S-VIDIA Digital Video Security System

CLIENT MANUAL

REV 1.45

www.svidia.com

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REVISION 1.46 VZ

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I

INTRODUCION

The remote client is an application which allows connection to the Server DVR system.
The system is based on a user / password entry and operates over a TCP/IP network.
The Video Client application has features that allow the user to view live video and control your system from a remote station. The remote software is almost identical to the server software so it is easy to use.

New technology:
Flexible Delta Compression™
Adaptive Network Streaming™
MultiCam Motion Search™

It provides the following features:

1. **Megapixel camera support (version Server 5.0.11.327, Client 5.011.149 and up).**
2. View of all configured cameras.
3. User-friendly "Drag & Drop" technology to organize camera views on the screen.
4. Remote recording of cameras to local storage.
5. Extremely low network traffic.
6. Ability to view the archive video (depending on user status).
7. Configure own display and layout settings.
8. Configure individual camera settings (brightness, contrast, saturation, motion sensitivity, compression...)
9. 10 motions zones per camera with alarm
10. Smart motion search.
11. Unique On Top display monitor.
12. Ability to run more than one instance, for multiple site viewing.
13. Control Network traffic.
14. User setup (depending on user status).
15. On-Screen PTZ Control with Positioning Device Programming Capability
16. Virtual PTZ with Mega Pixel cameras.
17. Ability to run more than one instance, for multiple sites viewing (virtually unlimited).
18. True Video Database with continuous Time Line.

Software and hardware requirements for the client:

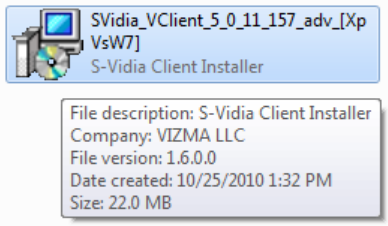
There are the minimum requirements for a video client:
– Processor Intel® Pentium® IV, Celeron, Atom.
– 512MB of system memory (1GB for Mega Pixel cameras support)
– Microsoft® Windows 2000 / XP/ Vista/ Windows 7; DirectX 9th versions or older one.
– Network adaptor or modem, with remote access/playback if necessary; TCP/IP protocol.

1. INSTALLATION

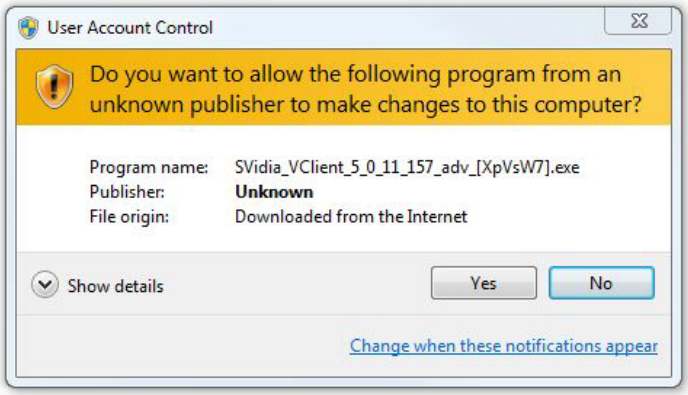
1.1 Install Client Software

Insert the S-VIDIA™ CD that was supplied or download S-VIDIA™ Video Client Software from the website www.svidia.com, browse to the Client folder and run the installation file.

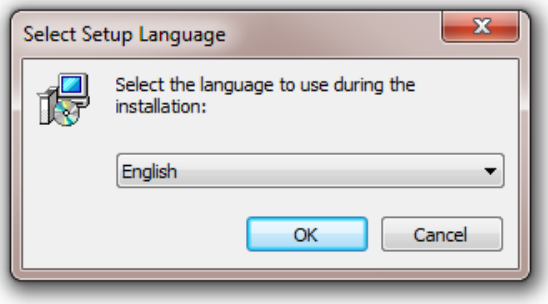
1.1.1 Double Click on Icon



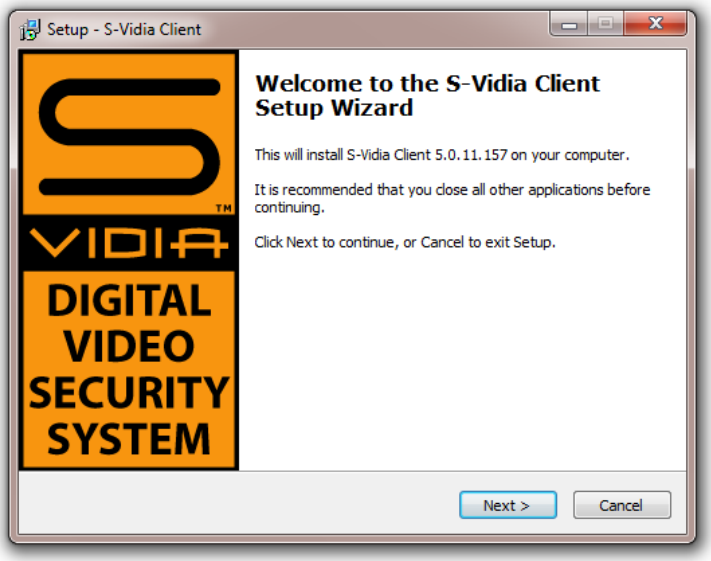
1.1.2 Ignore this message click **Run.**



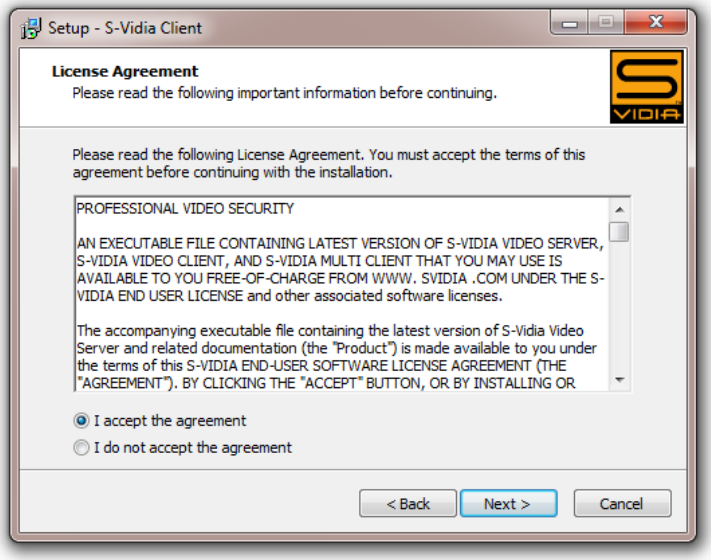
1.1.3 Select the language.



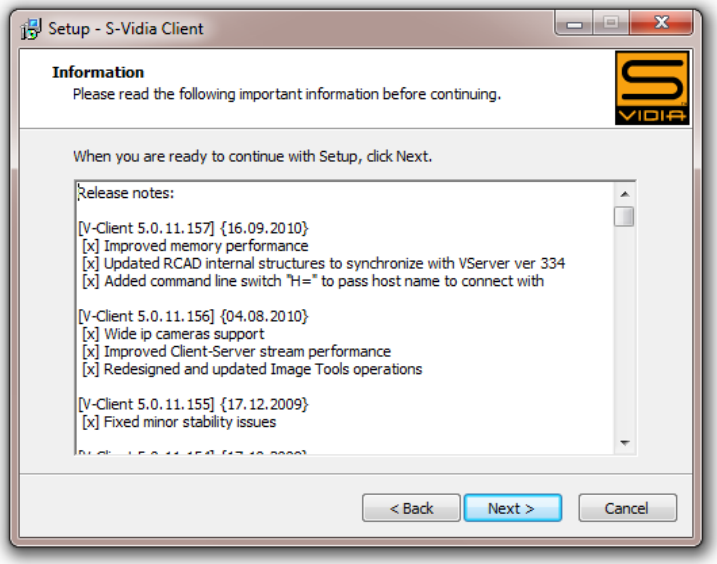
1.1.4 Close other application and click next.



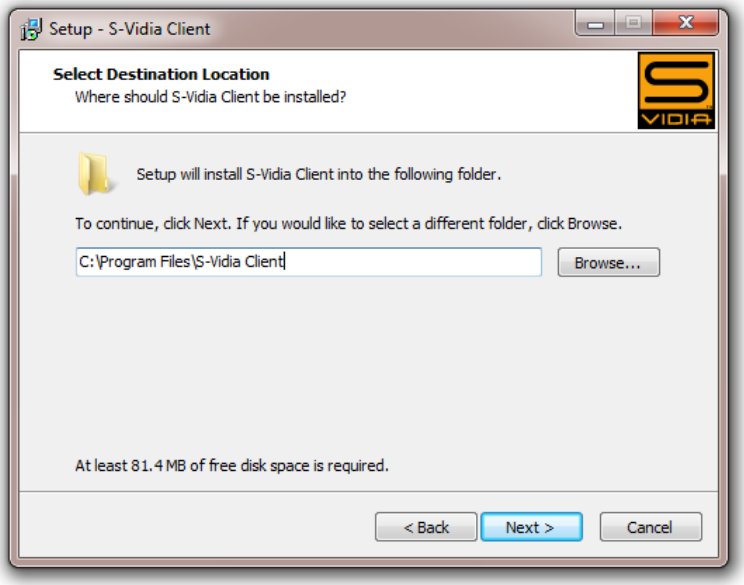
1.1.5 Please read License Agreement.



1.1.6 Information about this and privies release



1.1.7 Select the destination location, default settings are recommended.

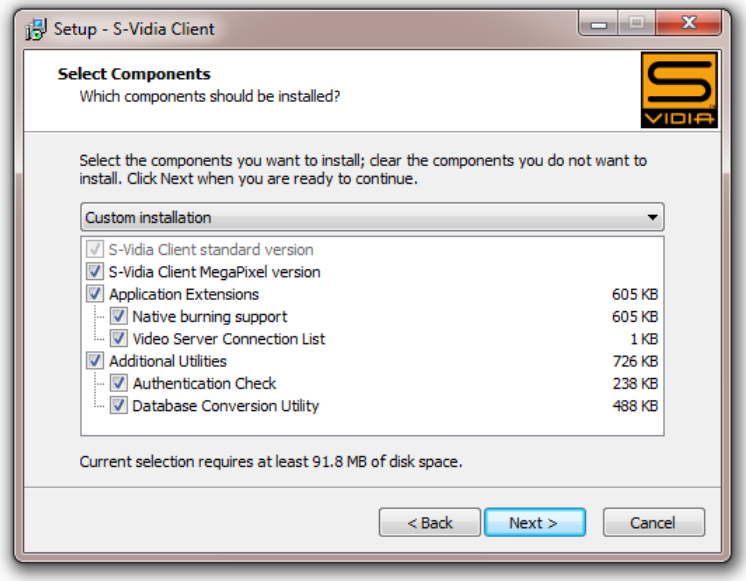


1.1.8 Select Components.

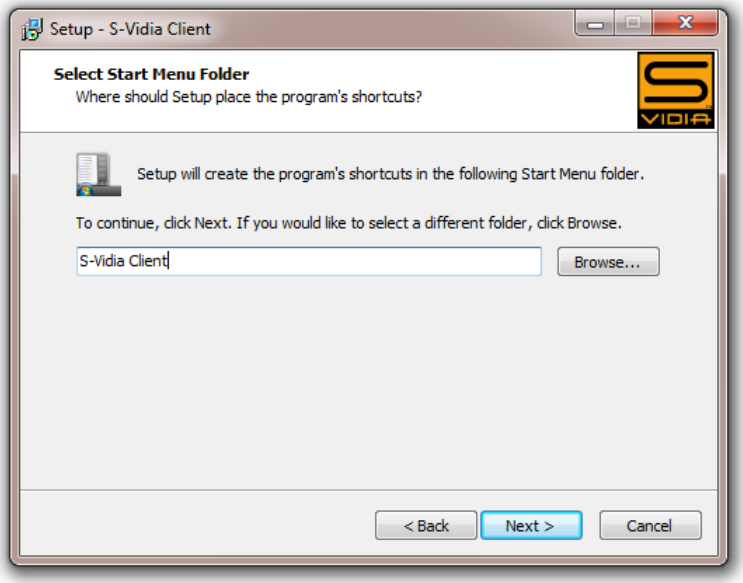
S-VIDIA™ Vision Client Megapixel version required additional License on S-VIDIA™ Server software **(VServer v.5.0.11.327)**

Native burning support: enables embedding Video Client Software onto exported video fragment on CD or DVD.

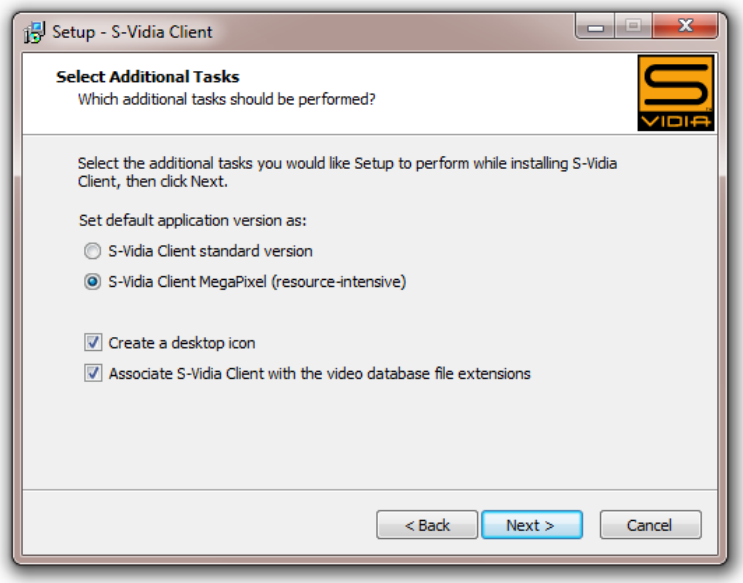
Authentication Check: adds software for checking the Digital Signature on exported frames.

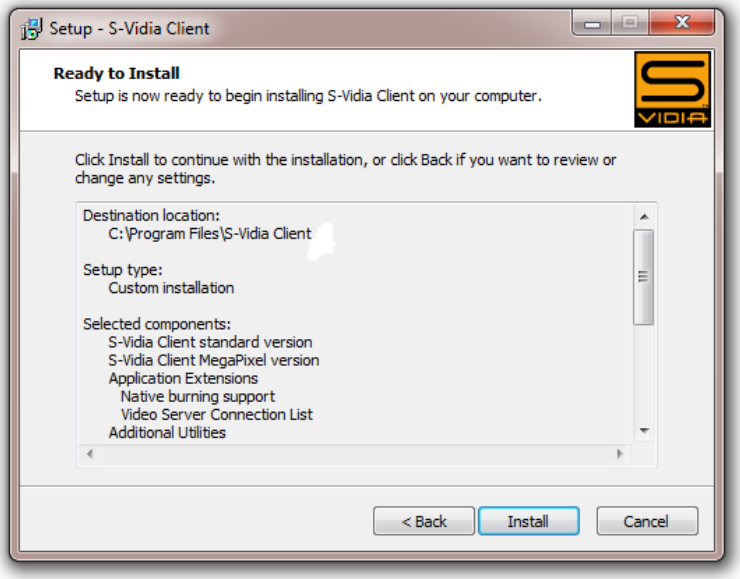


1.1.9 Select Start Menu Folder

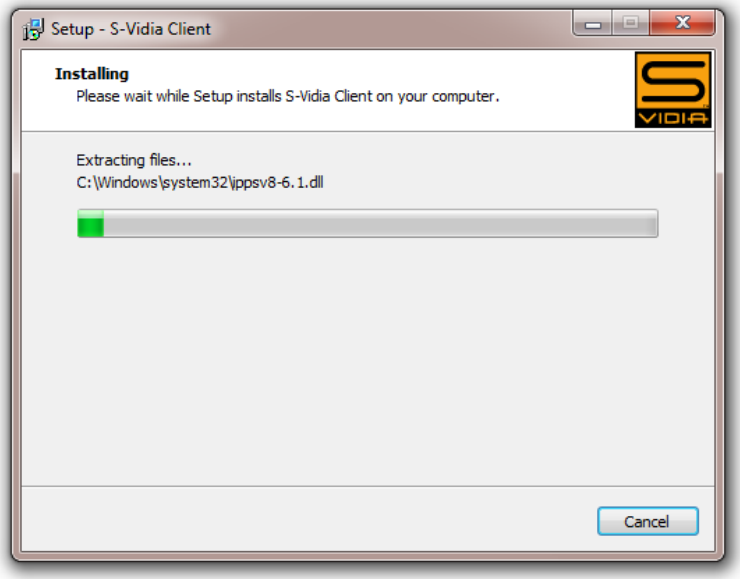


1.1.10 Select Additional Tasks

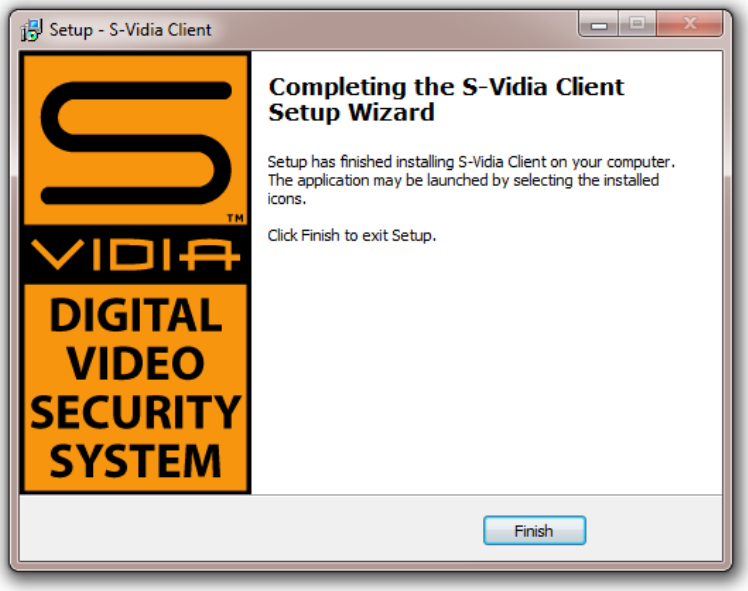




1.1.11 Installation progress.



1.1.12 Press Finnish and your system is ready to use.

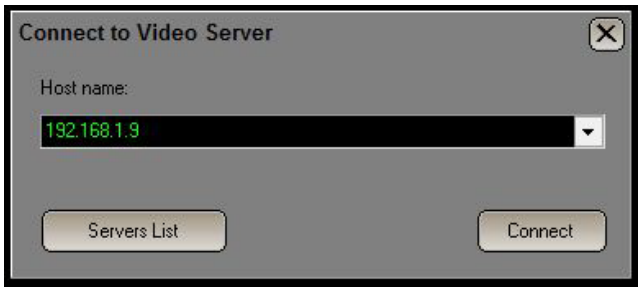


1.2 Run Client Software

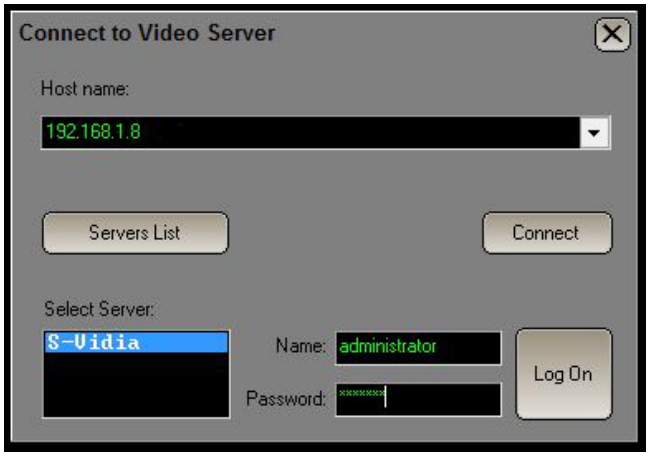
Run the S-VIDIA™ Video Client Software. Click on icon on your computer desktop.

1.3 Connecting and Logging On.

Run the S-VIDIA™ Video Client Software. It will ask you for the **"Host Name"**.
Enter: 192.168.1.9 or different IP address (Host name) and click **"Connect"**.



You should be prompted for your S-VIDIA™ **Login.**



Enter your username and password and click "Log On".

If you get a **"Windows Socket Error"** then it means one of three things:

1. There is no TCP/IP Network (invalid IP address or Host name)
2. You have not enabled the Server
3. Server not connected to the Internet or network

If you are logged on successfully you will be presented with a blank screen – you need to select your camera layouts now to view your cameras. (P.2.2)

S-VIDIA™ Application Browser
Upon selection switches between S-VIDIA™ Client, MiltiClient, If multiple applications running on the machine.

Top bar of the screen

 **System configuration (administrator only!)** **P.6.0**

 **Save layout** **P.2.2**

 **Video Archive (Video Explorer on earlier versions)**

 **Connect to Video Server**

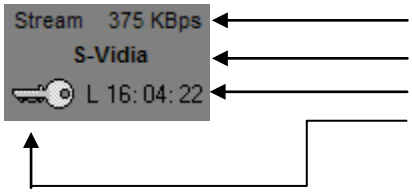
 **Record Video** Video will start recording on stream quality

Minimize to Taskbar

Full screen mode (F 9), Restore to normal mode screen (F 9) again

Close the program

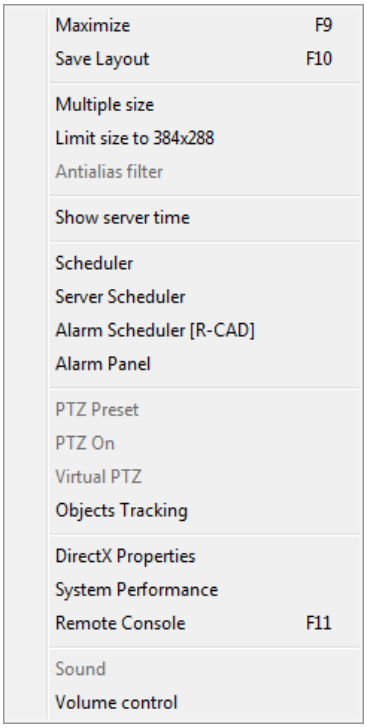
Buttons bottom of the screen cameras on/off Two rows of eight buttons (default: C1-C16) allow you so select your 16 cameras individually (for viewing only)



Stream Video streams (Network traffic), see System Setup
Video Server Your server Name
L 16:08:42 Local Time
KEY Secured connection inscription video stream 128bit

2.1 The Main command menu. (Client)

When the main window is active the command menu is called up by right click with the mouse on the cameras. The menu offers the following command options.



Maximize/Restore resize to fill the entire screen/restore usual size

Save Layout save current frames layout

Multiple sizes multiple size video data display from the camera (to increase playback speed)

Limit size to 384x288 reduce the display dimensions till 384 pixels horizontally and 288 pixels vertically (to increase playback speed S-VIDIA™ SV-Lite system)

Antialias filter antialias filter for increase the quality of image display

Show server time Switch local time to server time

Scheduler customization for alarming capabilities (Client side)

Server Scheduler customization for recording, alarming and maintenance capabilities (Server side)

Alarm Scheduler [R-CAD] Look R-CAD Setup manual (Pro Series and UP)

Alarm Panel Look R-CAD Setup manual

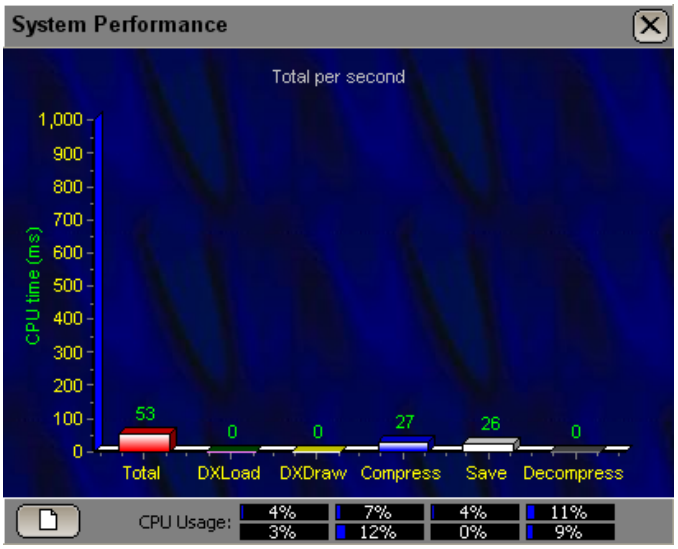
PTZ Preset show the PTZ Presets window

PTZ On turns on/off PTZ cameras control

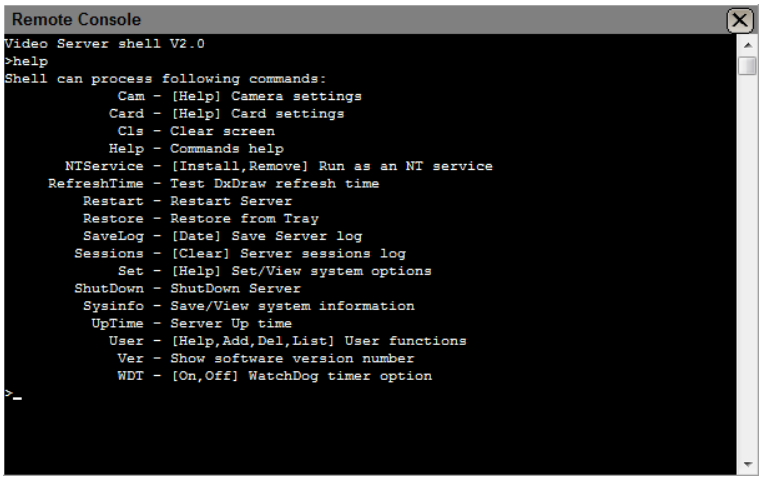
Virtual PTZ Mega Pixel cameras only

Objects Tracking **New!** Supported in VClient v.6

System Performance shows the window of tests on the system performance.



Remote Console shows the console window to administrate and perform the Server configuration (or the keyF11) **(For System Administrator only!)** See S-VIDIA™ Video Server user manual



Sound Sound activation, coming from the audio channel of the sound coverage card. This command can be deactivate is the Server's operator has no corresponding rights.

Volume control system window for volume control.

2.2 Layouts

Generally, when connecting to a client for the first time or just after installing the S-VIDIA™ Video Client Software, you will be presented with a blank screen – no pictures.

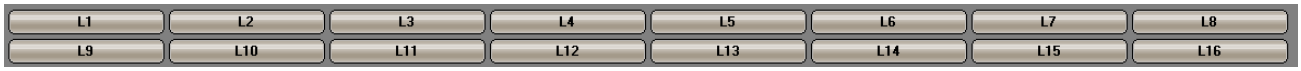
To get your cameras to display, you need to use the display buttons found along the bottom of the screen:

Two rows of eight buttons (default: C1-C16) allow you so select your 16 cameras individually.
Then we have the **"Layout Buttons"**

The Layout button will bring up a set of 16 configurable layouts (default: L1-L16).
By default all layouts represent blank screens. It is up to you to set them up as layouts according to your operations and preferences.

Click  **"Layout"**

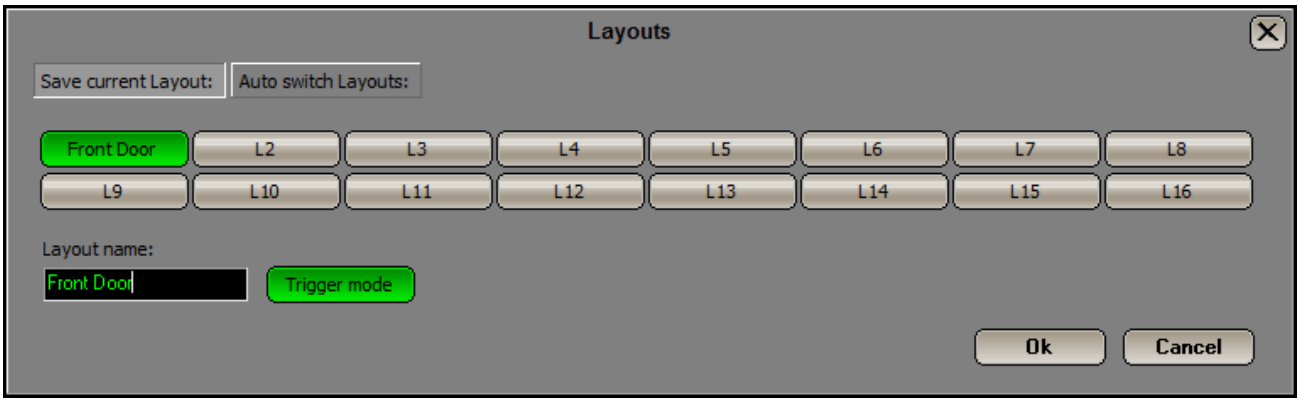
Choose a Layout (default: L1-L16):



To bringing up cameras of your choice by clicking the camera buttons (default: C1-C16) which you would like to be saved to this Layout.

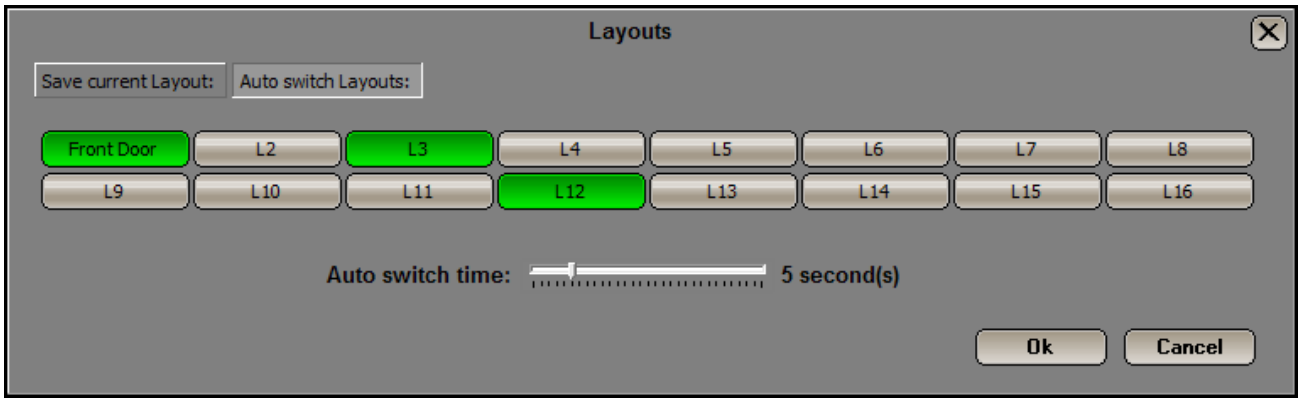
Once you are happy with your layout, you should save it: (top left of screen, blue button):

Now give your Layout a suitable name:



Click **"OK"** to apply.
When enabled, the layout pane will change to display individual camera buttons.

2.3 Auto Switch Layouts



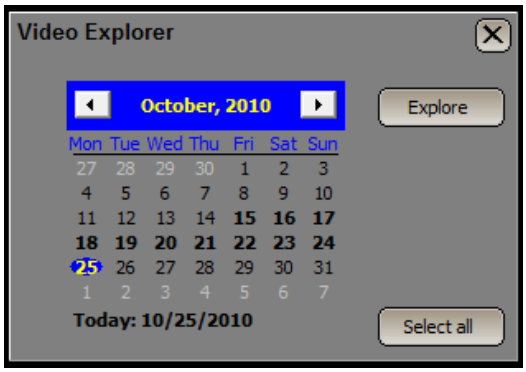
"Auto Switch Layouts" allow you to set a timed sequence between selected layouts. This timed sequence can be activated and de-activated by pressing the timer button bottom right:

 Off  On

3. Video Archive Playback

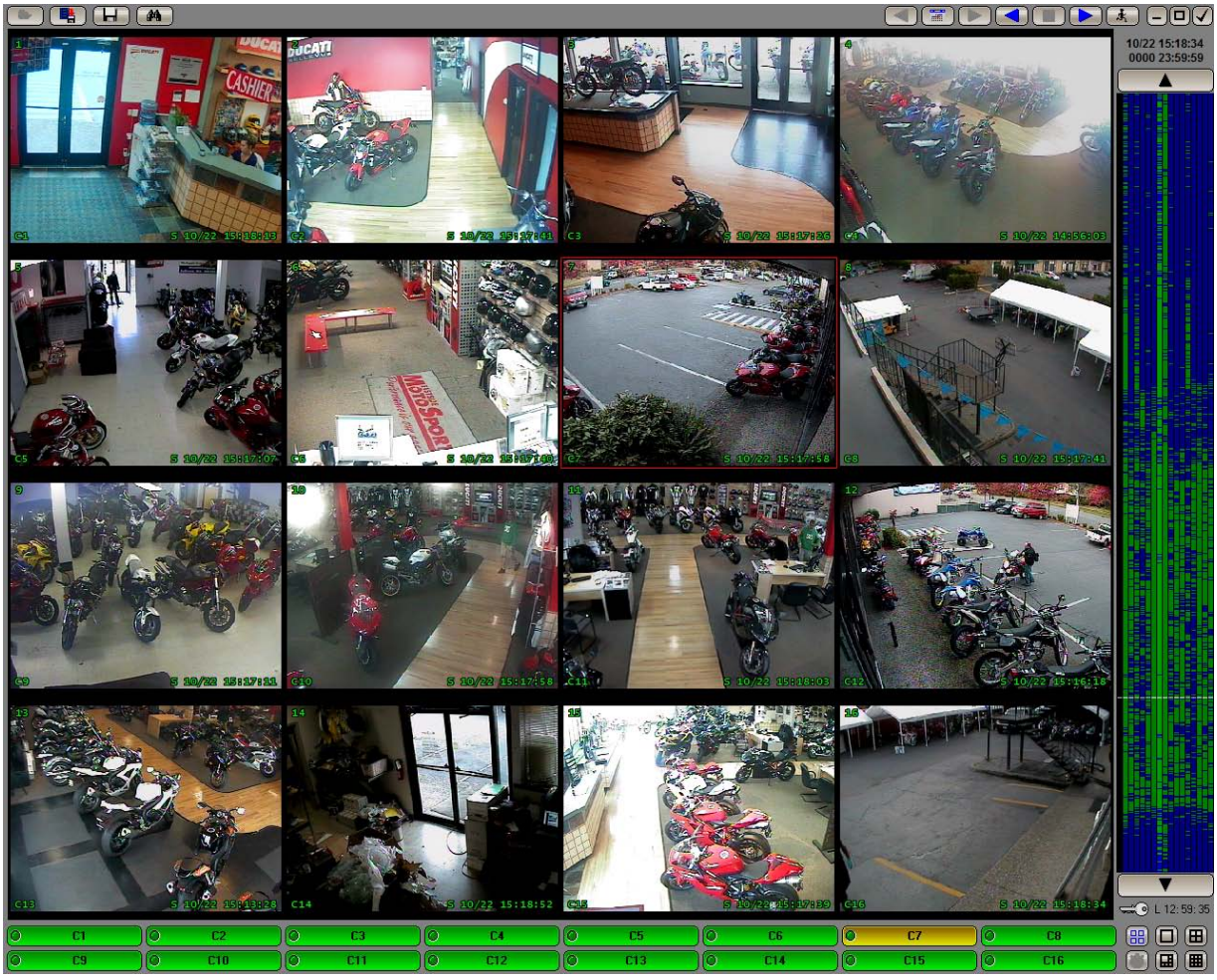
It allows you to view recorded video footage and frame by frame in an extremely fast, user-friendly and accurate way.

Click **"Video Archive"** to enter (calendar page icon – top left of your screen). 



You will be presented with a calendar page – choose the day(s) you want to explore and click **"Explore"**. (Note, you can select more than one day by dragging over several days)

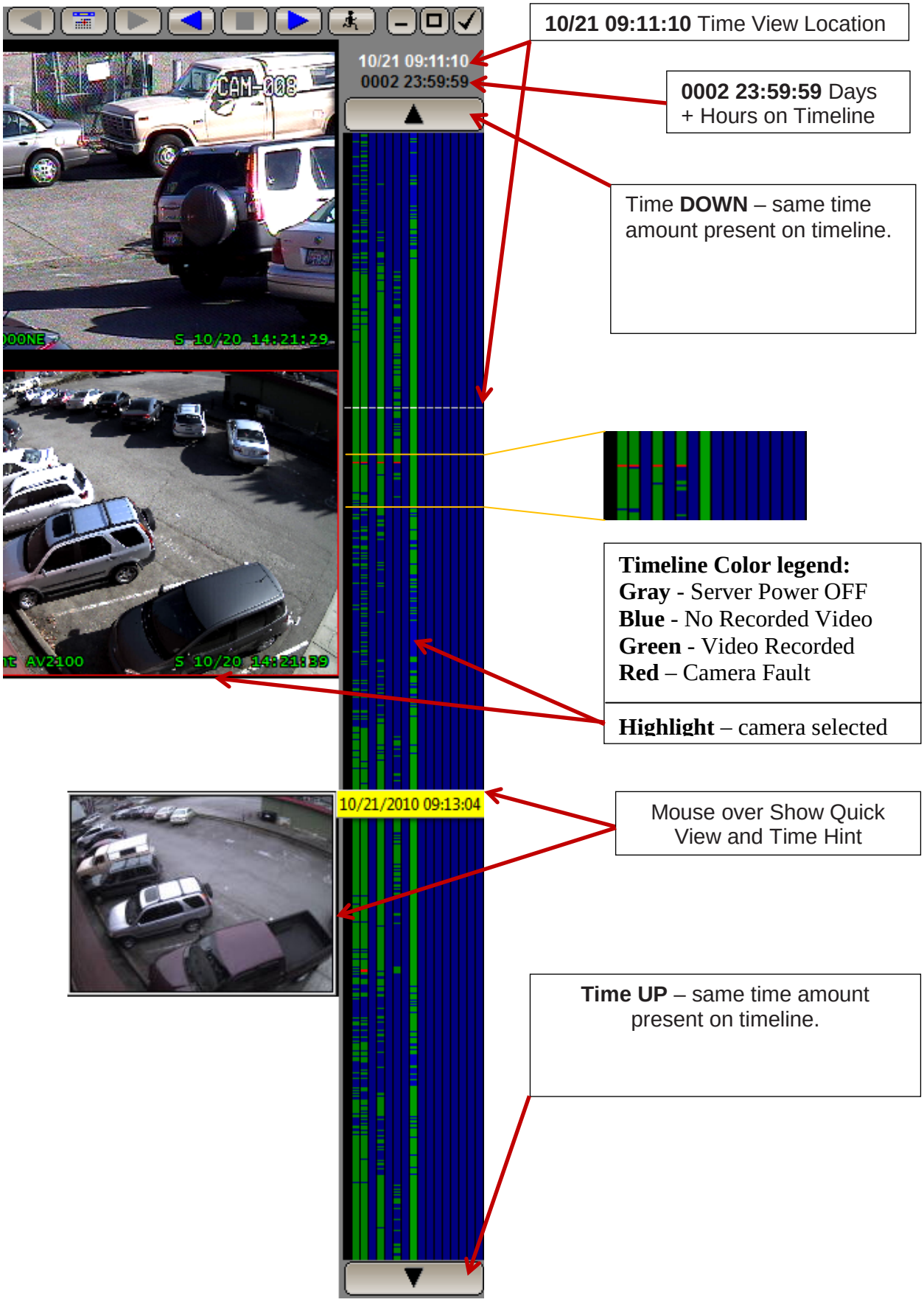
The S-VIDIA™ will now load the database for the 24 hr. period (provided only one day was chosen). You will be presented with the day's recordings displayed in a motion-over-time line-graph display.



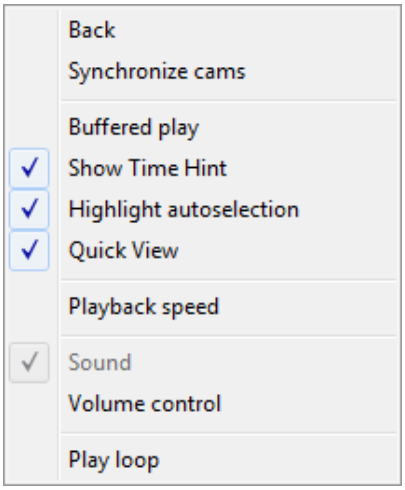
Video Archive Search and Playback screen have the following capabilities:

3.1 TimeLine
3.2 Forward Playback at Variable Speed
3.3 Reverse Playback
3.4 Stop
3.5 Frame by Frame Playback with using Mouse wheel
3.6 Multi-Camera Synchronized Playback Including Your Preset Layouts
3.7 Save Any Selected Part of the Still Image in JPEG Format
3.8 Open Archived Fragment (Video Clip)
3.9 Smart Motion Search
3.10 The command menu for the video archive
3.11 Zooming and Enhancement
3.12 Print
3.13 Save Video Fragment (Archiving an Incident – Video Clip)
3.14 Bookmark
3.15 Scheduler
3.16 Delta statistic analyzer

3.1 Timeline


10/21 09:11:10 Time View Location
0002 23:59:59 Days + Hours on Timeline
Time DOWN – same time amount present on timeline.
Timeline Color legend:
Gray - Server Power OFF
Blue - No Recorded Video
Green - Video Recorded
Red – Camera Fault
Highlight – camera selected
Mouse over Show Quick View and Time Hint
Time UP – same time amount present on timeline.
10/21 09:11:10
0002 23:59:59
10/21/2010 09:13:04

3.1.1 Timeline Menu



Back

Synchronize cams

Buffered play

Show Time Hint

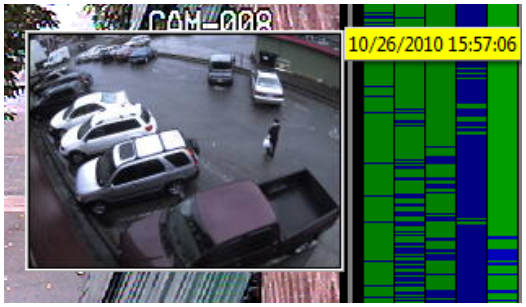
Highlight autoselection

Quick View

Show Time Hint

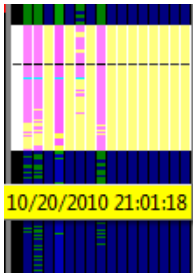
Hover your mouse over the time bar and a yellow time/date tag will appear
You can instantly go to any time of the day by simply clicking on the time bar

Quick View



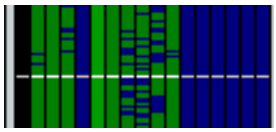
While hovering your mouse over time bar, a small 1FPS preview will be displayed for selecved camera.

Zoom on Timeline



You may “zoom in” on the time by dragging vertically on a section of time. You can zoom in as far as you can see each individual recorded frame as a green line.

Synchronize cams



This line synchronizes the playback of all cameras in your current display layout. It also moves up or down the time bar as you play forwards/backwards. Playback display is synchronized to last recorded frame from selected time. Click on the time bar to **Synchronize** all displayed cameras.

3.2 Forward Playback at Variable Speed

Once you have the time you need you can click the **"Play"** button

To play video at maximum speed, click the **"Run"** button

While playing video, right-click the time bar and select **"Playback Speed"**.
This will bring up a tiny slider bar with which you can adjust the speed.

While playing back, right-click the time line and select **"Playback Speed"**. This will bring up a tiny slider bar with which you can adjust the speed.

3.3 Reverse Playback

Same as forward playback but only at a default speed (slightly slower than real time)
(Buffered play is recommended for reverse playback, right lick on time bar and select buffered play)

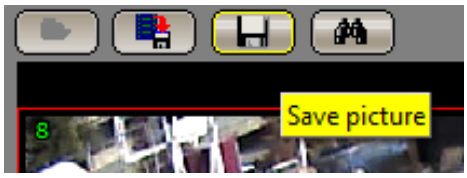
3.4 Stop

To stop/freeze the video at any time, click the **"Stop"** button

3.5 Frame-by-Frame Playback via Mouse wheel

To play video Frame-by-Frame simply scrolls your mouse wheel back and forth. This can be done either when video is stopped or during playback (forward or reverse). On keyboard shortcut ↑↓

3.6 Save Any Selected Part of the Still Image in JPEG Format

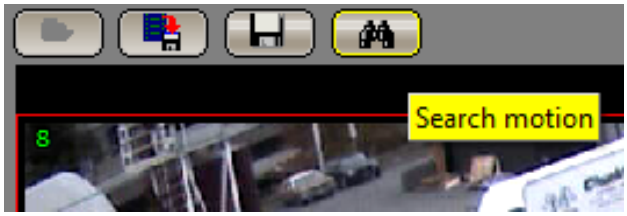


Click the **"Save Picture"** button

Drag mouse diagonally across the part (or whole) of the picture that you wish to save. As soon as you save this picture, the S-VIDIA™ Video Client Software creates this new image with its very own time/date stamp and a digital signature for authenticity.

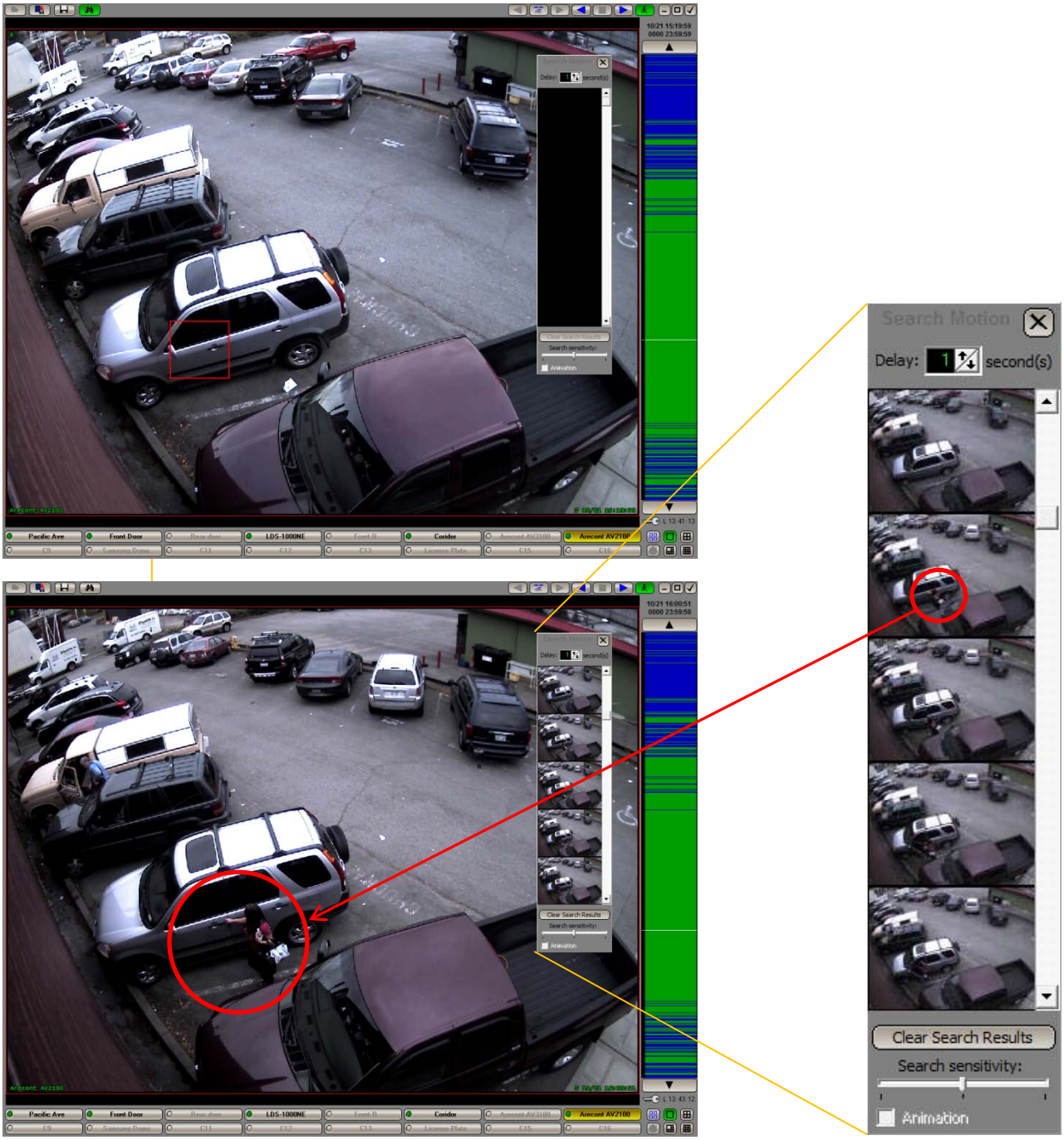
3.7 Smart Motion Search

Use the timeline (see 3.1) to navigate to the time where you wish to begin looking for an incident.



Click the **"Search Motion"** button, the Search Motion thumbnail window will appear.
You can drag this out of the way if necessary.

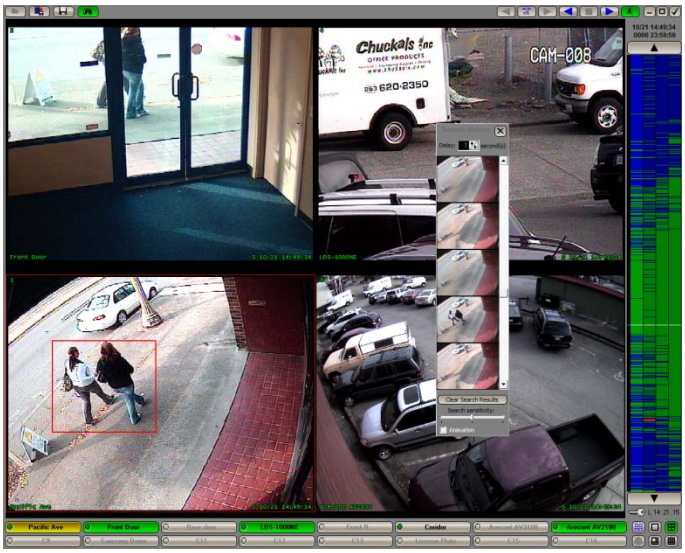
Click and Drag diagonally across the area in question (e.g. the stolen item). As soon as you release the mouse button, the S-VIDIA™ Video Client Software will search for any motion in that part of the image.
Every motion event will appear as clickable thumbnail image.

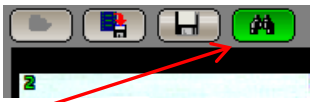


Search Motion thumbnail window

You can scroll through these thumbnails like a “movie strip” with your mouse roller to review them.
When you see a thumbnail of interest, click on it and the playback will immediately “jump” to that event. You can now over your mouse away from the thumbnail strip, back over your image and use your mouse roller for frame-by-frame playback to investigate this motion event.
If this event is of no further interest you can look for other thumbnails – usually the first thumbnail which shows the item as missing, or someone’s hand on the item.

You can make search on multi camera screen. When you see a thumbnail of interest, click on it and the playback will immediately and S-VIDIA™ Client Software will synchronize by time all cameras.

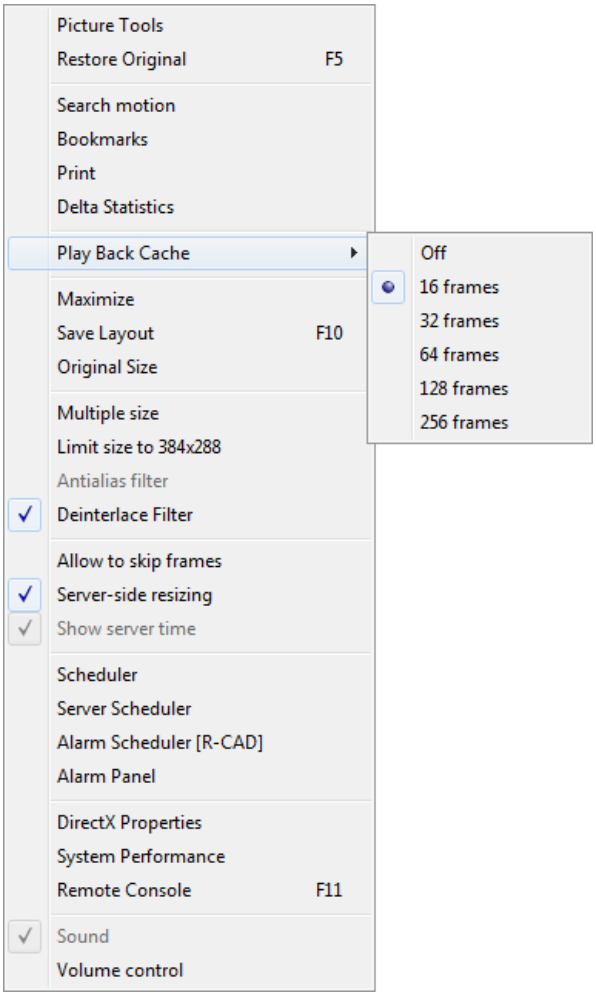




You can make search by next motion, just turn off **Search Motion thumbnail window**, keep **search** button on.
When motion will be found all cameras immediately synchronize to the same time.

3.11 The command menu for the video archive

The command menu for the video archive can be called up by making a right click with the mouse:



Picture Tools call up for Picture Tools window

Restore Original turns back to the original frame

Search motion call up for search motion window

Bookmarks call up for bookmarks window

Print Print picture whole frame

Delta statistics call up for delta statistic window. Help adjust delta and motion sensitivity, increase storage space. p**3.16**

Play Back Cache cache size (i.e. memory space for frames memorizing) for backward play in frames. This parameter requires the installation of adequate volume of operational memory on the computer. For example, for 256 frames 200Mb of RAM are needed.

Maximize/Restore resize to fill the entire screen/restore usual size

Save Layout save current frames layout

Multiple sizes multiple size video data display from the camera (to increase playback speed)

Limit size to 384x288 reduce the display dimensions till 384 pixels horizontally and 288 pixels vertically (to increase playback speed S-VIDIA™ SV-Lite system)

Original Size

Antialias filter for increase the quality of image display

Deinterlace filter

Allow skip frames

Server-side resizing

Show server time Switch local time to server time

Scheduler customization for alarming capabilities (Client side)

Server Scheduler customization for recording, alarming and maintenance capabilities (Server side)

Alarm Scheduler [R-CAD] Look R-CAD Setup manual (Pro Series and UP)

Alarm Panel Look R-CAD Setup manual

DirectX Properties

System Performance

Remote Console

Sound

Volume Control

3.12 Picture Tools (Zoom and Enhancement)

Restore Original turns back to the original frame

De-interlace (odd) video) choose odd half frame (for 640x480 interlace

De-interlace (even) video) choose odd even frame (for 640x480 interlace

Merge fields interlace video) merge odd and even halves (for 640x480

Antialias filter antialias filter for increase the quality of image display (best for 640x240 resolution)

If you need to take a closer look at a part of a still (stopped) image, you can right click on the image and select **"Picture Tools"**

Choose the **"Zoom"** button of the **"Picture Tools"** menu, and then drag diagonally over the section of the image you wish to zoom into.

3.13 Print

To print a frame, right click on the video display and select print from the drop down menu. The default windows dialog will be displayed prompting you to select a printer and print.

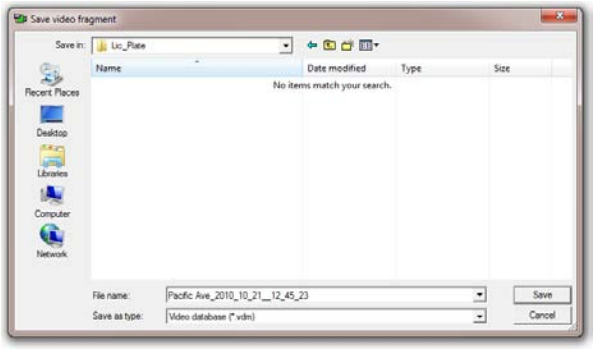
3.7 Save Video Fragment (Archiving an Incident - Video Clip)

Save Video Fragment with in your current camera display layout (or single camera view) you can select a section of time (see 3.1).

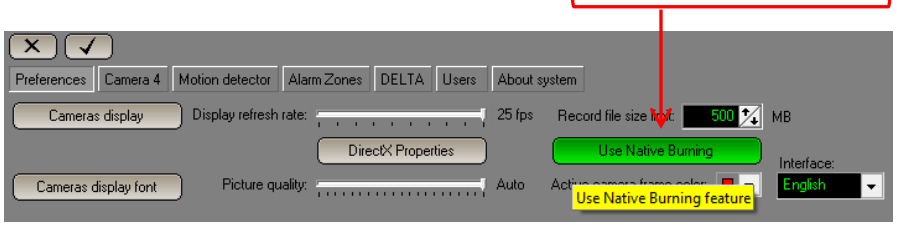
This section of time (video fragment) will be exported into a separate video database when the **"Save Video Fragment"** click "**Yes**" button.
This video fragment can now be saved to HDD, CD, DVD or different media for evidence and archiving purposes.

The following dialog will be displayed

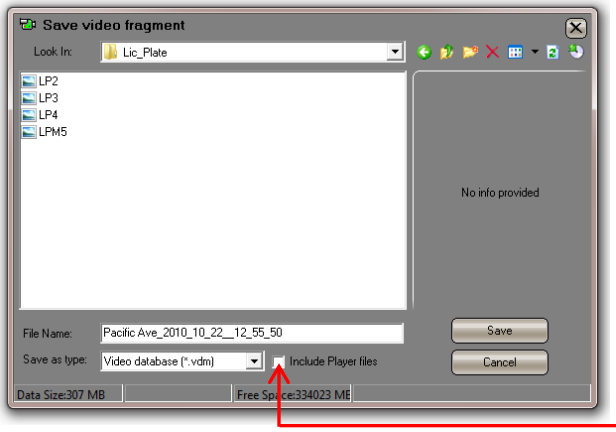
If **Native burning OFF** you can save video fragment without native VClient software.



If you need include Player on disc please turn on **Native Burning function**.

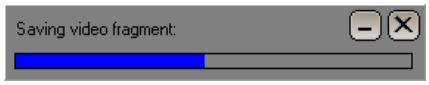


Select the destination folder and enter a file name for the video fragment. The default name will be the date and time at which the fragment begins.



To add Native S-VIDIA™ Client Software please Check box

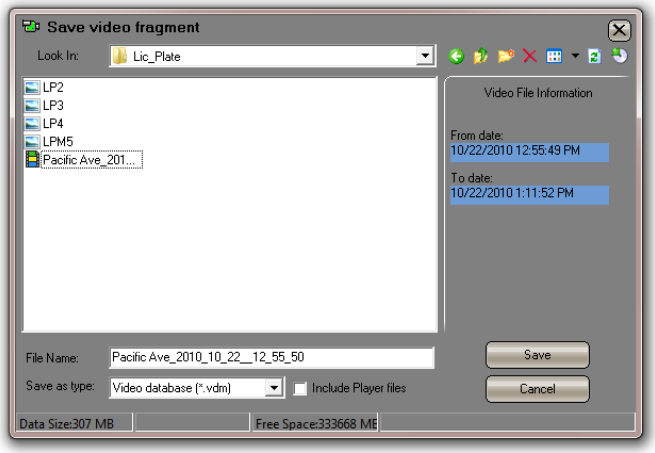
After selecting "**Save".** A progress bar window will be displayed to show the data is being saved. This can take anywhere from a couple seconds, to a couple minutes, depending on the size of the fragment being saved.



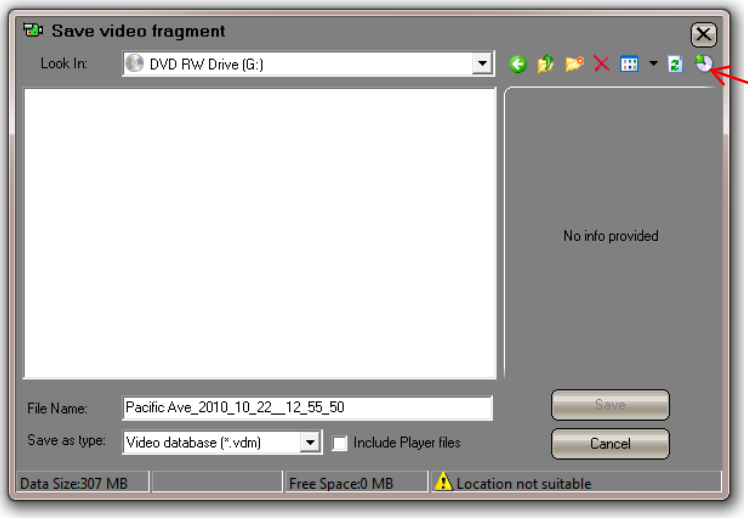
Once the fragment is saved, a dialog box will appear to confirm the completion.

After saving you can check video file information.

You can use S-VIDIA™ BurnExtension software for recording CD or DVD. This feature is extremely useful, as you will not have to transfer any files to any other software and install S-VIDIA™ Client software to other computer. Disk will be in auto play mode and S-VIDIA™ Client. If this media is inserted into a computer which does not have S-VIDIA™ Client installed. It will automatically launch a limited version of the Client software from the media.



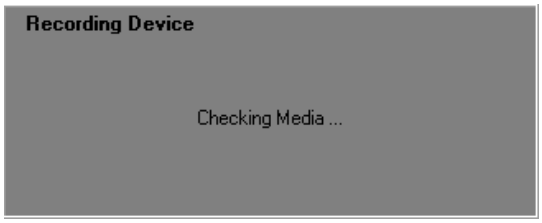
Click **on Write to CD**



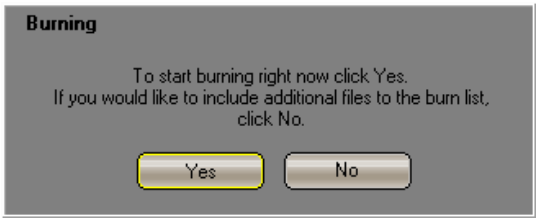
S-VIDIA™ BurnExtension software will calibrate itself and the CD/DVD burner to start the process.

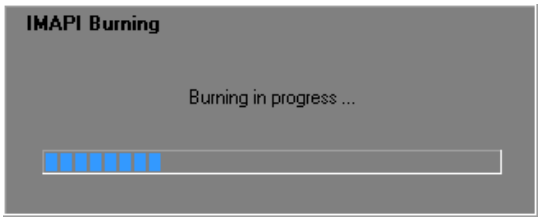
If there is no Media present in the burner or media is faulty, a dialog will appear asking you to insert empty media. Make sure that the media is clean and unscratched.

Check or place media in the tray and click Retry.



The following dialog boxes will guide you through the burning process.





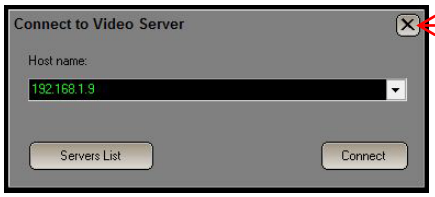
This video fragment can now be opened on any PC with the S-VIDIA™ Video Client Software

3.9 Open Archived Fragment (Video Fragment)

This video fragment can now be opened on PC with the S-VIDIA™ Video Client Software is installed.

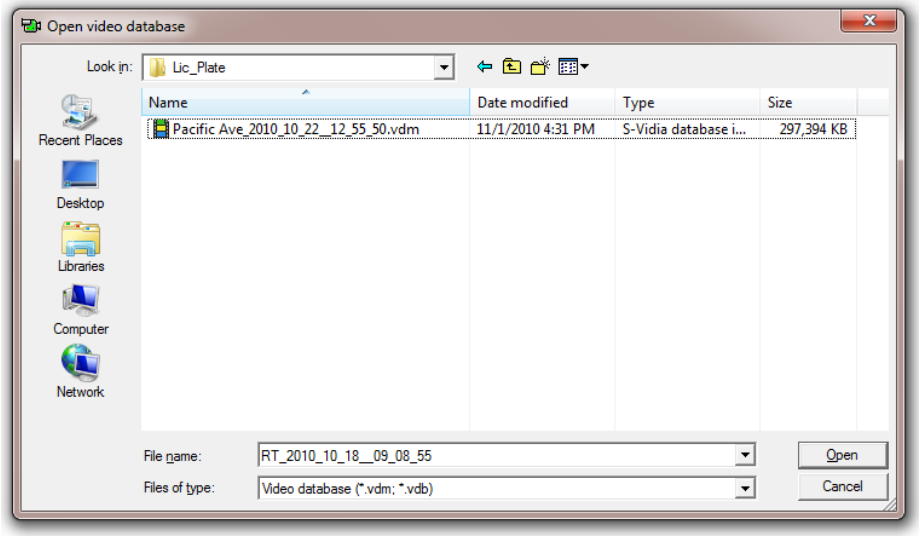
Open S-VIDIA™ VClient.

Cancel **Connect to Video Server**



Open video database.

Open video database file.

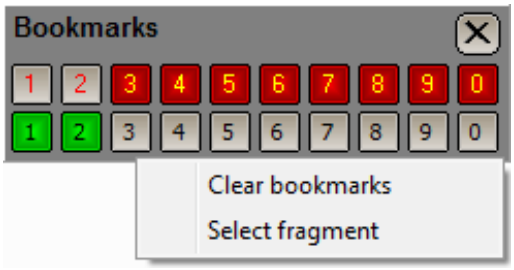


3.14 Bookmarks

Once the bookmarks have been selected, they become a floating window, which will re-appear if you re-enter the Video Explorer.

To save a book mark all that you need to do is to set the video fragment to the position on time line you wish to remember. Then you just need to click one of the Red numbers 1 – 0, **for Save Fragment**.
This will then highlight the Green to a light shade as below shows and ready for playback.

The Select fragment option is used for selecting time interval (on graphical scale) between two events previously saved into bookmarks. This is convenient way for defining and then saving fragments of video database. The procedure may consist of the following steps:



1. Find the start of event through play of search motion function.

2. Save it for example into the first bookmark.

3. Find the end of event through play of search motion function.

4. Save it for example into the second bookmark.

5. Click right button and choose Select Fragment option.

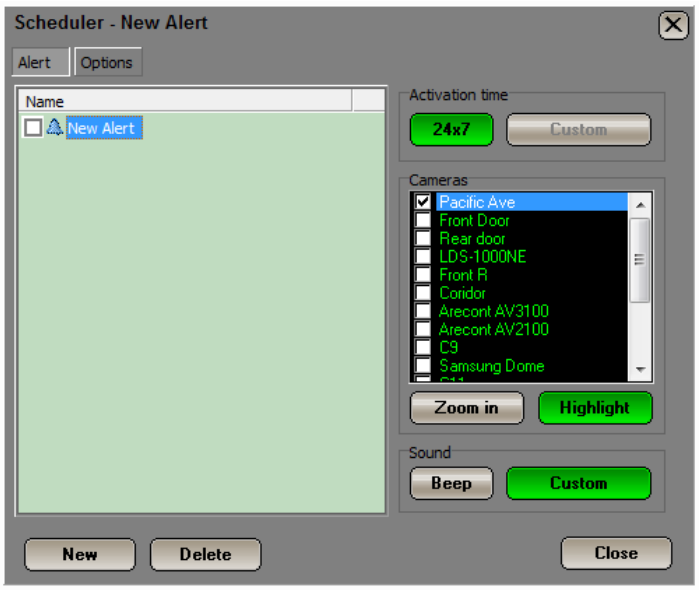
6. Then point to start of event (Select fragment Start :) in our example this is the first bookmark.

7. Point to end of event (Select fragment Stop :) in our example it is the second bookmark.

As result on the graphical bar the will be shown the entire event. Then using the “Save video fragment” function one can easily save exactly defined fragment into file.

3.15 Scheduler

The scheduler functionality supposes to bring a flexibility and user-level customization for alarming capabilities.
The all scheduler operations are based on tasks. Each task from system point of view is processed independently from the others and do not affect them.

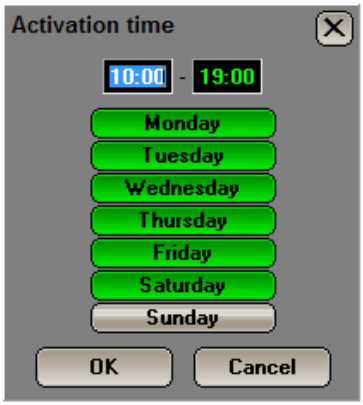


To operate on tasks each scheduler dialog has action-buttons. **New** is used to create new task and **Delete** removes existing one.

NOTE: The Scheduler interface has no cancel operation, thus any entered modifications are automatically saved.

Alerts

Alerts notify remote users about motion detection events arising in one or more cameras. The alert tasks have the following parameters:

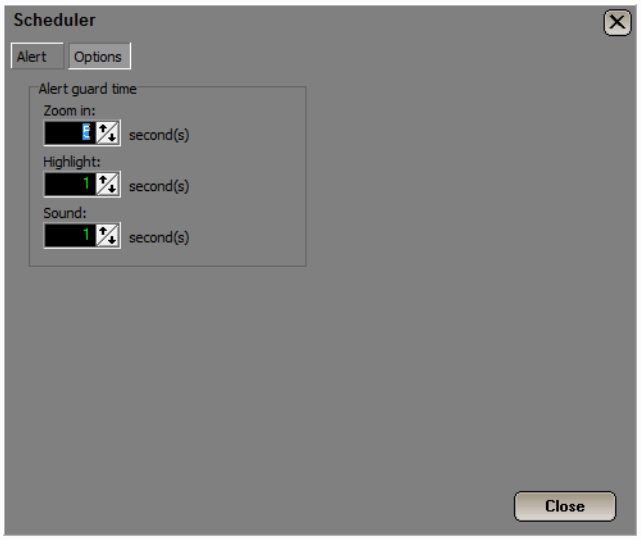


Activation time
Option defines the time schedule for a task. The system will execute the task in the defined periods only. This setting is available in two modes: **24x7** and **Custom**. The list of cameras, which trigger this alarm event when motion is detected

24x7
Means that 24 hours a day and 7 days of week this task will be active (i.e. enabled).

Custom mode
One can define desired period of time and days schedule. To have an access to this dialog one should disable at first “24x7” setting.

Options
Section contains various Scheduler settings:



Zoom in
Setting gives possibility to maximize an alarming camera on the whole screen.

Highlight
Feature intensifies an alarming camera by color border in case it is displayed on the screen or by changing color of a corresponding camera-state button.

Beep
In the Sound options one can choose **Beep** or **Custom** sound file (**Custom** dialog-button) that will be sound if motion is detected. To have an access to the **Custom** sound file dialog box one should disable the **Beep** option at first.

Alert guard time

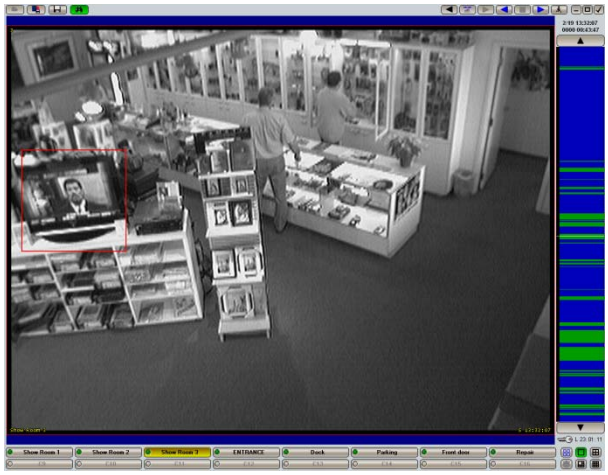
Values are used to limit repeated notifications of continuously emergent tasks. These values define a time interval in seconds in which the only notification is allowed.

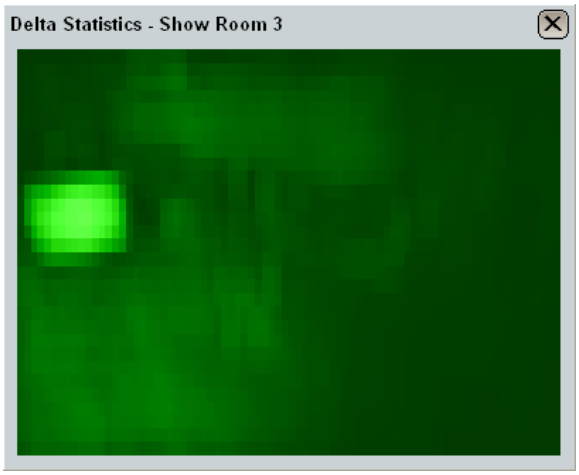
Zoom in, **Highlight** and **Sound** values are relevant to the **Alert** tasks only. The guard time intervals are applied to each existing task autonomously and have no correlation between each other.

3.16 Delta statistic analyzer (For System Administrator or advanced users only!)

(Version Server 5.0.11. 296, Client 5.0.11.130 and newer)

Helps to adjust delta and motion sensitivity and increase storage space.
For example, helps to find blinking lights, reflections, and motion objects that trigger unnecessary recording, etc.
To access this feature you must be in video explorer mode. Highlight the section of data in the archive, which you need to analyze. Then Right click on the camera, which you would like to analyze and select delta statistics. The system will perform an analysis and display it in a window. What you see below is the change in pixels represented by shades of green. The lighter the green, the more change in pixels in the selected time frame.



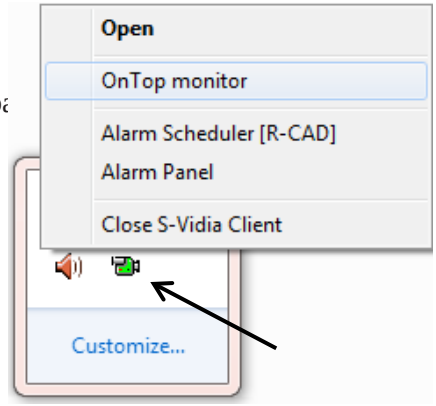


Now you can compare the delta statistics to your motion detection window and make proper adjustments to minimize unnecessary recording.

4. On Top Monitor

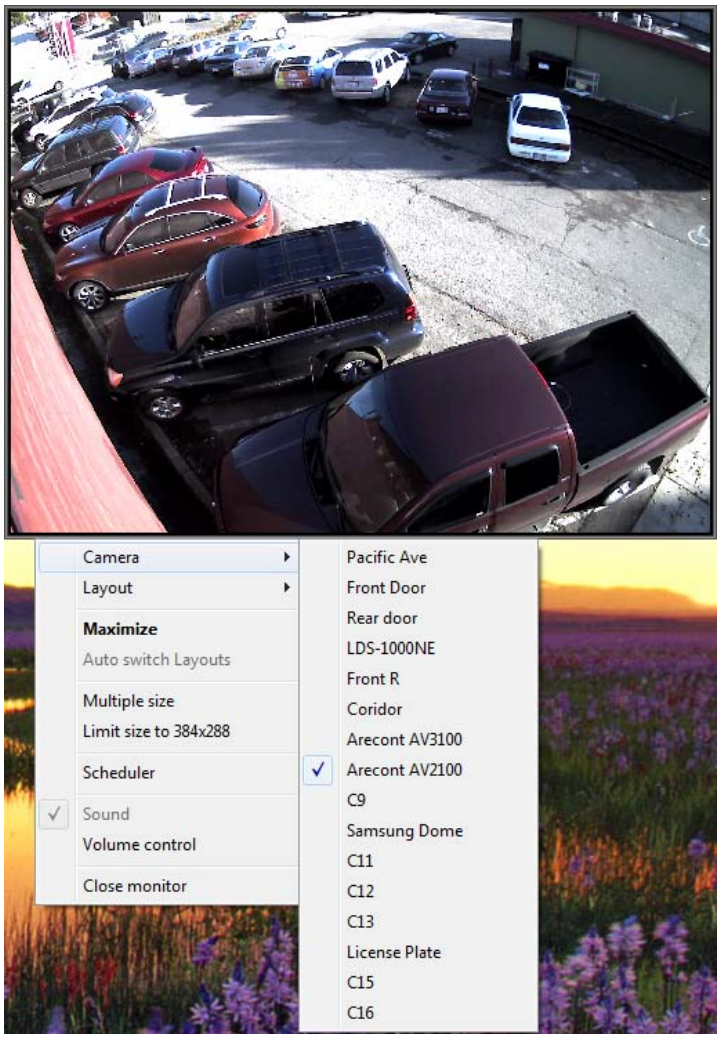
The S-VIDIA™ Video Server and Client Software **modules both feature the "On Top Monitor" function. This is useful for people wanting to monitor a specific camera (or even a layout of cameras) on their desktop while doing other work on that Server/Client PC.**

To access this feature:
Minimize the S-VIDIA™ Video Client Software
Right-click the S-VIDIA™ Video Client tray icon on your taskba
Select the **"On Top Monitor"**



Using the "On Top Monitor"

Right-click the moveable and re-sizeable block to access its options.
When only one camera is viewed, you can use your mouse-wheel to switch between your cameras. Alternatively, hover your mouse over the 3rd or 4th Quarter (bottom left or bottom right) of the image here your mouse will change into a triangle-arrow (◂□▸) and when clicked it will switch to the next/previous camera.



5. S-VIDIA™ AUTHENTICATION SOFTWARE

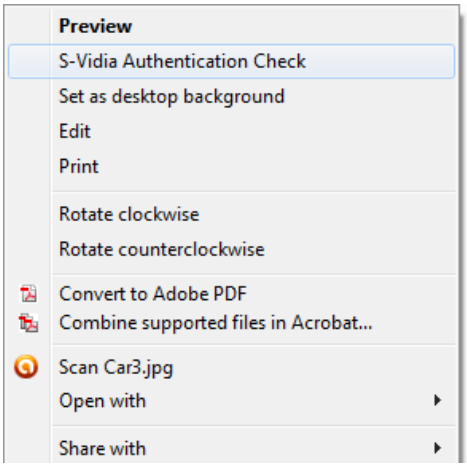
The S-VIDIA™ **records the video footage onto a secure proprietary database. This means The** S-VIDIA™ **records the video footage onto a secure proprietary database. This means that nobody can edit the video frames without damaging the entire database and rendering it useless.**
But when you save a single frame as a JPEG image, anybody can edit it with a variety of programs.
The S-VIDIA™ Video **however does two things when you save a file in JPEG format:**

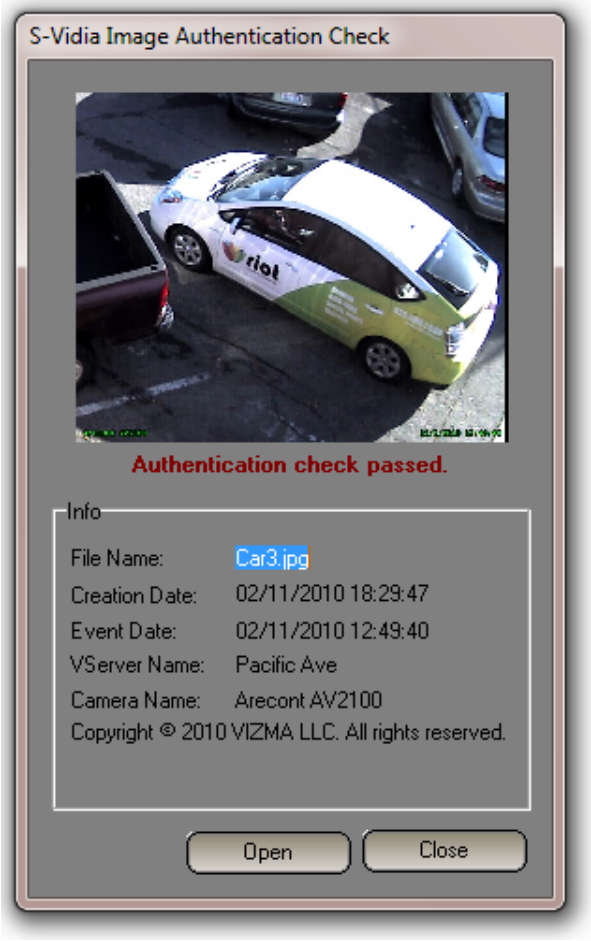
1. **The Time/Date stamp and the Camera's caption is overlaid onto the image at the bottom.**
2. **The file is given an encrypted digital signature containing the following information:**

Event Date/Time
File Creation Date/Time
Unique Server Name
Unique Camera Caption
Copyright Information

This digital signature is discarded if any part (even one single pixel) is changed, altered or corrupted.
Any computer with either the S-VIDIA™ Video Server or Client installed on it, will have the functionality for you to right-click on an image in Windows Explorer this will give you the **"S-VIDIA Authentication Check"**

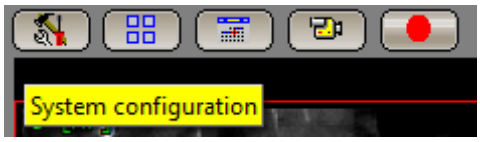
Menu Item". Clicking it will open the following dialog box for authentic images:



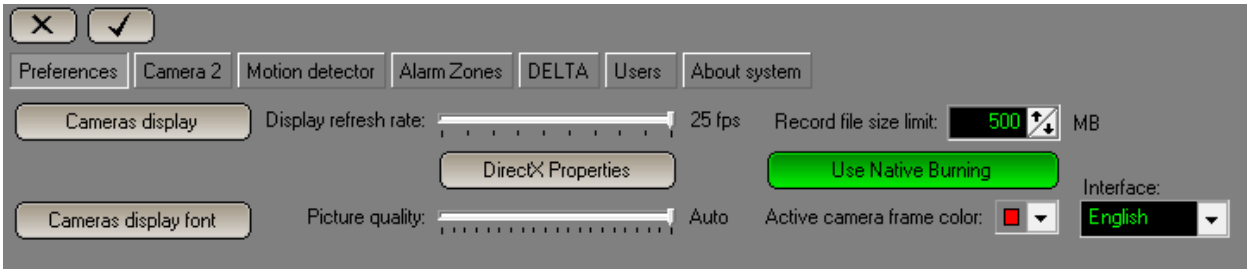


And for corrupted or edited images:

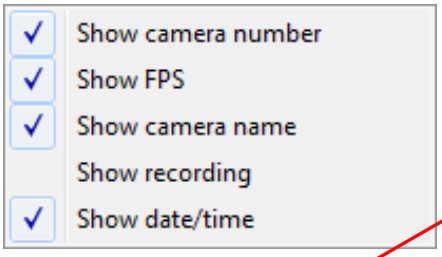
6. System configuration (For System Administrator only!)



The preferences panel allows you to set up settings for the S-VIDIA™ Video Server**. Most of these settings are self-explanatory; here is a list of functions:**



6.0.1 Cameras display



Show camera number
Camera number caption display (on/off) toggle.
Show FPS

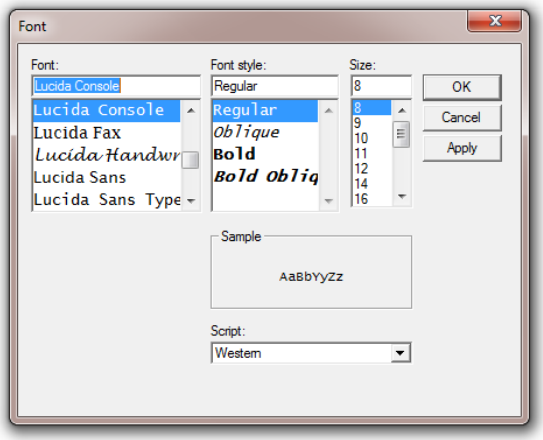
Show recording

Show camera name

Show date/time

6.0.2 Cameras display font

Change the font of the display captions – windows menu.



6.0.3 Display refresh rate
Display refresh rate in (FPS). It is suggested to keep this on Auto

6.0.4 DirectX Properties
Anti-alias filter for increase the quality of image display and print of picture

6.0.5 Use Native Burning (P.3.7)
Enables the client software to record saved video fragments to DVD with plug and play software for viewing the video fragment with all playback and smart search functions. If feature is disabled, video fragments can only be saved onto the hard drive.

6.0.6 Picture quality
Control video stream. LAN from 1 to 20 On WAN network keeps this on Auto

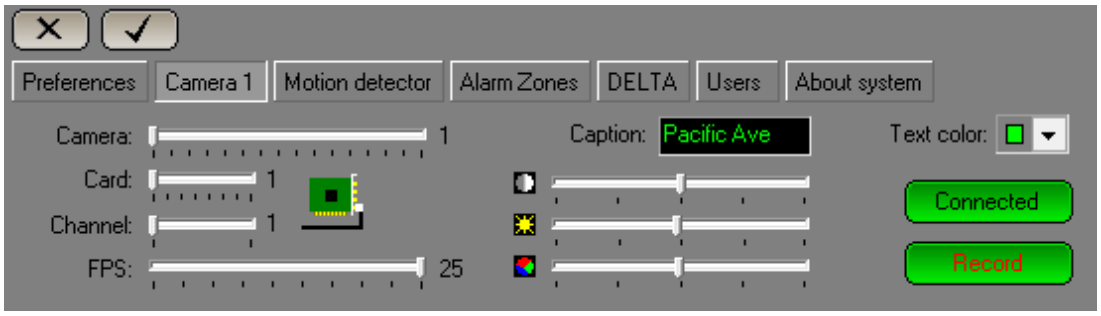
6.0.7 Active camera frame color
Set the color of the active (selected) camera frame.

Once you have completed you need to save your settings and exit the "**System Configuration**" 

If you stay in "**System Configuration**" for more changing click on safe icon. 

6.1 Camera

The camera panel allows you to set up settings for the individual cameras.



Camera
This is the logical camera number (software video processing channel). Recording, playback, display and other system procedures refer to this number. All of the settings on this panel mentioned below are applied to the camera number set on this Camera slide.

Card
Specifies the number of the physical capture card.

Channel
Specifies the number of the physical video input.

FPS
Specifies the maximum camera frame rate. Limiting non-priority cameras' frame rates allow the other, more important cameras, to have higher frame rates.

Caption
An identifying name can be assigned to each individual camera. This will also help to make your video evidence more credible as this name is added in the Digital Signature when exporting JPEG images.

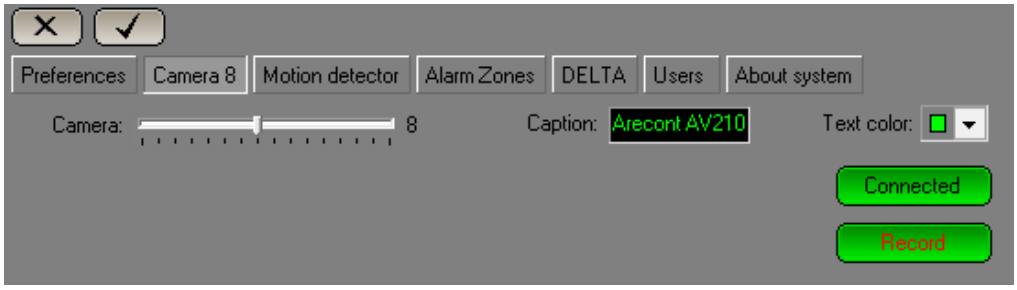
Contrast/Brightness/Saturation
These settings allow you to improve video signals by adjusting contrast, brightness and saturation (color cameras only). These settings influence the display and the recording.

Text Color
Change the text color of the display captions of that specific camera.

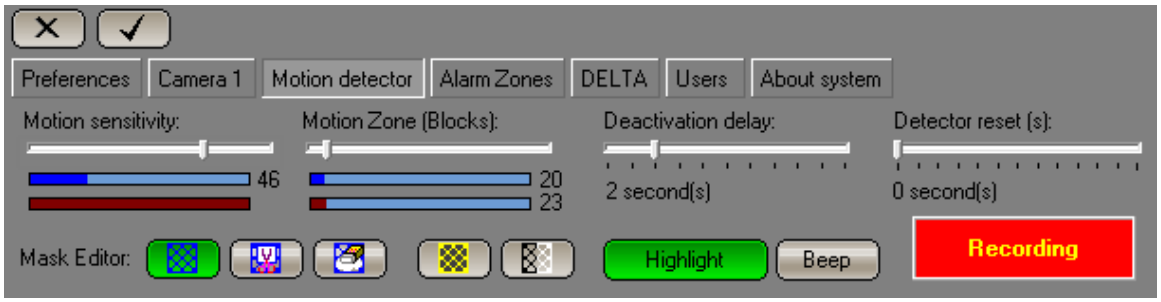
Connected
Enables or disables the camera. Note: if you enable void camera channels, you will have blank frames with the "**FAULT**" warning displayed.

Record
Enables - disables camera recording.

If camera is Mega Pixel or IP you will a different see panel. All IP adjustments are done through R-CAD.



6.2 Motion Detection



The Motion detector panel allows you to set up very advanced and customizable settings specific to each camera and its picture/environment.

Motion sensitivity slide
Defines the motion detection threshold sensitivity. The threshold is calculated in every detection grid block (8 x 8 pixels).

Motion zone (blocks) slide
Defines the minimum number of active (pink) blocks required before recording.

Deactivation delay slide
Defines the time during which the recording continues after the motion event has ceased.

Highlight button
Highlights the activated (motion) blocks. Helpful for configuration of all motion detection settings.

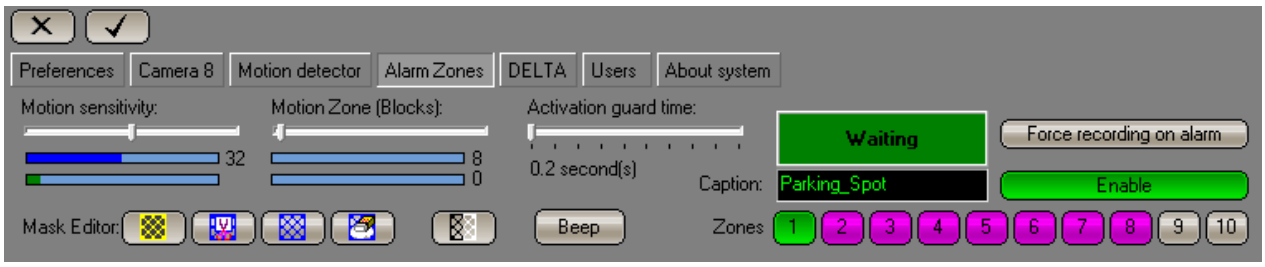
Beep button
Enables a (beep) sound notification when "**Recording"** would be triggered. This simply serves to help you configure the motion detection.

Detector Reset slide
This setting, when enabled, allows you to set the motion detector to ignore slow moving motion, e.g.: shadows from the sun, etc. We recommend that this setting is either left on 'zero'
or on 'very low'.
Mask Editor buttons group

Motion areas can be excluded from the motion detection by the application (drawing) of a mask. A mask is displayed as a "net" of the selected color. The motion detector ignores the areas covered by the net.
To set a mask, click on the **"Set Mask"** button of the mask Editor, then click-and-drag over areas where motion is to be ignored.
To clip masks, choose the **"Cut Mask"** button and mark zones for motion detection.
To remove the entire mask, click the **"Clear Mask"** button, and then click on the picture.
To invert the mask, use the **"Invert Mask"** button.
To change the mask's color, use the **"Change Mask Color"** button.

6.3 Alarm Zones

(For System Administrator or advanced users only!) Look R-CAD Setup manual (V0.4Beta)

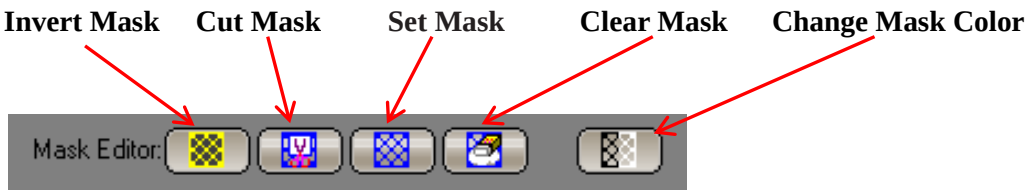


Motion sensitivity slide
Defines the motion detection threshold sensitivity. The threshold is calculated in every detection grid block (8 x 8 pixels).

Activation guard time
Defines the time during which the active hi level continues after the motion in alarm zone has triggered.

Beep button
Enables a (beep) sound notification when "**alarm zone"** would be triggered. This simply serves to help you configure the motion sensitivity.

Mask Editor buttons group
Alarm Zones can be excluded from the motion detection by the application (drawing) of a mask. A mask is displayed as a "net" of the selected color. The motion detector ignores the areas covered by the net.



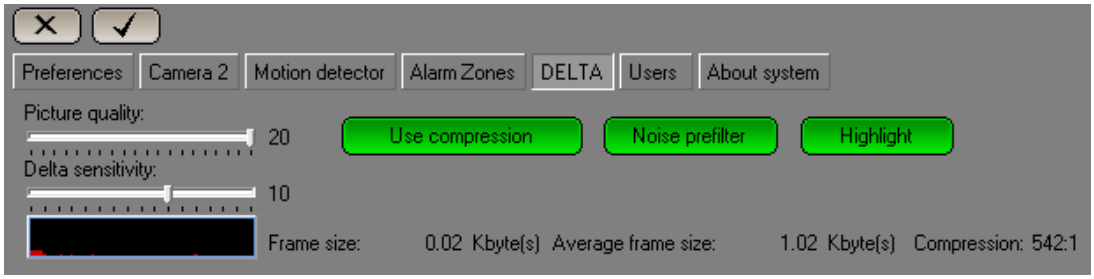
Name
An identifying name can be assigned to each individual alarm zone.

Zones
Alarm areas can be created by the application (clearing) of a mask. A mask is displayed as a "net" of the selected color. The motion detector ignores the areas covered by the net.

Force recording on alarm
Start recording if zone activate. (Active only with Enterprise license)

Enabled
On - off Alarm Zones function

6.4 Delta



The Delta panel allows you to set up our proprietary S-VIDIA™ compression technology. Settings are camera specific and affect picture quality and frame size (storage size).

Picture quality slide
Specifies the camera's picture quality based on the compression intensity. The higher the picture quality, the more storage space it requires.

Use compression button
Enables - disables the video compression. Recommended: **enabled**.

Noise pre-filter button
Enables/disables noise pre-filter before delta calculation. This option has no direct influence on picture quality; it is applied to the compression algorithm only. Disabling this feature will increase sharpness detection. By default this option is enabled.

Highlight button
Highlights the blocks with pixel-changes that are detected based on the delta sensitivity setting.
Delta sensitivity slide
Determines the sensitivity of the delta algorithm based on pixel change. The lower the sensitivity – the higher the compression rate, the more the "squaring pattern" of delta blocks becomes noticeable. For delta setup convenience, average frame sizes and compression ratios are displayed.

6.5 Users

The Users panel allows you to add, remove and configure the users and their individual access rights to the S-VIDIA™ Video Security system. These user settings will apply to Server and Client logon.
Every user has a username and a password. The password authentication process is based on the D.E.S. encryption algorithm and is therefore highly secure.

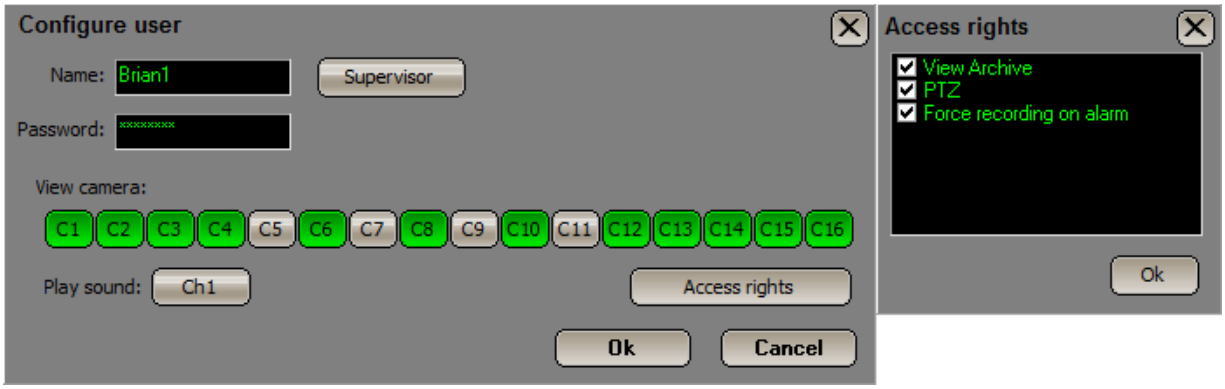
Privileges include:

Type of access (Supervisor)

The system has two types of access: supervisor and non-supervisor.
A supervisor has full control of all system functions provided he has physical access to the S-VIDIA™ Server's console. A non-supervisor user is limited to viewing and play back capabilities of those cameras he/she has been given access to only.

Add user
This button allows you to register a new user and configure his/her access privileges.

Configure user



Live cameras viewing permission (View camera)
Live audio channel listening (Play sound)
Remote view Video Archive Playback permission (View Archive)
PTZ (control Pan, Tilt, Zoom cameras)
Force recording on alarm (S-VIDIA Multi Client™ function)

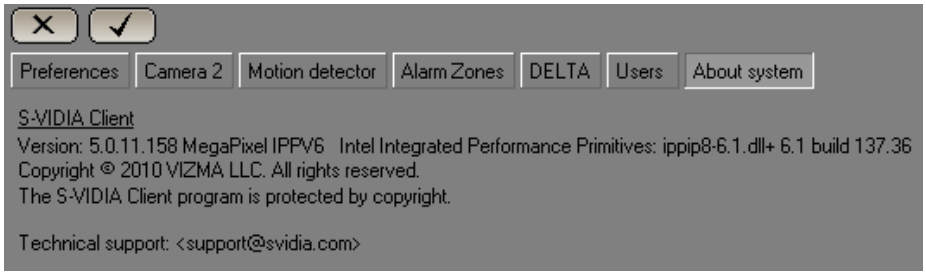
Delete User
This button deletes the selected user from the list of registered users completely

Registered users
This list shows currently registered (added) users.

Connected users
This is a list of users currently logged on to this S-VIDIA™ Server via the client software on a remote PC – over a TCP/IP Network.

Maximum connected users
Allow you to limit the maximum number of simultaneous users allowed to connect to the Server. Max is 16 users S-VIDIA Pro™ License and 32 users with S-VIDIA Enterprise™ License.

6.6 About System



Thank you for choosing the S-VIDIA™ Video Security System. We trust it serves you well as it has thousands of other users over the years.

If you have any problems or questions, please do not hesitate to contact us and we will endeavor to give you the best technical support available.

Respectfully Yours in Video Surveillance Technology
S-VIDIA™ Team

www.svidia.com

E-mail: support@svidia.com

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