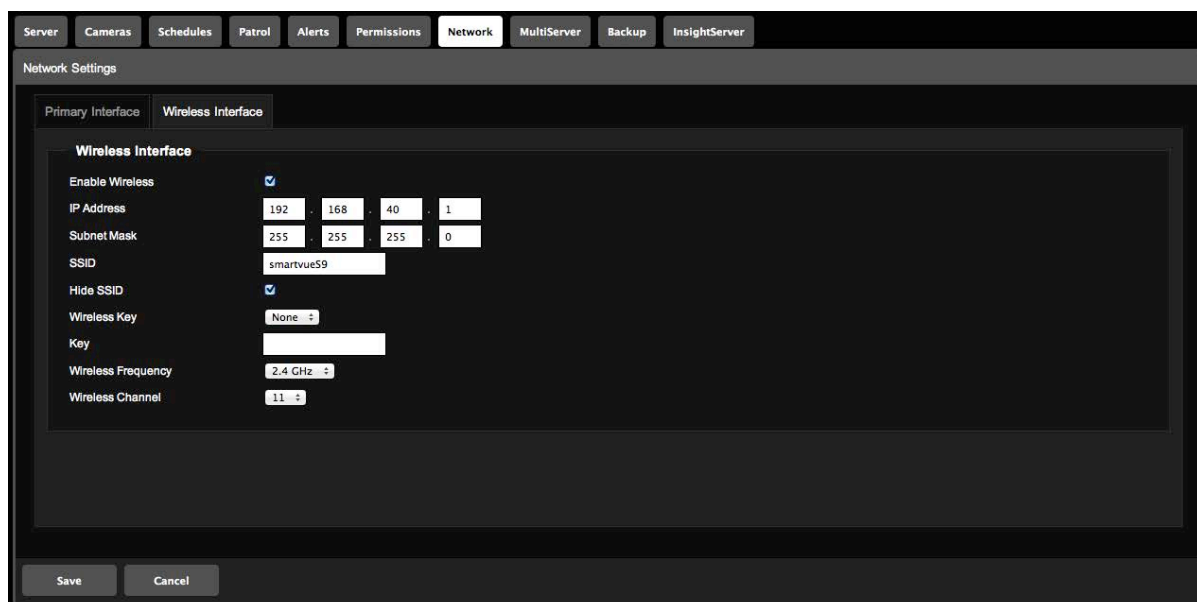
The Primary Interface NIC can be configured as Static IP or Dynamic IP. The IP address and other credentials like subnet mask, default gateway and DNS name servers need to be provided. For Dynamic IP address configuration the primary NIC is a DHCP client and the IP address and other credentials are automatically assigned by the user's DHCP server.



The primary NIC is a DHCP client.

WIRELESS NIC

Click on the WIRELESS INTERFACE tab to change the settings for the wireless NIC on the server. The wireless interface is used by default to communicate directly with Smartvue S9 series cameras or can be used as a direct interface into the server device. This interface acts a wireless DHCP server.



Enable Wireless

Select the option to enable or disable the wireless NIC. This setting is ENABLED by default.

IP Address

This is the IP address of the server.

Subnet Mask

This is the subnet mask of the server.

SSID and KEY

To use a custom SSID and KEY, enter the desired settings.

Hide SSID

Enables the SERVER to hide the public SSID to insure better security for the system and eliminates the easiest way to find cameras on a wireless network.

Wireless Security

Select from WPA or WEP wireless security.

Wireless Frequency

The SERVER and camera wireless frequency can be modified under the WLAN option. While 2.4GHz will offer the longest range indoors with the best penetration through walls, 5.8GHz is a frequency that is less likely to be shared with other devices such as 802.11 b/g routers. Smartvue S9C cameras only operate on the 2.4GHz frequency.

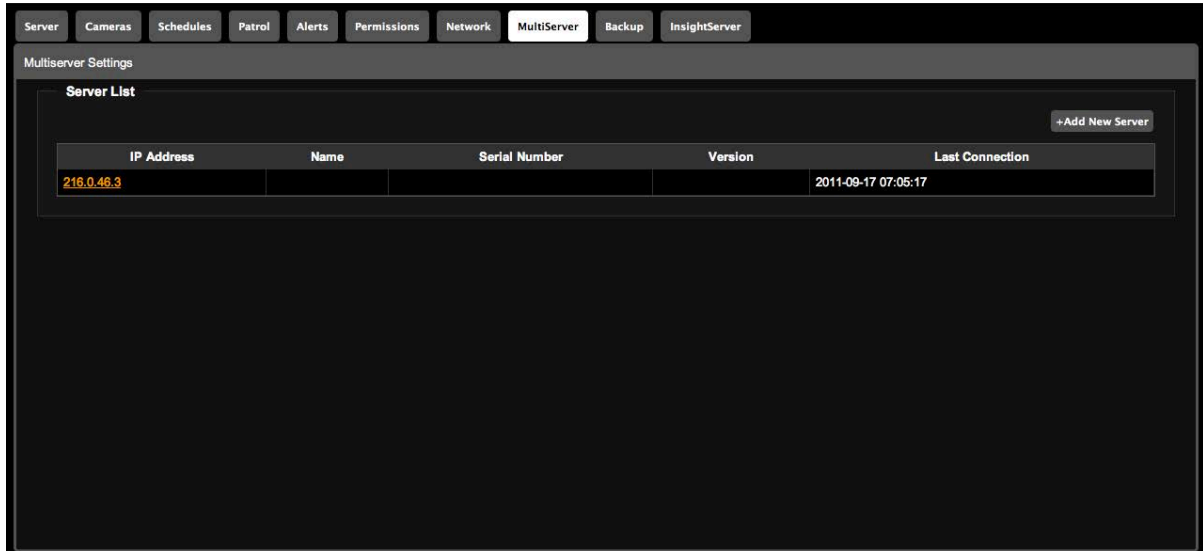
Channel

Select automatic or specific wireless channel. By default this is set to channel 11.

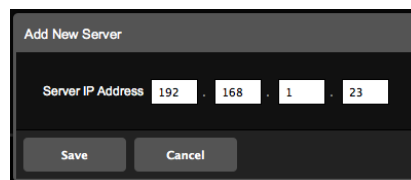
If you have conflicting wireless devices, consider changing the channel.

MULTISERVER

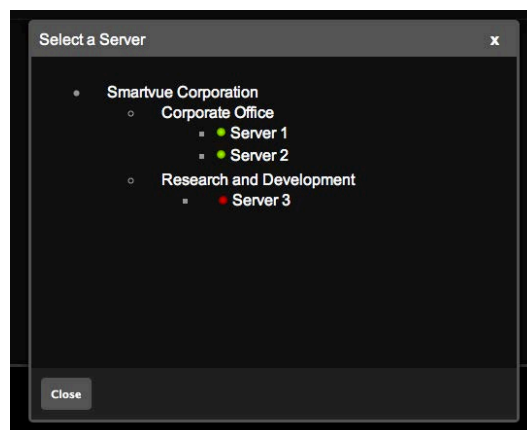
MULTISERVER enables users to access multiple servers from a single login interface. You can add any number of Smartvue S9 servers to this list and jump from server to server without logging in and out.



To add a new Smartvue S9 server to the multiserver list, click on the + ADD NEW SERVER button. Enter the IP address of the other Smartvue S9 server then click on SAVE.

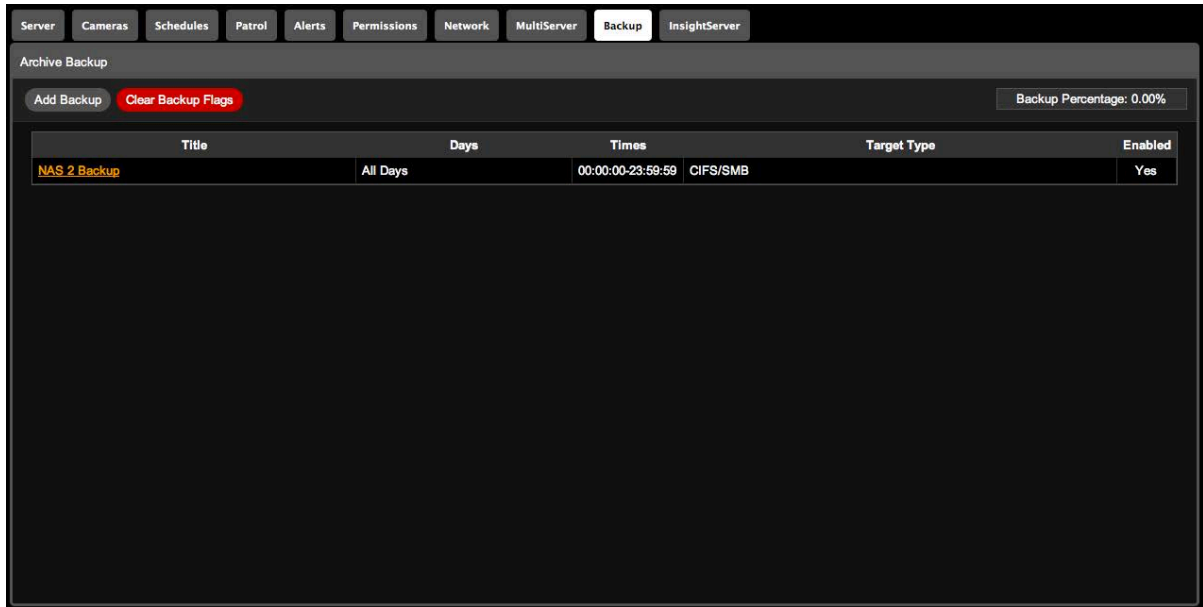


To use MULTISERVER, in the live video view, click on the name of the server at the center top of the screen. A list of connected servers will appear. Click on any server to be linked.



BACKUP

In SETTINGS, click on BACKUP to access backup settings. With BACKUP you can backup your recorded videos to USB or NAS storage devices. Backup works constantly in the background to keep all your video backed up and as new video is recorded, Smartvue BACKUP will back it up to your selected source.



To add a new backup, click on the ADD BACKUP button, the backup dialog will appear.

The 'Add Backup' dialog box contains the following fields and options:

- Title: NAS Backup
- Days: All Days (selected from a dropdown menu listing Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday)
- Start Time: 12:00:00 am
- End Time: 11:59:59 pm
- Target Type: CIFS/SMB (selected from a dropdown menu)
- Remote Share: 192.168.7.62
- Username: admin
- Password: masked with dots
- Enabled:

Buttons: Save, Cancel

TITLE

Enter a name for the backup next to TITLE.

DAYS

Select the specific days to do the backup or select ALL DAYS.

START AND END TIME

Select the START TIME and END TIME of the backup.

TARGET TYPE

Select the target backup from USB, NFS, or CIFS/SMB. This enables you to backup to a simple USB device or out on your network using network attached storage (NAS).

If you select the CIFS/SMB NAS option, the REMOTE SHARE IP address will need to be entered along with the USERNAME and PASSWORD. If you select the NFS NAS option, the SERVER ADDRESS and REMOTE DIRECTORY will need to be set. If you select the USB option, you will need to select the VOLUME TYPE from the drop down.

ENABLE

You can ENABLE or DISABLE the backup by checking the ENABLE option.

CLEAR BACKUP FLAGS

All successfully backed up video is flagged. If you select the CLEAR BACKUP FLAGS option, then all video on the server will be backed up, not just those clips that have not been successfully backed up yet.

BACKUP PERCENTAGE

The BACKUP PERCENTAGE gauge will always show how much of the video has been successfully backed up.

CLOUDEVUE

Cloudvue surveillance service offers simple, secure, and cost-effective remote surveillance management for up to thousands of servers and cameras from a single website. It eliminates the complexities of setting up and scaling remote surveillance.



Cloudvue is a free service from Smartvue for one user. Additional users are only \$99 per year for an unlimited number of servers and cameras. All you have to do to use Cloudvue is to register your server. To register, from **SETTINGS**, select Cloudvue.

CREATE A NEW ACCOUNT

To register your SERVER with Cloudvue, click on CREATE A NEW ACCOUNT.

Create a New Account

Account Name

User Name

Password

Password Confirm

Email

Enter an ACCOUNT NAME (create one yourself), USERNAME (this will be used to login) and a PASSWORD as well as your email address and click SAVE.

After you complete registration, go to WWW.CLOUDVUE.COM and login from almost any Internet enabled device to view your SERVER.

REGISTER TO AN EXISTING ACCOUNT

To register your SERVER with an existing Cloudvue account (so you can see multiple servers from one account), click on REGISTER USING AND EXISTING ACCOUNT. Enter the USERNAME and PASSWORD for the account and click on REGISTER.

Register using an existing account

Username

Password

After you complete registration, you can go to WWW.Cloudvue.COM and login from almost any Internet enabled device to view your SERVERS.

Cloudvue is not required for remote access to an S9 SERVER. Remote access can be direct or through DDNS. See your network administrator for more options.

DDNS – DYNAMIC DNS

DIRECT REMOTE ACCESS

If you do not plan to use the Cloudvue Cloud Surveillance Service, accessing your server directly from the Internet requires that server be accessible outside of your local network. This can be accomplished by enabling remote access to your SERVER through your router and may require customization of your router and firewall settings. Another option is to consider for remote access is using DDNS (dynamic DNS).

DYNAMIC DNS

DDNS is a service that allows you to configure a domain name, such as www.myserver.com to route to a dynamic IP address, such as those typically provided by cable and DSL Internet access providers for Internet access.

A dynamic IP address means that your Internet connection is assigned a different IP address each time you connect or logon. It is recommended that you purchase a router/switch that supports DDNS natively and that you connect the router or switch to your cable or DSL modem. Go to Dynamic Network Services website at www.dyndns.com and sign up for a free account.

RESET

To reset the Smartvue S9 SERVER to its original factory settings, insert a paper clip into the small hole on the front of the server.

IMPORTANT:

Resetting the SERVER will delete all videos and all settings, including network settings.

SAFETY INSTRUCTIONS & NOTICES

Instructions – All instructions should be read before operating the product. All operating and maintenance instructions should be followed. Follow all warnings and important notes in this guide. The instructions should be retained for future reference.

Cleaning – Unplug this product from the wall outlet before cleaning. Wipe the product with a dry towel. Do not use liquid or aerosol cleaners.

Accessories – Do not use accessories not recommended in this manual or in writing by the manufacturer, as they may be hazardous.

Avoid magnetic or electric fields – Do not use the camera close to TV transmitters, portable communication devices or other sources of electric or magnetic radiation. They may cause picture interference, or permanently damage the camera.

Water and Moisture – Do not use this product near water or in rainy/moist environments due to hazard of electric shock.

Placing or Moving – Do not place product on an unstable cart, stand, tripod, bracket or table. It may fall, causing serious injury or damage to the product.

Power Source – The Smartvue power adaptors should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply, consult the dealer or local power company.

Power Cord Protection – Power cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to plugs and the point from which the cords exit the product.

Lightning – For added protection of this product during a lightning storm, disconnect it from the wall outlet. This will prevent damage due to lightning and power-line surges.

Overloading – Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

Objects and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Be careful not to spill liquid of any kind onto the product.

Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards and will void the warranty. Refer all servicing to qualified personnel.

Damage Requiring Service – Disconnect this product from the wall outlet and all power sources. Refer servicing to qualified service personnel under the following conditions: When the power-supply cord or plug is damaged. If any liquid has been spilled onto, or objects have fallen into, the product. If the product has been exposed to rain or water. If the product does not operate even if you follow the operating instructions. If the product has been dropped or the cabinet has been damaged.

No one is permitted to disassemble or modify this product without the express permission of Smartvue Corporation. Alteration of this product will void the warranty and may void the user's authority to operate this equipment under certain guidelines.

WIRELESS RANGE & INTERFERENCE

Transmission of video data may be interfered with due to the nature of wireless communications and wireless interference from other wireless signal sources and metal. This may prevent the recording of video and images.

Smartvue S9 wireless cameras and network video recorders operate in the 2.4 GHz or the 5 GHz frequencies subject to local regulations. The modulation is IEEE 802.11n (OFDM).

PATENTS & TRADEMARKS

Following is a list of Smartvue Corporation granted Utility Patents, Design Patents, Registered Trademarks, and other Trademarks. Other patents filed in EU and China.

Patents	Description
#7,508,418	Mesh networked camera communications
#7,603,087	Wireless camera and server jamming prevention
#7,719,567	Event driven remote network video access
#7,719,571	Remote access network traversal
#7,728,871	Automatic IP camera and server configuration
#7,730,534	Wireless video transmission prioritization
#7,784,080	Single click network video protocols
#7,821,533	Automatic search and locking of wireless cameras
#7,925,219	Wireless camera and server jamming prevention
#7,936,370	Multiple video stream encoding technologies
#7,954,129	Wireless remote video monitoring

Design Patents	Description
#D428,876	Video Cameras, Video Recorders
#D429,269	Video Surveillance Service
#D429,743	Video Surveillance Service
#D540,359	Video Surveillance Services

Trademarks	Description
Smartvue®	Video Cameras, Video Recorders
Be There®	Video Surveillance Service
Eyeonic®	Video Surveillance Service
See for Yourself®	Video Surveillance Services

Other Marks	Description
Social Surveillance™	Video Surveillance Sharing Feature and Services
1-Click Surveillance™	Network Video Software and/or Hardware Feature

Camlock™	Network Video Software and/or Hardware Feature
ClearChannel™	Network Video Software and/or Hardware Feature
DualEncoding™	Network Video Software and/or Hardware Feature
DynamicVue™	Network Video Software and/or Hardware Feature
EZNVR™	Network Video Software and/or Hardware Feature
IntelliMesh™	Network Video Software and/or Hardware Feature
IntelliCell™	Network Video Software and/or Hardware Feature
Intelliprise™	Network Video Software and/or Hardware Feature
PriorityCam™	Network Video Software and/or Hardware Feature
PocketVideo™	Network Video Software and/or Hardware Feature
JamLock™	Network Video Software and/or Hardware Feature
MeshCam™	Network Video Software and/or Hardware Feature
PocketVideo™	Video Services, Surveillance Feature
Quickvue™	Network Video Software and/or Hardware Feature
Remotevue™	Network Video Software and/or Hardware Feature
Securevue™	Network Video Software and/or Hardware Feature
SensorMesh™	Network Video Software and/or Hardware Feature
SmartIP™	Network Video Software and/or Hardware Feature
SmartMesh™	Network Video Software and/or Hardware Feature
Trackvue™	Network Video Software and/or Hardware Feature
VBI™	Network Video Software and/or Hardware Feature
vRFID™	Network Video Software and/or Hardware Feature
vSystem™	Network Video Software and/or Hardware Feature
Motionvue™	Network Video Software and/or Hardware Feature
SocialSurveillance™	Network Video Software Sharing Service/Feature
Cloudvue™	Network Video Software Sharing Service/Feature
Sharevue™	Network Video Software Sharing Service/Feature
Visual Business Intelligence™	Network Video Software and/or Hardware Feature

TECHNICAL SUPPORT

Smartvue is committed to helping you make your world a safer place. For the fastest technical support contact your authorized Smartvue dealer, visit www.smartvue.com and click on SUPPORT, or call (888) 754-4543. Be sure to have your serial number before you call.

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