

EXPAND YOUR CONCEPTS OF SECURITY



Remote DETEXI Client

VIEW VIDEO FROM ANY POINT ON THE NETWORK



The DETEXI Client is used to monitor and control live cameras / video servers, connect to the DETEXI NVR Control Center for the camera settings, recorded video and user credentials.

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Remote DETEXI Client

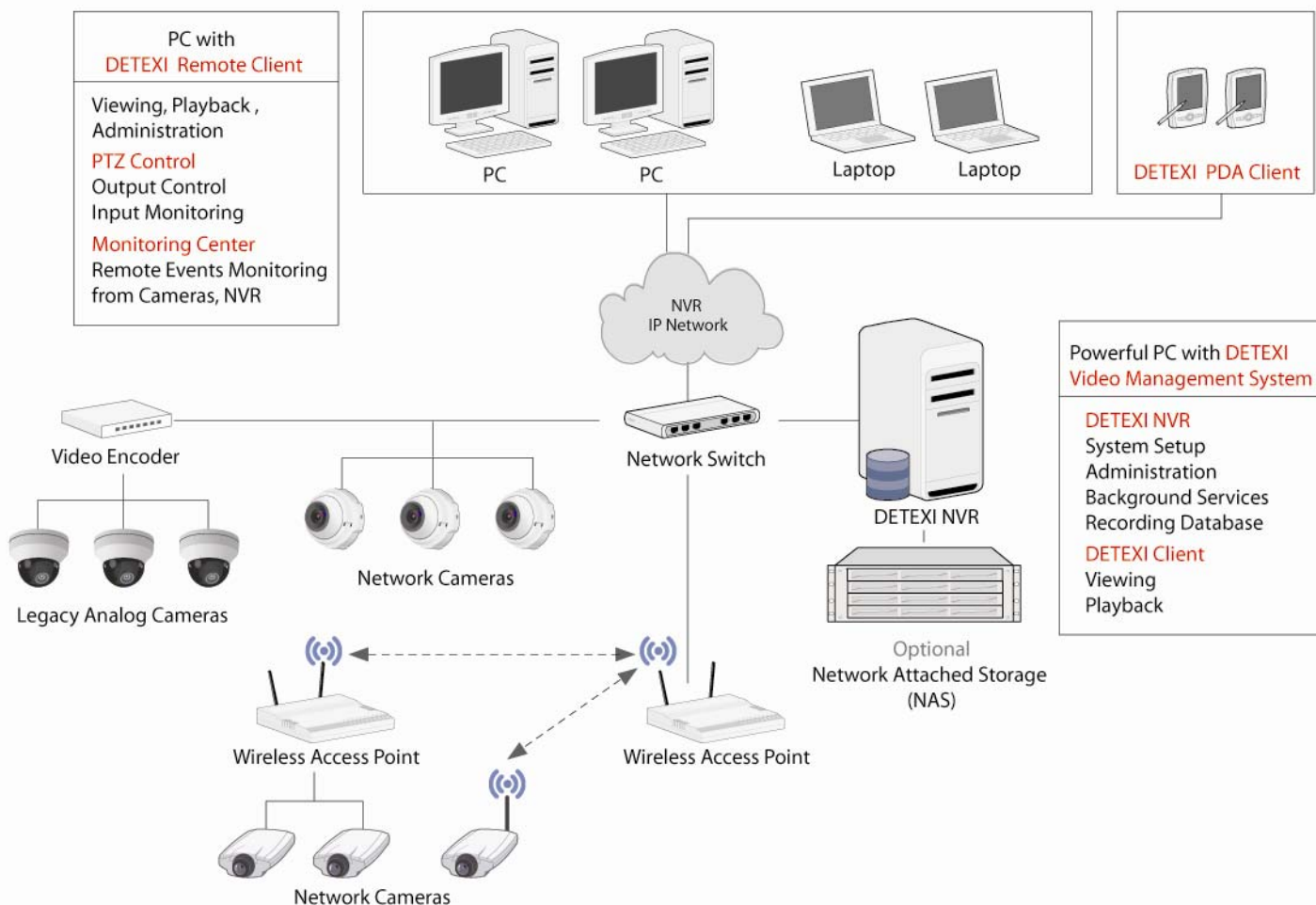


What is DETEXI?

The DETEXI Network Video Management system gives users the ability to monitor and record video and/or audio over an IP (Internet Protocol based) computer network such as a local area network (LAN) or the Internet. In a simple IP-surveillance system, this involves the use of a network camera (or an analog camera with a video encoder), a network switch, and PC with DETEXI software for viewing, managing and storing video.

DETEXI is an advanced client/server-based software that provides support for multiple, simultaneous users and thousands of cameras. DETEXI IP-Surveillance installation can be as simple or as sophisticated as your needs require. Cameras and licenses can be added one by one and the system hardware can be expanded to meet increased performance requirements.

DETEXI IP-Surveillance System Diagram



Viewing

One of the key functions of the DETEXI NVR is enabling the viewing of live and recorded video in efficient and user-friendly ways using the DETEXI Client and DETEXI Archive Viewer software. The NVR enables multiple users to view several different cameras at the same time and allows recordings to take place simultaneously. Additional features are multi-monitor viewing and mapping, which overlays camera icons that represent the locations of cameras on a map of a building or area.

Live Viewing

The DETEXI NVR provides users with the option of viewing images in different ways using the DETEXI Client — single and multi-camera live view or video pop-up on alarm; full screen, or camera sequence mode, which is a predefined "tour" that automatically displays live views, one after another, from a predefined list of cameras included in the tour.

NVR also allows controlling of PTZ and dome cameras via mouse that is controlled by the operator on the DETEXI Client, or it can be done automatically via predefined guard tours and sequences controlled by the NVR.

Multi-Streaming

Viewing or recording at full frame rate on all cameras at all times is more than what is required for most applications. Frame rates under normal conditions can be set lower — for example, one to four frames per second — to dramatically decrease storage requirements. In the event of an alarm — for example, if video motion detection or an external sensor is triggered — the recording frame rate can be increased automatically. It is also possible to send video with different frame rates, compression, and resolution to different recipients (*if camera supports*). This is called multi-streaming.

Local and Remote DETEXI Client

In the DETEXI network video management system, video can be viewed from any point on the network. Using the **DETEXI Client** part of the DETEXI software, multiple authorized users can access live or recorded video at any time and from any networked location.

There are two different installations of the DETEXI Client: **Local Client** for the system administrator and **Remote Client** for the system users.



Local DETEXI Client —

Installed automatically along with the DETEXI NVR is a useful system administrator tool for testing user configuration and basic functionality. It only connects to the local DETEXI NVR, does not require the NVR services to be running, and does **not require authentication** (*authentication features are disabled*).



Remote DETEXI Client —

Installed stand-alone on any PC, or/and included automatically with the DETEXI NVR installation enables connection to any **authorized** DETEXI NVR available anywhere on the Internet or corporate network for remote viewing and control. Requires NVR settings configuration and authentication.

Launch DETEXI Client

The DETEX system user interface — DETEXI Client — is developed with a focus on ease-of-use and intuitive handling with navigation tools providing quick access to cameras and recording in the system.



Launch Local DETEXI Client —

To launch Local DETEXI Client open **DETEXI** from **Start — All Programs** or click the program icon on your desktop.



Launch Remote DETEXI Client —

To launch Remote DETEXI Client open **Remote DETEXI Client** from **Start — All Programs** or click the program icon on your desktop.

Remote Client Authentication

Before Remote DETEXI Client can connect to a DETEXI NVR, the Authentication Server **must** be configured. The Authentication Server defines the TCP/IP settings the Remote Client should use to connect to one or more NVR Servers.

1. Login Prompt

1. Launch Remote DETEXI Client — the Login Prompt window appears (Fig 1). Since the Client is not yet aware of any server to authenticate with, authentication attempts at this time would fail.
2. Click **Setup** button to enter the Client **Setting**.



Fig 1. Remote DETEXI Client
(Login Prompt.)



- ✓ Authentication Server is one of underlying DETEXI NVR services. All services are visible and configurable in the **NVR Control Center — Monitor**.
- ✓ **[Authentication] Server** service, also known as the **CamServer**, authenticates remote users connected to the NVR through the Remote Client. It is also responsible for tracking statistics about the remote user's connections.
- ✓ Before live video can be viewed in the **DETEXI Client** network camera must be defined in the **NVR Control Center**.

2. Setup Authentication Server

1. In the **Setting** (Fig 2) under the **Authentication Server Setup** click **Servers Settings** button to open the **Central Servers List** panel to define the connection settings for all DETEXI NVRs the Client will connect to.

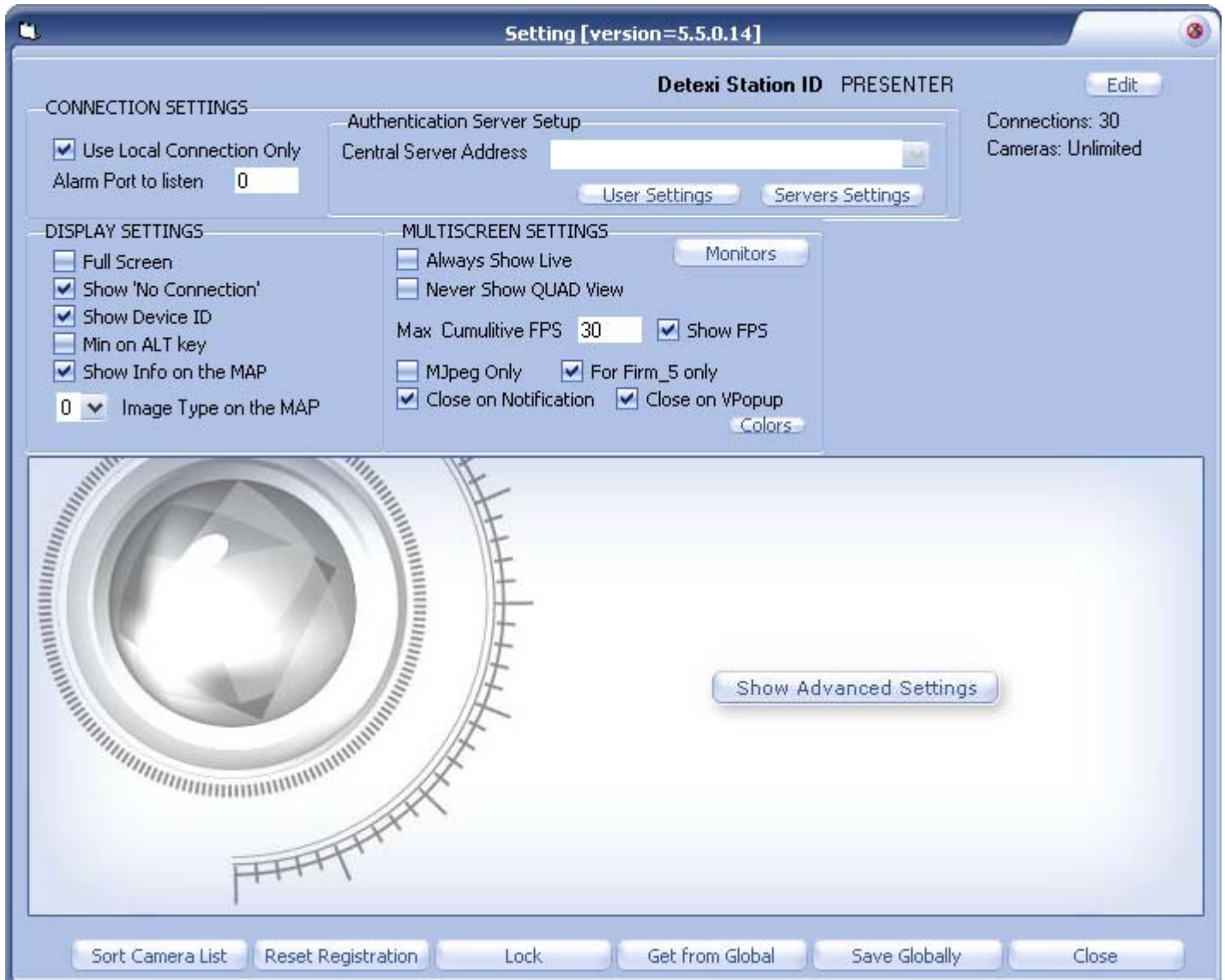


Fig 2. Remote DETEXI Client — Setting
(Setup Authentication Server.)

3. Configure Central Server

1. In the **Central Servers List** (Fig 3) —
 - ✓ Click **Add** button to add a new Central Server configuration
 - ✓ Enter any descriptive **Name** for the server definition that will be used to distinguish between multiple servers.

- ✓ Enter **Central Server Address** — IP Address and Port to Listen of the NVR Server being connected to.
 - ✓ Check **This Client is inside the Local Network** checkbox if all the cameras and Client belong to one network *(for the optimization purpose)*.
 - ✓ Click **Save** button to save the settings.
 - ✓ Add more servers to the list.
2. Choose a preferred central server address: select a server from the **Central Servers List** and click **Set as Current Server** button — the selected server will be assigned as the default central server. The panel will close automatically.
 3. In the **Settings** click **Close** button to return to the Login Prompt.

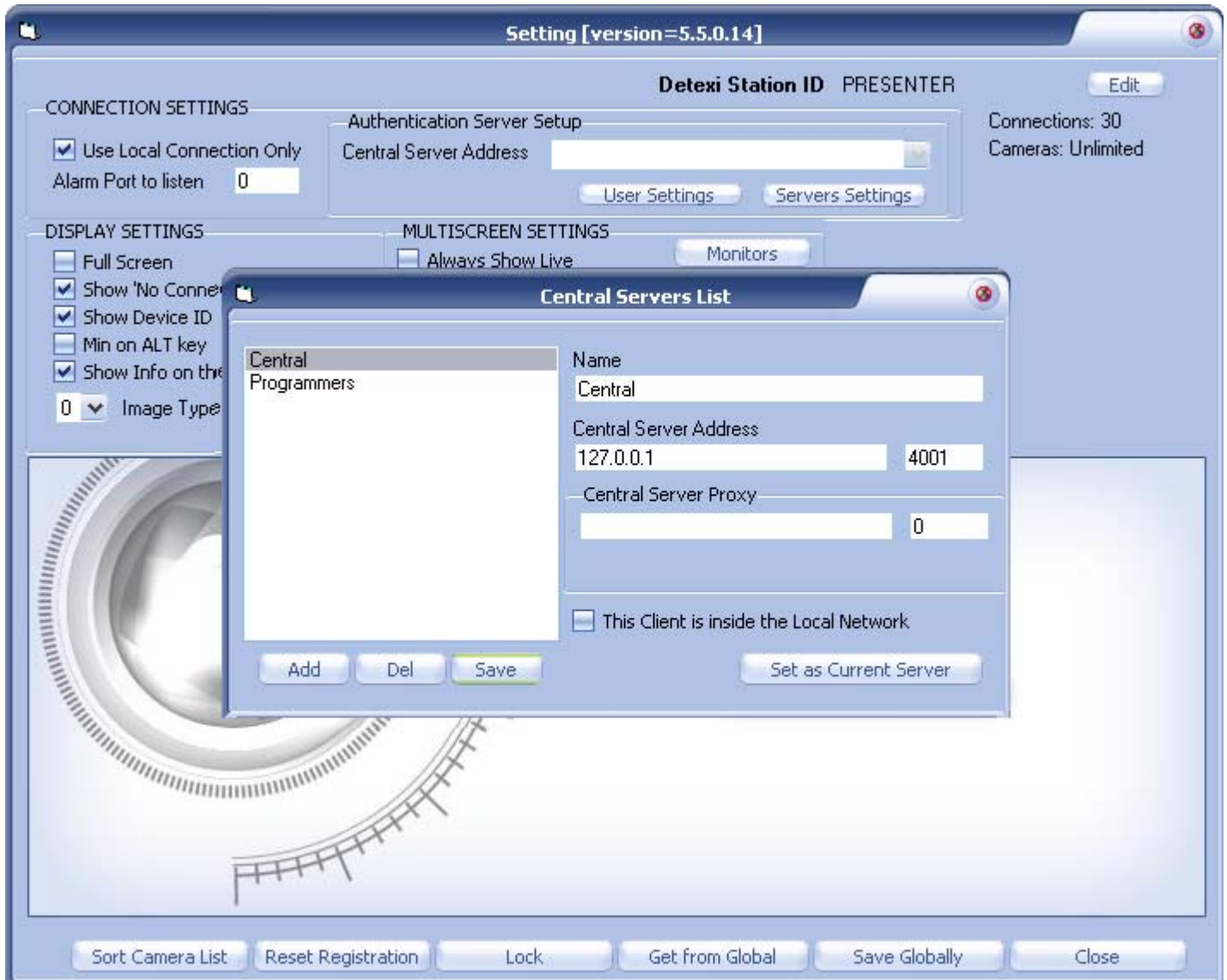


Fig 3. Remote DETEXI Client — Setting — Central Servers List
(Configure Central Server.)



- ✓ If required, in order to reach the NVR the Central Server Proxy could be setup — Proxy Address and Port to be communicate through. In most configurations, this information will not be necessary and can be left blank.
- ✓ If only **one** Authentication Server is setup make sure that Central Servers List panel was closed by pressing **Set as Current Server** button, or authentication will fail.

4. Login

1. If more than one Authentication Server is setup select one from the Login Prompt drop-down list. If only one — it will be used automatically (Fig 4).
2. Provide a valid **User ID** and login **Password**, and click **OK** button to open the **Start Page**.



Fig 4. DETEXI Client — Login Prompt — List of NVRs
(Select Authentication Server to Login.)



DETEXI Client Start Page

When the DETEXI Client is launched the start page provides the list of cameras configured in the DETEXI NVR. From the start page all branches of the DETEXI Client can be accessed. Users can organize and monitor network cameras and video encoders on their network — set up view groups, record, control the cameras' video, audio and pan/tilt/zoom and playback archived video.

1. Local Client Start Page

Local DETEXI Client is a useful system administrator tool for testing user configuration and basic functionality. It only connects to the local DETEXI NVR, does not require the NVR services to be running, and does **not require authentication** (*authentication features are disabled*). In the Local Client **all cameras** configured in the local NVR will be available in the start page Cameras List (Fig 5).



Fig 5. Local DETEXI Client — Start Page

General Navigation

GO — launches live video of all cameras **checked** in the Cameras List.

ARCHIVE — launches the **Archive Retrieval Tool** built into the Client.

Map — launches a MAP page allowing for users to browse and select cameras by location on one or more maps (visible only if at least one map location is configured in the NVR with at least one camera assigned to it).

Settings — launches the **Settings Configuration**, where all options/settings of the Client are configured.

Minimize — minimizes the Client application into the System Tool Tray.

EXIT — completely closes the Client application.



- ✓ All cameras in the Cameras List can be checked/unchecked individually.
- ✓ Check/uncheck childnodes with parent node checkbox.
- ✓ Use ☒ Check All and ☐ Uncheck All buttons to check/uncheck all cameras in the Cameras List.

2. Remote Client Start Page

Remote DETEXI Client enables connection to any authorized DETEXI NVR available anywhere on the Internet or corporate network for remote viewing and control. Requires authentication with credentials defined within the NVR being connected to. Multiple user credentials are defined within the NVR, to allow for different user permissions and user tracking. In the Remote Client the cameras available in the start page Cameras List will depend upon the user logged in **permissions** (Fig 6).

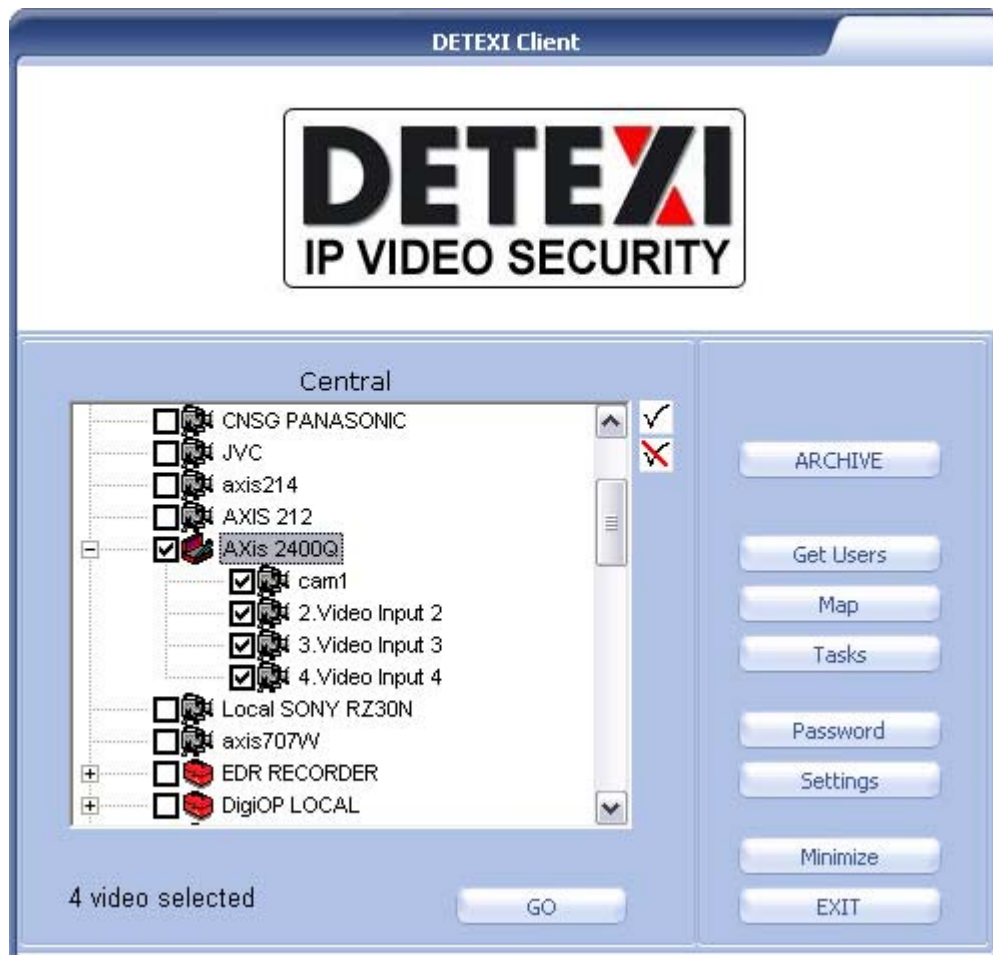


Fig 6. Remote DETEXI Client — Start Page

General Navigation

GO — launches live video of all cameras **checked** in the Cameras List.

ARCHIVE — launches the **Archive Retrieval Tool** built into the Client.

Get Users — launches a **Get Users** page, which allows users to see other users currently logged into the same DETEXI NVR, as well as communicate via text chatting.

Map — launches a MAP page allowing for users to browse and select cameras by location on one or more maps (*visible only if at least one map location is configured in the NVR with at least one camera assigned to it*).

Tasks — launches a **List of Executable Tasks** available upon the user logged in permissions (*is only*

visible if the user logged in has permissions to execute at least one task).

Password — launches **Change Password** page allowing the currently logged in user to change their password.

Settings — launches the **Settings Configuration**, where all options/settings of the Client are configured.

Minimize — minimizes the Client application into the System Tool Tray.

EXIT — completely closes the Client application.

3. Get Users

Get Users button on the Remote Client start page launches a **Get Users** page (Fig 7), which allows users to see other users currently logged into **the same** DETEXI NVR, as well as communicate via text chatting.

The top-left pane of the page lists all users (*including you*) currently logged into the DETEXI NVR you are connected to.

Clicking on a user in the list shows that user's connection information —

- ✓ IP Address the user is connected from.
- ✓ Cameras the user has permission to view.
- ✓ How much longer the user has permission to connect to the system before being logged out.

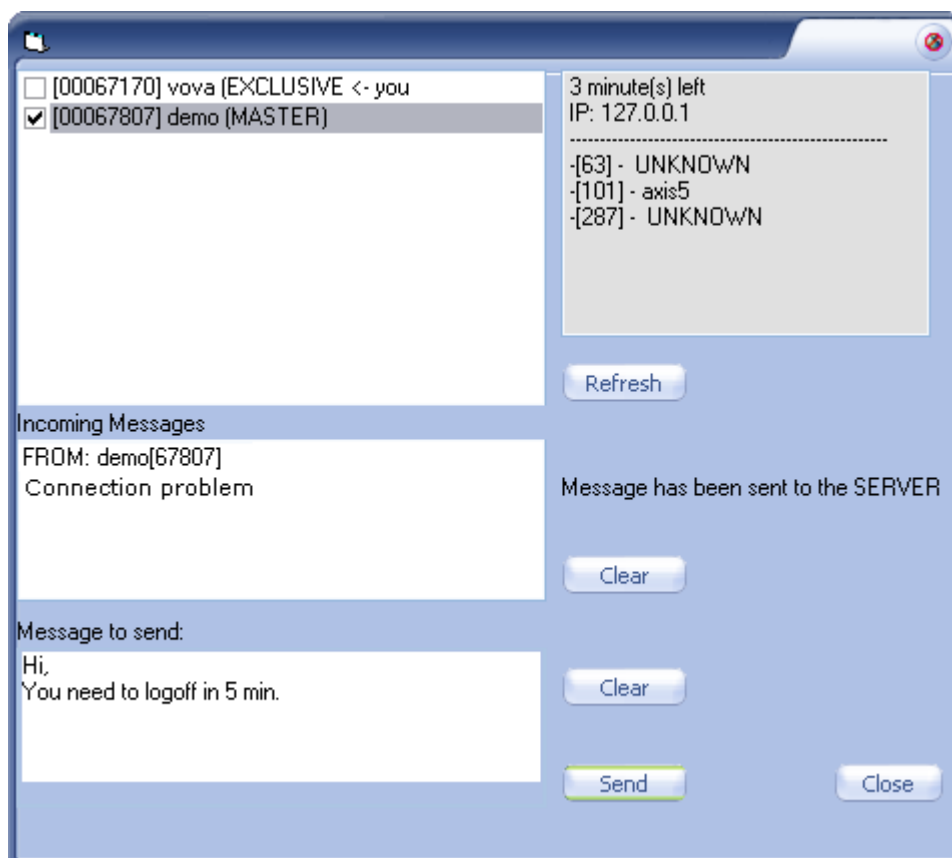


Fig 7. Remote DETEXI Client — Get Users
(Users Connection Information. Send / Receive Messages.)

Navigation

Refresh button refreshes the list of users, to see any users that may have logged in or out since the page was opened.

Incoming Messages — Clear button clears all messages in the textbox.

Message to Send — Clear button clears the current message in the textbox.

Send — sends the message from the **Message to Send** textbox to the selected users.

Close — returns to the Client start page.

To send a message to one or more users —

1. Check the users you want to send the message to.
2. Type the message in the **Message to Send** textbox.
3. Click **Send** button.

Master users

There are regular users and master users. Master users can force other users to log off of the DETEXI NVR. This feature could be useful when the **maximum** (*license allowed*) number of clients are logged on. Master users can kick one user off the system to allow another on.

To log off one or more users —

1. Check the users you want to log off.
2. Click **Kill** button. The users will be notified, and then their Clients will be closed.
— OR —
Click **Kill ALL** button to log off all users.

4. Provide Password

Password button on Remote Client start page launches **Provide Password** page (Fig 8) allowing the currently logged in users to **change** their password.

- ✓ Required password format — any number of alphanumeric characters.



Fig 8. Remote DETEXI Client — Provide Password
(Change Password.)

5. Map

MAP button on the DETEXI Client start page launches a **MAP** page allowing for users to browse and select cameras by location on one or more maps (Fig 9).

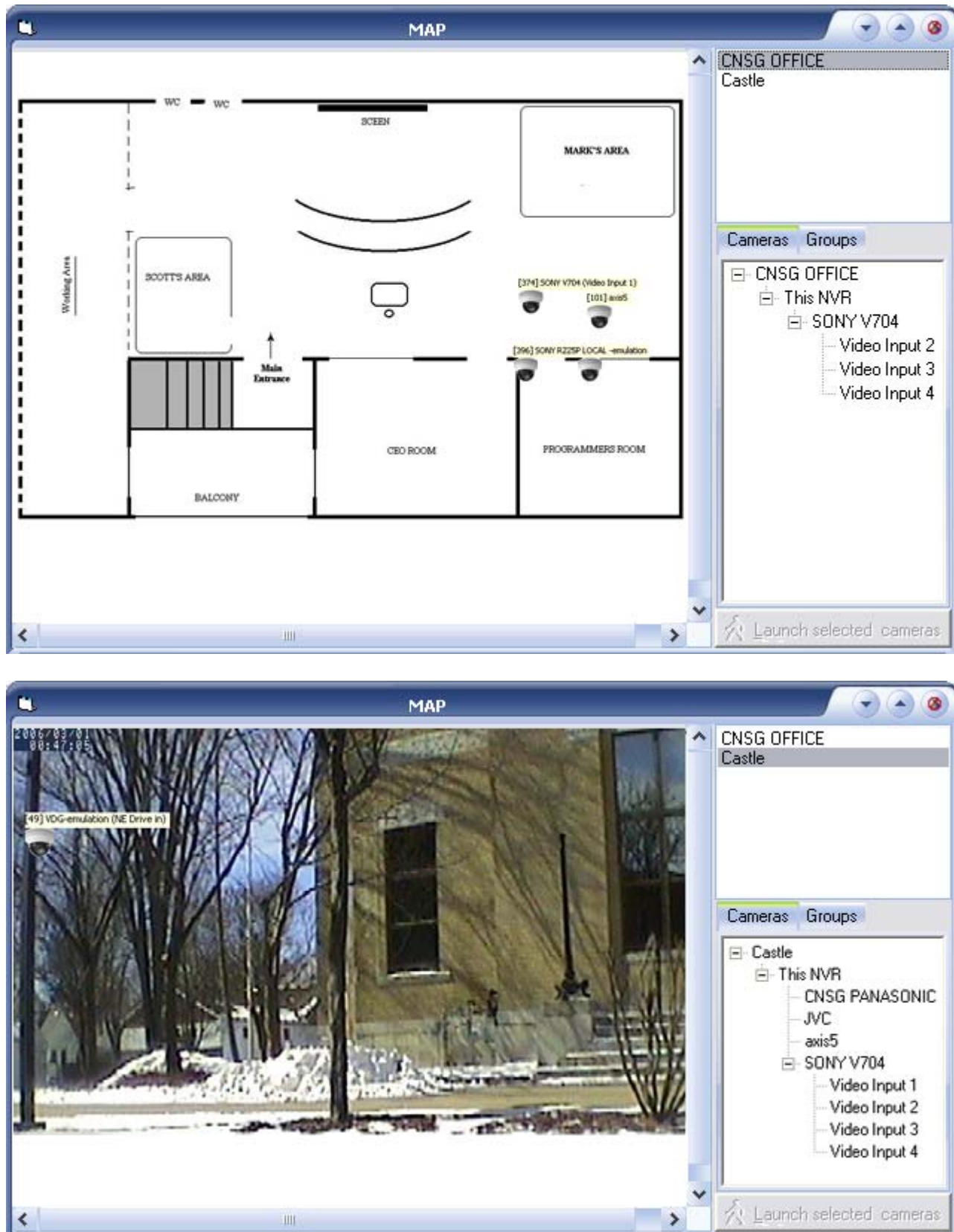


Fig 9. Remote DETEXI Client — Map (Office Plan / Shot.)

6. Tasks

Tasks button on the Remote Client start page launches an **Execute Task** panel with the list of executable tasks available upon the user logged in permissions.

Trigger Task —

1. Login to the Remote DETEXI Client and select camera on the Client start page.
2. Press the **Tasks** button to launch **Execute Task** panel (Fig 10) with the tasks available upon the user logged in permissions.
3. Select a task of interest and press **Start Task** button to trigger this task.

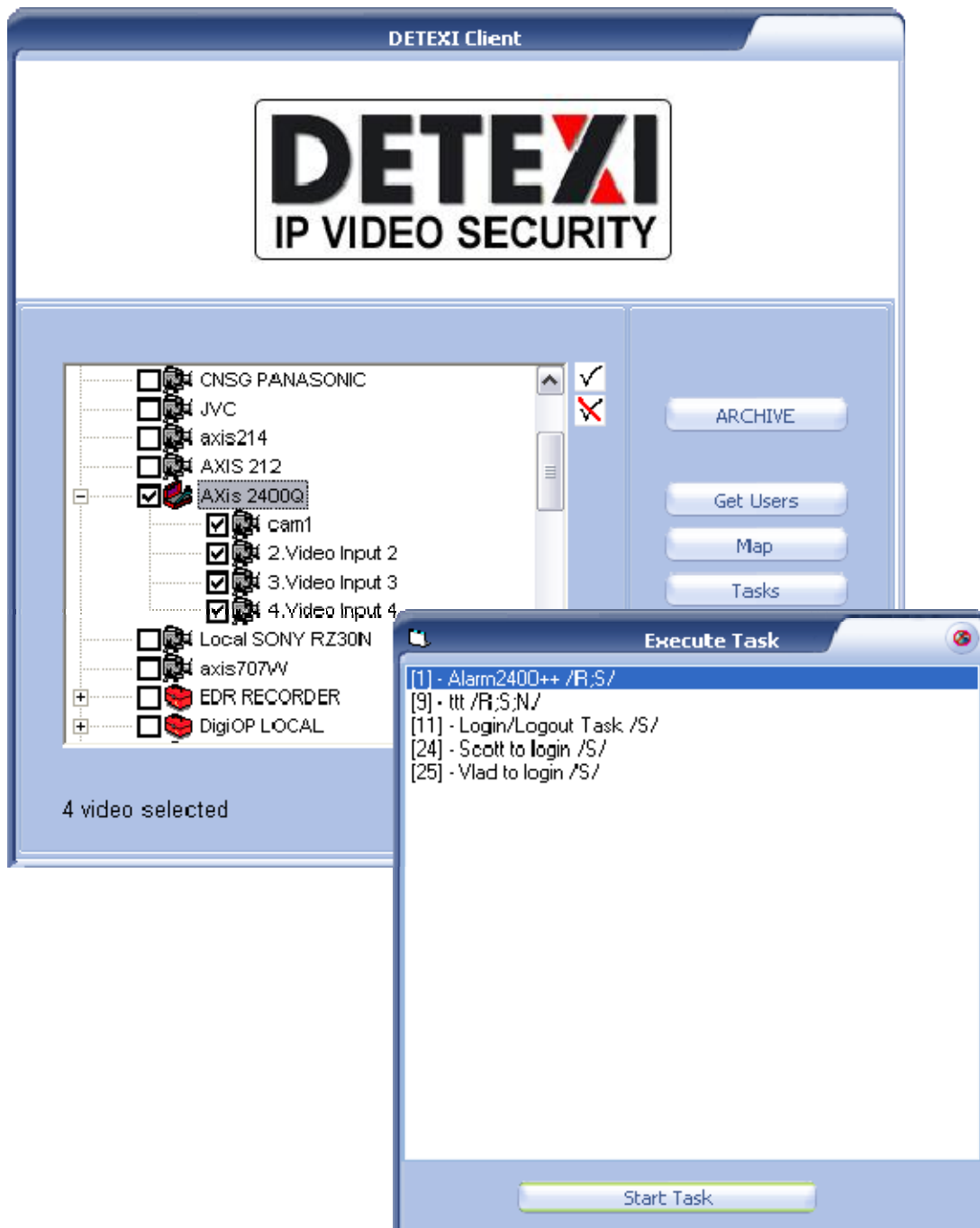


Fig 10. Remote DETEXI Client — Execute Task
(Trigger Task.)

Live View (Single, Multi-camera)

Cameras live view provides an interface to organize and monitor network cameras and video encoders on your network. From live view workspace you can set up view groups, record, and control the cameras' video, audio and pan / tilt / zoom.

1. Single View

If only **one camera** was selected in the start page cameras list and **GO** button clicked, the Single View is launched with live video streaming from the selected camera providing access to the various camera controls (Fig 11).

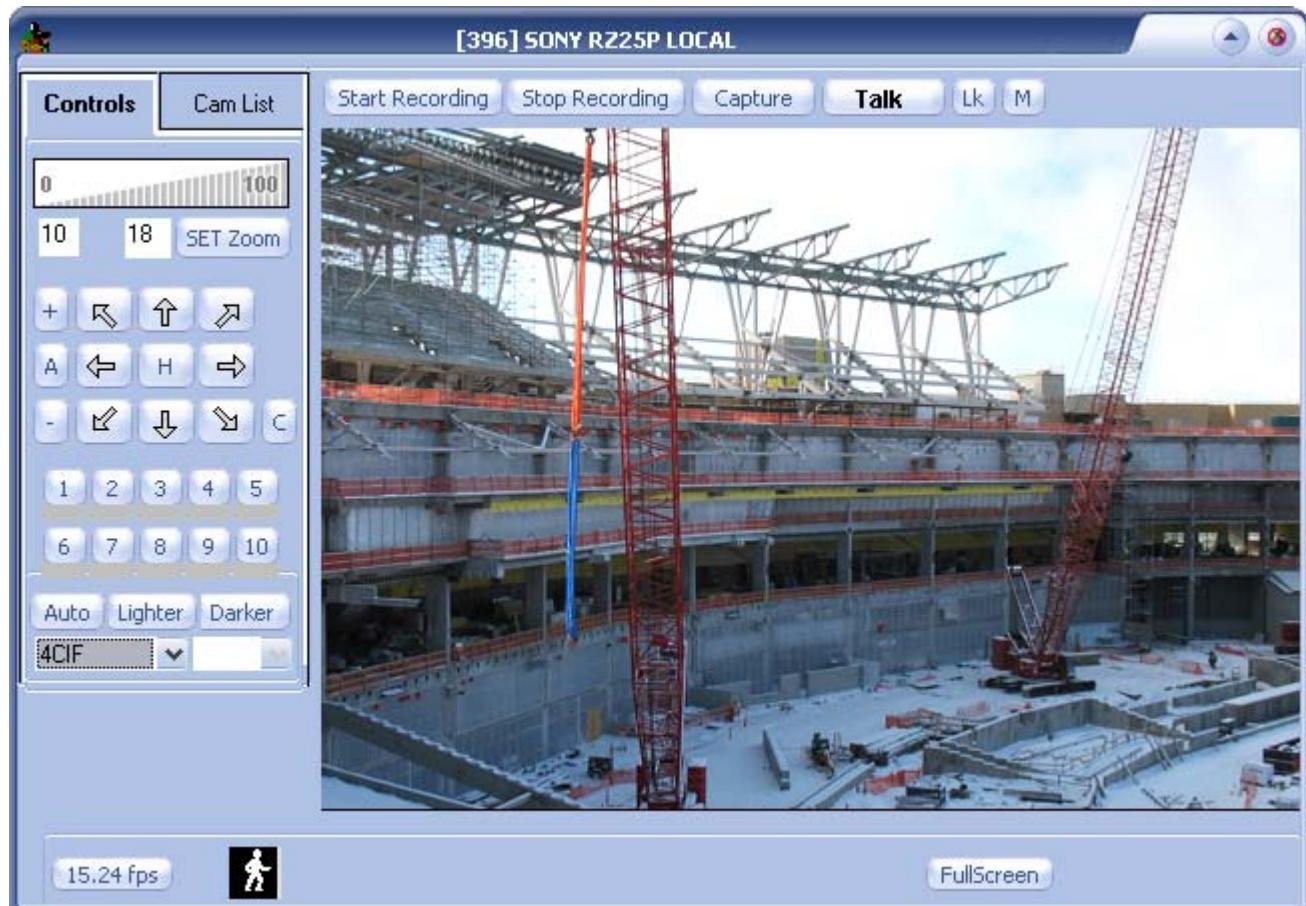


Fig 11. DETEXI Client — Single View
(Live video streaming from the selected camera.)

Full Screen

Click the **Full Screen** button at the bottom of the screen to view the streaming video in full screen,
— OR —

Click the arrow toggle button in the **upper-right** corner of the single view to open/close full screen mode.



- ✓ Hide/show the **Controls** panel by **F** key on the keyboard.
- ✓ Single view can also be launched from the multi-camera view for any camera in the group via the **GOTO** option in the **right-click** menu.

Controls



Zoom — if the camera being viewed is a PTZ camera, the **Zoom** controls will be active (depending on permissions in the Remote Client).

- ✓ Clicking within the 0-100% scale will adjust the zoom coordinate of the camera to that percentage of the camera's full zoom capabilities.
- ✓ Users may also enter the desired percentage in the text box and click **SET Zoom** to define a specific zoom percentage.

Pan/Tilt — if the camera being viewed is a PTZ camera, the **Pan/Tilt** controls will be active (depending on permissions in the Remote Client).

- ✓ Clicking the arrows will move the camera view in that direction one step.
- ✓ If the camera has a **home** position defined within it, the **H** button will send it to that position.

Resolution Selection — when the live view is launched, the video is streamed in a default resolution as defined in the NVR.

- ✓ Users can change the resolution of the video to another resolution supported by the camera using the resolution drop-down list. This will visibly affect the quality of the image.

Compression Selection — when the live view is launched, the video is streamed with **medium** compression by default.

- ✓ Users can change between low, middle and high compression using the drop-down list. This will visibly affect the quality of the image.

Center Video on the Spot

If the camera being viewed is a PTZ camera, the user has the ability to **click** anywhere on the streaming video image to center video on that spot (depending on permissions in the Remote Client). This only change pan/tilt coordinates, and does not effect zoom. To **Zoom In/Out** — click on the video to center video on that spot and **roll mouse wheel** up and down



- ✓ The resolutions available will depend upon the camera type being viewed. Axis cameras with an auto-configured driver in the NVR will show the specific resolutions supported by that camera model.
- ✓ In the multi-camera view the user can center video on the spot for any PTZ camera as well and zoom in/out by clicking **Page Up/Page Down** buttons.

2. Multi-Camera View

If more than one camera was selected in the start page cameras list and **Go** button clicked, the Multi-Camera View is launched with live video streaming from the first selected cameras (up to thirteen). The multi-camera live view dynamically sizes and tiles the cameras view to fit all selected cameras with the least wasted space (Fig 12).

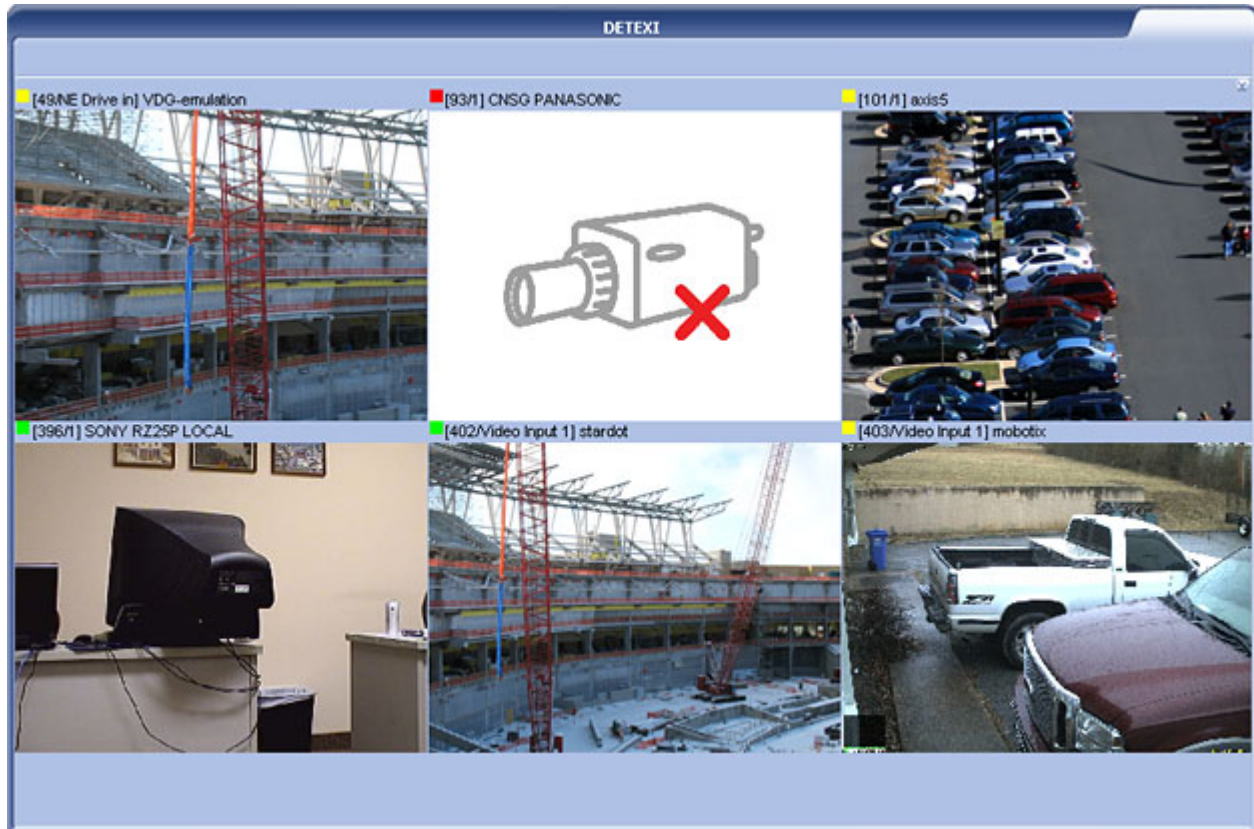


Fig 12. DETEXI Client — Multi-Camera View

The multi-camera view provides a quick way of viewing multiple cameras.

Live Status Indicator — each camera video stream in the multi-camera view has a colored box icon next to the camera name, indicating the status of the video.

- ✓ If the indicator is **red**, the live stream is halted.
- ✓ A flashing yellow/green indicator means that live video is currently streaming.

Standard Tiling — all cameras' views will be the same size, dynamically sized and tiled with the least wasted space. The multi-camera view can be changed via **Tiling** buttons.



- ✓ Single camera view can also be launched from the multi-camera view for any camera in the group via the **GOTO** option in the **right-click** menu.

Full Screen Setting

If in the **Setting** under the **DISPLAY SETTINGS** the **Full Screen** checkbox is **checked** (Fig 14) the **Tiling** buttons appear in the upper right corner of the multi-camera view.

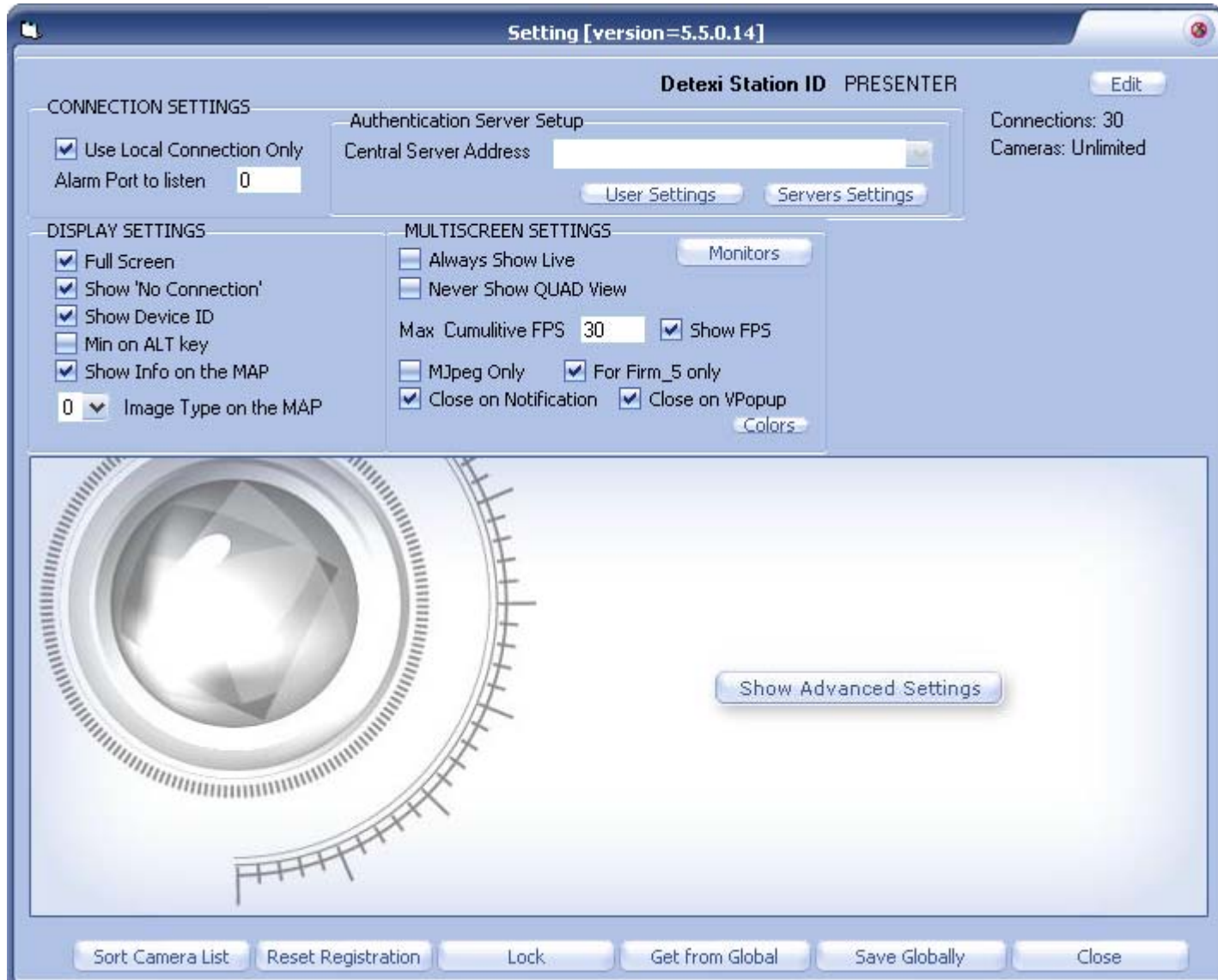


Fig 14. DETEXI Client — Setting
(Full Screen Setting.)



Tiling Buttons

Press one of the **Tiling** buttons in the upper right corner of the multi-camera view — **S**, **6** and **12** — to change the multi-camera view (Fig 15).

S — all cameras' views will be the same size, dynamically sized and tiled with the least wasted space.

6 — only the first (5 + 1) selected cameras will be shown, with the first much larger than the rest.

12 — only the first (12 + 1) selected cameras will be shown, with the first much larger than the rest.

To show the camera of choice in the large position — press **Shift** button, than **drag and drop** any camera on top of large view or change the cameras order in **Setting — Sort Camera List**.



Fig 15. DETEXI Client — Multi-Camera View
(Tiling Buttons In The Upper Right Corner.)

Sort Camera List

To show the camera of choice in the large position —

1. In the **Setting** click **Sort Camera List** button in the **bottom left** corner.
2. In the **Sort the Cameras** panel (Fig 16) select the camera and move it on the top of the list.
3. Click the **Save** button

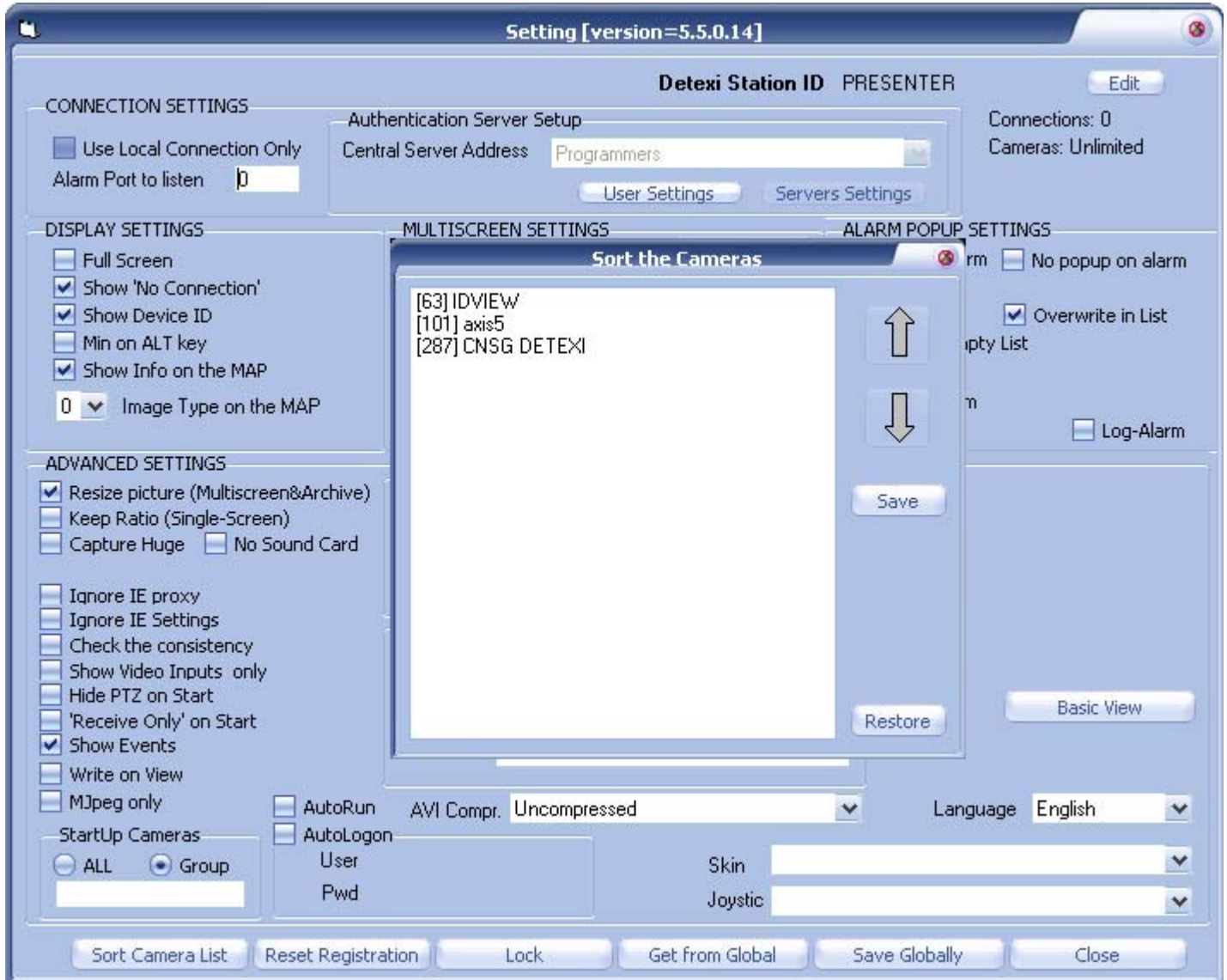


Fig 16. DETEXI Client — Setting

(Sort the Cameras List to Show The Camera of Choice In the Large Position.)

Launch Single View — GO TO Option

GOTO option, available by **right-clicking** on any camera video stream in the multi-camera view, launches the single view for the selected camera **in front** of the multi-camera view providing access to the various camera controls (Fig 17).

- ✓ To **change** the video stream being viewed in the single view **drag and drop** any other camera from the multi-camera view on top of the **current** single view.

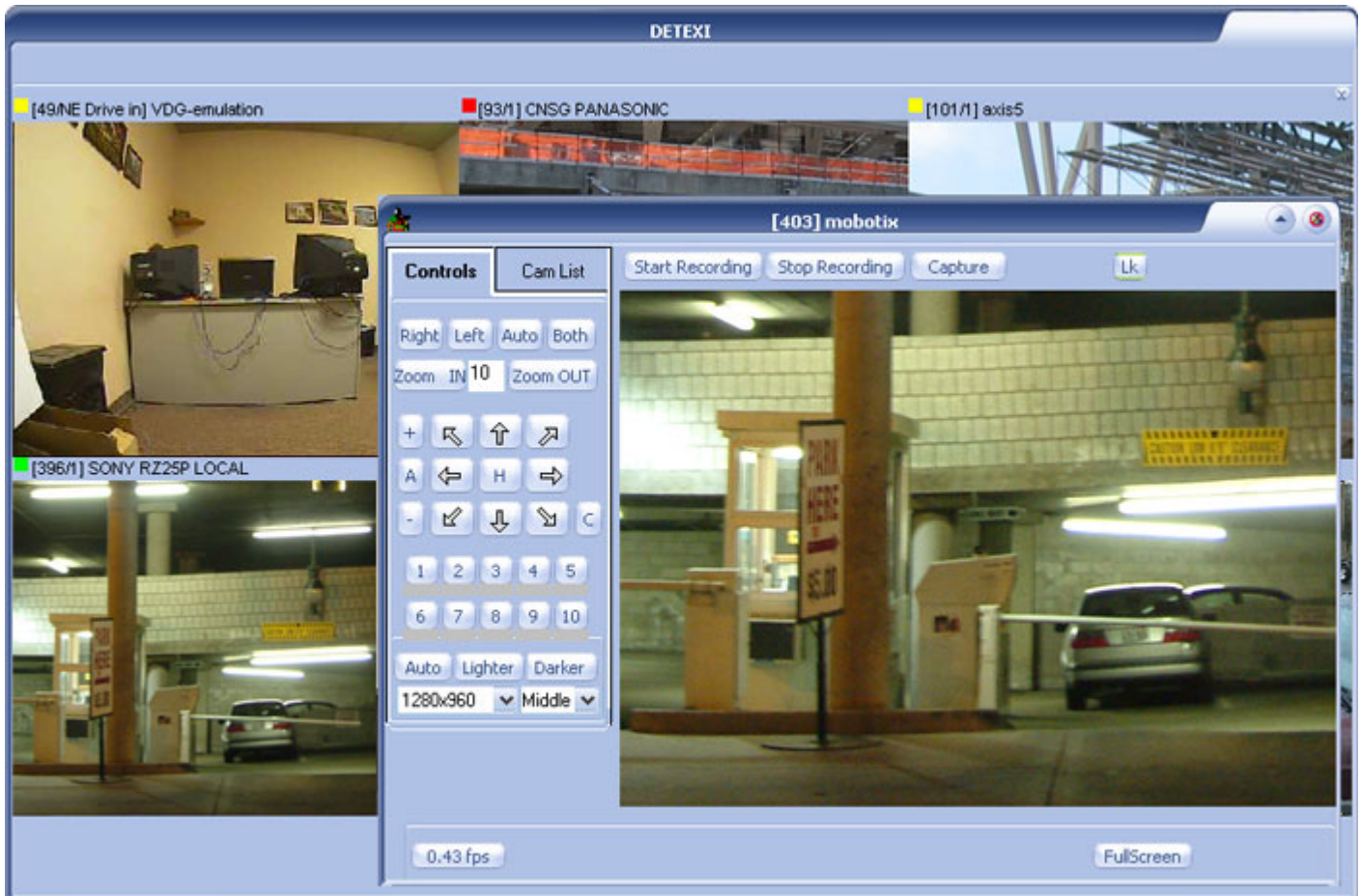


Fig 17. DETEXI Client — Multi-Camera View
(GO TO Option. Single View Launched on Top.)



- ✓ To enlarge the selected camera view and display the camera controls while **tiling** all other cameras around it use Enlarge option (Fig 18).

Launch Single Camera View — Enlarge Option

Enlarge option is available by **right-clicking** on any camera video stream in the multi-camera view. It enlarges the **selected** camera view and displays the camera controls while **tiling** all other cameras around it (Fig 18).

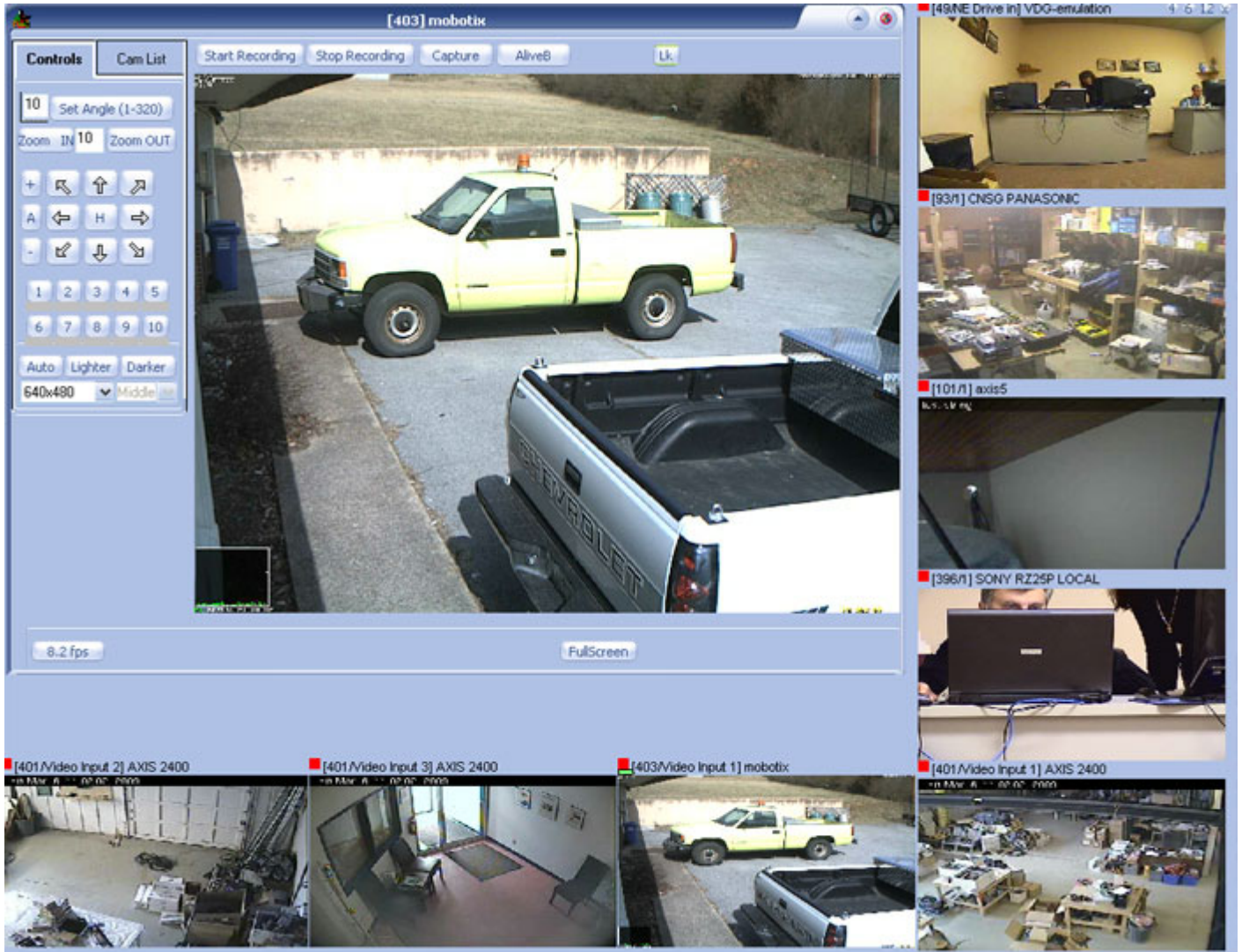


Fig 18. DETEXI Client — Multi-Camera View
(Enlarge Option.)



- ✓ The Enlarge option is only active if in the **Settings** under the **DISPLAY SETTINGS** the **Full Screen** checkbox is **checked**.

Access DETEXI NVR Video Archive

DETEXI Client Archive Tool vs. Archive Viewer

With the DETEXI NVR configured to record video, Local and Remote DETEXI Clients can access the recorded video. There are two main tools that allow users to access the NVR video archive, search, view and export video —

- ✓ DETEXI Client Archive Tool
- ✓ DETEXI Archive Viewer

Although the DETEXI Client Archive Tool and DETEXI Archive Viewer have very similar capabilities, they access and pull the recorded video from the archive in very different ways allowing for both to excel in different environments and for different needs. That is especially apparent when connecting over a network. There are a few unique features in each as well.

The DETEXI Client Archive Tool pulls recorded video from the NVR archive transferring all frames in the time segment selected into local memory. For this reason, the amount of video that can be viewed at once is limited, and the initial load time is very affected by the network the video is being pulled across. Once loaded, however, this video can be viewed very quickly and efficiently at very high frame rates. When users already know the time and date of interest and only need to review a **small** amount of video, they might find the DETEXI Client Archive Tool more efficient than the DETEXI Archive Viewer.

When **large** amount of video need to be scanned for events the DETEXI Archive Viewer is the tool of choice. Rather than loading a collection of video into local memory, the Archive Viewer streams video directly from the NVR archive over the network. For this reason, a full 24 hours of data is at the user's fingertips for viewing at all times without requiring a large initial load time. However, this limits user to slower possible playback speed — completely dependent upon the network connection between the Archive Viewer and DETEXI NVR archive. It is not uncommon to see pauses in video playback for buffering of the video stream.

- ✓ When located on the DETEXI NVR computer, the DETEXI Archive Viewer is very efficient — limited only by the read speed of the hard drive and decoding speed of the video card.



DETEXI Client Archive Tool

The DETEXI Client Archive Tool pulls recorded video from the NVR archive transferring all frames in the time segment selected into local memory. For this reason, the amount of video that can be viewed at once is limited, and the initial load time is very affected by the network the video is being pulled across. Once loaded, however, this video can be viewed very quickly and efficiently at very high frame rates. When users already know the time and date of interest and only need to review a **small** amount of video, they might find the DETEXI Client Archive Tool more efficient than the DETEXI Archive Viewer.

- ✓ The **ARCHIVE** button on the Client start page launches the Archive Tool built into the DETEXI Client (Fig 19).

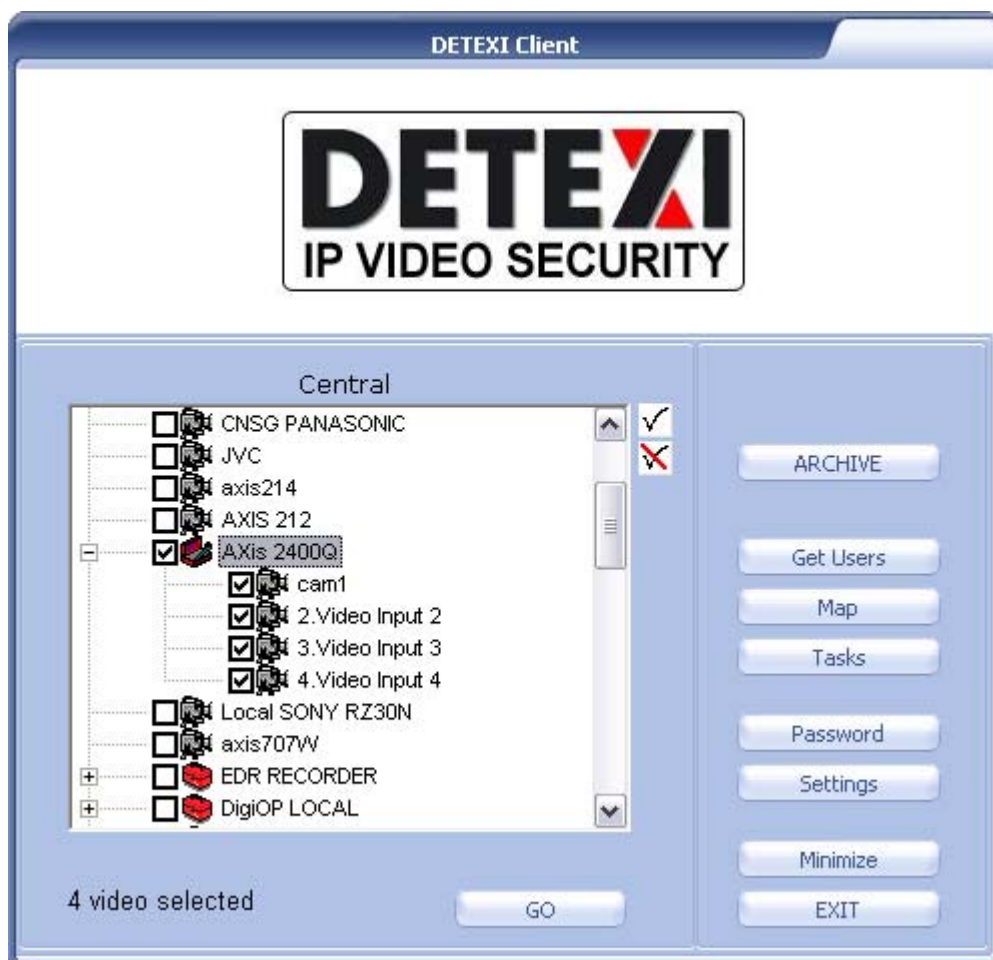


Fig 19. DETEXI Client
(Launch DETEXI Client Archive Tool.)

1. Search for Video of Interest

1. On the Client start page press **ARCHIVE** button — the Archive Tool built into the Client launches.
2. Double-click on the camera of interest in the **Search — Cameras** list to turn it **yellow**.
3. To choose the date of interest click on the down arrow next to today's date and select the date from the calendar (Fig 20).
4. Click **Show** button to show all recording activity for the chosen date. The timeline will be filled in with the video bar graph, indicating the recorded video available for the day.
 - ✓ If motion detection is turned on in the recording schedule for the camera, the **green** bars indicate the amount of motion detected within each minute of video.
 - ✓ The **solid gray** around the motion bars indicate continuous recording.
 - ✓ **Red** bars indicate alarm video (recorded due to an alarm).
 - ✓ The height of each bar indicates how much video (of the given category) was recorded in that minute.

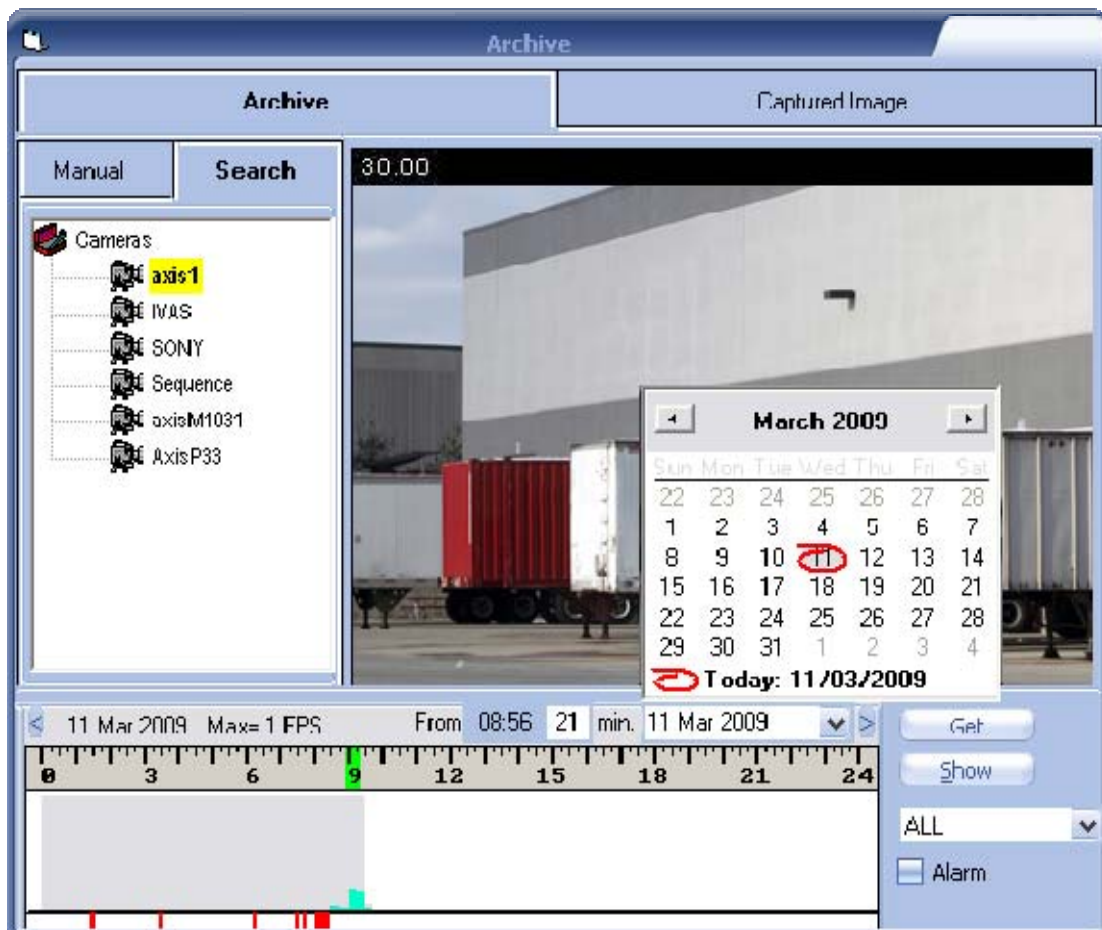


Fig 20. DETEXI Client — Archive
(Search for Video of Interest. Video Bar Graph.)



- ✓ A combination of solid gray and green bars are seen when a continuous recording with motion detection schedule is configured.

2. Select Segment of Video

5. To select the segment of video for viewing, **right-click and drag** on the **time line** above the video bar graph to highlight the time segment of interest. If no segment is selected, all video in the current view is considered selected.
 - ✓ Be careful not to select too large period of time, since loading can take a long time depending on the network resources. The maximum amount of video that can be loaded at once is **10000** frames.
6. With video selected, click the **Get** button to begin loading the section of video into memory (Fig 21).
 - ✓ Before clicking **Get** button, the **Alarm** checkbox can be checked to load only the alarm video (*recorded due to an alarm*) for that period of time rather than the continuous and motion video.
 - ✓ While the video is loading, the **Get** button changes to a **Break** button, showing the current status of the load. If the load is taking longer than desired, this button can be used to **stop the load**, and whatever video was loaded to that point will be viewable.

3. Playback, Export Video

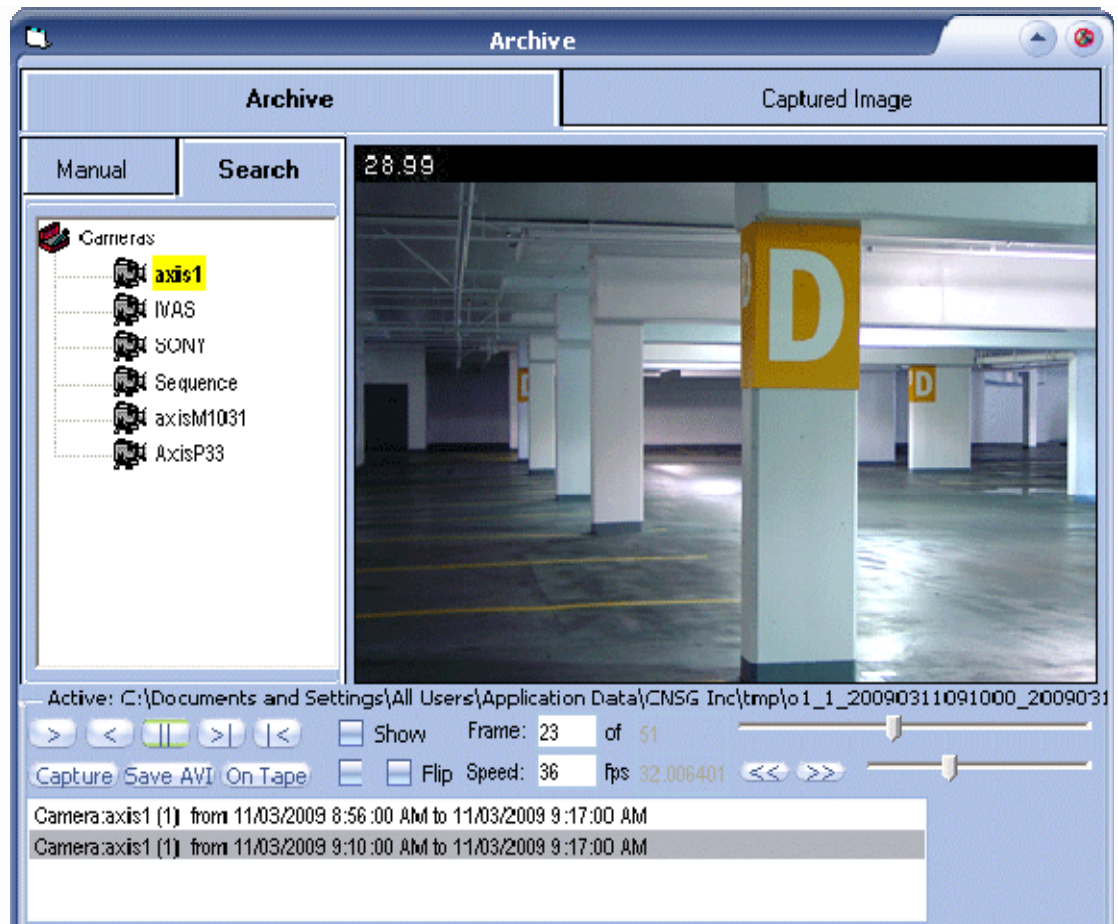


Fig 21. DETEXI Client — Archive
(Video Playback Control Panel.)

7. Once a segment of video is loaded for viewing, the video playback controls appears, with all video currently loaded in memory listed at the bottom (Fig 3). Many situations may call for multiple sections of video listed there.

8. **Double-click** the portion of video listed to view the first frame.
9. Playback controls includes the following buttons from left to right — **Play Forward**, **Play Backward**, **Pause**, **Frame Forward** and **Frame Backward**.
 - ✓ The **Frame** slider can be used to quickly select a playback position within the video clip, and **Speed** slider — to adjust the playback rate in FPS.
10. Video can be exported in the form of a snapshot picture, or AVI format movie. Press **Capture** button to save a single frame of the video and follow to the **Captured Image** panel in order to enhance and save the snapshot.
11. To export selected recordings as an AVI format movie — when playback is stopped, click the **Save AVI** button to begin exporting the video from the current location until playback is stopped again.
 - ✓ It may be necessary to apply **compression** during the export in order to lower the file size. A compression type can be applied if desired in the Client **Setting — Show Advanced Settings** in the **Capture** section.

4. Edit Captured Image

Once video of importance is found, it is often necessary to be able to export that video to a universal format for distribution to management, the police, or other authority. This can be done with either the **Capture** or **Save AVI** features.

- ✓ Clicking **Capture** button will save a **single** frame of the video and transfer it into the **Captured Image** panel for editing (Fig 22). The image can be adjusted as needed and saved as a JPG file.



Fig 22. DETEXI Client — Archive — Captured Image
(Edit And Save Captured Image.)

DETEXI Archive Viewer

When **large** amount of video need to be scanned for events the **DETEXI Archive Viewer** is the tool of choice. Rather than loading a collection of video into local memory, the Archive Viewer streams video directly from the DETEXI NVR archive over the network. For this reason, a full 24 hours of data is at the user's fingertips for viewing at all times without requiring a large initial load time. However, this limits user to slower possible playback speed — completely dependent upon the network connection between the Archive Viewer and DETEXI NVR archive. It is not uncommon to see pauses in video playback for buffering of the video stream.



- ✓ When located on the DETEXI NVR computer, the DETEXI Archive Viewer is very efficient — limited only by the read speed of the hard drive and decoding speed of the video card.
- ✓ To learn more refer to the DETEXI Archive Viewer manual.

Export Recorded Video

DETEXI NVR records video using proprietary file format but enables users to export recorded video to the standard file format — AVI (Audio Video Interleave). **DETEXI Client Archive Tool** and **Archive Viewer** export video to AVI file format.

Video in the proprietary file format can also be exported along with a proprietary player — restricted DETEXI Archive Viewer. **Export NVR Video Archive** module included automatically with the DETEXI NVR installation allows users to export, or back up the recorded video. The advantages of using the native recording format are — additional security and data integrity as well as advanced playback features. Additionally, the proprietary format is more difficult to edit and can be used to preserve the chain of evidence.



- ✓ To learn more refer to the DETEXI NVR — Access NVR Video Archive.