Network Client

Installation and Operating Instructions

Version 3.1

Part Number 8200-0312-9900 A0

IMPORTANT INFORMATION

Before proceeding, please read and observe all instructions and warnings contained in this manual. Retain this manual with the original bill of sale for future reference and, if necessary, warranty service.

When unpacking your Network Client product, check for missing or damaged items. If any item is missing, or if damage is evident, DO NOT INSTALL OR OPERATE THIS PRODUCT. Contact Sensormatic or your dealer for assistance.

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Product ID (PID)

A Product ID is shipped with the Network Client disk on the label affixed to the CD jewel case. This must be entered during installation; this Product ID will enable the Network Client application to be operational.

The Network Client upgrade to version 3.1 (download from the Web) requires that a previous version of Network Client 2.0 or later be installed.

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MINIMUM SYSTEM REQUIREMENTS

Computer	Pentium-3 600MHz processor (Pentium Celeron or Pentium-4 preferred; non-Intel processors are not recommended)
Operating System	Windows XP Home Edition and Professional Windows 2000 Professional Windows NT 4.0 Workstation and Server with SP6a Windows 98 Second Edition Windows ME
RAM	256 MB minimum
Hard Drive	20 MB available for software installation; at least 10 GB recommended for video storage
Other Drives	CD-ROM drive for installation
Monitor	800 x 600 minimum resolution and capable of displaying 16-bit color
Video Card	SVGA with 16 MB video RAM; DirectDraw support is recommended. (ATI Expert@Play is recommended)
Network Card	Must support 10BASE-T (10 Mbps) and/or 100BASE-TX (100 Mbps) operation; must match the network configuration. We have qualified the Intel PRO/100+, the 3Com 3C905B, and Netgear FA310TX.
Miscellaneous	Mouse or other pointing device 56 K modem (for dial-up access to Intellex)

INTRODUCTION TO NETWORK CLIENT

Network Client provides remote management of Intellex units via telephone Dial-up Networking, LAN, WAN, or VPN connections.

Intellex 3.1 features that are accessible in Network Client 3.1 include:

- Event Notification
- Activity Log
- Live View (new camera features)
- Camera Selectable Rate
- Covert Camera
- Motion Exception
- Advanced Text Search
- Advanced Security

Event Notification

Event Notification allows Network Client to receive real-time notification of events from remote Intellex units. When Event Notification is enabled, the Event Handler icon is active in the Network Client computer's system tray and the Event Viewer is displayed in the lower portion of the Network Client screen. When Network Client is running, any alarms or other events received from a remote Intellex unit are listed in the Event Viewer pane. If Network Client is not running, the Event Handler indicates if any alarms or events are pending from a remote Intellex unit and gives the user the option to start Network Client and to view live video from the alarmed camera.

Activity Log

The Activity Log provides a record of all activity that has occurred on an Intellex unit, such as who changed a schedule or recording rate, who set up an alarm or exported video, and whether the action was performed locally at the Intellex unit or remotely via Network Client. The log may be printed out or saved as a text file for review.

Live View

A user can switch to full-screen display of live video from single- or multi-pane mode, by clicking a button or by using the Live Video Popup menu.

Camera Selectable Rate

A user can set the recording rate for each camera for minimal, normal and alarmed recording (a maximum rate of 30 ips can be applied to an individual camera).

Covert Camera

Access to cameras can be controlled for specific users by an administrator, in order to allow (or disallow) the user’s ability to view live video, to play back recorded video, to export video, to view alarms, to search for video, and so on.

Motion Exception

Motion Exception allows you to search for a specific event or type of activity by defining the position, size, direction, and speed of a moving object. Motion Exception can filter live video and search recorded video to find the specified event or type of activity.

Advanced Text Search

The Advanced Text Criteria hancement to text streams allows you to define complex sets of search criteria in order to find a Live Text Exception when filtering live video, or to search for events in the text stream when playing back recorded video.

Advanced Security

Advanced Security provides both local and remote secured access to Intellex units and to designated Intellex features (downloading and viewing video, setting up a schedule, etc.) or resources (cameras, alarms, alarm list database, recorded video database, etc.). Advanced Security requires Policy Manager, which enables an administrator to manage secured access to Intellex units and to Network Client by means of user credentials for each user on the network.

INSTALLING NETWORK CLIENT 3.1

The workstation you select for installation of Network Client must be capable of connecting with remote Intellex unit(s), either via TCIP/IP network connection or via modem Dial-Up Networking. For quick setup and verification of Network Client and Intellex interaction, connect Network Client and Intellex on the same network node (same subnet). Please read the following instructions before installing Network Client software.

Consult with your Information Systems personnel before connecting Intellex units to your network and accessing those units from Network Client workstations. If you have questions or difficulties, contact your dealer for Technical Support.

1. Close any running programs.
2. Insert the Network Client CD in the CD-ROM drive.
3. If the CD does not not auto-start, double-click on the Network Client CD icon on your CD drive.

InstallShield Wizard Setup

The Network Client 3.1 - InstallShield Wizard screen appears with the message: Preparing Setup:

“Please wait while the InstallShield Wizard prepares the setup. Network Client 3.1 is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.”

Network Client Already Installed

If the Network Client software is already installed on this computer, the Network Client InstallShield Wizard message appears:

“Setup has detected that Network Client is already installed on this system. Would you like to preserve your old configuration files?”

- If you want to preserve your old configuration files, click **Yes**.
- If you don’t want to preserve your old configuration files, click **No**.

New Network Client Installation

If this is a first-time installation, the progress bar will show when this step is complete.

When the progress bar shows this step in the install is complete, this message appears:

1. “Network Client 3.1 requires a valid Product ID. The Product ID is located on the CD Jewel Case label. Continue with setup?”
2. Select **Yes** if you want to continue with the installation.

Network Client Setup

The next setup screen appears with the message:

1. "Welcome to the InstallShield Wizard for Network Client. The InstallShield Wizard will install Network Client on your computer. To continue, click **Next**."

License Agreement

1. The License Agreement screen appears with the message, "Please read the following license agreement carefully. Press the PAGE DOWN key to see the rest of the agreement. Do you accept all the terms of the preceding License Agreement? If you select **No**, the Setup will close and the install process will stop. To install Network Client, you must accept this agreement."
2. If you accept the License Agreement, click **Yes**.

Select Components Screen

1. The Select Components screen appears next, with the message "Select components and subcomponents to install."

NOTE: If you do not want to include Video Player Agent, deselect it now.

2. Network Client 3.1 and Video Player Agent are selected by default.

Space Requirements for Destination Folder

NOTE: If you are considering an alternate location to the default, and if it is on another drive, you will need to consider the **Space Required** and **Space Available**.

1. The Destination Folder for your software installation and drive are selected by default.
2. If you want to choose another location, select **Browse...** . Choose your Location from the Directory folders displayed.
3. Both the **Space Required** and **Space Available** for your selected drive are shown on the screen.
4. If you click on the **Disk Space...** button, an **Available Disk Space** screen appears for your selected drive.
5. Click the down arrow at the Drive label to select a drive space to examine. Optional drive destinations, the amounts of Space Available and Space Required are displayed.
6. Select **OK** to choose a new drive for installation. The new drive letter is substituted in the installation path name under the Destination Folder label.

NOTE: If you select **Cancel**, your software will install in the original default location that has been preselected for you.

7. To enter your component and drive selections, choose **Next.**

Choose Destination Location

1. The Choose Destination Location screen appears from which you can select a destination location.
2. "Select the folder where Setup will install your files. Setup will install Network Client in the following folder. The selected installation folder is displayed.
   - "To install to this folder, click **Next."**

   orz
   - "To install to a different folder, click **Browse...** and select another folder, then click **Next**."

Choose Incident Database Folder

1. The following message appears next: "Network Client will use the following folder for the Incident Database and Video." The selected default folder is displayed.
   - To select this folder, click **Next**. To select a different folder, click **Browse...** and select another folder."
2. Click **Next**.

Enter Product ID

The **Please enter your product ID screen** appears:

1. "Please enter your Product Key (located on the back of the jewel case for your Network Client software.)"
2. Enter your Product ID in the five boxes provided, by typing in four digits per box (auto-tabbed).
3. Click **Next** to enter the Product ID.

Setup Status

Next, the Setup Status screen appears with the message "Network Client is performing the requested operations," and then "InstallShield Wizard is complete."

Network Client Setup

1. The Network Client Setup screen appears with the message "InstallShield Wizard is complete. Setup has finished installing Network Client on your computer."

NOTE: Acrobat Reader is required to read the manuals and troubleshooting guide in the Network Client installation CD-ROM.

NOTE: Review of the README file, "Network Client 3.1, Important User Information" is recommended. The README file may contain updates more recent than information found in the manual or online Help.

2. You are asked to select or deselect these options:
   - Would you like to download Adobe Acrobat? (If you don't have Acrobat it will already be selected for you.)
   - Would you like to view the README?
3. Click on Finish when selections are complete. The README file opens if you selected that option.

Restarting Your Computer

1. Remove the CD and any other disks from their drives.
2. The Restarting Windows screen appears: "Setup has finished copying files to your computer. Before you can use the program, you must restart your computer." You are asked if you want to restart your computer.
3. "Select one of the following options and click OK to finish setup.":
   - **Yes**, I want to restart my computer now.
   - **No**, I will restart my computer later.
4. Next, click **OK**.
5. If you select **Yes**, the computer restarts, Network Client 3.1 is installed, and the Network Client 3.1 icon appears on your desktop.
6. If you want to wait until later to restart the computer and complete the installation, select **No**.

Starting Network Client 3.1

To start Network Client 3.1, either:

- Double-click on the Network Client 3.1 icon, or
- Go to **Start Menu** and select **Programs / Network Client 3.1**.

NETWORK CONFIGURATION

Data sent across a network is limited by bus speed, network traffic, network topology, packet size, and Intellex application(s). While minimum 10BaseT is recommended, 100BaseTX is preferred. Use the following guidelines when configuring your network.

NOTE: Consult with your IS network manager prior to installation of Network Client and before Intellex units are connected to your network.

Network Guidelines

Use the following guidelines when configuring your network.

1. Use the proper cables and connectors:
    - CAT 3 for 10Base-T (10Mbps) operation
    - CAT 5 for 100Base-TX (100Mbps) operation
2. Configure the network for the TCP/IP Protocol.
3. Manually assign an IP address to each Intellex unit and Network Client.

NOTE: We recommend against using a DHCP (Dynamic Host Configuration Protocol) server to assign IP addresses. Intellex setup is easier with fixed IP addresses. Consult your network administrator for assistance.

Computer Name

Each Intellex unit and Network Client workstation must have a unique Computer Name to distinguish it from all others on the network. Though not required, we recommend that you also assign a Workgroup name.

See your Intellex Installation manual for information on setting up Intellex on the network. If you install Network Client on a workstation with an existing connection to the network, you may skip this step.

NOTE: You must enable the **Client for Microsoft Networks** software on the Network Client workstation to set the **Computer name**.

1. Go to Windows **Control Panel** by clicking on **Start**, **Settings**, **Control Panel**.
2. Double-click on the **System** icon; the System Properties window will appear.
3. Select the **Network Identification** tab and click on the **Properties** button.
4. The **Identification Changes** window appears, showing the current **Computer name** and **Workgroup** or **Domain** information.
5. Follow the directions below for each specific item.

NOTE: You may change both the computer name and workgroup at the same time, requiring only one restart of the unit.

Change Computer Name

NOTE: Since Windows converts all letters to upper-case, do not use the same name for more than one unit. The **Computer Name** cannot begin with a number.

1. To change the computer name type the new name (each unit's name must be unique for the domain or workgroup) in the box labeled **Computer name** and click **OK**.
2. A message will appear stating that you must reboot your computer for changes to take effect. Click **OK**.
3. At the **Network Identification** window, click **OK**.
4. The computer will now ask to be rebooted, click **Yes**, the computer will restart, and the new computer name is now effective.

Change Workgroup

1. To change the **Workgroup**, type the new name in the box labeled **Workgroup** and click **OK**.
2. A message will appear welcoming you to the new workgroup. Click **OK**.
3. A message will appear stating that you must reboot your computer for changes to take effect. Click **OK**.
4. At the **Network Identification** window, click **OK**.
5. The computer will now ask to be rebooted, click **Yes**, the computer will restart, and the new computer name is now effective.

Change to a Domain

If you plan to add the Intellex unit to a domain, contact your local network administrator. Your local network administrator will need to supply specific information based on your network to add the Intellex unit to the domain.

STARTING NETWORK CLIENT

To start the Network Client software, do one of the following:

- Double-click the **Network Client** icon on your desktop; or
- Click the **Start** button, then select **Programs**, then select the **Network Client** folder, then select the **Network Client** software icon.
- Click the Event Handler icon in your computer's system tray; this icon appears in the system tray if you have Event Notification enabled on this computer; see *Using Remote Instrument Setup* on page 31.

When the main screen appears, the software searches for all connected Intellex units.

If a connected unit has not been previously identified in Add Remote Instrument, it will not appear in the Video window.

See *Connecting Network Client With A Remote Intellex Unit* on page 11 or *Using Remote Instrument Setup* on page 31 for instructions on setting up connections for remote Intellex units and Network Client.

CONNECTING NETWORK CLIENT WITH A REMOTE INTELLEX UNIT

1. Start Network Client. Click **Settings.** Select Instruments. (You may need to enter a password, if using Classic Security.) The Remote Instrument Setup screen appears.
2. Click **Add**. The Add Remote Instrument screen appears.
3. Select the Instrument Information tab.
4. Enter the network name of the Intellex unit or the unit's IP address in the Instrument Name/IP Address field.

NOTE: Network servers find IP addresses faster than host or instrument names; use IP addresses for faster instrument refresh.

5. The default port assignments appear under Ports. Accept the defaults or enter the assigned ports for Communications and Live Video.
6. Select Intellex as the Instrument type.
7. To activate *Event Notification* on page 32 for the instrument, click on the Event Notification tab:
   - Put a check mark in the Activate checkbox.
   - Select the Camera number and a Priority level (1-10). Specify a priority level as you prefer.
   - Enter any Instruction(s) for an operator in case an event occurs and is displayed in the Event Viewer. When the operator clicks the Action icon in the Event Viewer, the instruction is displayed, for example, Call the police. Do not use more than 255 characters for any one instruction entry.
8. Select one of the following:

   OK—Click to accept the name as entered. You are then returned to the Remote Instrument Setup screen; click the **Close** button to accept the data entered.

   Cancel—Click to cancel the operation. Click **Close** to end the Remote Instrument Setup operation.

NETWORK CLIENT MAIN SCREEN

The main Network Client Main Screen contains controls and indicators for normal operation. It provides access to all other system functions:

1. Menu Bar

Use this section of the screen to access most Network Client operations.

2. Toolbars

Use this section of the screen to access common Network Client operations with a single mouse-click:

- Click on a folder in the Database View window to display the Database Toolbar.
- Click on a connected Instrument in the Sites View to display the Instrument Toolbar.
- Click on a Site folder in the Sites View to display the Sites Toolbar.

3. Sites

Use this pane at the left side of the Main Screen to review and configure connected devices (Instruments or Intellex units and their cameras).

To access both the Sites view (at the top) and the Instruments view (at the bottom), click on the Sites tab at the bottom of the pane:

- **Instruments View —** Click on the Sites tab to set up network connections for Devices (Instruments or Intellex units and their cameras). From here, review and configure an Intellex Instrument (click on its icon) and then any option: Status, Unit Setup, Live Display, Activity, Search Overlay, Alarms, Video, Help.
- **Sites View —** Click on the Sites tab to set up folders to review any connected devices. Drag and drop both Intellex unit and camera icons from the Instruments view into these folders.

4. Video Review Area: Video Playback or Live Video — Use this section of the screen, at top right, to display and control video playback or live video.

5. Databases

Use this section of the screen to manage your Databases, Categories, and Incidents or create annotations for recorded video. This pane is divided into two areas:

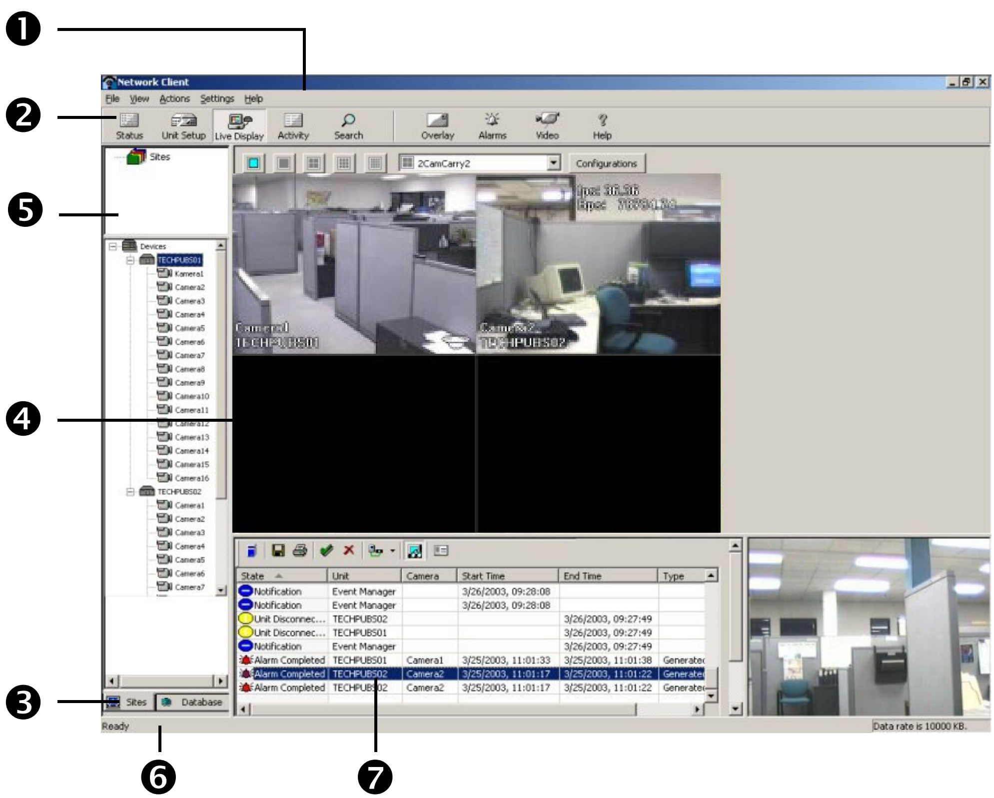
- **Database View —** Review recorded video by category or incident.
- **Notes View —** Enter notes for recorded video segments.

6. Status Bar

Refer to this section of the screen for descriptions of menu and button commands (left side) and messages concerning network status and operation of connected Intellex units (right side).

7. Event Viewer

The **Event Viewer** appears in the lower portion of the Network Client main screen if Event Notification is enabled. See the section *Event Viewer* on page 26 for more information.



MANAGING DATABASES, CATEGORIES AND INCIDENTS

Database management features accessed through the main screen are similar to Windows Explorer databases. Network Client stores data on the local hard drive or attached network storage in a database that contains the following:

- Folders used for Categories
- Files used for Incidents within the Category folders.

Use this section of the main screen to manage:

- Databases
- Categories of contained within databases
- Associated video incidents

Databases

Use the database generated by Network Client or create a database to contain the Category folders you will create.

Display Databases

1. Select a database. The categories associated with the database are displayed.
2. Double-click the database icon or click the plus sign (**+**) to open the database.
3. Double-click the icon again or click the minus sign (**-**) to close the database.

Categories

Create different categories according to your criteria, for example:

- alarm events
- cameras
- locations

Display Categories

1. Click the plus (**+**) sign next to the database icon to display its associated categories.
2. Select a category. Any associated notes are displayed.
3. Double-click the folder icon to open the category.
4. Double-click the folder icon again to close the category

Incidents

As you download video, you can save video segments as an incident in one of the categories. If need be, two or more incidents can be saved with the same name in the same category.

You can move incidents from one category to another, or you can move all incidents to another category. You can also rename or delete categories or incidents.

NOTE: Because of this flexibility, use the Notes View extensively to save time when searching for a specific incident.

Display Incidents

1. To display the incidents in a category, click the plus sign (+) next to the category icon or double-click the category.
2. When you are finished, double-click the category icon again to close the category.

Play, Review and Record Incidents

To play an incident:

1. Select an incident (any associated notes are displayed).
2. Click the camera icon to play the incident's video.
3. Video playback begins in the Video Review area.

To review a video segment, use the *Playback Controls* on page 74.

To review multiple video segments or multiple camera views at the same time, use *Playback Display Buttons* on page 73.

To save, or record, a single image or a video clip of an incident, use *Export to Bitmap* on page 85 *or* *Export to AVI or File* on page 86.

Popup Menus

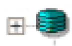
Popup Menus provide quick access to the most commonly used tools for each feature. Right-click the selected database, category or incident to display the associated Popup Menu.

For more information, see *Database Popup Menu* on page 100 or *Incident Popup Menu* on page 100.

DATABASE VIEW

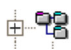
To setup files for database storage and review:

Use Database View (accessed through the Popup Menus, Database Toolbar or Menu) to create or manage databases with the following functions:



To manage categories and incidents in databases:

1. Right-click the plus sign next to the database.
2. Use the *Database Popup Menu* on page 100:
   - New Database
   - Rename Database
   - Delete Database
   - New Category
   - Import



To view and manage incidents in categories:

1. Right-click the plus sign next to the category.
2. Use the *Category Popup Menu* on page 100:
   - New Category
   - Delete Category
   - Move All Incidents In Category
   - Rename Category

To setup and manage incident files:

Setup:

1. Go to the Main Menu and select Action.
2. Select Retrieve Video or Retrieve Alarms from the Action pulldown menu.
3. Enter your Incident information in the Retrieve Video or Alarm window.
4. Choose Save Incident.

Manage:

1. Right-click on the Incident file
2. Use *Incident Popup Menu* on page 100 to:
   - Delete Incident
   - Move Incident
   - Rename Incident
   - Export to an AVI or IM_ file

To create multi-camera incidents:

Setup:

1. Go to the Main Menu and select Action.
2. Select Retrieve Video or Retrieve Alarms from the Action pulldown menu.
3. Enter your Incident information in the Retrieve Video or Retrieve Alarm dialog; be sure to include all cameras for the incidents you want to create for your database.
4. Choose Save Incident.

Manage:

1. Right-click on the Multi-Camera Incident files.
2. Use the *Incident Popup Menu* on page 100 to:
    - Delete Incident
    - Move Incident
    - Rename Incident
    - Export to AVI or IM_ files

To play back a video segment:

1. Right-click on the incident file to select a video segment or multiple segments; you can choose single or multiple views.
2. Use the slider bars and arrows to advance or reverse individual or multiple segments.

More on the New Category feature:

While you can right-click on the Category file to add a new category, you can also click on the New Category button on the Toolbar to add a new category.

Use the New Category option to add to the incident database:

- new categories
- related notes

Category

Enter the name of the new category, up to 32 characters. Each category name must be unique.

Notes

Enter any notes that apply to the new category, up to 1,024 characters. Edit the note directly or use the Notes popup menu to Undo, Cut, Copy, Paste, Delete or Select All.

Click **OK** to accept the new category name and its related notes and return to the main screen. If the category name already exists in the incident database, a message appears. Change the name and try again.

Click to **Cancel** the operation and return to the main screen.

SITES VIEW

Sites View provides access to many Intellex units and cameras, so they can be organized as needed into hierarchical groups. The Sites View allows users to classify and sort many Intellex units in a hierarchy to make it easier to find the Intellex units/cameras. You may decide to group the cameras by function or location. You may use up to 10 levels in a nested hierarchy.

NOTE: It is possible for cameras to be in more than one group. For example, Camera 1 (Hallway) may be in a folder for Inventory Access and in another folder for All First Floor Views.

Devices

To add a Device to the list, drag the Device icon from the Device View and place it in the folder of choice. Devices can be dragged from other folders in Sites View to create new Devices in folders.

Camera Site

A camera can be added to a folder without including its Device or Intellex unit. This type of collection is called a Camera Site. Each Camera Site keeps its connection information related to the Device or Intellex unit it is connected through. The icons used in Sites View are:

This is the root folder; the default name for this folder is Sites folder. It can be renamed, but cannot be deleted.

This is a Sites folder. These folders can be created in other folders.

Folders can only be deleted when they are empty. Folders can be renamed any time. New folders can be added any time.

This Device is connected to a network.

When a Device is removed from a site, it is not removed from Device View.

When the Device is removed from a site folder, all of the cameras attached to that Device will be deleted from the folder.

When a Device is renamed in the site view, that name is only for the site view.

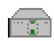
This camera is associated with a Device that is connected to the network and displayed in a site folder.

The camera cannot be deleted or renamed.

This is a Site Camera.

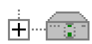
Site Cameras can be renamed and deleted.

The default name for a Site Camera is Camera Name (Device Name).



This Device is not connected to the network.

Selecting the Device causes Network Client to try and connect to that unit.



Click the Plus sign (**+**) next to a Device to show an expanded view of the cameras connected to that Device.

The cameras displayed are from the last time the connection was refreshed.

Select the Device or camera name to start the refresh function.

The Device this camera is associated with is not connected to the network.

Selecting the camera causes Network Client to try and make a connection to that Device.

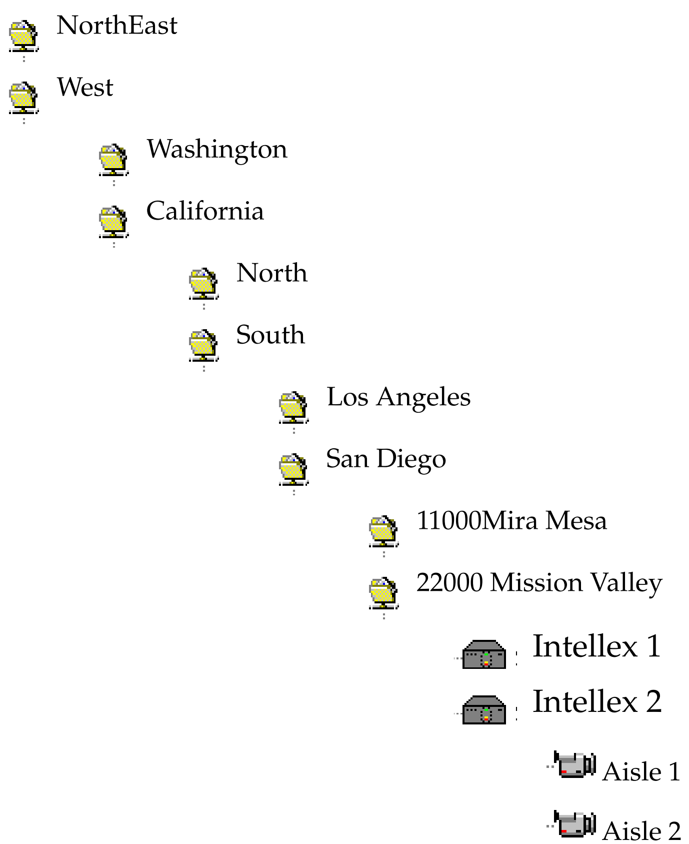
The Device associated with this Camera Site is not connected or the connection was lost. Selecting the Camera Site forces a refresh of the Camera Site.

MANAGING MULTIPLE SITES

Managing large number of locations and Intellex units requires the ability to organize the Intellex units. The user adds subfoldersz to the root folder that may contain groups or collections as follows:

- Sites / Folders
- Instruments / Units
- Single cameras on an instrument

The Sites View allows users to classify and sort hundreds of Intellex units to make it easier to find the Intellex units/ cameras:



Sites and cameras can be grouped geographically and functionally in nested levels.

Cameras can be added to a category or folder without including the connected instrument. This type of group is called a Camera Site. It is possible for cameras to be in more than one group:

- Inventory Control
  - Camera 1 Receiving Dock
  - Camera 4 Material Requisition
- First Floor
  - Camera 1 Receiving Dock
  - Camera 6 Back Hallway

DEVICE VIEW

The Device View allows use of the following features:

- Remote Setup
- Remote Configuration
- Retrieve Video and Live Video

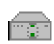
Access these features with:

- Devices View Popup Menu
- the Toolbar
- the Menu

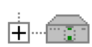
Devices View displays the following icons:

This Device (Intellex unit or instrument) is connected to the network.

Device contains all of cameras connected to that device.



This Device is not connected. Selecting the Device will cause Network Client to try and connect to that unit.



Click the plus sign (**+**) next to an Device to show an expanded view of the cameras connected to that Device. The camera names shown are the names of the cameras the last time the unit was connected.

In the case that the unit has never been connected, the camera names will be Camera XX.

This camera is attached to a Device that is not connected to the network. Selecting the camera will cause Network Client to try and make a connection to that Device.

A connection to the unit at this Camera Site has not been established or the connection was lost. Selecting the Camera Site forces a refresh of the Camera Site.

INSTRUMENT ACTIVITY LOG

The Activity Log retrieves a record of all activity performed on an Intellex unit. An activity is defined as any action that a user performs locally on the unit or remotely via Network Client. The log lists user name, date/time the activity occurred, the access location (local or via Network Client), the category of activity, and the activity that occurred on that menu.

The log can be printed and sorted using the filters selected in the Activity Filter area. If the Activity Log exceeds its maximum size of 20,0000 items (about 30 days of activity), the oldest stored data is overwritten by the newest incoming data.

To use the Activity Log:

- Click the **Activity** icon on the toolbar; or
- From the **Actions** menu select **Instrument Activity Log**.

Select the **Range** from the pull-down menu. If you select **Specify**, specify a **Start** and **End** time for the filter.

Click **Retrieve** to retrieve all activities that meet the Activity Filter criteria. Once a log has been retrieved, the list display can be modified by selecting a **User** or **Category** from the Activity Filter area.

Under **Date/Time Filter**, select a **Range** from: **Last 24 hours**, **Today**, **Yesterday**, **Specify**, and **All Time**.

If **Specify** is selected, the **Start** and **End** fields are active. In **Start**, set the time for the activity log to begin. To change the time setting, select the hour or minutes and click on the up or down arrow to specify the desired start time. In **End**, set the time for the activity log to end. To change the time setting, select the hour or minutes and click on the up or down arrow to specify the desired end time.

Activity Filter

Under **User**, select an active user or **ALL**.

Under **Category**, select **ALL** or a category: Security, Setup, Surveillance, System, or Utility. If **Category** is selected, then you may choose an **Activity** in the that Category.

The retrieved data is displayed in columns:

- **User Name:** Login name of the user who performed the action.
- **Date/Time:** Date and time the action was performed.
- **Access Loc:** Lists whether the action performed was local to the Intellex unit or via Network Client.

- **Category:** The Category in which to choose an Activity: All, Security, Setup, Surveillance, System, and Utility.
- **Activity:** Lists the Activity from a selected Category’s menu options.
- **Data:** Lists whether data was accessed, video was downloaded, and so on.

Choose from the export and print options:

- **Export All:** Exports the entire log to a file.
- **Export Display:** Exports the displayed log to a file.
- **Print Display:** Click to print the log.

EVENT VIEWER

The Event Viewer list events in seven columns. As each incoming event is received, it appears at the top of the list. Each column can be sorted in ascending or descending order. Select the column header and click its sort arrow to change its sort order.

- The **State** column displays an Icon and a text message for the state of each event listed. An event may have only show one of six states as follows:
- The **Unit** column shows the unit name from which the event is coming.
- The **Camera** column shows the name of the camera and not the number.
- The **Start Time** column shows date and time of the event's start. The time shown comes from the device sending the event, wherever that device is located. No time conversion is performed.
- The **End Time** column shows date and time of the event's end. The time shown comes from the device sending the event, wherever that device is located. No time conversion is performed.
- The **Type** column lists the type of event that was generated by the unit:
    - An **Alarm** contact on a unit was activated
    - **Video** on a camera was lost
    - A user has **Generated** an alarm
    - A **Motion Detection** alarm was activated
    - A **Motion Exception** alarm was activated
    - A **Perimeter Violation** alarm was activated
    - A **Light Change** alarm was activated
    - A Text **Exception** alarm was activated
    - An **Unknown** event was logged

Event Viewer Toolbar

1 2 3 4 5 6 7 8

The **Event Viewer toolbar** is located just below the active view splitter bar and has six standard buttons, one sticky button and a multipurpose button for Video Retrieval.

1 — The **Unit Status** button calls the Event Status dialog, which displays a list of units and their status.

2 — Press the **Save** button to save the selected events. In the Save dialog enter a directory and file name. The default file type is .html, but any name or extension can be entered.

3 — Press the **Print** button to print the entries displayed.

When preparing the Event list for print, arrange the column layout as you want them printed. If a column is collapsed, it will not be printed. If a column is expanded larger than another column, it will take up more space and other columns' space will be reduced. In this version the only font for printed reports is Arial 10 pt.

4 — Use the **Event Reviewed** button to change the state of the event if if you want to preserve and not remove it from the list. The event will be removed in sequence only when the Event Handler's memory buffer capacity can store no more events in the list.

5 — Use the **Delete** button to remove one or more events from the list.

6 — The **Video Retrieval** button has three options: Retrieve Video; Retrieve Prealarm Video; Retrieve Specific Video.

- The **Retrieve Video** option calls the same dialog as the Video button on the main toolbar.
- The **Retrieve Prealarm Video** option changes the start time to the pre-alarm information for the event.
- The **Retrieve Specific Video** option calls the same dialog as the **Video** button on the main toolbar, with the camera from the listed event selected, and you may choose more cameras, specify the date, and select text or audio information to be retrieved along with the video.

7 — Press the **Live View** button to display live video for the selected camera in the Event Viewer's **Live Video Display** pane. This view displays the live video from this event's camera, not the actual event's video. This button must be pressed to return it to off ("up") position. Double-clicking on an event is the same as pressing this button to its on ("down") position. Double-clicking on another event switches the live view to the new event and leaves this button in the on ("down") position.

8 — The **Action** button displays an action for the operator to perform. The instruction for this action must be entered during Event Notification setup in the Add Remote Instrument or Edit Remote Instrument dialogs.

INSTRUMENT STATUS

NOTE: The Network Client software automatically searches for all Intellex units on startup. However, to minimize network traffic, it will not search again unless you click **Refresh Instruments** in the **Actions** menu.

The Instrument Status window displays an instrument status summary, beginning with unit name and version number at the upper left of the Playback window area and version information for Network Client at the upper right.

Select any connected Intellex unit. Click on Status in the Toolbar. Status information appears in the Playback area for the following attributes:

Refresh — Click to display an updated list of all cameras connected to the Intellex unit.

NOTE: Instrument Names are not resolved as quickly as IP addresses. Servers on large networks may not be able to find the host Intellex Instrument Name within the 15 second refresh period. A second refresh may be needed to find all connected Intellex units.

Status — Lists the connect and recording status for each camera.

- The camera icon indicates that a camera is connected to the Intellex unit. If an **X** appears over a camera icon, the camera is not connected to the Intellex unit.
- The recording icon indicates whether or not the camera is being recorded. If an **X** appears over a recording icon, the camera view is not being recorded by the Intellex unit.

Camera — Lists the name for each camera, sorted by camera number (1–16). Camera numbers are configured in the cameras portion of the Setup Options screen.

Quality — Lists the current record quality setting (Super, Normal or Extended Record) for each camera. Quality settings are configured in the Schedule portion of the Setup Options screen (Regular Schedule, Custom Schedule or Single Camera).

- **Super**: At this setting, the unit records images at the highest image quality. Since the unit uses the lowest level of compression, it requires the most storage space.
- **Normal**: At this setting, the unit records images at normal image quality. This setting provides a balance between compression and storage space requirements.
- **Extended Record**: At this setting, the unit records images at the highest level of compression. This setting requires the lowest amount of storage space.

Sensitivity — Lists the current sensitivity setting (High Sensitivity or Normal Sensitivity) for each camera. Sensitivity settings are configured in the Schedule portion of the Setup Option screen.(Displays Normal on units with Intellex v1.6 or lower software.)

NOTE: Network Client 3.1 is backwards compatible with Intellex 2.01 and higher.

High — Intellex records the smaller changes between images, improving the perceived picture quality. As a result, this setting requires more storage space.

- Normal: Intellex ignores the smaller, more subtle changes between images.

Mode — Lists the current operating mode for each camera (Active, Alarmed, Disabled or Stopped). Schedule Mode settings are configured in the schedule portion of the Setup Options screen.

- **Active**: Select this option to define an active segment. The unit records images from the camera at the configured record rate and quality. A live filter can also be configured for the segment.
- **Alarmed**: Select this option to define an alarmed segment. The unit only records images from the camera when the live filter or alarm input is activated It can also store a selected amount of prealarm images at the configured quality.
- **Disabled**: Select this option to define a disabled segment. The unit does not record or display any images from the camera. It also ignores any alarms.

Pre-Alarm — Lists the pre-alarm setting for each camera in Alarmed mode. Pre-alarm settings are configured in the Schedule portion of the Setup Options screen.

Filter — Lists the current filter, if any, which is configured for each camera in Active or Alarmed mode. Filter settings are configured in the Schedule portion of the Setup Options screen (Regular Schedule, Custom Schedule or Single Camera).

The following status items are displayed underneath the status list.

Record Mode — Displays the current record mode. Use this screen to select and configure a recording mode. (Circular or Linear).

Circular Record Mode: In this mode, the unit records from the beginning to the end of the image database. When the database is full, the unit automatically starts recording from the beginning of the database. The unit does not clear the database. However, it overwrites older images, both archived and unarchived, including alarm images. Once overwritten, unarchived images cannot be recovered. Circular Record mode is the default setting on the Intellex unit.

NOTE: Circular Mode is the default factory setting.

Linear Record Mode: In linear mode, the unit records from the beginning to the end of the image database. When the database is full, the unit stops recording and displays an options screen. The operator must then choose one of the following options:

- Perform a backup immediately

- Postpone archiving and recording until later.
- Continue recording images at the beginning of the database, which overwrites older images.
- After clearing the option screen, the operator must select Begin Record on the Setup Options screen to restart unit recording.

Time Span — Displays duration of unit's stored video in days, hours and minutes.

Total Images — Displays the total number of images stored in the image database.

Record Rate — Displays the current system record rate in images per second (ips).

Record State — Indicates whether the unit is recording or idle.

Schedule Mode — Displays the schedule mode for the selected unit (Regular, Custom or Single Camera).

USING REMOTE INSTRUMENT SETUP

From the Settings menu, select Instruments. (You may need to enter a password if you are using Classic Security.) The Remote Instrument Setup screen appears.

Add

Click **Add** to add a new device to the Instrument View list. The Remote Instrument Setup screen appears. Enter the name of the device or its IP address.

NOTE: The network finds a device by its IP address more readily than by a proper name, particularly under conditions of heavy network traffic. Ask your System Administrator to provide you with the IP addresses of connected Intellex units.

Port Numbers

NOTE: Consult your System Administrator before altering any port address assignment. Unless instructed otherwise by your System Administrator, accept the default settings, as they correspond to the default settings for Intellex.

Enter a unique number for the Communication port and the Live Video port.

Port 5000:

- Default port for data communications with Intellex
- Default port for retrieving recorded video from Intellex
- May be assigned as a USB Plug-and-Play port on some laptops

Port 5001:

- Default port for live video from Intellex

NOTE: All live video uses the Live Video port. This port must not be used by another instrument. This port cannot be the same as the Communication port.

Port 5002:

- Network Client to Network Client Communication

Port 5003:

- Default port for Event Notification (in version 3.1; port 5003 was used differently in earlier versions of Network Client)

The Max Live Clients pulldown list allows you to limit the number of Network Client users who can access this Intellex unit. If the unit's performance is adverseley affected because multiple Network Client users are viewing live video simultaneously, then reduce the number of clients permitted access to this unit. The default setting is five (5).

Instrument Name or IP Address

- Enter the name of the instrument or its IP address.

Instrument Type

Select the instrument type for this connection, whether an Intellex or another Network Client workstation.

NOTE: Since the network finds an instrument by its IP address more readily than by a proper name (particularly under conditions of heavy network traffic), use the IP address whenever possible (ask your System Administrator to provide IP addresses of connected Intellex units).

Click **Cancel** to close the dialog with no action taken. Click **Help** for information specific to the commands and entries for this dialog. Click **OK** to confirm the selections and return to the Remote Instrument Setup dialog.

Click **Close** to end Remote Instrument Setup. The new Instrument appears in the Instrument View list.

Select **Refresh Instruments** from Actions on the menu bar. Network Client searches for the Instrument and displays its associated cameras in the Instrument View.

Event Notification

Event Notification allows Network Client to receive real-time notification of events from Intellex units. To enable Event Notification for this remote instrument (Intellex unit), click on the Event Notification tab. Click the **Activate** checkbox to enable **Event Notification** for this remote instrument. After restarting Network Client, the Event Handler will be loaded in the system tray and the Event Viewer will be displayed in the lower portion of the Network Client screen: the event log in the left pane, an independent live view pane in the right pane, and the Event View Toolbar above these two panes.

Port

The default setting for the Event Notification port is **5003**; do not change this setting unless your network administrator instructs you to do so.

Camera

Select a camera (from the pull-down list), assign it a **Priority Level** (from the pull-down list), and enter any **Instructions** to be followed as you designate. If an event is triggered, its assigned Priority Level is displayed in the Event Viewer list, and any Instructions for that event are displayed when a user clicks the **Action** icon in the Event View Toolbar.

Instructions

Enter any instruction(s) for an operator to follow if an event occurs and is displayed in the Event Viewer, when the operator clicks the **Action** icon, for example, to call the police. Do not use more than 255 characters for any one instruction entry.

Edit

Select an existing Instrument Name/IP Address from the list in Remote Instrument Setup. Click **Edit** to change the configuration of a selected device.

The Edit Remote Instrument screen appears. Change the name/IP address, port or type of the device. Instrument names, IP addresses, communication port numbers and live video port numbers must be unique. Change or confirm the settings on the Event Notification tab.

Click **Cancel** to close the dialog with no action taken. Click **Help** for information specific to the commands and entries for this dialog. Click **OK** to confirm the selections and return to the Remote Instrument Setup dialog.

Click **Close** to end Remote Instrument Setup. The changed Instrument appears in the Instrument View list.

Select **Refresh Instruments** from Actions on the menu bar. Network Client searches for the Instrument and displays its associated cameras in the Instrument View.

Delete

Select the Instrument that is to be removed and press the **Delete** button. On the Delete Instrument screen, select From Instrument List Only or From Instrument and Sites List. Click OK to confirm your selection.

Click **Close** to end Remote Instrument Setup. The deleted Instrument is removed from the Instrument View list.

Close

Click **Close** to exit the Remote Instrument Setup dialog. **Close** does not affect any settings.

Help

Click **Help** to bring up useful information on how to use this dialog.

LIVE VIDEO DISPLAY

To display Live Video from an Intellex unit, use one of the following options:

- From the Actions menu, select Live Video Display
- Click the Live Display button on the Toolbar
- On the Instrument View Popup Menu, select Live Display

Choose from **Full Screen**, **Single Pane**, **2x2**, **3x3**, or **4x4** displays.

Live Video Source

Change the live video source, by dragging the icon for the Intellex unit from the Instrument list in the Instruments View window to the Video Review area on the right. Live video from the Intellex unit is then displayed in the Video Review area.

Camera Configurations

Use **Configuration** to create combinations of cameras for rapid review of live video from selected locations.

1. Select the live video display by clicking on the **Full Screen**, **Single Pane**, **2x2**, **3x3** or **4x4** buttons. Change the camera display by dragging an active camera from the Intellex unit camera list in the Instruments View window to the display area on the right.
2. Click the **Configurations** button. Select **Create** to save the current camera setup with a name of your choosing. Click **Close** to return to the Network Client Main Screen.
3. Click **Select** to review a previously created combination. Click **Rename** to change the name of a configuration. Click **Delete** to remove a configuration from the list. Click **Close** to return to the Network Client Main Screen.
4. Use the pull down menu to rapidly change the camera configuration for the live video display of the selected Intellex unit.

NOTE: If the camera has dome control features available to the user, a dome symbol appears in the lower right-hand corner of the Live Video Display. See *Dome Camera Control - Remote Features* on page 36 for more information.

Live Video Popup Menu

To use the Live Video Popup Menu, right-click on the Video Review display (any configuration) and select from the following pulldown menu options:

- Switch to **Full Screen**.
- **Select Single pane on/Return to multi-pane mode** (unit and camera are specified) for a select camera.
- **Remove** the selected camera from the Video Review area.
- **Remove All Cameras** from the Video Review area.
- **Setting** to review or adjust **Image Quality** or Motion Sensitivity for the selected camera.

NOTE: Click once on a camera's display pane to zoom in on its Live Display. Click again in the zoom display to return to the previous display.

- Activate the Primary **Camera Control** when the selected pane indicates dome camera controls are available.
- **Generate an alarm** for the selected camera.
- Select **Cancel** to cancel these activities and return to Live Video Display.

Return from Full Screen

To switch back to the Video Review area from the Full Screen view:

- Double-click on the **Full Screen** view to return to multi-pane view; or,
- Right-click on the **Full Screen** view to call the **Live Video Popup Menu**.

Click on **Switch to Menu**, and the Video Review area reappears.

DOME CAMERA CONTROL - REMOTE FEATURES

NOTE: Dome cameras must be configured at the Intellex unit before Network Client is able to operate them from a remote location.

Network Client's Dome Camera Control feature allows you to remotely operate dome cameras on an Intellex unit that has cameras that support dome control.

If a camera on the remote Intellex unit has dome control features, its live video display contains a dome symbol. When you move the mouse pointer over the dome icon, this icon is highlighted in gray.

Remote control features on a dome camera include:

- pan and tilt
- zoom control
- iris control
- focus control

Dome camera control is available for these dome cameras: Speed Dome, Speed Dome Ultra, and Speed Dome Optima.

The following controls are available as manual or preprogrammed camera controls:

1. Select the *Primary Camera Controls* on page 36 to control most camera functions.
2. Select *Secondary Camera Controls* on page 39 to control camera pan/tilt functions.
3. Select *Pattern and Preset Camera Controls* on page 38 to use the camera's programmable features.

Primary Camera Controls

The Primary Camera Controls features operate the dome camera functions.

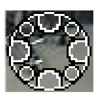
To access and control dome cameras:

1. Left-click on the dome camera symbol in the video display of the selected camera or
2. Right-click to display the Live Video Popup Menu; select **Camera Control**.
3. Next, the Primary Camera Controls appear; these will control your basic dome camera functions.

The following Primary Camera dome camera control features are now available:

Iris Control
To open iris, click on the **+** button.
To close iris click on **–**.
To restore automatic iris, click on middle button.

Zoom Control
To zoom in click on **+**.
To zoom out, click on **–**.



Pan/Tilt Control
To move camera left, right, up, down, or diagonally, select and click the appropriate button.
Click center of Pan-Tilt Control to stop camera movement.

Focus Control
To focus on nearby objects click on **+**.
To focus on more distant objects click **–**.
Click on middle button, the auto-iris, to place camera back into auto-focus.

Flip Button
Click to flip camera 180 degrees.

Preset Button
Click to go to Preset Overlay View.

Pattern Button
Click to go to Pattern Overlay View.

Cancel Button
Click to go back to Camera Icon View.

- The Camera In Use message box is displayed if another user is controlling the camera.
- The Camera Control Session Terminated message box is displayed if the control session terminates due to inactivity.
- Control of a camera by a new user is available, if it has not been used for 60 seconds.
- When another user takes control, the previous user session ends.
- The Camera Control Session Terminated message box appears to show end of session to the previous user.

Pattern and Preset Camera Controls

Use these features to operate the camera's preset and pattern scan modes. The **Preset** and **Pattern** buttons will only display if the Preset and Pattern features are configured for a selected camera.

Preset Overlay View

You can move your camera quickly to one or more specified positions or settings with Preset Overlay. To use Preset Overlay:

1. Select your camera and click on the dome symbol to enter the Primary Camera Control interface.
2. Click **Preset** button, then click the down-arrow button.
3. Select appropriate preset number.
4. The camera moves to the selected preset position.
5. Click **Exit** to leave Camera Control.

Pattern Overlay View

With Pattern Overlay, prerecorded movements and positions can be used for certain kinds of controllable cameras:

1. Select the camera. Click on the dome symbol to enter the Primary Camera Control interface.
2. Click the **Pattern** button, then click the down-arrow button.
3. Select the appropriate pattern number.
4. Select **Run**.
5. The camera will run and move in the desired manner.

6. Click **Exit** to leave Camera Control.

NOTE: While preset and pattern configuration are not supported in this version of Network Client, these capabilities are planned for future versions. Presets and patterns will be setup from the TouchTracker for use through the Network Client remote camera control interface.

NOTE: The **Preset** and **Pattern** buttons will display only if they are configured for the selected camera.

Secondary Camera Controls

The Secondary Camera Controls use the mouse to control pan-tilt postioning.

1. First, float the pointer over the center of the video window so the Cursor Origin Mark, a four-way arrow symbol, appears.
2. Cursor Origin Mark runs the camera controls directionally, relative to its central (origin) position.
3. Center the Cursor Origin Mark on the video window.
4. Click the left mouse button.
5. The cursor arrow changes into a navigational tool with directional arrows (Primary Camera Controls simultaneously disappear).
6. Now you can control the camera movement (direction, speed and zoom) from the cursor's central position.

Direction and Speed

The direction and speed of camera movement are controlled by the navigation arrow's position relative to the cursor origin mark.

- The speed of the camera's movement increases as you increase the arrow's distance from the central Cursor Origin Mark.
- Cameras move in the direction indicated by the arrow direction you have selected.

Zoom

- A mouse with center scroll wheel can be used to control the zoom. Using the Cursor Origin Mark for positioning, select your desired location, then move the scroll wheel forward to zoom in and backwards to zoom out.

The following settings are available:

Cursor Origin Mark

Tilt up

Tilt down

Pan left

Pan right

Tilt up – Pan left

Tilt up – Pan right

Tilt down – Pan left

Tilt down – Pan right

REMOTE SEARCH

Remote Search lets you search the image database using a variety of criteria:

- With Image Filters;
- with No Image Filters;
- with Text Streams.

From the Main screen or the Playback screen click the **Search** button on the Toolbar.

The Searching Remote Unit screen appears, displaying the unit's name. From this screen, set up filters as follows:

Mode

On the Mode tab, choose the search mode you wish to use; the tabs will change according to the mode selected:

No Image Filters — Select this option to search the image database using **Date/Time**, **Cameras** and **Alarm** criteria (see *No Image Filters* on page 41). This is the default selection.

With Image Filters — Select this option to search the image database using the Smart Search filters (see *Searching with Filters* on page 44).

Text Streams — Select this option to search the image database using text strings (see *Text Streams Search* on page 63).

NOTE: Playback Search is a protected feature. You must possess the Playback Enable privilege to access it (see Security Setup).

No Image Filters

Select **No Image Filters**. The search dialog displays a choice of criteria including **Date/Time**, **Cameras** and **Alarm** tabs and removes the **Filters** tab. After choosing the criteria for the search, click **Find** to start. The search icon moves to indicate the unit is:

- searching
- erasing previous search results
- listing matching video segments, as they are found

Click **Stop** to interrupt the search process. The unit lists all video segments that it found before the interruption.

When you locate and select the correct video segment, double-click on its title or select **Get.** The Retrieve Video screen appears.

Click on **OK** to download the selected video segment.

Click **New** to clear the current search criteria on all of the search screens and begin a new search. The unit erases the previous search results from the screen.

Click **Close** to close this screen. Either the main screen or the playback screen appears. Click **Help** to display online help for this screen.

Date/Time Search

Use the Date/Time screen to search for video segments within a specific period.

All recorded images — Use this option to include all video segments in the search, regardless of their time information. This is the default.

Images between — Use this option to include in the search only those video segments whose time information falls within a specific date and time range.

To select the date and time to search:

1. Click the **Images between** indicator. The unit enables the associated fields.
2. Click the hours display. Click the up arrow or the down arrow to display the correct hour (24-hour format).
3. Click the minutes display. Click the up arrow or the down arrow to display the correct minutes.
4. Click the down arrow in the date box to display the calendar. Click the left arrow to select the previous month or the right arrow to select the next month.
5. Click the desired date. The calendar disappears and the selected date appears.

Images within — Use this option to include video segments saved from a previous time to the present; for example, the last two hours.

To select the search time:

1. Click the **Images within** indicator. The unit enables the associated fields.
2. Click the down arrow on the units box. The default is **Hour(s)**. Click the correct units.
3. Click the up or down arrow on the scroll box to display the correct amount of time. The default is **1**.

Then select additional search criteria (**Cameras** or **Alarm**) or click **Find** to start the search using the entered search criteria.

Camera Search

Use the Cameras screen to search for video segments from a specific camera.

Any Camera — Use this option to include video segments from all cameras in the search. This is the default.

Specific Camera — Use this option to include only video segments from a specific camera in the search.

To select the specific camera:

1. Click the **Specific Camera** indicator. The unit enables the camera name box.
2. Click the down arrow. A list of camera names appears in camera number order (**1–16**). The first is the default.
3. Use the scroll bar to display cameras that are hidden. Click the up arrow or the down arrow or drag the scroll button up or down. Click the desired camera.

Then select additional search criteria (**Date/Time** or **Alarm**) or click **Find** to start the search using the entered search criteria.

Alarm Search

Use the Alarm screen to search for video segments based on alarm information.

Alarm Input — Use this option to use alarm input information to search the image database.

No Input — Use this option to include video segments in the search which have no alarm input. This is the default.

Any Input — Use this option to include any video segments in the search which have an alarm input.

Specific Input — Use this option to include video segments in the search which have a specific alarm input.

To select the specific input:

1. Click the **Specific Input** indicator. The unit enables the alarm input name box.
2. Click the down arrow. A list of alarm input names appears in alarm input order (**1–16**). The first is the default.
3. Use the scroll bar to display alarm names that are hidden. Click the up arrow or the down arrow or drag the scroll button up or down. Click the desired alarm input name.

Alarm Options

While you are still in this search mode (**No Image Filters**), you can select the following criteria to qualify your alarm search further:

Live Filters — Use this option to use live filter information to search the image database.

No Filters — Use this option to exclude video segments from the search where images were recorded because a filter was triggered. This is the default.

Any Filter — Use this option to include any video segments in the search where images were recorded because a filter was triggered.

Specific Filter — Use this option to include video segments in the search where images were recorded because a specific filter was triggered.

To select the specific filter:

1. Click the **Specific Filter** indicator. The unit enables the filter name box.
2. Click the down arrow. A list of filter names appears in alphabetical order. The first is the default. Click the desired filter.

Video Loss — Use this option to include all video loss segments in the search.

Generated Alarm — Use this option to include all segments with generated alarms in the search.

Then select additional search criteria (**Date/Time** or **Cameras**) or click **Find** to start the search using the entered search criteria.

Searching with Filters

Use the Searching with Filters screens to select the search criteria, which the unit combines from each screen.

Select **With Image Filters**. The unit displays the **Date/Time** and **Filters** tabs and removes the **Cameras** and **Alarm** tabs. After choosing the criteria for the search, click **Find** to start. As soon as a search is started:

- the unit erases any previous search results from the screen,
- the search icon moves while the unit is searching and
- the unit lists matching video segments as they are found.

Click **Stop** to interrupt the search process. The unit lists all video segments that it found before the interruption. When you locate the correct video segment, double-click on its title or select **Get**. The Retrieve Video screen appears.

Click on **OK** to download the selected video segment.

Click **New** to clear the current search criteria on all of the search screens and begin a new search. The unit erases the previous search results from the screen.

Click **Close** to close this screen. Either the main screen or the playback screen appears. Click **Help** to display online help for this screen.

Date/Time Search

Use the Date/Time screen to search for video segments within a specific period.

All recorded images — Use this option to include all video segments in the search, regardless of their time information. This is the default.

Images between — Use this option to include in the search only those video segments whose time information falls within a specific date and time range.

To select the date and time to search:

1. Click the **Images between** indicator. The unit enables the associated fields.
2. Click the hours display. Click the up arrow or the down arrow to display the correct hour (24-hour format).
3. Click the minutes display. Click the up arrow or the down arrow to display the correct minutes.
4. Click the down arrow in the date box to display the calendar. Click the left arrow to select the previous month or the right arrow to select the next month.
5. Click the desired date. The calendar disappears and the selected date appears.

Images within — Use this option to include video segments saved from a previous time to the present; for example, the last two hours.

To select the search time:

1. Click the **Images within** indicator. The unit enables the associated fields.
2. Click the down arrow on the units box. The default is **Hour(s)**. Click the correct units.
3. Click the up or down arrow on the scroll box to display the correct amount of time. The default is **1**.

Then select additional search criteria (**Filters**) or click **Find** to start the search using the entered search criteria.

Filters Search

Use the Filters screen to search the image database using the Smart Search filters.

NOTE: A Smart Search of an Intellex from Network Client can be interrupted by a second Network Client requesting a search on the same Intellex. If this interruption occurs, the second Network Client will receive the search results intended for the first Network Client.

Camera — Use this option to select the camera to be searched. You will configure the search filter for this camera.

To select the camera:

1. Click the down arrow. A list of camera names appears in camera number order (**1–16** or **1–8**). The first is the default.
2. Use the scroll bar to display cameras that are hidden. Click the up arrow or the down arrow or drag the scroll button up or down.
3. Click the desired camera.

Duration (min:sec) — Use this option to limit multiple listings of the same event during a search. When a video segment fulfills the search criteria, the unit lists it in the search results area. Then the unit skips ahead in the image database to search for the next event.

Example: There is a bridge that takes about 30 seconds to cross. To look for a truck crossing the bridge, set the duration to **00:30**. When the unit finds a segment with bridge activity, it lists the segment and skips ahead 30 seconds before continuing. It only lists one segment. If the duration was set to 10 seconds, the unit would list three different segments of the same event, at 10-second intervals.

This option can be set from five seconds to 10 minutes. The default is **00:05** (five seconds).

To set the duration:

1. Click the minutes display. Click the up arrow or the down arrow to display the correct minutes (**1–10**).
2. Click the seconds display. Click the up arrow or the down arrow to display the correct number of seconds (five-second increments).

NOTE: When searching the database, the unit may skip a few seconds more or less than the setting.

Filter — Use this option to select the filter for searching the image database. The default is **None**.

NOTE: Before you can configure a search filter, you must record at least one image from the camera. Until an image is recorded, the filter options are disabled.

To select the filter:

1. Click the down arrow. A list of filters appear. Click the desired filter.
2. Click **Setup** to configure the filter.

Setup — Select a filter for this search; then click **Setup** to configure it.

Then select additional search criteria (**Date/Time**) or click **Find** to start the search using the entered search criteria.

Search Filter Configuration

After you select a live filter, use the appropriate filter setup screen to configure it.

To select a Live Filter:

1. Click the down arrow. A list of filters appears:
   - Motion Detection
   - Perimeter Protection
   - Light Change
   - Motion Exception
2. Click the desired filter. Select **None** to disable any previously configured filters.
3. Click **Setup** to configure the filter.

Motion Detection

Use the Motion Detection screen to configure the target area for the motion detection filter. Once configured, the filter selects video segments with movement in the target area.

Motion Detection: (camera name) — Indicates the camera name.

Image Area — This area of the screen displays a camera image and provides a reference when configuring the filter.

Active Zone — Use the following options to configure the target area. This area can be nearly any shape or size.

Activate — Use this option to activate a specific target area.

Deactivate — Use this option to deactivate a previously activated target area.

Restore — Click to restore the target area to its dimensions before any changes.

Clear — Click to erase all targets in the active zone.

All — Click to activate all targets in the image area.

Undo — The unit stores each target area change in memory. Click to remove the last change to the target area.

Sensitivity — The unit uses this setting to distinguish between valid and invalid changes in the target area. At higher settings, small changes trigger the filter. At lower settings, larger changes are required to trigger the filter.

1...100 — Use this slide control to set the sensitivity for the filter from minimum (**1**) to maximum (**100**).

Default — Click to reset the sensitivity to its default middle position (**50**).

When motion detection configuration is complete, click **Apply** to apply the configuration for this filter as shown and close the Motion Detection screen.

Click **Cancel** to close the Motion Detection screen without saving any changes.

Click **Help** to display online help for this screen.

To define the target area(s):

NOTE: You can configure one or more motion detection target areas at a time.

1. Set the **Sensitivity**: **1** to **100**.
2. Move the mouse pointer to the image area. The mouse pointer changes to a plus sign.
3. Draw the boundaries of the target area.

NOTE: The target area must be enclosed to activate the filter.

   a. Move the mouse pointer to the first corner of the target area and click the mouse button.

NOTE: To erase the last endpoint, double-click the right mouse button.

   b. Move the mouse pointer to the next corner of the target area. The unit draws a line as the pointer moves.

NOTE: The mouse pointer changes to a null sign if you move it to an invalid location.

   c. Click the mouse button to lock this boundary and start a new one.
   d. Repeat these steps until you are ready to enclose the target area.
   e. Use one of the following methods to enclose the target area:
      - Set at least three endpoints. Then hold the mouse pointer over the last endpoint and double-click the button. The boundary lines disappear and the target area is defined by a semitransparent grid.
      - Move the mouse pointer to the starting point and click the mouse button. The boundary lines disappear and the target area is defined by a semitransparent grid.

4. To draw additional target areas, repeat steps 1 through 3.
5. To deactivate some of the targets, select **Deactivate**. Then draw a deactivation target area, using steps 1 through 3.

Click **Apply** to apply the configuration and close the Motion Detection screen. Click **Cancel** to close the Motion Detection screen without saving any changes.

Perimeter Violation

Use the Perimeter Violation screen to configure the target area for the perimeter violation filter. Once configured, the filter selects video segments with objects crossing into or out of the target area.

Perimeter Violation: (camera name) — Indicates the camera name.

Image Area — This area of the screen displays a camera image and provides a reference when configuring the filter.

Active Perimeter — Use the following options when configuring the target area. This area can be nearly any shape or size.

Restore — Click this button to restore the active zone to its dimensions when you first accessed this screen.

Clear — Click this button to erase all of the targets in the active zone, so you can start over again.

Sensitivity — The unit uses this setting to distinguish between valid and invalid changes in the target area. At higher settings, small changes trigger the filter. At lower settings, larger changes are required to trigger the filter.

1...100 — Use this slide control to set the sensitivity for the filter from minimum (**1**) to maximum (**100**).

Default — Click to reset the sensitivity to its default middle position (**50**).

Click **Apply** to apply the configuration for this filter as shown and close the Perimeter Violation screen. Click **Cancel** to close the Perimeter Violation screen without saving any changes. Click **Help** to display online help for this screen.

To define the target area:

NOTE: You can only configure one perimeter protection target area at a time.

1. Set the **Sensitivity**: **1** to **100**.
2. Move the mouse pointer to the image area. The mouse pointer changes to a plus sign.
3. Draw the boundaries of the target area.

NOTE: The target area must be enclosed to activate the filter.

a. Move the mouse pointer to the first corner of the target area and click the mouse button.

NOTE: To erase the last endpoint, double-click the right mouse button.

b. Move the mouse pointer to the next corner of the target area. The unit draws a line as the pointer moves.

NOTE: The mouse pointer changes to a null sign if you move it to an invalid location.

c. Click the mouse button to lock this boundary and start a new one.
d. Repeat these steps until you are ready to enclose the target area.
e. Use one of the following methods to enclose the target area:
   - Set at least three endpoints. Then hold the mouse pointer over the last endpoint and double-click the button. The boundary lines disappear and the target area is defined by a semitransparent grid.
   - Move the mouse pointer to the starting point and click the mouse button. The boundary lines disappear and the target area is defined by a semitransparent grid.

4. Click **Apply** to apply the configuration and close the Perimeter Violation screen.
5. Click **Cancel** to close the Perimeter Violation screen without saving any changes.

Light Change

Use the Light Change screen to configure the target area for the light change filter. Once configured, the filter selects video segments with light level changes. The light level can change when someone turns lights on or off, uses a flashlight or blocks the camera lens.

Light Change: (camera name) — Indicates the camera name.

Image Area — This area of the screen displays a camera image and provides a reference when configuring the filter.

Active Zone — The active zone is the area in which the filter's targets are activated. It can be nearly any shape or size.

Restore — Click this button to restore the active zone to its dimensions when you first accessed this screen.

Clear — Click this button to erase all of the targets in the active zone.

Sensitivity — The unit uses this setting to distinguish between valid and invalid changes in the target area. At higher settings, small changes trigger the filter. At lower settings, larger changes are required to trigger the filter.

1...100 — Use this slide control to set the sensitivity for the filter from minimum (**1**) to maximum (**100**).

Default — Click to reset the sensitivity to its default middle position (**50**).

Click **Apply** to apply the configuration for this filter as shown and close the Light Change screen. Click **Cancel** to close the Light Change screen without saving any changes. Click **Help** to display online help for this screen.

To define the target area:

NOTE: You can only configure one light change target area at a time.

1. Set the **Sensitivity**: **1** to **100**.
2. Move the mouse pointer to the image area. The mouse pointer changes to a plus sign.
3. Draw the boundaries of the target area.

NOTE: The target area must be enclosed to activate the filter.

   a. Move the mouse pointer to the first corner of the target area and click the mouse button.

NOTE: To erase the last endpoint, double-click the right mouse button.

   b. Move the mouse pointer to the next corner of the target area. The unit draws a line as the pointer moves.

NOTE: The mouse pointer changes to a null sign if you move it to an invalid location.

   c. Click the mouse button to lock this boundary and start a new one.
   d. Repeat these steps until you are ready to enclose the target area.
   e. Use one of the following methods to enclose the target area:
      - Set at least three endpoints. Then hold the mouse pointer over the last endpoint and double-click the button. The boundary lines disappear and the target area is defined by a semitransparent grid.
      - Move the mouse pointer to the starting point and click the mouse button. The boundary lines disappear and the target area is defined by a semitransparent grid.

When the grid is complete, click on **Apply** to apply the configuration and close the Light Change screen.

Click **Cancel** to close the Light Change screen without saving any changes.

MOTION EXCEPTION

Motion Exception lets you search for a specific event or type of activity by defining the position, size, direction, and speed of a moving object. Motion Exception parameters can filter live video or search recorded video to find the specified event or type of activity. After you apply the Motion Exception parameters, any object of the specified size (or larger), moving in the specified direction(s) at the specified speed (or faster) in the target area will trigger a Motion Exception alarm

NOTE: Motion Exception cannot operate if the scheduled record rate is less than 7.5 ips.

NOTE: Motion Exception requires a fixed camera or a dome in non-moving (fixed position) mode.

NOTE: You can configure one or more Motion Exception target areas at a time.

NOTE: Do not use Auto Rate Mode to configure recording rates when Motion Exception filters are used for alarm generation or search. Always use the Camera Selectable Rate Mode and set the minimum rate to 7.5 ips (6.25 for PAL) on the cameras using Motion Exception filters.

Comparing Motion Exception to Motion Detection: Which Does What?

Motion Exception is different from Motion Detection. You will probably find that Motion Exception is more effective than Motion Detection in performing "what if" searches. In some cases it is useful to let normal Motion Detection generate numerous alarms to guide you to the general area. Then you can use Motion Exception to search for the relevant details.

Where Motion Detection is generic, Motion Exception is specific. With Motion Exception, you can define multiple, smaller areas of interest, specify the size of the object to detect, and even specify the direction and speed of the object.

Note these important differences:

Motion Exception: ***Selectivity***	**Motion Detection:** ***Sensitivity***
Needs to analyze <u>many images before reacting</u>.	Reacts <u>image to image</u>.
Works best <u>outside</u>.	Works best <u>inside</u>.
Works best with movement <u>farther from the camera</u>.	Works best with movement <u>closer to the camera</u>.

Likelier to miss alarms than generate false alarms.	Likelier to generate false alarms.
Likelier to find specific motion when searching.	Likelier to find any motion when searching.
Use specific Tools to narrow the filter or search.	Use Sensitivity adjustment to narrow the filter or search.
Effectiveness is limited to specific camera views.	Effective on most camera views.
Not effective in low light. Will likely miss alarms in low light.	Not effective in low light. Will likely generate many false alarms in low light.

To use Motion Exception successfully, follow these rules:

1. Outside is better than inside.
2. Farther from the camera is better than closer.
3. A faster recording rate is better than a slower one.
4. Draw one or more target areas to exclude extraneous activity.
5. A target area near the center is better than one near the side.
6. Do not increase the target object size unless you need to do so.
7. Do not increase the target object speed unless you need to do so.
8. Good quality video feeds are essential.
9. Make sure that lighting is consistent.

All motion detection is imperfect. Standard Intellex Motion Detection may generate many false alarms, but within that list you may find the alarms that you need. Motion Exception can reduce the number of alarms that a"looser" Motion Detection search may generate. You can narrow the search by using Motion Exception to track motion in one direction, or by altering the object's size or speed to find only the relevant type of activity.

To assess the effectiveness of both types of motion filters for a single camera, loop that camera's signal to an unused input (make sure to set the termination properly). Use Motion Detection on one input and Motion Exception on the other. By observing the results of both methods and making changes to both, you will learn how best to use each method. To perform a comprehensive search for all types of motion in recorded video, you can use both methods on the same camera.

To access the Motion Exception screen from the Main menu:

NOTE: This method is used to search recorded video.

1. From either the main screen or the playback screen, click the **Search** button. The Mode tab appears.

2. Select **With Image Filters**.
3. Click the **Filters** tab.
4. Select the appropriate camera from the **Camera** pull-down menu.
5. Select **Motion Exception** from the **Filters** pull-down menu.
6. Click **Setup** and the Motion Exception screen appears.

To access the Motion Exception screen from the Setup menu (Use Regular Schedule):

NOTE: This method is used to search live video.

1. From the main screen, click the **Setup** button. The Setup Options screen appears.
2. Click the **Schedule** button. The Mode tab (the first Schedule Setup screen) appears.
3. Select the **Use Regular Schedule** option.
4. Click the **Camera 1-8** or **9-16** tab.
5. Move the mouse pointer over either the **Day Filter** or the **Night Filter** next to a camera name.
6. Click the down arrow and select **Motion Exception**.
7. Click **Setup** and the Motion Exception screen appears.

To access the Motion Exception screen from the Setup menu (Use Custom Schedule):

NOTE: This method is used to search live video.

1. From the main screen, click the **Setup** button. The Setup Options screen appears.
2. Click the **Schedule** button. The Mode tab (the first Schedule Setup screen) appears.
3. Select the **Use Custom Schedule**. The unit displays the Weekday, Weekend, and Holiday tabs, depending on the selection of the options **Include Weekend** and/or **Include Holiday**.
4. Click the **Weekday, Weekend** or **Holiday** tab.

5. Click **Setup** and the Motion Exception screen appears. A segment must be defined for the **Setup** button to be displayed. For more information on defining a segment, refer to *Defining a New Segment* on page 143.

Figure 1 — Activity Detection Screen

The following table describes the components of the Motion Exception screen:

Draw Zone	Defines the target area for the alarm or filter. The defined object must fit within this target area. The Active Zone is the currently selected target area that has scrolling borders; any inactive target area has static borders. NOTE: If you define multiple target areas, the areas may overlap, but not completely. To change between target areas, click the target area you wish to work with. Any changes you make then apply only to the Active Zone (i.e., the selected target area).	
	Shape	The pull-down menu allows you to define a rectangle, an ellipse, or a custom shape.
	Undo	Click to cancel the last action performed.

Active Zone Settings	NOTE: You can use the default settings for size, speed and direction by drawing a target area without specifying size, speed or direction for the object. The default settings will trigger an alarm for virtually any type of motion in the target area. You can adjust these settings independently of each other to reduce the number of objects that trigger alarms.	
	Size	Defines the minimum size of the object in the target area. Anything larger than the defined area triggers an alarm.
	Speed	Defines the slowest speed of the object passing through the target area. Anything faster than this speed triggers an alarm. The default speed is no movement.
	Direction	Defines the direction of the object passing through the target area. When an arrow is green, the indicated direction is enabled. When an arrow is grayed out, the indicated direction is disabled. The default direction is all directions enabled.
	Delete	Removes the Active Zone (i.e., the selected target area with scrolling borders).
	Default	Completely resets all the default settings (size, speed, and direction) for the selected target area.
Motion Exception	Displays the image from the selected camera.	
	Test	Allows you to test the current filter settings (see *Testing* on page 59).
	Apply	Click to apply the changes made.
	Cancel	Click to cancel the changes made.
	Help	Click to display online help for this screen.

Defining the Motion Exception Target Area

1. Choose a shape for the target area from the Shape pulldown list under Draw Zone: Rectangle, Ellipse or Custom Shape.

2. Move the mouse pointer to the image area and draw the boundaries of the target area, as follows:
   a. If a Rectangle or Ellipse, press the left mouse button and drag the mouse pointer to draw a target area of the size you desire.
   b. If a Custom Shape:
   - Move the mouse pointer to the first corner of the target area and click the mouse button.
   - Move the mouse pointer to ten next corner of the target area. The unit draws a line as the pointer moves.
   - Click the mouse button to lock this boundary and start a new one.
   - Repeat these steps until the target area is ready to be enclosed.

NOTE: You can use the default settings for size speed and direction by drawing an active zone without selecting a size, speed or direction for the object. The default settings will trigger an alarm for virtually any type of motion in the targeted area. You can also use these settings independently of each other to reduce the amount of objects that trigger alarms.

3. To draw an additional target area, repeat steps 1 and 2.
4. Apply any Active Zone Settings that you wish (speed, direction) to the object.
5. Click **Test** to try out the object's motion characteristics; the Test LED will flash if motion in the target area is detected in accordance with the settings you have configured.
6. To use these settings as a Motion Exception filter, click **Apply** to apply the motion exception and close the Motion Exception screen.
7. Click **Cancel** to close the Motion Exception screen without saving any changes.

Target Area Settings

When setting up Motion Exception filters to search for or to filter an event or a number of events, we recommend that you create a number of target areas for the selected camera. Most camera placements and the environments in which cameras operate will record video that exhibits wide variations. Therefore, it will be helpful to create multiple target areas, in order to account for the size and speed of objects within each target area and to exclude sources of environmental noise or unwanted object motion.

NOTE: If you define multiple target areas in one image area, the target areas may overlap, but not completely.

Size

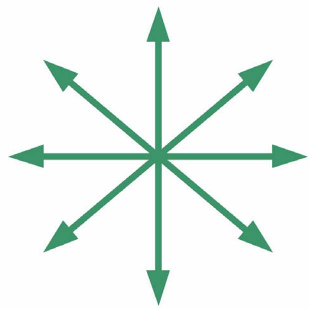
After the target area is drawn, a default object size is created. Motion Exception searches for any object within the target area that exceeds this size. To change the minimum size of the object, click the **Size** button. To preserve the object's aspect ratio, use the slider bar to define the size of your object. Use the handles on the corners of the object to change both the size and the aspect ratio by dragging a corner. Changing size with this method does not preserve the aspect ratio. After specifying the size, Motion Exception then looks for any object larger in both dimensions (height and width) than the minimum size. Any object larger than the minimum size will trigger an alarm.

Speed

In each active direction, you may define a minimum speed. For example, you may set a walking pace speed as the minimum speed limit for objects moving left, but a running pace speed the minimum speed limit for objects moving right. After you select the **Speed** button, the object starts to move in the active direction. To change the object's direction, click the appropriate direction arrow. The current live video for the active camera is displayed beneath the object to show you an accurate gauge for the speed. If you select the **Same speed for all directions** button, any speed adjustments that you make will then apply to ALL directions selected.

Direction

To specify the direction(s) in which the object must be moving, select the **Direction** button. The eight direction arrows are now active. Click on each of the direction arrows to enable or disable a direction. An object's direction is defined by the 45° sector into which the object's movement falls. By enabling multiple sectors, you expand the possible range of directions in which an object's movement may be tracked. If you are searching for motion in one direction, select more than one arrow in that range of directions to account for variations in tracking the object's motion.



Testing

After you have configured a Motion Exception filter, click the **Test** button to enable the Test mode. If the Motion Exception filter is triggered, the Test Alarm LED lights up for five seconds and the target area where the filter was applied is activated. All the Target Area Settings options are disabled until you exit Test mode by clicking the **Test** button again.

To use Motion Exception

From the Main menu:

1. From the main screen or the playback screen, click the **Search** button. The Mode tab appears.
2. Select **With Image Filters**.
3. Click the **Filters** tab.
4. Select the appropriate camera from the **Camera** pull-down menu.
5. Select **Motion Exception** from the **Filters** pull-down menu.
6. Click **Setup** and the Motion Exception screen appears.

7. Click the **Shape** pull-down menu and select Ellipse, Rectangle or Custom shape. Define an Active Zone in the image area using the mouse to draw the shape.
8. Click the **Size** button. Define the size of the object by dragging one of the corner handles or by using the slide bar.

NOTE: Anything larger than this object triggers an alarm.

9. Click the **Speed** button and set the slowest speed of the object using the slider bar. Select whether you want to have the same speed for all directions.

NOTE: Anything moving faster than this object triggers an alarm.

10. Click the **Direction** button. On the direction compass, select the direction arrow(s) to be enabled.
11. Click **Apply**.

From the Setup menu:

1. From the main screen, click the **Setup** button. The Setup Options screen appears.
2. Click the **Schedule** button. The Mode tab (the first Schedule Setup screen) appears.
3. Select the **Use Regular Schedule** or the **Use Custom Schedule** option.
4. Click the **Camera 1-8** or **9-16** tab.
5. Move the mouse pointer over either the **Day Filter** or the **Night Filter** next to a camera name.
6. Click the down arrow and select **Motion Exception**.
7. Click **Setup** and the Motion Exception screen appears.
8. Click the **Shape** pull-down menu and select either an ellipse, a rectangle or a custom shape. Define a Target Area in the image area.
9. Click the **Size** button. Define the size of the object by dragging one of the corner handles or by using the slide bar.

NOTE: Anything larger than this object triggers an alarm.

10. Click the **Speed** button and set the slowest speed of the object using the slide bar. Select whether you want to have the same speed for all directions.

NOTE: Anything moving faster than this object triggers an alarm.

11. Click the **Direction** button. On the direction compass, select the direction arrow(s) to be enabled.

Environmental Factors

Several factors may reduce the effectiveness of object tracking when using Motion Exception. Here are some environmental and object recommendations to help you set up your cameras using Motion Exception.

NOTE: The optimal setting is a well lit area, a motionless background, and a camera recording rate of at least 7.5 ips.

Background motion	Select a location with no continual motion in the background. For example, do not place the camera facing trees that are moving in the wind, a high traffic roadway, a TV monitor, etc.
Lighting	Sudden lighting changes, such as turning lights on or off, may trigger unwanted alarms.
	Avoid low light conditions and harsh shadows.
	If there is too little contrast between an object in the foreground and its background, this is usually due to poor lighting.
Objects moving too fast	Because the Intellex software interprets changes in an object's position over time, a fast-moving object may not be tracked accurately.
Reflections	Reflections of objects in windows, mirrors or other surfaces will be interpreted as another object. If possible, place the camera so that there are no reflective surfaces in the camera's field of view.

Occlusions and obstructions	Be sure to set up the camera so that there are no objects that totally block (occlude) the objects of interest in the field of view. When a person walks behind something that totally blocks that person in the camera's field of view, the Intellex software tries to predict where the person will be next based on his speed when last seen by the camera. The more a person is blocked in the camera's field of view, the more errors the Intellex software may commit. Therefore, a man walking behind a tree at a constant velocity can be easily tracked. But a man walking behind a building at a changing speed may be lost by the Intellex software. An obstruction may block the field of view only partially; for example, a man walking behind a car may appear to be missing his lower body, and the Intellex will notice that the size of the object that it was tracking has suddenly undergone a change. When you configure alarms based on the size of an object, note that even a partial or temporary obstruction may lessen the reliability of alarms.
Camera recording rate	If the camera's recording rate drops below 7 ips, the reliability of object tracking is reduced.
Moving objects in the camera view on startup	Tracking quality is reduced until the Intellex unit can determine which elements are in the background and which are moving objects.
Camera location	In a busy room, place the camera up high, with a 45-90° line of sight to the floor. If possible, aim the camera toward a motionless background.
Camera is too close to objects	A moving object must fit within 25% of the screen. Large objects are common in indoor scenes. Place the camera as far away as possible from the objects that you wish to track.
Excessive video noise	Poor video feed or excessive signal boosting will significantly reduce tracking quality.

Text Streams Search

Select **Text Streams** to select search criteria based on the text content associated with one or more cameras. The search dialog displays a choice of criteria tabs, **Date/Time**, and **Text Streams** and removes **Cameras, Alarms** and **Filters**.

In Select Streams, you may search **Any Text Stream.** All text streams available at the remote Intellex unit will be searched. You can also choose a **Specific Text Stream** to search. A pull-down list allows the selection of one text stream from all that are available at the remote Intellex unit.

After selecting to search **Any Text Stream** or a **Specific Text Stream**, you may narrow the search by entering a string containing up to 5 characters in the Search For text box. The video segments associated with the text stream(s) that contain the search string appear in the Search Results list.

After choosing criteria for the search, click **Find** to start. Click **Stop** to interrupt the search process. The unit lists all video segments that it found before the interruption.

When you locate the correct video segment, double-click on its title or select **Get**. The Retrieve Video screen appears. Click on **OK** to download the desired video segment.

Click **New** to clear the current search criteria on all of the search screens and begin a new search. The unit erases the previous search results from the screen.

Click **Close** to close this screen. Either the main screen or the playback screen appears.

Click **Help** to display online help for this screen.

Date/Time Search

Use the Date/Time screen to search for video segments within a specific period.

All recorded images — Use this option to include all video segments in the search, regardless of their time information. This is the default.

Images between — Use this option to include in the search only those video segments whose time information falls within a specific date and time range.

To select the date and time to search:

1. Click the **Images between** indicator. The unit enables the associated fields.
2. Click the hours display. Click the up arrow or the down arrow to display the correct hour (24-hour format).
3. Click the minutes display. Click the up arrow or the down arrow to display the correct minutes.

4. Click the down arrow in the date box to display the calendar. Click the left arrow to select the previous month or the right arrow to select the next month.
5. Click the desired date. The calendar disappears and the selected date appears.

Images within — Use this option to include video segments saved from a previous time to the present; for example, the last two hours.

To select the search time:

1. Click the **Images within** indicator. The unit enables the associated fields.
2. Click the down arrow on the units box. The default is **Hour(s)**. Click the correct units.
3. Click the up or down arrow on the scroll box to display the correct amount of time. The default is **1**.

Click **Find** to start the search using the entered search criteria.

Working with Search Results

Whenever a search is started, the unit displays the results in the lower portion of the search screen. It lists each video segment that matches the search criteria.

Sorting the Search Results

Even though the unit does not automatically sort the list of video segments, the operator can sort the list by date and time, camera name, alarm name (or type) and duration.

NOTE: To change a column's width, drag the line between column headers to the right or the left. The unit will not save these new settings when you access this screen again.

The search results columns include date and time for each video segment, camera name, alarm name (or type) and duration of segment.

1. Click the **column heading** to sort video segments in ascending order.
2. Click it again to sort segments in reverse order.

Selecting a Segment to Review

Whenever the search results list is too long for the display area, a scroll bar appears along the right side, with arrows at the top and bottom and with slide button between.

Use the scroll bar to display the entire list of video segments. Click the up arrow or the down arrow or drag the scroll button up or down.

When you locate the correct video segment, double-click on its title or select **Get**. The Retrieve Video screen appears.

Click on **OK** to download the desired video segment.

RETRIEVING ALARMS AND VIDEO

NOTE: The Retrieve Alarms and Retrieve Video options are disabled unless one or more Intellex units are available on the network.

NOTE: Setup, alarm retrieval, and video retrieval on the remote Intellex unit is limited to one Network Client at a time.

Retrieve Alarms

To display the Retrieve Alarms screen, click the **Alarms** button on the Toolbar or select **Retrieve Alarms** from the Actions menu.

NOTE: To save time, the previously chosen **Unit Name**, **Cameras** and **Time** settings are saved in memory until you exit the Network Client software.

NOTE: The Network Client software automatically searches for all Intellex units on startup. If a unit is missing from the **Unit Name** list, refresh the list (see *Actions Menu* on page 99).

NOTE: If specifying a time for the search, enter the Start and End times in that Intellex unit's local time.

Unit Name — Click the down arrow to display an alphabetical list of connected Intellex units. Select the unit to retrieve alarms from. The unit name appears in the field.

Cameras — Select the cameras to include in the search. Deselect the cameras to ignore. All cameras are selected by default.

None — Click to deselect all cameras. Then select the desired camera(s).

All — Click to select all cameras. Then deselect any undesired camera(s).

Time — Select the time search criteria.

All Alarms — Use this option to search for all alarms that occurred at the selected cameras, regardless of their time information. This is the default.

Range — Use this option to search for all alarms that occurred at the selected cameras during a certain period.

To enter a range:

1. Click **Range**. The unit enables the Start and End fields for time and date. The End time always defaults to the current time. The Start time defaults to the current time minus either one hour or the duration from the last search.
2. Click the hours displayed in the Start and End time boxes. Click the up or down arrow to display the desired hour (24-hour format).

3. Click the minutes displayed in the Start and End time boxes. Click the up or down arrow to display the desired minutes.
4. Click the seconds displayed in the Start and End time boxes. Click the up or down arrow to display the desired seconds.
5. Click the down arrow in the date box to display the calendar. Click the left arrow to select the previous month or the right arrow to select the next month.
6. Click the desired date of the month. The calendar disappears and the selected date appears.

Previous — Use this option to search for all alarms that occurred at the selected cameras from a previous time to the present; for example, in the last hour. The default is **1 Hour(s)**.

1. Click **Previous** to enable the number and units fields.

- Click the up or down arrow in the number field to select the desired number of **Minute(s)**, **Hour(s)**, **Day(s)** or **Week(s)**. The default is **1**.
- Click the up or down arrow in the units field to select the desired units: **Minute(s)**, **Hour(s)**, **Day(s)** or **Week(s)**. The default is **Hour(s)**.

OK — After you enter your search criteria, click **OK**. The unit checks your selections.

If you did not select a camera, a reminder message appears: "No cameras selected." Select a **Camera** and try again.

If the Start time is later than the End time, the unit displays a message, "No cameras selected." Enter a valid range and try again.

If there are no alarms to retrieve from the Intellex unit, a message appears, "There are no alarms for the selected cameras during the specified time period." Click **OK** to return to the Retrieve Alarms screen.

If there are alarms to retrieve, the Retrieve Alarm Verify screen appears (see *Retrieve Alarm Verify* on page 67 below).

Cancel — Click to cancel the operation and return to the main screen.

Retrieve Alarm Verify

When you click **OK** on the Retrieve Alarms screen, the unit checks your selections and then accesses the alarm list on the Intellex.

If there are alarms to retrieve, the Retrieve Alarm Verify screen appears. It displays the number of alarms that meet your search criteria with an estimate of the time to retrieve the list.

Yes — Click to display the Alarm List screen (see *Alarm List* on page 68).

No — Click to cancel the operation and return to the Retrieve Alarms screen.

Alarm List

The Alarm List screen appears as soon as the first alarm has been retrieved from the Intellex unit. As alarms are retrieved, the list grows. Use this screen to select an alarmvideo segment to retrieve.

Unit Name — Displays the name of the Intellex unit from which the alarm list is being retrieved.

Date/Time — Lists the date and time for each video segment.

Camera — Lists the camera name for each video segment.

Alarm — Lists the alarm input for each video segment.

Duration (min:sec) — Lists the length of each video segment in minutes and seconds.

Video Retrieval — Use this selection to retrieve video segments.

Retrieve pre-alarm video if available — Select this option to retrieve any pre-alarm video with the video segment. Deselect it to retrieve only the alarm video segment.

Retrieve Video — Select a video segment to retrieve. Then click this button to retrieve the segment (see *Retrieve Video Verify* on page 70).

Alarm List Retrieval Progress — This graphic shows the progress of the alarm list retrieval. (It does not show video retrieval progress.)

Cancel (or Close) — During alarm list retrieval, this button is labeled **Cancel**. Click it to stop retrieving the alarm list. If one or more alarm items were retrieved, the button is labeled **Close**.

As soon as the entire Alarm List is retrieved, the message Download Complete appears and the **Cancel** button changes to **Close**.

Click **Close** to close the Alarm List screen and return to the Retrieve Alarms screen.

Retrieve Video Screen

To display the Retrieve Video screen, click the **Video** button on the main screen or select **Retrieve Video** from the Actions menu.

NOTE: To save time, the previous choices for **Unit Name**, **Camera** and **Time** settings are saved in memory until you exit the Network Client software.

NOTE: The Network Client software automatically searches for all Intellex units on startup. If a connected unit is missing from the **Unit Name** list, click on the **Refresh** button to refresh the list (see *Actions Menu* on page 99).

Unit Name — Click the down arrow to display an alphabetical list of connected Intellex units. Select the unit to retrieve video from. The unit name appears in the field.

Time — Use this option to search for all video segments for this camera that were recorded during a certain period.

NOTE: If the Intellex unit is located in a different time zone, enter the Start and End times in that unit's local time.

The End time always defaults to the current time. The Start time defaults to the current time minus either one minute or the duration from the last search.

To enter a time:

1. Click the hours displayed in the Start and End time boxes. Click the up or down arrow to display the desired hour (24-hour format).
2. Click the minutes displayed in the Start and End time boxes. Click the up or down arrow to display the desired minutes.
3. Click the seconds displayed in the Start and End time boxes. Click the up or down arrow to display the desired seconds.
4. Click the down arrow in the date box to display the calendar. Click the left arrow to select the previous month or the right arrow to select the next month.
5. Click the desired date of the month. The calendar disappears and the selected date appears.

Cameras — This list displays the Intellex unit's cameras in number order. Click the checkbox for one or more cameras to download the video segment(s) for the selected time frame.

Text Streams — This list displays the text data associated with the listed cameras, if any. Click the checkbox to download the selected text.

Audio Streams — This list displays the audio data associated with the listed cameras, if any. Click the checkbox to download the selected audio.

OK — Click **OK**. The unit checks your selections.

If the Start time is later than the End time, the unit displays a message, “The start time must be earlier than the end time.” Enter a valid range and try again.

If there are no video segments to retrieve from the Intellex unit, a message appears, “No video is found for the camera and duration specified.” Click **OK** to return to the Retrieve Video screen.

If there are video segments to retrieve, the Retrieve Video Verify screen appears, followed by the Video Incident display (see *Retrieve Video Verify* on page 70).

Cancel — Click to cancel the operation and return to the main screen.

Retrieve Video Verify

When you click **Retrieve Video** on the Alarm List screen, the unit accesses the image database on the Intellex unit. Then it displays the video segment’s size, or duration, and estimated retrieval time.

OK — Click to retrieve the video segment and display the Video Incident screen (see *Video Incident* on page 70).

Cancel — Click to cancel the operation and return to the Alarm List or Retrieve Video screen.

Video Incident

When you click **Yes** on the Retrieve Video Verify screen, the unit displays the Video Incident screen and downloads the video segment.

Use this screen to assign the following information to the video segment. At this point, the segment becomes an incident.

Database — Displays the database where this incident will be stored. The unit remembers the location that was last used.

You can also change location. Click the down arrow to display a list of databases. Select a new location for this incident. Its name appears in the field.

Category — Click the down arrow to display an alphabetical list of any previously named categories. Select the category for this incident (its name appears in the field), or you can create a new category by typing its name, up to 32 characters. Each category name must be unique.

Incident — Enter a name for this incident, up to 32 characters. Incident names do not have to be unique.

Notes — Enter any notes that apply to this incident, up to 1,024 characters. At any time, you can edit the note directly. You can also use the popup menu to **Undo**, **Cut**, **Copy**, **Paste**, **Delete** or **Select All**.

Video Retrieval Progress — This graphic shows the progress of the video retrieval. During retrieval, the unit displays an estimate of remaining download time. As soon as the entire video segment is retrieved, the message Download Complete appears under the progress bar.

Video Review — The downloaded video segment appears in this section of the screen during retrieval. See *Playback Controls* on page 74 for information on using the controls to review video. There are no **Full Screen** or **Image Tools** options. The **Last Frame** option is disabled until video retrieval is complete or stopped by the user.

Camera — Click the down arrow to change the segment displayed in the Video Review Area.

Save Incident — Click this button to save the downloaded portion of the incident. The unit verifies the category, incident name and location. A message appears if any field is invalid.

Once the incident is saved to the incident database, the Alarm List screen appears.

Don't Save Incident (or Cancel) — During retrieval, this button is labeled **Cancel**. Click it to stop retrieving the video segment (see *Cancel Video Retrieval* on page 71). If any portion of the video segment was retrieved, the button is labeled **Don't Save Incident**.

As soon as the entire video segment is retrieved, the message Download Complete appears. The button label changes to **Don't Save Incident**.

To erase this video segment from the Network Client and return to the Alarm List screen, click the **Don't Save Incident** button. Then click **Yes** on the confirmation screen. To cancel this operation, see *Cancel Video Retrieval* on page 71.

Cancel Video Retrieval

NOTE: Partially downloaded video segments can be saved as incidents.

To stop retrieving the video segment:

1. Click the **Cancel** button. A confirmation screen appears.

NOTE: Downloading continues until you click **Yes** to cancel retrieval.

2. Select one of the following options:
   - Click **No** to continue retrieval. The unit continues the download.

- Click **Yes** to cancel retrieval. A screen indicates how much of the video segment was downloaded.

Click **OK** to return to the Video Incident screen. You can review and/or save the partially downloaded video segment. The message Download canceled also appears on the Video Incident screen.

PLAYBACK

When you have saved video segments and want to review them, Playback allows you to play back a single segment or multiple video segments simultaneously.

1. Click on the Database tab.
2. The Playback Display Controls appear in the Video Review Area.

To play a single video segment:

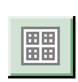
1. From the Database View, open a category. A list of incidents appears.
2. Select the incident to display. The first image of the video segment appears.
3. Use the playback controls to play the segment. Use the *Playback Popup Menu* on page 105 to change the playback display.

Alternately, you can play back incidents from different cameras at the same time.

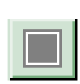
To play video segments from multiple cameras:

1. From the Database View, open a category. A list of incidents appears.
2. Select the **Multi-Camera Playback Display** button (see below). The Video Review Area is split into four panels with individual *Playback Controls* on page 74.
3. Click the mouse on the first incident to display. The first image of the video segment appears in the first pane of the Video Review Area.
4. Select another incident to display. Drag the incident icon to the Video Review Area and drop it in the next pane. The incident begins to play. Repeat until all the desired incidents are playing in the Video Review Area.
5. Use the individual playback controls to play each segment. Use the *Playback Popup Menu* on page 105 to change the playback display.

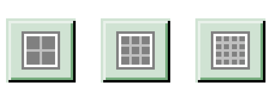
Playback Display Buttons



Multi-Camera Playback Display — Press this button to provide individual playback controls for four panes in the Video Review Area. Playback controls for up to four different video segments appear.



Full Screen Playback Display — Press this button to display a single video segment. Use any other Playback Display Button or right click to use the *Playback Popup Menu* on page 105 to change from single camera to multiple camera playback.



2x2, 3x3 and 4x4 Playback Display — Press one of these buttons to display multiple video segments. Use the *Playback Popup Menu* on page 105 to change playback options.

Image Information

The following image information appears in the image area when the **Overlay** option is selected in the View menu:

Unit Name — Displays the name of the Intellex unit from which the video segment was retrieved.

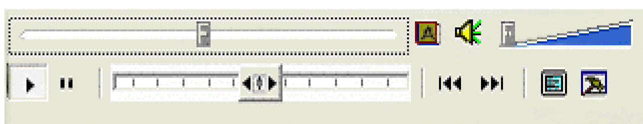
Camera Name — Displays the name of the camera from which the video segment was retrieved.

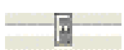
Image Date and Time — Displays the date and time stamp for the image in4-hour format.

Alarm Input — Displays the alarm input or type of alarm event associated with this segment m(if any).

Playback Controls

Use the Playback Controls to review video incidents and their associated audio or text information



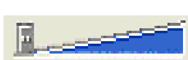


Goto Slider: Move the slider to the right to move to start of the video. Move the slider to the left to move nearer to end of the video.

During the download segment, the green bar acts as the progress indicator.

Play Text: Toggles text on or off. This function is disabled when no text information is available.

Play Audio: Toggles audio on or off. This function is disabled when no audio information is available.



Volume Control Slider: When the audio button is turned on, the slider is enabled. As shown in this picture, the audio is at the highest level. Left side of the control is the lowest level.

Play Button: Start playback of the downloaded video.

Pause Button: Pauses the playback, so that the current image stays on the screen.

Playback Speed Control: As you drag the control farther to the right, the playback speed increases. As you drag the control farther to the left, the reverse playback speed increases.

First Frame: Starts the downloaded video from the first frame. In Play mode, the first frame will be played followed by subsequent frames. In Pause mode, the first frame of the downloaded video appears.

Fast Reverse: Press the button once, goes into 1x rewind and so on to 5x.

Last Frame: Plays the last frame of the downloaded video. In Play mode while video is retrieved, the next segment is downloaded and play continues normally. In Pause mode, the last frame at the current download appears.

Fast Forward: This button has the same functionality as found in Intellex. Press the button once, goes into 1x forward and so on to 5x.

Full Screen—Click to hide the main screen and display the image full-screen. Click anywhere on the screen to display the main screen again.

Tools—Click to enhance the currently displayed image using the image enhancement tools. You can also print the image or save it to a network drive, the hard disk or a diskette. See *Image Tools* on page 78 for more information.

Playing Text and Audio

NOTE: Network Client can retrieve text and audio information recorded by Intellex. The text and/or audio must be associated with the recorded data from one or more cameras and downloaded to the Network Client workstation. For information about searching the Intellex database for recorded text information, see *Text Streams Search* on page 63.

Playback Text

Intellex is capable of recording one or more text streams associated with one or many cameras (see *Text Stream Setup* on page 176). Network Client is capable of downloading the recorded video and displaying the associated text stream.

To display the recorded text associated with one or more of the downloaded camera images, click the **Play Text** button on the Playback Controls. The Play Text option is disabled unless the previously downloaded data file contains text information.

Playback Audio

Intellex is capable of recording a single audio stream associated with one or many cameras. For information on associating a audio stream with recorded video images, see *Intellex Installation and Operating Procedures — Audio Setup*. Network Client is capable of downloading the recorded video and playing the associated audio stream.

To play the recorded audio associated with one or more of the downloaded camera images, click the **Play Audio** button on the Playback Controls. The Play Audio option is disabled unless the previously downloaded data file contains text information.

Image Area Zoom

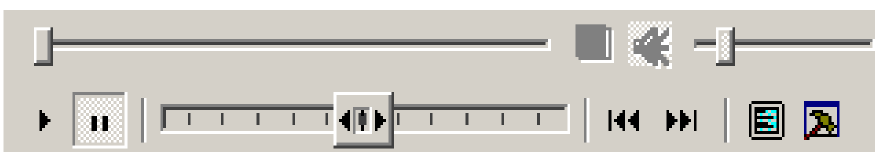
You can zoom in on a specific area of the playback image screen at any time, in either menu mode or full-screen mode. Then, you can observe activity from that camera more closely.

1. To enlarge an area of the image, click and drag the mouse pointer over the area to enlarge. As you drag the mouse, the pointer changes to crosshairs.

NOTE: When zooming to a desired area, the unit maintains a 4:3 (width-to-height) ratio. If you drag tall and thin, the selected area will not be tall, but will maintain the general shape of the screen. Likewise, if you drag short and wide, the selected area will not be wide, but will maintain the general shape of the screen.

2. After you release the mouse button, the enlarged (zoomed) area appears.
3. To return to normal display, click once again on the image area.

Full-Screen Control Bar



NOTE: If your Windows Taskbar is located at the bottom of the screen, the control bar only appears if you set the Taskbar to **Auto hide**.

1. Click the full-screen icon on the main screen to enter full-screen mode.
2. Move the mouse to the bottom of the screen. The control bar appears. If the Windows Taskbar also appears, move the mouse up until both bars disappear. Then slowly move the mouse down until only the control bar appears.
3. The full-screen control bar functions are identical to the normal *Playback Controls* on page 74. To hide the control bar, click one of the control buttons or move the mouse up.
4. To exit full-screen mode, click anywhere on the screen or click the full-screen icon on the control bar.

IMAGE TOOLS

Use the Image Tools screen to enhance an image from the image database. Adjust the brightness, contrast, balance, color and sharpness of the image.

NOTE: Enhancements do not affect the original stored image.

Image Area — The image area displays the selected image, including all enhancements.

Zoom: n:1 — As you zoom in and out, the unit displays the level of magnification: 1:1, 2:1, 4:1, 8:1, 16:1.

Zoom In — Use this option to magnify an area of the image. The pointer becomes a magnifying glass with a plus sign.

NOTE: An image cannot be magnified beyond 16:1.

Use one of the following methods to zoom in:

1. Click anywhere on the image. The area around the pointer is magnified and the magnified image is centered where you clicked. Each click magnifies the image to the next magnification: 2:1, 4:1, 8:1, 16:1.
2. Click and drag the pointer to draw a box around a specific area. Release the mouse button. The unit magnifies the selected area to the nearest magnification: 2:1, 4:1, 8:1, 16:1.

Zoom Out — Use this option to display a wider view of the magnified portion of the image. The pointer becomes a magnifying glass with a minus sign.

To zoom out, click anywhere on the image. A wider view is displayed, centered on the point where you clicked. Each click displays more of the image and reduces the image detail one level.

Move — Use this option to view a different area of the image when magnified. The pointer becomes a four-direction arrow.

To move the view:

1. Click and drag the image to the right, left, up, down or diagonally.
2. Release the mouse button when the desired area appears in the image area.

Enhance — Use this option to enhance the image when zooming. As an image is enlarged, it becomes jagged. This feature reduces jaggedness. The brightness chart (if displayed) also reflects the changes.

NOTE: The **Sharpen** option on this screen operates independent of the **Sharpen** or **Sharpen More** tools on the tool list.

Sharpen — Use this option to sharpen the zoomed area of the image. The amount of sharpening depends on the zoom level. The brightness chart (if displayed) also reflects the changes.

1:1 — Click to remove the zoom effects and display the image at its original size. The image reflects any enhancements.

Tools — Use one or more image tools to enhance the image.

Bright/Contrast — Click to change the brightness and/or contrast.

Color/Light — Click to change the hue, saturation and/or lightness screen.

Tool List — Use this drop down list to display the other image enhancement tools.

Apply — After selecting a tool, click to apply the tool's enhancements to the image.

Undo — Click to cancel the last tool change.

Brightness Chart — Click to display the brightness chart in the lower left corner of the image. This chart (or histogram) shows the brightness of each color in the image.

The chart's horizontal axis ranges from pure black to pure white (left to right). The vertical axis shows the count of pixels (picture elements) in the image from black to white.

As you enhance the image, the brightness chart reflects the changes.

Click again to remove the brightness chart from the image area.

NOTE: Image resolution does not increase; the image is simply displayed over a larger area.

Full Screen — Click to hide the image enhancement controls and display the image full-screen. Click to exit full-screen and display the controls again.

Load — Click to load an image so it can be modified or printed.

NOTE: The image enhancement tools can only be used for bitmap (**.bmp** or **.jpg**) images.

Load, Enhance, Save and Print Images

1. Click **Load**. The unit displays a standard Windows Open screen.
2. Select the bitmap (**.bmp** or **.jpg**) file to load.
3. Select one of the following options:

   Open — Click to load the image. The unit displays the image in the image area. Use any of the enhancement tools to modify the image.

Cancel — Click to cancel the operation and return to the Image Tools screen.

Save — Click to save the image to a separate file.

NOTE: The unit only saves images in the bitmap format (**.bmp** or **.jpg**).

1. Display and enhance the image, as required.
2. Click **Save**. The unit displays a standard Windows Save As screen.

NOTE: We recommend that you give each image a unique name to avoid confusion.

3. Enter the image name and select the appropriate drive and directory. Make sure the drive has at least 1MB of available space for the image.
4. Select one of the following options:

   Save — Click to save the image.

   Cancel — Click to cancel the operation and return to the Image Tools screen.

   Print — Click to print a copy of the image.

   Restore — Click to cancel all changes to the image. The unit displays the original image from the image database, but does not change the magnification.

Close — Click to close the Image Tools screen and return to the main screen.

Modifying the Image

Each tool has a specific purpose. Therefore, some tools may not be appropriate for a particular image. Practice using the tools to learn how they operate. Click **Restore** at any time to start over.

Brightness/Contrast Tools

Use the Brightness/Contrast tools to brighten or darken the entire image and/or to increase or decrease the contrast of light and dark elements in the entire image.

Brightness — Use this slide control to adjust the brightness for the image.

Move the control to the left to darken the image. Move it to the right to lighten the image. As you move the control, the image reflects the changes. The brightness chart (if displayed) also reflects the changes.

Contrast — Use this slide control to adjust the contrast for the image.

Move the control to the left to decrease image contrast. Move it to the right to increase image contrast. As you move the control, the image reflects the changes. The brightness chart (if displayed) also reflects the changes.

OK — Click to close this screen and apply the changes to the image.

Cancel — Click to close this screen without making any changes to the image.

Color/Light Tools

Use the Color/Light tools to adjust the hue, saturation and lightness of the entire image.

Hue — Use this slide control to adjust the hue: (left to right) red, yellow, green, cyan, blue and magenta.

Move the control to the left to increase the amount of red, yellow or green. Move it to the right to increase the amount of cyan, blue or magenta. As you move the control, the image and the brightness chart (if displayed) reflect the changes.

Saturation — Use this slide control to adjust the color saturation for the image.

Move the control to the left to decrease image color. Move it to the right to increase image color. As you move the control, the image and the brightness chart (if displayed) reflect the changes.

Lightness — Use this slide control to adjust the lightness of colors in the image.

Move the control to the left to decrease the level of light of each color. Move it to the right to increase the level of light. As you move the control, the image reflects the changes. The brightness chart (if displayed) also reflects the changes.

OK — Click to close this screen and apply the changes to the image.

Cancel — Click to close this screen without making any changes to the image.

Balance Light

Use the Balance Light tool to balance the brightness of the image. The unit redistributes the brightness of the image so it evenly represents the entire range of brightness.

To apply the Balance Light tool to the image:

1. Click the down arrow to display a list of tools.
2. Select **Balance Light**. The list disappears and Balance Light appears in the list box.
3. Click **Apply** to balance the brightness of the image.
4. To remove the effects of the **Balance Light** tool after reviewing the image, click **Undo**.

Edge Detect

Use the **Edge Detect** tool to locate the edges of objects in an image. These edges are displayed in black and white. Other image detail is ignored.

To apply the Edge Detect tool to the image:

1. Click the down arrow to display a list of tools.
2. Select Edge Detect. The list disappears and Edge Detect appears in the list box.
3. Click Apply to enhance the image.
4. To remove the effects of the Edge Detect tool after reviewing the image, click Undo.

Enhance Light

Use the Enhance Light tool to enhance the brightness of the image.

To apply the Enhance Light tool to the image:

1. Click the down arrow to display a list of tools.
2. Select **Enhance Light**. The list disappears and Enhance Light appears in the list box.
3. Click **Apply** to enhance the light level of the image.
4. To remove the effects of the Enhance Light tool after reviewing the image, click **Undo**.

Noise Reduction

Use the Noise Reduction tool to remove video “noise” from the image. Whenever analog video signals are converted to digital signals, stray pixels can appear in the image. These pixels are called “noise.” This tool completely removes these pixels from the image and replaces them with appropriate pixels from the surrounding area.

To apply the Noise Reduction tool to the image:

1. Click the down arrow to display a list of tools.
2. Select **Noise Reduction**. The list disappears and Noise Reduction appears in the list box.
3. Click **Apply** to reduce video noise in the image.
4. To remove the effects of the Noise Reduction tool after reviewing the image, click **Undo**.

Sharpen

Use the Sharpen tool to reduce the amount of blur, sharpen the edges of objects and add contrast to the image.

To apply the Sharpen tool to the image:

1. Click the down arrow to display a list of tools.
2. Select **Sharpen**. The list disappears and Sharpen appears in the list box.
3. Click **Apply** to sharpen the image.
4. To remove the effects of the Sharpen tool after reviewing the image, click **Undo**.

Sharpen More

Use the Sharpen More tool to reduce the amount of blur in the image. It sharpens the edges of objects and adds contrast to the image. It sharpens more than the sharpen tool.

To apply the Sharpen More tool to the image:

1. Click the down arrow to display a list of tools.
2. Select **Sharpen More**. The list disappears and Sharpen More appears in the list box.
3. Click **Apply** to sharpen the image.
4. To remove the effects of the Sharpen More tool after reviewing the image, click **Undo**.

Smooth

Use the Smooth tool to smooth jaggedness in the image. It softens the edges of objects.

To apply the Smooth tool to the image:

1. Click the down arrow to display a list of tools.
2. Select **Smooth**. The list disappears and Smooth appears in the list box.
3. Click **Apply** to smooth the image.
4. To remove the effects of the Smooth tool after reviewing the image, click **Undo**.

Smooth More

Use the Smooth More tool to smooth jaggedness in the image. It softens the edges of objects. It smooths more than the Smooth tool.

To apply the Smooth More tool to the image:

1. Click the down arrow to display a list of tools.

2. Select **Smooth More**. The list disappears and Smooth More appears in the list box.
3. Click **Apply** to smooth the image.
4. To remove the effects of the Smooth More tool after reviewing the image, click **Undo.**

EXPORT TO BITMAP

To enhance, save, or export an image as a bitmap file, follow these steps:

1. Select an Incident in the Database View.
2. Use the Playback Controls to position the desired image in the Video Review area.
3. Select **Image Tools**. The Image Tools screen appears.
4. Enhance the image, as required.
5. Click **Save**. The unit displays a standard Windows Save As screen.
6. Enter the image name and select the appropriate drive and directory. Make sure the drive has at least 1MB of available space for the image.
7. Select one of the following options:
   - Click **Cancel** to end the operation and return to the Image Tools screen.
   - Click **Save** to save the image.
   - Click **Print** to print a copy of the image.
   - Click **Restore** to cancel all changes to the image. The unit displays the original image from the image database, but does not change the magnification.
   - Click **Close** to close the Image Tools screen and return to the main screen.

EXPORT TO AVI OR FILE

To prepare incident files for video playback and reviews at your specified locations, follow these steps:

1. Right mouse click on an Incident in the Database View.
2. Select **Export**.
3. Select **AVI** or **File.**

Export to AVI

The Export to AVI dialog appears. Select the size for conversion. The maximum size of the clip is **640x480** (default). The minimum size is **10x10**.

NOTE: Not all Intellex units support the 320X240 image size. The maximum image size for these units is 640X480.

Press the **Options** button to choose a codec for the export process. The Video Compression dialog appears with a list of the installed codecs. Each codec has its own settings. The default is Microsoft Video 1. This codec produces a fair image quality. After selecting a codec and adjusting its settings, press the **OK** button.

Check the Enable Overlay feature to emboss the image with date and time information. The minimum size of the image is **160x120** when using this feature.

Press the **Save** button. Select the location and name of the file to export. Most codecs require a file name suffix of ".avi" (default). Press **Cancel** at any time to close the converted file and save the export to that point. The partial file export is available for viewing in the specified location.

Export to File

The File format is a proprietary video format. These files can be saved to removable media. Use this command to create video clips that can only be viewed in the Network Client or Video Player Agent environment.

The Save As screen appears. Enter the image name. Select the destination drive and directory folder. Make sure the drive has at least 1MB of available space for the video file.

Click **Save** to save the video clip. Click **Cancel** to end the operation and return to Network Client.

See *Import Incident* on page 91 for information on retrieving video segments in this format from removable media.

TOOLBARS

Use the toolbars to access common Network Client operations with a single mouse-click. The toolbar options change depending on selections that you make.

Sites and Database Toolbars

When a site, database, device, category, or incident is selected in the Video Window, the toolbar provides one-click access to the following functions:

New (Site, Category, Incident) — Click to create a new category. The New (Site, Category, Incident) screen appears.

Delete (Site, Category, Incident) — Select a category, then click to display the Delete Category (Site, Category, Incident) screen.

Overlay — Click to toggle the overlay information on and off.

Instrument (in Sites View) — Click to add or change Remote Instrument settings.

Alarms — Click to download alarm lists and alarm video segments. The Retrieve Alarms screen appears.

Video — Click to begin retrieving video segments. The Retrieve Video screen appears.

Help — Click to access the online help system's main screen.

Instrument and Playback Toolbars

When an Instrument is selected in the Video Window, the toolbar provides one-click access to the following functions:

Status — Click to see the status of cameras for the selected Intellex unit. The Status screen appears in the **Playback** area.

Setup — Click to access setup for **Cameras, Security, Schedule, Record Mode, Alarms, Display** and **Archive Schedule** or the **Begin Record** function for an Intellex unit connected to the network.

Live Display — Click to view live video from the selected Intellex unit. Use the Display Configuration buttons in the **Playback** area to set the number of cameras displayed.

Search — Click to search the image database using general search criteria or the Smart Search filters.

Activity — Click to display the Activity Log.

Overlay — Click to toggle the overlay information on and off.

Alarms — Click to download alarm lists and alarm video segments. The Retrieve Alarms screen appears.

Video — Click to begin retrieving video segments. The Retrieve Video screen appears.

Help — Click to access the online help system's main screen.

FILE MENU

Use the **File** menu to manage your Sites, Databases, Categories and Incidents.

Sites

The Sites View allows users to classify and sort many Intellex units to make it easier to find the Intellex units/cameras. Go to File and select **Sites** to use the following options:

New

Use this option to add a new site to the Sites View. A new icon is added to the sites view with a highlighted flag that reads "New Folder".

Key in the new name of the site. Press **Enter** to save the new site name. Special characters such as <, > or punctuation may not display properly.

Delete

Use this option to delete a site. You will not be able to delete a site until all associated Instruments, cameras and subfolders are removed from the site folder.

Rename

Use this option to rename an existing site.

The name of the site in Sites View is highlighted. Key in the new name of the site. Press **Enter** to save the new site name. Special characters such as <, > or other punctuation may not display properly.

Database

Go to File and select **Database** to use the following options:

New Database

Use this option to add new categories and related notes to the incident database. When you select this option, the Create Database screen appears:

Name — Enter the name of the new database, up to 32 characters. Each database name must be unique for the directory location you enter.

Directory — Enter the directory location of the new database. Use the (**...**) button to select the directory location if necessary.

OK — Click to accept the new category name and its related notes and return to the main screen.

If the category name already exists in the Directory location, a message appears. Change the name and try again.

Cancel — Click to cancel the operation and return to the main screen.

Rename Database

Use this option to rename the database. When you select a database and then this option, the Rename Database screen appears:

Name — Enter the new database name, up to 32 characters. Each database name must be unique within its directory location.

Directory — This field, which cannot be changed, displays the directory and path of the selected database.

OK — Click to accept the new database name and return to the main screen.

If the database name already exists in the directory location, a message appears. Change the name and try again.

Cancel — Click to cancel the operation and return to the main screen.

Delete Database

Use this option to delete a database and all related notes from the Network Client's incident database.

NOTE: To display this screen, you can also press the **Delete** key or click the **Delete** button on the tool bar.

NOTE: This option only deletes the database and related information from the Network Client. Video incidents stored on the hard drive or on the Intellex unit are not affected by this operation.

When you select a database and then this option, the Delete Database screen appears.

Yes — Click to delete the database and return to the main screen.

No — Click to cancel the operation and return to the main screen.

Import Incident

Use this option to move a saved incident from removable media to a Network Client database. The Import Incident screen appears.

Use the Database pulldown menu to select an existing database. The imported incident file is saved to this database.

Use the Category pulldown menu to select an existing category. Create a new category by typing a name in the text box.

Use the **...** [**Browse**] button to choose the Incident file to import into Network Client. If it is a valid incident, the dialog title will change to Import Incident: <Incident Name> and the **OK** button is enabled. A valid exported file has the extension of ".im_".

If the database already contains a file with the same name as the incident selected for import, the duplicate filename is highlighted. Rename the selected Incident file and click **OK** to import it to the desired database.

The imported incident is saved into the selected database. The directory tree in the main Database view will be updated with the information for the imported incident.

Category

Go to File and select **Category** to use the following options:

New Category

Use this option to add new categories and related notes to the incident database. When you select this option, the New Category screen appears:

Category — Enter the name of the new category, up to 32 characters. Each category name must be unique.

Notes — Enter any notes that apply to the new category, up to 1,024 characters.

Edit the note directly or use the popup menu (see *Notes Popup Menu* on page 101) to **Undo**, **Cut**, **Copy**, **Paste**, **Delete** or **Select All**. You can also use standard Windows keyboard commands for these operations.

OK — Click to accept the new category name and its related notes and return to the main screen.

If the category name already exists in the incident database, a message appears. Change the name and try again.

Cancel — Click to cancel the operation and return to the main screen.

Delete Category

Use this option to delete a category, its incidents and all related notes and video from the Network Client's incident database.

NOTE: To display this screen, you can also press the **Delete** key or click the **Delete** button on the toolbar.

NOTE: This option only deletes the category and incident information from the Network Client Database View. Video Incidents stored on the hard drive or on the Intellex unit are not affected by this operation.

When you select a category and then this option, the Delete Category screen appears:

Yes — Click to delete the category and return to the main screen.

No — Click to cancel the operation and return to the main screen.

Move All Incidents

Use this option to move all incidents from one category to a different category.

NOTE: You can also move all incidents by clicking and dragging one category onto a different category.

When you select a category and then this option, the Move All Incidents screen appears:

From Database — This field, which cannot be changed, displays the current database location.

From Category — This field, which cannot be changed, displays the current category location.

To Database — This list box displays all available destination databases. Click the down arrow to display an alphabetical list. Select the destination database for the incidents. Its name appears in the field.

If the desired database does not exist, create it and try again (see *New Database* on page 90).

To Category — This list box displays all available destination categories. Click the down arrow to display an alphabetical list. Select the destination category for the incidents. Its name appears in the field.

If the desired category does not exist, create it and try again (see *New Category* on page 91).

OK — Click to move the incidents to the new category and return to the main screen.

Cancel — Click to cancel the operation and return to the main screen.

Rename Category

Use this option to rename the category. When you select a category and then this option, the Rename Category screen appears:

From — This field, which cannot be changed, displays the current category name.

To — Enter the name of the new category, up to 32 characters. Each category name must be unique.

OK — Click to accept the new category name and return to the main screen.

If the category name already exists in the incident database, a message appears. Change the name and try again.

Cancel — Click to cancel the operation and return to the main screen.

Incident

Go to File and select **Incident** to use the following options:

Delete Incident

Use this option to delete an incident from the Network Client.

NOTE: To display this screen, you can also press the **Delete** key or click the **Delete** button on the tool bar.

NOTE: This option only deletes the category and incident information from the Network Client. Information stored on the Intellex unit is not affected by this operation; it can be downloaded again.

When you select an incident and then this option, the Delete Incident screen appears:

Yes — Click to delete the incident and return to the main screen.

No — Click to cancel the operation and return to the main screen.

Move Incident

Use this option to move an incident from one category to a different category.

NOTE: You can also click and drag an incident from one category to a different category.

NOTE: When you select an incident and then this option, the Move Incident screen appears:

Incident — This field, which cannot be changed, displays the name of the incident.

Database: From — This field, which cannot be changed, displays the current database location of the incident.

Category: From — This field, which cannot be changed, displays the current category location of the incident.

Database: To — This list box displays all available destination databases. Click the down arrow to display an alphabetical list. Select the destination database for the incident. Its name appears in the field.

Category: To — This list box displays all available destination categories. Click the down arrow to display an alphabetical list. Select the destination category for the incident. Its name appears in the field.

OK — Click to move the incident to the new category and return to the main screen. If the desired category does not exist, create it and try again (see *New Category* on page 91).

Cancel — Click to cancel the operation and return to the main screen.

Rename Incident

Use this option to rename the incident. When you select an incident and this option, the Rename Incident screen appears:

From — This field, which cannot be changed, displays the current incident name.

To — Enter the new name for the incident, up to 32 characters. Incident names do not have to be unique.

OK — Click to accept the new incident name and return to the main screen.

Cancel — Click to cancel the operation and return to the main screen.

Export Incident

Use this option to create a video clip of all or part of the incident. When you select an incident and this option, the Export to AVI screen appears. See the section *Export to AVI or File* on page 86 for more details.

Exit

Select this option to exit Network Client and return to Windows.

ACTIVITY LOG

To retrieve and review Activity log information from a remote Intellex unit, click on the **Activity** icon on t he toolbar, or from the Main Menu click the Actions menu and select **Instrument Activity Log**.

The Activity Log provides a record of all activity performed on the Intellex unit after a user has logged in. An activity is defined as any action that a user performs on the unit or via Network Client. The log lists user name, date/time the activity occurred, the access location (local or via Network Client), the category of activity, and the activity that occurred on that menu.

The log can be printed and sorted using the filters selected in the Activity Filter area. If the Activity Log exceeds its maximum size of 20,0000 items (about 30 days of activity), the newest incoming data will overwrite the oldest stored data

Select the **Range** from the pull-down menu. If you select **Specify**, specify a **Start** and **End** time for the filter. Click **Retrieve**.

Once a log has been retrieved, the list display can be further filtered and sorted by selecting a **User** or **Category** in the Activity Filter area.

Under **Date/Time Filter**, select a **Range** from: **Last 24 hours**, **Today**, **Yesterday**, **Specify**, and **All Time**.

If **Specify** is selected, the **Start** and **End** fields are active. In **Start**, set the time for the activity log to begin. To change the time setting, select the hour or minutes and click on the up or down arrow to specify the desired start time. In **End**, set the time for the activity log to end. To change the time setting, select the hour or minutes and click on the up or down arrow to specify the desired end time.

Activity Filter

Under **User**, select an active user or ALL.

Under **Category**, select **ALL** or a category: Security, Setup, Surveillance, System, or Utility. If a **Category** is selected, then you may choose an **Activity** in the that Category.

As you select various choices from the pulldown menus, activities that meet these Activity Filter criteria are then displayed in columns:

- **User Name —** Login name of the user who performed the action.
- **Date/Time —** Date and time the action was performed.

- **Access Loc —** Lists whether the action performed was local to the Intellex unit or via Network Client.
- **Category —** The Category in which to choose an Activity: All, Security, Setup, Surveillance, System, and Utility.
- **Activity —** Lists the Activity from a selected Category's menu options.
- **Data —** Lists whether data was accessed, video was downloaded, and so on.

Choose from these export and print options:

- **Export All —** Exports the entire log to a file.
- **Export Display —** Exports the displayed log to a file.
- **Print Display —** Click to print the log.

VIEW MENU

Use the View menu to change the following screen settings.

Overlay Video Information

Site, camera, date, time and alarm information can be displayed over the image during playback. When enabled, this option lets you turn the overlay on and off.

Site, camera, date, time and alarm information can be displayed over the image during playback. When enabled, this option lets you turn the overlay on and off.

Select this option to display the information over the image. A check mark appears next to this option on the **View** menu. Select this option again to hide this information. The check mark disappears.

You can enable this option and select the screen location for this information during playback. See the section *Display Configuration* on page 108.

Toolbars

To display the Toolbar, from the menu select **View** and choose **Toolbar**.

Toolbar option display different buttons depending on which view you have selected, (Database, Instrument or Sites View).

- When in the Database View, the toolbar provides one-click access to the following functions: **New Category, Delete, Overlay, Alarms, Video** and **Help**.
- When in the Instrument View, the toolbar provides one-click access to the following functions: **Status, Setup, Live Display, Search, Overlay, Alarms, Video** and **Help.**
- When in the Sites View, the toolbar provides one-click access to the following functions: **New Site, Delete Site, Overlay, Instrument** and **Help.**

Status Bar

The Status Bar displays descriptions of menu and button commands on the left side and the number of connected Intellex units on the right side.

To display the Status Bar, from the menu select **View** and choose **Status Bar**.

ACTIONS MENU

Use the Actions menu to retrieve alarm, video and status information from connected Intellex units.

1. From the Main Menu, select Actions.
2. From Actions pulldown menu, select from the following options:

Retrieve Alarms — Use this option to retrieve a list of alarms from an Intellex unit, according to unit, camera and time information. Then you can retrieve specific video segments. See *Retrieving Alarms and Video* on page 66 for more information.

Retrieve Video — Use this option to retrieve a video segment from an Intellex unit. Select the unit, camera and time information. Then, you can retrieve specific Text and Audio stream segments, if any. See *Retrieving Alarms and Video* on page 66 for more information.

Refresh Instruments — Use this option to refresh the list of connected Intellex units, sorted by name.

Instrument Status — Use this option to review the status of the cameras and their associated filters attached to a specific Intellex unit connected to the network. See *Instrument Status* on page 28 for more information.

Instrument Setup — Use this option to setup Cameras, Security, Schedule, Record Mode, Alarms, Display, Archive Schedule, Begin Record, Text Stream, Storage, and Audio for an Intellex unit connected to the network. See *Unit Setup Options* on page 114 for more information.

Live Video Display — Use this option to view live video from an Intellex unit connected to the network. Use the Display Configuration buttons in the Playback area to set the number of cameras displayed. See *Live Video Display* on page 34 for more information.

Instrument Search — Use this option to search for specific video from an Intellex unit connected to the network. Use the Remote Search to find video by camera name, date/time, alarm, or filter, independent of the filter settings at the Intellex unit. See *Remote Search* on page 41 for more information.

POPUP MENUS

Popup menus provide quick access to common Network Client functions. Different popup menus are available for databases, categories, incidents, notes and Instruments.

Database Popup Menu

Select a database, then right-click to display the database popup menu.

New Database — Select to create a new database. The New Database screen appears (see *New Database* on page 90).

Rename Database — Select to display the Rename Database screen (see *Rename Database* on page 90).

Delete Database — Select to display the Delete Database screen (see *Delete Database* on page 90).

New Category — Select to display the New Category screen (see *New Category* on page 91).

Import — Select to display the Import Incident screen (see *Import Incident* on page 91).

Category Popup Menu

Select a category, then right-click to display the category popup menu.

New — Select to create a new category. The New Category screen appears (see *New Category* on page 91).

Delete — Select to display the Delete Category screen (see *Delete Category* on page 92).

Move All Incidents in Category — Select to display the Move All Incidents screen (see *Move All Incidents* on page 92).

Rename — Select to display the Rename Category screen (see *Rename Category* on page 93).

Incident Popup Menu

Select an incident, then right-click to display the incident popup menu.

Delete — Select to display the Delete Incident screen (see *Delete Incident* on page 94).

Move — Select to display the Move Incident screen (see *Move Incident* on page 94).

Rename — Select to display the Rename Incident screen (see *Rename Incident* on page 95).

Export — Select to export an Incident as an .AVI or IM_ file (see *Export to AVI or File* on page 86).

Notes Popup Menu

When updating the notes for a category or incident, you can use the notes popup menu to simplify the process. Right-click to display the notes popup menu.

Undo — Select to undo the last change.

Cut — Select to cut the selected text from the note and copy it onto the clipboard.

Copy — Select to copy the selected text onto the clipboard.

Paste — Select to copy text from the clipboard into the note at the insertion point.

Delete — Select to delete the selected text from the note.

Select All — Select to select all text in the note.

Instruments Popup Menu

Right-click any connected Intellex unit to display the Instrument popup menu.

Status — Click to see the status of cameras for the selected Intellex unit. The Status screen appears in the **Playback** area.

Setup — Click to access setup for **Cameras, Security, Schedule, Record Mode, Alarms, Display** and **Archive Schedule** or the **Begin Record** function for an Intellex unit connected to the network.

Live Display — Click to view live video from the selected Intellex unit. Use the Display Configuration buttons in the **Playback** area to set the number of cameras displayed.

Retrieve Alarms — Click to download alarm lists and alarm video segments. The Retrieve Alarms screen appears.

Retrieve Video — Click to begin retrieving video segments. The Retrieve Video screen appears.

Custom Schedule Popup Menu

This popup menu provides access to a variety of schedule configuration options. Select a segment in Custom Schedule or move the mouse pointer over a camera name. Click the right mouse button. The Custom Schedule Popup menu appears (one or more options may not be available).

Setup — Use this option to configure an active or alarmed segment. This option operates the same as pressing the **Setup** button.

The Active Segment screen appears for an active segment. The Alarmed Segment screen appears for an alarmed segment.

Copy — Use this option to copy one or more schedule segments into the unit's memory. Then, use a paste option to add the segment and/or filter information to another segment or camera.

NOTE: All Paste options are disabled until a segment with a configured filter has been copied into memory.

Paste Segment(s) — Use this option to copy one or more segments from one camera to another.

NOTE: This option only adds segment time information to another camera.

Paste Filter — Use this option to copy a filter configuration from one segment of a camera to another segment of the same camera on another screen.

NOTE: This option only copies filter information to other segments for the same camera.

Paste Filter to All Segments — Use this option to copy a filter configuration from one segment of a camera to each segment of the same camera on another screen.

Paste Segment(s) and Filter(s) — Use this option to copy the segments and filters from one camera line to that camera's line on another screen.

Delete Segment(s) — Use this option to delete one or more schedule segments from a camera's line.

NOTE: This option is only available for segments without filters.

Delete Filter(s) — Use this option to delete only filter configurations from one or more segments on a camera's line. This option does not delete any segment time information.

Delete Segment(s) and Filter(s) — Use this option to delete one or more schedule segments and their filter configurations (if any) from a camera's line.

Archive Schedule Popup Menu

This popup menu provides access to a variety of schedule configuration options. Select a segment in Archive Schedule or move the mouse pointer over a camera name. Click the right mouse button. The Archive Schedule Popup menu appears (one or more options may not be available).

Undo — Each time you access these screens, the unit keeps track of the changes. It remembers up to the last ten (10) changes on each Archive Schedule screen (Weekday, Weekend and Holiday).

Copy All Cameras — Copies all schedules for all cameras. Allows pasting the copied schedule for all cameras to another category of weekend or holiday schedule.

Copy — Copies the schedule information for the selected segment for pasting to another camera.

Paste Camera — Pastes the copied schedule information to the selected camera.

Delete — Delete the selected segment from that camera's schedule.

Site View Popup Menus

There are two popup menus associated with the Sites View:

Sites Popup Menu

Select and right-click on the Sites root folder or a site subfolder. The Sites Popup Menu appears.

New — Select to create a new site folder. A site folder labeled New Folder appears in the directory tree.

Rename — Select to highlight the site folder label. Type the new name.

Delete — Click to delete the selected site folder. Removing an Instrument will not remove the individual Site Cameras associated with the Instrument.

Sites Instruments Popup Menu

Select and right-click on a Sites Instrument or a Site Camera. The Sites Instruments Popup Menu appears.

Status — Provides information about the instrument and its connected cameras. This is the default selection for the popup menu. See *Instrument Status* on page 28 for more detail.

Setup — Allows access to the setup options for the selected instrument. See *Unit Setup Options* on page 114 for more detail.

Live Display — Live video from the selected unit is displayed in the Video Review area. The last saved configuration is used. See *Live Video Display* on page 34 for more detail.

Retrieve Alarms — Retrieves video segments associated with alarms from the unit's image database.

Retrieve Video — Retrieves video segments from the unit's image database.

Live Video Popup Menu

Right-click anywhere in the Video Review area. The Live Video Popup Menu appears:

Remove One Camera — Click to remove one camera from the display.

Remove All Cameras — Click to remove all cameras from the display.

Camera Control — Click to control pan-tilt-zoom, autoiris, focus, preset location and pattern functions for a dome camera attached by a Touch Tracker instrument to the Intellex unit.

Settings — Click to review camera settings.

Generate an alarm — Click to begin alarm recording functions at the remote Intellex unit.

Select **Cancel** to cancel these activities and return to Live Video Display.

Playback Popup Menu

Right-click anywhere in the Playback Video Review area. The Playback Popup Menu appears:

Switch to Full Screen — Click to change the display to full-screen mode.

Single Pane On/Return to Multi-Pane Mode— Click to change the display between viewing a single pane and the 2x2, 3x3 or 4x4 view.

Remove: [camera name] — Click to remove the incident for the named camera from the display.

Tools [camera name] — Click to apply the Image Tools to the incident from the named camera.

Add [list of cameras] — Click to display an incident from one of the listed cameras in the multi-pane format.

1x1 on: [list of cameras] — Click to display an incident from one of the listed cameras in a single pane.

Mode [1x1, 2x2, 3x3 or 4x4] — Click to change the display to one of the listed modes.

Overlay — Click to turn the overlay information on or off.

Overlay Position — Click and select the position of the overlay information: upper-left, upper-right, lower-left, lower-right.

Select **Cancel** to cancel these activities and return to Live Video Display.

SETTINGS MENU

From the Main Menu, select the **Settings** menu and choose from the following options:

- Time Synchronization
- Display Configuration
- Communication Port
- Instruments
- Live Camera Defaults: Default Live Camera Settings
- Bandwidth Configuration
- Passwords
- Views: Event

Time Synchronization

Since any computer may gain or lose time on its system clock, Time Synchronization helps to ensure that the clock on all connected Intellex units and Network Clients are synchronized.

1. From the **Settings** menu select **Time Synchronization**.

NOTE: Select only one Network Client to serve as the master Timekeeper on your network. Notify all other Network Client and Intellex users which Network Client will be the master Timekeeper for Time Synchronization.

2. Place a check mark in the **Enable Master Timekeeping** checkbox to enable time synchronization with this Network Client as the master timekeeper.

NOTE: Use a reliable time source (U.S. Naval Observatory, time.gov Web site) to ensure your system clock is set to a reliable time sync master clock.

3. Set a time (usually night or early morning) in the **Enter time of day to synchronize units** field for time synchronization to be performed, or click on the **Synchronize Now** button to perform time synchronization immediately.

NOTE: When first enabling Time Synchronization, use the Synchronize Now option to test your setup and generate a Time Synchronization Message Log, including any errors encountered. If there are any unexpected errors, use this information to make the necessary corrections in order to assure that all units can be properly synchronized.

4. Make your selection and click on **OK**.
5. If you click **Synchronize Now**, time synchronization is performed immediately and a Time Synchronization Message Log is generated.

Enable Master Timekeeping — Select this option to assign master timekeeping to this Network Client.

Enter time of day to synchronize units — Use this option to set the synchronize time.

1. Click the hours display. Click the up or down arrow to display the desired hour (24-hour format).
2. Click the minutes display. Click the up or down arrow to display the desired minutes.

Synchronize Now—Click to immediately synchronize all connected Intellex units and Network Clients to this Network Client's time and date. If time synchronization returns any messages, the unit displays the messages in the Time Synchronization Message Log (see *Time Synchronization Message Log* on page 108).

OK — Click to accept the synchronization time. At this time each day, all connected Intellex units and Network Clients will be synchronized to this Network Client's time and date.

Cancel — Click to cancel the operation and return to the main screen.

Time Synchronization is Password protected. Contact your system administrator for assistance if you are not able to access this feature.

To add or edit Remote Instruments for Time Synchronization:

1. From the Main Menu click on **Settings** and choose **Instruments**.
2. On the Remote Instrument Setup screen, **Add** an Intellex unit's or a Network Client PC's name to the Remote Instrument list, or **Edit** an existing unit's settings.
3. If adding a Remote Instrument, enter the Intellex unit's name or the Network Client PC's name.

NOTE: To locate the Intellex or network Client computer's name, right-click on **My Computer**. Select **Properties** from the pull-down menu and the System Properties screen appears. Select **Network Identification**; the PC name is indicated at Full Computer name.)

NOTE: Network Client units will be added to the Remote Instrument Setup list and to the Time Synchronization Log, but they will not appear in the Devices tree view.

4. If adding a Network Client PC, enter **5002** as the **Communications Port** address.
5. Select **Network Client** as Instrument Type.
6. Click on **OK**. The Network Client PC name should appear on the Remote Instrument Setup list.

Time Synchronization Message Log

If time synchronization returns any messages, the unit displays each message on this screen:

Unit Name — Lists the unit type and name in xx: yyyyyyyy format, where xx is the unit type (IX for an Intellex unit, NC for a Network Client) and yyyyyyyy is the unit name.

Message — Lists one or more of the following messages:

Unit did not respond within one-minute time-out period. — This error occurs when the Network Client has successfully sent the time synchronization command to the Intellex unit, but the Intellex unit has not responded within one minute.

Unit user does not have privilege to set system time. — The user who is logged on to a different Network Client computer does not have the Windows NT security privilege for changing the system date and time. To synchronize that computer, a user with this privilege must be logged on during time synchronization.

Time synchronization already in progress from another Network Client.— The user at another Network Client computer has already started a time synchronization.

User currently updating unit date and time. — The user at the Intellex unit is updating that unit's system date and time.

Clock synchronized; clock was off by more than two minutes. — The unit clock is more than two minutes earlier or later than the Network Client's system clock. The unit may have experienced a critical clock problem. Even though synchronization was successful, you should troubleshoot the indicated unit.

Unit is already synchronizing time. — Time synchronization, which was already started from this Network Client computer, is still in progress.

Network connection error. — Either a network connection could not be made to the unit or the network connection failed.

Unidentified error. — The Network Client software cannot interpret the error message from the unit.

OK — Click to return to the main screen.

Display Configuration

From the Settings menu, select Display Configuration. Use this option to configure the Network Client display settings.

Playback Overlay Position

- In Playback Overlay Position, select the location on the video display area where you wish to display the overlay (includes the Intellex name, camera name, date, time and alarm type): **Upper-Left, Upper-Right, Lower-Left** or **Lower-Right**. The default is **Upper-Left**.
- Select the **Enable the overlay** option to enable the Overlay button on the main screen. It also enables the Overlay View Information option on the View menu. Then the user can display the overlay information as needed. This option is selected by default.

Enable Overlay

Select this option to enable the Overlay button on the main screen.

- Place a check mark in the box next to **Enable Overlay**. The Overlay display then appears over the images in the playback area.

NOTE: This option is selected by default. Another way to **Enable Overlay** is to select the **Overlay Video Information** option from the **View** menu.

Enable DirectDraw

Select the **Enable DirectDraw** option to use DirectDraw when playing back images.

1. Place a check mark in the box next to **Enable DirectDraw**.

NOTE: DirectDraw provides faster and smoother image playback. However, you must install a video card and appropriate software drivers with DirectDraw support on the Network Client computer.

Click **OK** to accept the display settings. All changes take place immediately.

Click **Cancel** to cancel the operation and return to the main screen.

Communication Port

In the Communication Port setup screen you may specify a fixed port address for Network Client to use for TCP/IP connections to a network. Network Client requires one active port for communicating with other Network Clients. The assignment of a specific port address permits communication over TCP/IP.

The default setting is **5002** for the Communications Port on Network Client. Accept this setting unless instructed otherwise by your IT administrator.

NOTE: Any change to the Communication Port address assignment will take effect only after the unit is restarted.

Instruments

Use the Instruments option to connect to specific Intellex units on the network. Each Intellex unit must have a unique name or IP address on the network.

Contact your IS administrator if you do not have the address information for the Intellex units on your network. See the *Using Remote Instrument Setup* on page 31 section for more information.

Live Camera Defaults

Use Live Camera Defaults to accommodate the effect of network traffic on the Intellex unit's live video output.

Image Quality

When network traffic is highest, set **Image Quality** at the **Low** setting to increase the speed of Live Video images over the network. The selected Intellex unit will output video images at the highest available compression, decreasing the bandwidth required to transmit live video over the network. Use this setting when picture quality in the live video output is not as important as the number of images received.

When network traffic is lowest, set **Image Quality** at the **High** setting to increase the quality of Live Video images received by Network Client. The selected Intellex unit will output video images at the lowest available compression, increasing the bandwidth required to transmit live video over the network. Use this setting when picture quality in the live video output is more important than the number of images received.

Motion Sensitivity

Set **Motion Sensitivity** at the **Normal** setting to decrease the amount of information in intermediate or delta images received from an Intellex live video output. The selected Intellex unit will output video images at the highest delta threshold setting, decreasing the bandwidth required to transmit live video over the network. Use this setting when catching subtle changes in the live video output is not as important.

Set **Motion Sensitivity** at the **High** setting to increase the amount of information in intermediate or delta images received from an Intellex live video output. The selected Intellex unit will output video images at the lowest delta threshold setting, increasing the bandwidth required to transmit live video over the network. Use this setting when catching subtle changes in the live video output is important.

Click **OK** to accept the current settings and return to Network Client.

Click **Cancel** to close Live Camera Defaults without changing these settings.

Bandwidth Configuration

A bandwidth limit should only be set if required by the network administrator because of network limitations. Any bandwidth limit set will prevent the TCP protocol from delivering optimum performance for a given network load.

1. From the main screen select the **Settings** menu and choose **Bandwidth Configuration**.
2. If you are using Classic Security, the Password Required dialog appears.
3. Enter the numeric password for this privilege.
4. Click **OK** to continue or **Cancel** to close this dialog.

NOTE: Bandwidth configuration is Password protected. Contact your system administrator for assistance if you are not able to access this feature.

- Click the checkbox **Throttle Enable** to activate the Network Bandwidth dialog.

5. In the **Enter Bandwidth** box, enter a number to represent the total network bandwidth available to Network Client/Intellex.
6. Check either the **Mbps** (Megabits per second) or **Kbps** (Kilobits per second) box according to which rate is applicable.
7. Click **OK** to change the Network Bandwidth limit.

NOTE: Bandwidth limits of 2 Mbits/sec or lower will increase the time required to download video clips. Bandwidth limits of 700 Kbits/sec or lower will reduce the image rate for live display.

Passwords

Select one of the Passwords options:

Login

At the Security Setup screen, select **Classic** or **Advanced** security, or **None**. If you select **None**, no login is required. The new settings will take effect the next time Network Client is started.

If you select **Classic** security, you are prompted to enter a New Password. Enter a numeric New Password of at least four digits. Retype the password in the Confirm Password text box. The new settings will take effect the next time Network Client is started. To access an Intellex unit, click the **Login** button on the Unit Setup screen. You will be prompted to enter your password for that Intellex unit each time you access it.

If you select **Advanced** security, click the **Perform Authentication Check** checkbox to allow Network Client to check a user's credentials for access to an Intellex unit on the domain managed by Policy Manager. The new settings will take effect the next time Network Client is started. At each subsequent Network Client session, you will be prompted to log on to Network Client using your domain credentials: an authorized username, a password, and the domain name.

Change Passwords

To change passwords for Time Synchronization, Instruments or Bandwidth Configuration:

1. Select **Time Synchronization, Instruments** or **Bandwidth Configuration** to change passwords for these features.
2. Enter a numeric New Password of at least 4 figures.
3. Retype the password in the Confirm Password box.
4. Click **OK** to change the password and continue.

Views: Event

In the **Event Notifier** screen, configure the Event Notification options (see *Event Notification* on page 32) for startup and shutdown, and the format for the printed report of the **Event Viewer** activity that is displayed in the lower portion of the Network Client main screen.

- **Enable at Network Client startup:** Click the checkbox to enable **Event Notification**. These settings will take effect the next time Network Client is started: the Event Handler will be loaded in the system tray and the Event Viewer will be displayed in the Network Client main screen.
- **Shutdown at Network Client close:** Click the checkbox to disable **Event Notification** upon exiting Network Client. Disabling the Event Handler in this manner terminates the Event Handler's event log; this data cannot be restored. Therefore, if anyone who is using Network Client wishes to use the event log data on a regular basis, do not select the **Shutdown on Network Client Close** option, or else you will lose all accumulated event log data upon exiting Network Client.
- **Report Header:** Specify the header you wish to use on the **Event Viewer** report printout.
- **Report Footer:** Select Standard ("Event Handler" will appear as the footer) or specify the footer you wish to use on the **Event Viewer** report printout.

Click on OK to enter your Event Notification settings or Cancel to leave the Event Notifier dialog with no new settings (defaults accepted).

HELP MENU

Use the Help menu to retrieve Network Client help and version information.

Help Topics

Select this option to display the main help screen for the Network Client software.

About

Select this option to display the Network Client version and copyright information.4

UNIT SETUP OPTIONS

Access each system setting through the Unit Setup screen. You must use the **Login** function before setting or changing any Unit Setup option.

NOTE: You must possess the appropriate privilege to access a Unit Setup option (see *Security Setup* on page 122).

NOTE: Setup, alarm retrieval, and video retrieval on the remote Intellex unit is limited to one Network Client at a time.

To access any of the Unit Setup screens, click the **Unit Setup** button from the main screen toolbar. The Unit Setup screen appears.

Select one of the following options:

Cameras — Click to access the Intellex Camera Setup screens. Use these screens to configure settings for each camera: names, termination, gain mode, camera control and covert mode.

Security — Click to access the Intellex Security Setup screens. Use these screens to assign the name (user), personal identification number (PIN) and privileges (select from the list of privileges) for each user.

Schedule — Click to access the Intellex Schedule Setup screens. Use these screens to define how the unit records images in this installation, including daytime and nighttime operation, and weekday, weekend and holiday operation.

Record Mode — Click to access the Intellex Record Mode Setup screen. Use this screen to define how the unit records regular (non-alarm) images.

Alarms — Click to access the Intellex Alarm Setup screens. Use these screens to define how the unit responds to various alarm conditions.

Display — Click to access the Intellex Display Setup screens. Use these screens to define the display settings and to assign cameras to specific locations in each live display format.

Archive Schedule — Click to access the Intellex Archive Schedule Setup screens. Use these screens to set the system schedule for archive of the image database.

Begin Record — Press to commence record operations on a connected Intellex unit if:

- You have Record Privileges,
- Intellex has stopped recording and
- Record in Setup is in Linear Mode.

Text Stream — Click to access the Intellex Text Stream Setup screen. Use this screen to set up the text stream for receiving data in the form of text associated with one or more cameras.

Storage — Click to access the Intellex Storage Setup screen. Use this screen to configure the database volumes on the Intellex unit or another connected drive volume.

Audio — Click to access the Intellex Audio Setup screen. Use this screen to configure the recording settings for audio from a line input or microphone.

Rate — Click to access the Intellex Recording Rate Setup screen. Use this screen to assign faster or slower recording rates to specific cameras. A camera used to record more critical activity, like a point of sale (POS) location, can be configured to record at a higher frame rate than a camera used to record less critical activity.

CAMERA SETUP

The Camera setup screens let you define the name and termination settings for each camera on the remote Intellex unit.

NOTE: Camera setup is a protected feature. You must possess the **Setup Cameras** privilege to access it (see *Security Setup* on page 122).

To use the Camera Setup functions:

1. Select the Intellex unit on the **Sites** tab, in the lower left of the Main Screen.
2. Click **Unit Setup** on the toolbar, or from the Actions menu select **Instrument Setup**. The Intellex Camera Setup screen appears.
3. Click the **Cameras** button. Use the Names screen to define the name of each camera. These names are displayed when viewing live images and are stored in the image database with recorded images.

Use the mouse pointer to highlight one of the current camera names. Then use the virtual keyboard or the physical keyboard (if attached) to enter the new name, up to 10 characters. The default names are **Camera1** through **Camera16**.

Termination

Since terminators are not required on Intellex units, use the Termination screen to define each camera's termination.

The names of each camera are listed as configured in the Names screen. Select the desired termination for each camera: **75 Ohms** or **Hi-Z**. The default is **75 Ohms**.

When set to **75 Ohms**, the unit terminates the camera. This is the same as installing a terminator on the associated **Camera Out** connector.

When set to **Hi-Z**, the camera signal is passed through to the associated **Camera Out** connector. This is the same as removing a terminator and attaching a cable to the associated **Camera Out** connector.

Gain

NOTE: Selecting gain boost will increase the noise level in the video. This can result in poor image quality and reduced recording durations.

Use the Gain screen to set the gain level for each camera. Adjust the gain level to reduce the brightness of an overly bright camera. Adjust the gain level to increase the quality of poor video.

For example, if twisted-pair wire is used, the video may appear too dark. To correct for darkness, increase the **Gain** setting for that camera.

Click on the down arrow to the right of a camera name. Select one of the following Gain settings to make your adjustments for luma (amount of luminance or brightness) and chroma (depth of color saturation):

- **Reduce Gain:** Use this setting to decrease brightness of washed out video.
- **Normal:** Default. Use this setting for coax installations with good video quality.
- **Boost Gain Low:** Use this setting for a twisted-pair run of approximately 500 ft. or less.
- **Boost Gain Medium:** Use this setting for a twisted-pair run of approximately 500–1000 ft.
- **Boost Gain High:** Use this setting for a twisted-pair run of approximately 1000–1500ft.

The associated values of luma and chroma gain are adjusted to the appropriate levels for each setting.

Camera Control

NOTE: Camera Setup is a protected feature. You must possess the **Setup Cameras** privilege to access it.

1. Use the **Camera Control** screen to select a camera handler for each camera that will be controlled:
    - Select **NONE** if this camera cannot be controlled or you do not wish to permit remote control of this camera. This is the default selection.
    - Select **AD168, MP48 Matrix Switcher** if you have an AD168 or MP48 Matrix Switcher, or if your switcher uses make/break or start/stop polling.
    - Select **AD1024 Matrix** if you have an AD 1024 switcher or if your switcher uses continuous polling.
    - Select **RS422 Dome** if you are connecting to a SpeedDome using the RS422 protocol.
    - Select **VM16/ADTT16** if you have a VM16 or ADTT16E Touch Tracker or Enhanced Touch Tracker.
    - Select **VM16E/ADTTT16E V2.x** if you have a VM16 or ADTT16E with version 2.x firmware.
    - Select **Pelco Matrix Switcher** if you have a Pelco Matrix Switch, model 6700, 6800, 8500, 9500, 9750, or 9760.
2. After you select a camera handler, the **Setup** button will be active for that camera.
3. Click **Setup** to go to the **Camera Control Setup** screen for setup of this camera.

NOTE: You MUST perform Setup on each camera with a camera handler selected for proper operation of the Intellex unit.

Camera Address

Enter the address of the camera associated with this Intellex input. The default camera address is the Intellex camera number. Normally this is correct. This address must match the SensorNet address of the camera being controlled.

- The default camera address is the Intellex camera number. Normally this is correct. If the TT16E V2.x camera handler is used, the SensorNet address of the camera must be used.
- The MUX port is the COM2 port that is normally used when the Touch Tracker is used to select cameras on Intellex. This MUX port must be used Touch Tracker control. Any other COM port on the Intellex can be used only for camera control.

NOTE: The Version 2.x firmware permits simultaneous local (at the Touch Tracker) and remote (via Network Client) control of different cameras through the same Touch Tracker. The Touch Tracker must have version 2.x firmware for this mode to work.

COM Port

In the **Camera Control Setup** screen, enter the address of the camera associated with this Intellex input (the default is the camera number). This address must match the SensorNet address of the camera being controlled.

- The default **Camera Address** is the Intellex camera number. Normally this is correct. If the TT16E V2.x camera handler is used, the SensorNet address of the camera must be used.

Then select the proper **COM Port** for this camera. You MUST perform the Setup for each camera that has a camera handler selected for proper operation of the Intellex unit.

- The MUX Port is the COM2 port that is normally used when a Touch Tracker is used to select cameras on the Intellex. This MUX port must be used for Touch Tracker control. Any other COM port on the Intellex unit can be used only for camera control.

Click **OK** to accept the settings and return to the **Setup Cameras** screen. Click **Cancel** to cancel any changes and return to the **Setup Cameras** screen.

NOTE: (only for Matrix Switcher handlers) The monitor number selection will switch the camera to the selected monitor output on the switcher. If local switching of the video is not desired, select an unused monitor output on the Intellex.

NOTE: The RS-232 port on the matrix switcher MUST be set to Terminal Mode when connecting an Intellex unit to an AD matrix switcher for camera control.

Covert Camera

The Covert Camera feature allows authorized users to capture video from a hidden camera without the knowledge of other users.

NOTE: **NOTE:** Only authorized users can configure and view covert cameras. Unauthorized users cannot view covert cameras. Disabling Covert Mode makes all recorded video visible to all users.

Configuring a Covert Camera

You must possess the **Setup Covert Cameras** privilege to access the Covert Mode tab (see Security).

1. From the main screen, click the **Setup** button. The Setup Options screen appears.
2. Click the **Cameras** button. The **Names** tab (the first Camera Setup screen) appears.
3. Click the **Covert Mode** tab.
4. Find the desired camera(s) and select Covert from the pull-down menu.
5. Click **OK**.

NOTE: A covert camera appears as a disconnected camera to unauthorized users. Therefore, we recommend you set up the last camera(s) in the list as covert.

Live Mode

Live Mode behavior is different for users with authorized covert camera privileges.

Authorized Users

When an authorized user views live video from a covert camera, the pane displays the video, the camera name, and an asterisk (*) indicating that this is a covert camera.

If an authorized user right-clicks a covert camera's live video pane to display the Image Area Popup menu, the covert camera name is preceded by an asterisk (*) indicating that this is a covert camera.

Unauthorized Users

When an unauthorized user attempts to view live video from a covert camera, the pane displaying that camera appears as if the camera is not active. Rather than displaying the actual name of the covert camera, the default camera name is displayed. This conceals the fact that there may be a hidden camera.

When an unauthorized user-right clicks a covert camera's live video pane to display the Image Area Popup menu, the covert camera behaves as an inactive camera. The "Single Pane" and "Generate Alarm" items are grayed out, as is the camera's default name in the list.

Playback Mode

Playback Mode behavior is also different for users with authorized covert camera privileges.

Authorized User

When an authorized user plays video from a covert camera in single pane or multi-pane mode, the screen displays the video, camera name, and an asterisk (*) indicating that this is a covert camera.

If an authorized user right-clicks a covert camera's playback pane to display the menu, the covert camera name is preceded by a an asterisk (*) indicating that this is a covert camera.

Unauthorized User

An unauthorized user cannot play video from a covert camera in single pane or multi-pane mode. If this is attempted, the screen displays the default camera name and the message "No Video." In multi-pane mode, the screen displays only the default camera name.

If an unauthorized user right-clicks a covert camera's playback pane to display the menu, the covert camera behaves like an inactive camera. The **Single Pane**, **Remove**, and **Tools** items are grayed out, as is the camera's default name in the list.

Exporting with a Covert Camera

When an unauthorized user opens the **Export** screen, all covert cameras behave as if they are not connected. An unauthorized user can select the checkboxes for all cameras, except any covert or disconnected cameras. If an unauthorized user selects the name of a covert camera, the name is highlighted, but the video remains the same as previously displayed. Only video from normal cameras can be exported; none of the covert cameras can export video.

If audio or text are associated only with covert cameras, then the Audio and Text Streams area remains blank, and audio and text are not exported. However, if audio and text are associated with any normal camera, audio and text appear in the Audio and Text Streams area.

NOTE: When you log out, your clip list is remembered and restored the next time you log in; however, any other user cannot see your clip list. This ensures that unauthorized users cannot view covert camera video by viewing clips that were left in the clip list by an authorized user.

Status Screen

When an unauthorized user views the **Status** screen, any camera that is covert displays a red “X” over the Camera and Record icons to indicate there is no camera connected, the mode displays Active, the Quality and Sensitivity field display “**Normal**”, and the Pre-Alarm field displays “**- - - -** “, and the Filter field is left blank. The default camera name is shown instead of the actual name of the covert camera.

When an authorized user views the **Status** screen, the true status of all cameras is displayed. In addition, all covert cameras are indicated by an asterisk (*) preceding the camera name.

SECURITY SETUP

The Security Setup screens let the system administrator define the name, personal identification number (PIN) and privileges for each user on the remote Intellex unit. This protects the system from unauthorized use.

The opening security setup screen displays a list of current users for this Intellex unit. In Classic Security mode only, use this screen to add or delete users, or to edit the name, PIN or privileges of existing users. The system administrator can also use this screen to enable or disable system security.

If Classic Security is enabled, users must log in using their PIN. Once validated, users have immediate access to functions according to their assigned privileges.

NOTE: Security setup is a protected feature. You must possess the Setup Security privilege to access it.

To access the Security Setup screens:

1. From the Setup for Unit screen, click the **Setup** button. The Setup screen for the remote Intellex unit appears.
2. Click the **Security** button. A screen appears that lists all current system users on that Intellex unit in alphabetical order.

Add a New User

Use the **Add** option to define the security information (name, PIN and privileges) for a new user.

To add a new user:

1. From the user list screen, click **Add**. The User screen appears. Enter the name of the new user, up to 16 characters.
2. The system selects a unique four-digit PIN, which identifies this user to the system. Enter a different PIN if necessary. The system does not allow duplicate PINs.
3. Privileges can be divided into two groups: unrestricted and restricted. Unrestricted functions are available to all users. Restricted functions are only available to users who have permission to access them. These permissions are assigned in this section of the screen.

Use the mouse pointer to select the privileges for this user. To view more privileges, click the up arrow or the down arrow or drag the elevator button up or down.

Setup

Cameras — This privilege lets this user change camera names and termination settings.

Security — This privilege lets this user add, edit or delete users and their security privileges.

Schedule — This privilege lets this user configure the system schedule, including the Live filters.

Record — This privilege lets this user change the system record mode.

Alarms — This privilege lets this user change the system alarm configuration.

Display — This privilege lets this user change the monitor display settings.

Storage — This privilege lets this user setup or change the unit's database Storage options.

Text Streams — This privilege lets this user enable Text Stream recording.

Audio — This privilege lets this user enable Audio Stream recording.

Date/Time — This privilege lets this user change the system date and time on the Intellex unit.

Port Address — This privilege lets this user specify a fixed port address for the Intellex unit to use for connecting to a network.

Archive Schedule — This privilege lets this user set the system schedule for archive of the image database.

Record

Enable — This privilege lets this user access the **Begin Record** button on the Setup screen.

Playback

Enable — This privilege lets this user play back images, search the image database, review alarms and access the image enhancement tools.

Alarm

Generate Alarms — This privilege lets this user generate an alarm for any camera at any time on the Intellex unit.

Clear Latched Messages — This privilege lets this user clear latched alarm messages on the Intellex unit.

Archive

Enable — This privilege lets this user back up the image database. It also lets this user format a tape on the Intellex unit.

Restore — This privilege lets this user restore images from an archive tape on the Intellex unit.

NOTE: The **Playback Enable** privilege must also be selected to use the following function.

Playback — This privilege lets this user play back images which were restored from an archive tape on the Intellex unit.

Text

Playback — This privilege lets this user enable playback of recorded Text Streams.

Remote — This privilege lets this user enable remote playback of recorded Text Streams.

Audio

Playback — This privilege lets this user enable playback of recorded Audio Streams.

Remote — This privilege lets this user enable playback of remote Audio Streams.

Live — This privilege lets this user enable playback of live Audio Streams.

System

Exit to System — This privilege lets this user access the **Exit** button on the Utility Options screen of the Intellex unit.

Shutdow — This privilege lets this user access the **Shutdown** button on the Utility Options screen on the Intellex unit.

Upgrade License — This privilege authorizes this user to access the **Upgrade License** button through the Utility Options screen on the Intellex unit.

Click **OK** to accept the new user configuration as displayed and return to the user list screen. Click **Cancel** to cancel adding the new user and return to the user list screen. Click **Help** to display online help for this screen.

Edit a User

Use the Edit option to change a user's security information.

NOTE: The user name **Administrator** and all privileges are automatically assigned to the system administrator. This user's name and privileges cannot be changed. However, you should change its default PIN (1234) to protect the system from unauthorized use.

To edit a user's security information:

1. Select the user from the user list. To view other users, click the up arrow or the down arrow or drag the elevator button up or down.
2. Click **Edit**. The User screen appears with the user's name, PIN and privileges.
3. Make the changes to the user's information and privileges.
4. Click **OK** to accept the configuration as displayed and return to the user list screen. Click **Cancel** to cancel any changes to this user and return to the user list screen. Click **Help** to display online help for this screen.

Delete a User

Use the Delete option to erase a user's security information. The user will no longer have access to the system.

NOTE: You cannot delete the **Administrator** or the current user.

To delete a user's security information:

1. Select the user from the user list. To view other users, click the up arrow or the down arrow or drag the elevator button up or down.
2. Click **Delete**. A confirmation screen appears.
3. Click **Yes** to delete the selected user. Click **No** to close this screen without deleting the user.

Enable/Disable Security

NOTE: This function is only available to the **Administrator**. The **Enable** (or **Disable**) button only appears when the system administrator is logged in.

Use this option to either enable or disable system security. The unit displays the appropriate button: **Enable** or **Disable**. The security system is disabled as the factory default; you must initially enable it.

When the **Enable** button appears, security is disabled. The system does not require users to log in and lets them access all functions (except this one).

When the **Disable** button appears, security is enabled. The system requires users to log in and restricts them to their individual privileges.

To enable (or disable) system security:

1. Click **Enable** (or **Disable**) from the user list screen. A confirmation message appears.
2. Click **No** to close the message screen without enabling (or disabling) security. Click **Yes** to enable (or disable) system security. The system displays the Enter PIN Code screen.
3. Enter the system administrator's four-digit PIN code. The unit displays asterisks as a security measure.
4. The system verifies the code. If you entered the correct code, the system enables (or disables) security and closes this screen. If you did not enter the correct code, the system displays an error message. Click **OK** to close this screen without enabling (or disabling) security.

Advanced Security

Advanced Security provides both local and remote secured access to Intellex units and to designated Intellex features (downloading and viewing video, setting up a schedule, etc.) or resources (cameras, alarms, alarm list database, recorded video database, etc.). Advanced Security requires Policy Manager, which enables an administrator to manage secured access to Intellex units and to Network Client by means of user credentials for each user on the network.

To use Advanced Security you must have Policy Manager installed on the network to which Network Client is connected. If Policy Manager is not installed, then you may only select either None or Classic Security to control access to Intellex units on your network from Network Client.

When Advanced Security is installed, you must enter valid credentials (user name, password, and domain name) each time you log in to Network Client in order to run Network Client and to be granted access to remote Intellex units. Policy Manager manages secured access to all Intellex units that are configured for Advanced Security and grants privileges to users to access those Intellex units and to perform designated actions on those units.

For more information on Policy Manager, contact your American Dynamics dealer.

RECORD MODE SETUP

The Record Mode screen lets you configure how the remote Intellex unit records images during regular (non-alarm) operation.

NOTE: Record mode setup is a protected feature. You must possess the **Setup Record** privilege to access it (see *Security Setup* on page 122).

To access the Record Mode screen:

1. From the main screen, click the **Setup** button. The Setup screen appears (see *Unit Setup Options* on page 114).
2. Click the **Record Mode** button. The Record Mode screen appears.

Select one of the following two options:

NOTE: Circular Mode is the default factory setting for the Record mode.

NOTE: When the image database is full and **Linear** is selected, recording stops and an option screen appears.

Linear — In linear mode, the unit records from the beginning to the end of the image database. When the database is full, the unit stops recording and displays an option screen. The operator must choose one of the following options:

- Perform a backup immediately.
- Postpone archiving and recording until later.
- Continue recording images at the beginning of the database, which overwrites older images.

After clearing the option screen, the operator must select **Begin Record** on the Setup screen to restart unit recording.

Notify when ____% full — In linear mode, the unit notifies the operator when the image database reaches a certain level (**50%** to **100%**). The default is **75%**.

NOTE: This option is disabled unless **Linear** is selected.

- Move the slide control to the left to decrease the percentage in increments of five. Select a low percentage to display the warning message when the database has a lot of available space.
- Move the slide control to the right to increase the percentage in increments of five. Select a high percentage to display the warning message when the database has less available space.

CAUTION: When the database is full and Circular Mode is selected, the unit starts recording at the beginning of the database. As recording continues, the unit overwrites older images, including alarm images. Once overwritten, unarchived images cannot be recovered.

Circular — In circular mode, the unit records from the beginning to the end of the image database. When the database is full, the unit automatically starts recording from the beginning of the database. The unit does not clear the database. However, it overwrites older images as necessary, both archived and unarchived, including alarm images. Once overwritten, unarchived images cannot be recovered.

Click **OK** to accept the displayed record mode options and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

DISPLAY SETUP

The Display Setup screens let you configure how the remote Intellex unit displays live video images.

NOTE: Display setup is a protected feature. You must possess the **Setup Display** privilege to access it (see *Security Setup* on page 122).

To access the Display Setup screens:

1. From the main screen, click the **Setup** button. The Setup screen appears (see *Unit Setup Options* on page 114).
2. Click the **Display** button. The Mode screen (the first Display Setup screen) appears (see *Display Mode Setup* on page 129).

Display Mode Setup

Use the Mode screen to select the live video monitor and the sequencer dwell time.

Configure the following information:

Sequencer Dwell — Use this option to set the amount of time the unit displays a camera's images before switching to the next camera. This setting is used with camera sequencing (see *Basic Live Operation* in the *Intellex Installation and Operating Instructions*). The setting can range from one second (**00:01**) to two minutes (**02:00**). The default is two seconds (**00:02**).

To set the sequencer dwell rate:

1. Click the minutes display. Click the up arrow or the down arrow to display the desired number of minutes.
2. Click the seconds display. Click the up arrow or the down arrow to display the desired number of seconds.

Playback to Monitor — This setting allows output of recorded images as composite video signal from the BNC output of an ATI video card. Not all Intellex units are equipped with this feature.

Playback Controls — This setting allows substitution of VCR-like virtual controls for the virtual jog/shuttle on the Intellex unit. Earlier versions of Intellex do not support this feature.

Playback Overlay

Enable — Select **Yes** to display image information in the image area during playback. The unit name, camera name, date, time and alarm input (if any) appear in the designated corner. The default is **Yes**.

Select **No** to hide image information during playback.

Overlay Position — Select a screen position for the overlay information during playback: **Upper-Left**, **Upper-Right**, **Lower-Left**, **Lower-Right**. The default is **Upper-Right**.

Click **OK** to accept the displayed mode settings, as well as any changes on the other Display Setup screens, and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

2x2, 3x3, 4x4 Display Setup

Use this screen to specify the location of each camera when the display format is selected.

(Cameras) — The name of each camera is listed in order from 1 to 16. Camera names are configured in the **Cameras** portion of the Setup screen.

Reset — Click to reset the order of cameras in the selected configuration to its default.

To configure the display:

The grid display shows the location of each camera as it will appear in Live Video operations.

1. Select the name of a camera from the list.
2. Move the mouse pointer to any location on the grid. The pointer changes to a camera icon.
3. Click the grid location for the selected camera. The name of the camera displays in its grid location.

Click **OK** to accept the displayed mode settings, as well as any changes on the other Display Setup screens, and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

Call Monitor Setup

NOTE: A Call Monitor board must be installed in the Intellex unit to support the Call Monitor option.

In Call Mode, video from a specific camera is displayed on the call monitor when commanded by the user.

In Spot Mode, the Intellex unit automatically displays video in sequence from alarmed cameras to the call monitor (similar to how a multiplexer sequentially displays camera signals).

The Call Monitor function can also be controlled via a serial connection from a Touch Tracker controller.

To configure the Call Monitor or Spot Monitor display:

Select either **Call Mode** or **Spot Mode**. Then under Call Camera, select the specific camera to display on the call monitor. Only one mode can operate at a time.

Click **OK** to accept the displayed mode settings, as well as any changes on the other Display Setup screens, and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

SCHEDULE SETUP

The Schedule Setup screens let you configure how the remote Intellex unit records images under a variety of circumstances.

NOTE: Schedule setup is a protected feature. You must possess the **Setup Schedule** privilege to access it.

To access the Schedule Setup screens:

1. From the main screen, click the **Setup** button. The Setup screen appears.
2. Click the **Schedule** button. The Mode screen (the first Schedule Setup screen) appears.

The Mode screen lets you indicate whether the unit will operate on a regular, custom or single camera schedule. The default is **Use Regular Schedule**.

Select Use Regular Schedule to use the same schedule for all cameras.

Select Use Custom Schedule to create custom schedules for each camera.

Select Use Single Camera Schedule to record images from a single camera.

Data Lifetime Setup is shared between the three recording modes. Live Filter Setup is shared by Regular Schedule Setup and Custom Schedule Setup.

Regular Schedule Setup

Use the Regular Schedule Setup screens to use the same schedule for all cameras. The unit uses the same schedule for weekdays, weekends and holidays. Daytime operation begins at the set start time and switches to nighttime operation at its start time.

Select the **Use Regular Schedule** option. The unit displays the **Data Lifetime**, **Quality**, **Time**, **Cameras 1–8** and **Cameras 9–16** tabs, and removes all other tabs.

Regular Quality Setup

Use the Quality screen to set the quality for normal operation.

To set the quality:

Select the record quality to use for regular operation. The default setting is **Normal**.

Super — Record images at the highest image quality. Since the unit uses the lowest level of compression, this setting requires the highest amount of storage space.

Normal — Record images at normal image quality. This setting provides a balance between compression and storage space requirements.

Extended Record — Record images at the highest level of compression. This setting requires the lowest amount of storage space.

To set the sensitivity:

Select the sensitivity for regular operation. The default is **Normal**.

High — At this setting, Intellex records the smaller changes between images, improving the perceived picture quality. As a result, this setting requires more storage space.

Normal — At this setting, Intellex ignores the smaller, more subtle changes between images

Resolution

This feature allow control of the image size that is recorded, stored and displayed.

640x240 — At this setting, more detailed (larger) images are recorded, stored and displayed.

320x240 — At this setting, less detailed (smaller) images are recorded, stored and displayed.

Regular Time Setup

Use the Time screen to set the start times for daytime and nighttime operation.

Configure the following information:

Start day at — Use this option to set the start time for daytime processing in 24-hour format. The default is **06:00** (6:00 a.m.).

Start night at — Use this option to set the start time for nighttime processing in 24-hour format. The default is **18:00** (6:00 p.m.).

To set the day and night start times:

1. Click the hours display. Click the up arrow or the down arrow to display the desired hour (24-hour format).
2. Click the minutes display. Click the up arrow or the down arrow to display the desired minutes (30-minute increments).
3. Click **OK** to accept the new start times, as well as any changes on the other Regular Schedule Setup screens, and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

To continue Regular Schedule setup, select **Mode**, **Quality**, **Cameras 1–8**, **Cameras 9–16** or **Data Lifetime**.

Regular Cameras Setup

Use the Cameras 1–8 and Cameras 9–16 screens to configure a Live Filter for each camera, one for daytime and one for nighttime operation. If you configure a filter and activity is detected (for example, motion in the target area of the motion detection filter), the unit records images from the camera at the record rate specified in the Alarm Setup screens.

Cameras — All camera names are listed down the left side of the screen in camera order.

NOTE: Before you can configure a Live Filter, you must record at least one image from the camera. Until an image is recorded, the filter options are disabled.

Day Filter — Use this option to select a Live Filter for this camera during daytime operation. The default is **None**.

To select the day filter:

1. Click the down arrow. A list of filters appears.
2. Click the desired filter. Select **None** to disable any previously configured filters.
3. Click **Setup** to configure the filter (see *Regular Live Filter Setup* on page 134).

Night Filter — Use this option to select a filter for this camera during nighttime operation. The default is **None**.

To select the night filter:

1. Click the down arrow. A list of filters appears.
2. Click the desired filter. Select **None** to disable any previously configured filters.
3. Click **Setup** to configure the filter (see *Regular Live Filter Setup* on page 134).
4. Click **OK** to accept the new start times, as well as any changes on the other Regular Schedule Setup screens, and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

To continue Regular Schedule setup, select **Mode**, **Quality**, **Time** or **Data Lifetime**.

Regular Live Filter Setup

Filter setup provides access to several configuration options. To use this menu to setup filter operations for a camera on a regular schedule, you must select the **Day Filter** or **Night Filter** area of the **Cameras 1–8** or **Cameras 9–16** screen. Filter setup provides access to several configuration options.

NOTE: Before you can configure a filter, the Intellex unit must have recorded at least one image from the camera. Until an image is recorded, the filter options are disabled.

Select a Live filter from the pull-down menu for each camera. See *Live Filter Setup* on page 152 for a description of how to configure each Live Filter.

Regular Data Lifetime Setup

The Data Lifetime feature allows users to delete data on a user-defined basis (from 1 to 199 days old), either system-wide or camera by camera. Data Lifetime lets you manage all data on the unit's hard drive(s), either standard internal drives or external drives as in a RAID system, but not any data previously archived or exported to removable media or to a Network Client host.

See *Data Lifetime Setup* on page 167 for more information.

Custom Schedule Setup

Use the Custom Schedule Setup screens to create a custom schedule for each camera. For weekdays, weekends and holidays, select operating hours, recording modes and filters for each camera.

Select the **Use Custom Schedule** option. The unit displays the **Data Lifetime**, **Time**, **Weekday**, **Weekend**, **Holiday** and/or **Set Holidays** tabs, depending on selected options, and removes all other tabs.

1. Select **Include Weekend** to create different schedules for weekend operation, including operating hours, recording modes and filters for each camera. The Time and Weekend tabs appear. When **Use Custom Schedule** is selected, this option is selected by default.

   Select **Include Holiday** to create different schedules for holiday operation, including operating hours, recording modes and filters for each camera. The Time, Holiday and Set Holidays tabs appear. When **Use Custom Schedule** is selected, this option is selected by default.
2. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

Select **Time**, **Weekday**, **Weekend**, **Holiday**, **Set Holidays** or **Data Lifetime** to continue Custom Schedule setup:

Custom Time Setup

Use the Time screen to set the start and end times for weekends and holidays.

NOTE: This tab only appears if **Include Weekend** or **Include Holiday** is selected on the **Mode** screen (see *Custom Schedule Setup* on page 135).

Weekend Days

Choose **Weekend Days** to use the weekend schedule on Saturdays, Sundays or both. The default is **Saturday and Sunday**. To use the weekday schedule on Saturdays and Sundays, deselect the **Include Weekend** option on the Mode screen (see *Custom Schedule Setup* on page 135).

Saturday and Sunday — Select this option to use the weekend schedule on Saturdays and Sundays. The unit changes the Weekend Start/End Times options to **Include part of Friday** and **Include part of Monday**.

Saturday Only — Select this option to use the weekend schedule only on Saturdays. The unit will use the weekday schedule on Sundays. The unit changes the Weekend Start/ End Times options to **Include part of Friday** and **Include part of Sunday**.

Sunday Only — Select this option to use the weekend schedule only on Sundays. The unit will use the weekday schedule on Saturdays. The unit changes the Weekend Start/ End Times options to **Include part of Saturday** and **Include part of Monday**.

Weekend Start/End Times

Choose **Weekend Start/End Times** to start weekend processing at a specific time on the day before the weekend, for example, at 6:00 p.m. on Friday night. Likewise, stop weekend processing at a specific time on the day after the weekend, for example, at 6:00 a.m. on Monday morning.

By default, weekends include part of the day before and part of the day after. If the day before is not included, weekend processing starts at midnight. Likewise, if the day after is not included, weekend processing stops at midnight.

To use the weekday schedule on weekends, deselect the **Include Weekend** option on the Mode screen (see *Custom Schedule Setup* on page 135).

To select the start time:

Include part of Friday (or Saturday) — Select this option to start weekend processing at a specific time on the day before the weekend.

Start at ... — Set the time to start weekend processing on the day before the weekend. The default is **18:00** (6:00 p.m.).

Click the hours display. Click the up arrow or the down arrow to display the desired hour (24-hour format).

Click the minutes display. Click the up arrow or the down arrow to display the desired minutes (30-minute increments).

To select the end time:

Include part of Sunday (or Monday) — Select this option to stop weekend processing at a specific time on the day after the weekend.

End at ... — Set the time to stop weekend processing on the day after the weekend. The default is **06:00** (6:00 a.m.).

Click the hours display. Click the up arrow or the down arrow to display the desired hour (24-hour format).

Click the minutes display. Click the up arrow or the down arrow to display the desired minutes (30-minute increments).

Holiday Start/End Times

Choose **Holiday Start/End Times** to start holiday processing at a specific time on the day before the holiday, for example, at 6:00 p.m. on the night before. Likewise, stop holiday processing at a specific time on the day after the holiday, for example, at 6:00 a.m. on the morning after.

By default, holidays include part of the day before and part of the day after. If the day before is not included, holiday processing starts at midnight. Likewise, if the day after is not included, holiday processing stops at midnight.

To select the start time:

Include part of day before — Select this option to start holiday processing at a specific time on the day before the holiday.

Start at ... — Set the time to start holiday processing on the day before the holiday. The default is **18:00** (6:00 p.m.).

Click the hours display. Click the up arrow or the down arrow to display the desired hour (24-hour format).

Click the minutes display. Click the up arrow or the down arrow to display the desired minutes (30-minute increments).

To select the end time:

Include part of day after — Select this option to stop holiday processing at a specific time on the day after the holiday.

End at ... — Set the time to stop holiday processing on the day after the holiday. The default is **06:00** (6:00 a.m.).

Click the hours display. Click the up arrow or the down arrow to display the desired hour (24-hour format).

Click the minutes display. Click the up arrow or the down arrow to display the desired minutes (30-minute increments).

Click **OK** to accept the weekend and holiday settings, as well as any changes on the other Custom Schedule Setup screens, and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

Select **Mode, Weekday**, **Weekend**, **Holiday**, **Set Holidays** or **Data Lifetime** to continue Custom Schedule setup:

Weekday/Weekend/Holiday Setup

Use the Weekday, Weekend and Holiday screens to configure the operating schedule for each camera. All three screens operate the same way.

NOTE: The **Weekend** tab only appears if **Include Weekend** is selected on the **Mode** screen (see *Custom Schedule Setup* on page 135).

NOTE: The **Holiday** tab only appears if **Include Holiday** is selected on the **Mode** screen (see *Custom Schedule Setup* on page 135).

Use the main **Schedule Area** to define and display the active, alarmed and disabled segments for each camera. Hours are listed across the top of the schedule area in 30-minute segments. Camera names are listed down the left side of the schedule area in numerical order (1–16).

Select **Active** to define an active segment. During an active segment, the unit records images from the camera at the configured record rate and quality. A Live Filter can also be configured for the segment. (See *Configuring an Active Segment* on page 148 for more information.)

Select **Alarmed** to define an alarmed segment. During an alarmed segment, the unit only records images from the camera when the Live Filter or alarm input is activated. It records at the configured record rate and quality. It can also store a selected amount of pre-alarm images. (See *Configuring an Alarmed Segment* on page 150 for more information.)

NOTE: Disabled segments cannot be configured.

Select **Disabled** to define a disabled segment. During a disabled segment, the unit does not record or display any images from the camera. It also ignores any alarms. (See *Working with Schedule Segments* on page 143 for information about defining a disabled segment.)

After they are defined, use **Setup** to configure active and alarmed segments. (See *Configuring an Active Segment* on page 148 and *Configuring an Alarmed Segment* on page 150 for more information.)

To configure a segment:

1. Define the segment (see *Defining a New Segment* on page 143 and *Custom Live Filter Setup* on page 140).
2. Use one of the following options:
   - Double-click the segment to configure.
   - Select the segment to configure; then click **Setup**.
   - Select the segment to configure; then access the custom schedule popup menu (see *Custom Schedule Popup Menu* on page 102); then select **Setup**.
3. Each time you access these screens, the unit keeps track of the changes. It remembers up to the last 10 changes on each Custom Schedule Setup screen (Weekday, Weekend and Holiday).
4. Click **Undo** to undo the last change. Continue clicking to undo additional changes. When the button becomes disabled, you cannot undo any more changes.
5. Click **OK** to accept the defined segments, as well as any changes on the other Custom Schedule Setup screens, and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

Select **Mode, Time**, **Set Holidays** or **Data Lifetime** to continue Custom Schedule setup:

Set Holidays

Use the Set Holidays screen to identify the days that will operate using the holiday schedule.

NOTE: This tab only appears if **Include Holiday** is selected on the **Mode** screen (see *Custom Schedule Setup* on page 135).

To add a holiday to the list:

Add to list — Click to add the displayed date to the list of holidays. On that day, the unit will use the holiday schedule.

1. Click the down arrow in the date box to display the calendar. Click the left arrow to select the previous month or the right arrow to select the next month. Click the day of the month to select the day. The calendar closes and the selected date is displayed.
2. Click the **Add to list** button. The unit displays the date in the holiday list.

To remove a date from the holiday list:

Remove from list — Click to remove the highlighted holiday from the list and display it in the date field. On that day, the unit will use the appropriate weekday or weekend schedule and will not use the holiday schedule.

1. Select the date in the holiday list. To view other dates, click the up arrow or the down arrow or drag the elevator button up or down.
2. Click the **Remove from list** button. The unit removes the date from the list of holidays and displays it in the date field.

To conclude Custom Schedule setup, click **OK** to accept the displayed list of holidays, as well as any changes on the other Custom Schedule Setup screens, and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

Select **Mode, Time**, **Weekday**, **Weekend**, **Holiday** or **Data Lifetime** to continue Custom Schedule setup:

Custom Live Filter Setup

Filter setup provides access to several configuration options. To use this menu to set up filter operations for a camera on a custom schedule, you must define a segment for recording (See *Working with Schedule Segments* for details). Click on the segment to configure for the Live Filter Setup. Click the **Setup** button or right-click and use the Setup function on the Custom Schedule Popup Menu.

After you select a Live Filter, use the appropriate filter configuration screen to configure it. See *Live Filter Setup* on page 152 for a description of how to configure each Live Filter.

Custom Data Lifetime Setup

The Data Lifetime feature allows users to delete data on a user-defined basis (from 1 to 199 days old), either system-wide or camera by camera. Data Lifetime lets you manage all data on the unit's hard drive(s), either standard internal drives or external drives as in a RAID system, but not any data previously archived or exported to removable media or to a Network Client host.

See *Data Lifetime Setup* on page 167 for more information.

Single Camera Setup

Use the Single Camera Setup screens to record images from a single camera at a specific quality.

Select the **Use Single Camera Schedule** option. The unit displays the **Single Camera** tab and removes all other tabs.

Then select one of the following:

Single Camera — Click to display the Single Camera screen (see *Single Camera Setup Screen* on page 141).

OK — Click to accept the new schedule mode, as well as any changes on the other Single Camera Setup screen, and return to the Setup screen.

Cancel — Click to cancel the changes and return to the Setup screen.

Help — Click to display online help for this screen.

Single Camera Setup Screen

Use the Single Camera screen to select the camera-and quality for single camera operation.

Configure the following information:

Camera — Select the camera to record during single camera operation. The first camera is selected by default.

To select the camera:

1. Click the down arrow. A list of cameras appears.
2. Click the desired camera.

Select **Quality** to choose the record quality to use when recording this camera. The default setting is **Normal**.

Super — Record images at the highest image quality. Since the unit uses the lowest level of compression, this setting requires the highest amount of storage space.

Normal — Record images at normal image quality. This setting provides a balance between compression and storage space requirements.

Extended Record — Record images at the highest level of compression. This setting requires the lowest amount of storage space.

The **Sensitivity** setting lets you control how Intellex responds to small, subtle changes between images. Select the sensitivity to use when recording this camera. The default is **Normal**.

High — At this setting, Intellex records the smaller changes between images, improving the perceived picture quality. As a result, this setting requires more storage space.

Normal — At this setting, Intellex ignores the smaller, more subtle changes between images.

Select one of the following to continue Single Camera setup:

Mode — Click to display the Mode screen (see *Single Camera Setup* on page 140).

OK — Click to accept the displayed single camera settings, as well as any changes on the other Single Camera Setup screen, and return to the Setup screen.

Cancel — Click to cancel the changes and return to the Setup screen.

Help — Click to display online help for this screen.

Single Camera Data Lifetime

The Data Lifetime feature allows users to delete data on a user-defined basis (from 1 to 199 days old), either system-wide or camera by camera. Data Lifetime lets you manage all data on the unit's hard drive(s), either standard internal drives or external drives as in a RAID system, but not any data previously archived or exported to removable media or to a Network Client host.

See *Data Lifetime Setup* on page 167 for more information.

WORKING WITH SCHEDULE SEGMENTS

Schedule segments define how the unit processes images from any camera at any time. The unit can record at all times or only during alarms or filter events. Recording can even be disabled during certain hours.

Working with Schedule Segments

Schedule segments define how the unit processes images from any camera at any time. The unit can record at all times or only during alarms or filter events. Recording can even be disabled during certain hours.

This explains how the mouse pointer changes according to the function you are performing and where the mouse pointer is on the screen.

	The cursor pointer changes to this when copying a camera segment.
	The cursor pointer changes to this while you are defining a new segment.
	The cursor pointer changes to this when moved over the start or end time.
	The cursor pointer changes to this if it is dragged to an area of the screen without a camera name.

Defining a New Segment

To define a segment:

1. Select the appropriate screen: **Weekday**, **Weekend** or **Holiday**.
2. Select the segment type: **Active**, **Alarmed** or **Disabled**.
3. Move the mouse pointer to the schedule line for the camera. An indicator appears next to the camera name to help keep track of the pointer's position.
4. Move the mouse pointer to the segment start time. An indicator appears next to the matching 30-minute mark to help keep track of the pointer's position.
5. Click and hold the mouse button. The mouse pointer changes to a segment marker.
6. Drag the mouse pointer to the right or left. A box displays the segment's new start and end times (24-hour format).
7. When the desired times appear, release the mouse button.

8. To change either the start or end time, click and hold the time mark. Then drag it until the desired start and end times appear in the box. (See *Changing a Segment* on page 144 for more information.)
9. After defining an active or alarmed segment, configure its Live Filter and other settings (see *Configuring an Active Segment* on page 148 and *Configuring an Alarmed Segment* on page 150).

Changing a Segment

To change a segment's start time and/or end time:

NOTE: To change a start time of 00:00 or an end time of 24:00, define a new segment which starts at 00:00 or ends at 24:00, respectively (see *Defining a New Segment* on page 143).

1. Select the appropriate screen: **Weekday**, **Weekend** or **Holiday**.
2. Move the mouse pointer over the start or end time for the segment to change. The mouse pointer changes to a segment marker.
3. Click and hold the mouse button.
4. Drag the mouse pointer to the right or left. A box displays the segment's new start and end times (24-hour format).
5. When the desired times appear, release the mouse button.
6. When changing the times of adjacent segments, the unit chooses the segment that you are enlarging. Then it displays the times for that segment.
7. For example, when enlarging an alarmed segment (00:00 to 07:00) that is next to an active segment (07:00 to 18:00), click on the boundary between the segments (07:00) and drag right. The unit displays the alarmed segment's new times, as long as the boundary stays to the right of 07:00. If the boundary is dragged left past 07:00, the unit chooses the active segment and displays the new times for the active segment.
8. After changing an active or alarmed segment, configure its Live Filter and other settings (see *Configuring an Active Segment* on page 148 and *Configuring an Alarmed Segment* on page 150).

Deleting a Segment

To delete a segment:

1. Select the appropriate screen: **Weekday**, **Weekend** or **Holiday**.
2. Use one of the following methods to delete a segment:
   - Create a new segment over the segment to delete.
   - Change the start time of the segment to match its end time.

- Change the start time of the next segment to the start time of the segment to delete.
- Change the end time of the previous segment to the end time of the segment to delete.
- Use the custom schedule popup menu to delete the segment (see *Custom Schedule Popup Menu* on page 102).

Copying a Camera Schedule

To copy a schedule from one camera to another:

1. Select the appropriate screen: **Weekday**, **Weekend** or **Holiday**.
2. Move the mouse pointer to the name of the camera to copy.
3. Click and hold the mouse button. The mouse pointer changes to a segment marker.
4. Drag the mouse pointer to the camera to change. The new segments appear on the camera line.

NOTE: The pointer changes to a null sign if it is dragged to an area of the screen without a camera name.

Setup — Use this option to configure an active or alarmed segment. This option operates the same as pressing the **Setup** button on the Weekday, Weekend or Holiday screens.

To configure an active or alarmed segment:

1. Select the segment to configure.
2. Click the right mouse button to display the custom schedule popup menu.
3. Select **Setup**. The Active Segment screen appears for an active segment (see *Configuring an Active Segment* on page 148). The Alarmed Segment screen appears for an alarmed segment (see *Configuring an Active Segment* on page 148).

Copy — Use this option to copy one or more schedule segments into the unit's memory. Then, use a paste option to add the segment and/or filter information to another segment or camera.

NOTE: The unit can only save information from one copy operation at a time.

To copy a single segment:

1. Select the segment to copy.
2. Select **Copy**. The unit copies the segment's information into memory.

To copy all the segments for a camera:

1. Move the mouse pointer over the name of the camera to copy.
2. Select **Copy**. The unit copies the information for each segment on the line into memory.

Paste Segment(s) — Use this option to copy one or more segments from one camera to another.

NOTE: This option is disabled until one or more segments have been copied into memory.

NOTE: This option only adds segment time information to another camera.

To copy a single segment:

1. Select the segment to copy.
2. Select **Copy**. The unit copies the segment's information into memory.
3. To add this segment to a camera on another screen, select the screen (**Weekday**, **Weekend** or **Holiday**).
4. Move the mouse pointer to the camera where you want to add the segment.
5. Select **Paste Segment(s)**. The segment's time information is added to the new camera.

To copy all segments from one camera to another:

1. Move the mouse pointer over the name of the camera to copy.
2. Select **Copy**. The unit copies the information for each segment on the line into memory.
3. To add this segment to a camera on another screen, select the screen (**Weekday**, **Weekend** or **Holiday**).
4. Move the mouse pointer to the camera where you want to add the segment.
5. Select **Paste Segment(s)**. The time information for all the segments is added to the new camera.

Paste Filter — Use this option to copy a filter configuration from one segment of a camera to another segment of the same camera on another screen.

NOTE: This option is disabled until a segment with a configured filter has been copied into memory.

NOTE: This option only copies filter information to other segments for the same camera.

To copy a filter:

1. Select the segment to copy.
2. Select **Copy**. The unit copies the segment's information into memory.

3. Select the segment to add the filter you copied. (Select any active or alarmed segment for the same camera on any screen.)
4. Select **Paste Filter**. The filter and its configuration information are added to the new segment.

Paste Filter to All Segments — Use this option to copy a filter configuration from one segment of a camera to each segment of the same camera on another screen.

NOTE: This option is disabled until a segment with a configured filter has been copied into memory.

To copy a filter to all segments:

1. Select the segment to copy.
2. Select **Copy**. The unit copies the segment's information into memory.
3. Move the mouse pointer to the segment's camera name. (Select the same camera on any screen.)
4. Select **Paste Filter to All Segments**. The filter and its configuration information are added to every active and alarmed segment on the line.

Paste Segment(s) and Filter(s) — Use this option to copy the segments and filters from one camera line to that camera's line on another screen.

NOTE: This option is disabled until a segment with a configured filter has been copied into memory.

To copy a camera's segments and filters:

1. Move the mouse pointer over the name of the camera to copy.
2. Select **Copy**. The unit copies the information for each segment on the line into memory.
3. Move the mouse pointer to the same camera name on another screen.
4. Select **Paste Segment(s) and Filter(s)**. The segments and their filters are added to the camera's line.

Delete Segment(s) — Use this option to delete one or more schedule segments from a camera's line.

NOTE: This option is only available for segments without filters.

To delete a single segment:

1. Select the segment to delete.
2. Select **Delete Segment(s)**. If the deleted segment began at midnight (00:00), the start time of the next later segment changes to midnight (00:00). Otherwise, the next earlier segment replaces the deleted segment.

To delete all the segments for a camera:

1. Move the mouse pointer over the name of the camera with segments and filters to delete.
2. Select **Delete Segment(s)**. The unit deletes all segments and filters on the line.

Delete Filter(s) — Use this option to delete only filter configurations from one or more segments on a camera's line. This option does not delete any segment time information.

To delete a single filter:

1. Select the segment with a filter to delete.
2. Select **Delete Filter(s)**. The unit deletes the filter.

To delete all the filters from the segments for a camera:

1. Move the mouse pointer over the name of the camera with filters to delete.
2. Select **Delete Filter(s)**. The unit deletes the filter configurations for all segments on the line.

Delete Segment(s) and Filter(s) — Use this option to delete one or more schedule segments and their filter configurations (if any) from a camera's line.

To delete a single segment:

1. Select the segment to delete.
2. Select **Delete Segment(s) and Filter(s)**. If the deleted segment began at midnight (00:00), the start time of the next later segment changes to midnight (00:00). Otherwise, the next earlier segment replaces the deleted segment.

To delete all the segments for a camera:

1. Move the mouse pointer over the name of the camera with segments and filters to delete.
2. Select **Delete Segment(s) and Filter(s)**. The unit deletes all segments and filters on the line.

Configuring an Active Segment

Use the Active Segment screen to configure both the record quality and the Live Filter for the segment.

To configure an active segment:

1. Define the segment (see *Defining a New Segment* on page 143).
2. Use one of the following options to display the Active Segment screen:
   - Double-click the segment to configure.

- Select the segment to configure; then select **Setup**.

Active segment: (camera name) from hh:mm to hh:mm. — Indicates the camera name and the segment's start and end times.

Configure the following information:

Quality — Select the record quality to use during this segment. The default is **Normal**.

Super — Record images at the highest image quality. Since the unit uses the lowest level of compression, this setting requires the highest amount of storage space.

Normal — Record images at normal image quality. This setting provides a balance between compression and storage space requirements.

Extended Record — Record images at the highest level of compression. This setting requires the lowest amount of storage space.

Sensitivity — This setting lets you control how Intellex responds to small, subtle changes between images. Select the sensitivity to use during this segment. The default is **Normal**.

High — At this setting, Intellex records the smaller changes between images, improving the perceived picture quality. As a result, this setting requires more storage space.

Normal — At this setting, Intellex ignores the smaller, more subtle changes between images.

Resolution — This feature allows control of the image size that is recorded, stored and displayed.

640x240 — At this setting, more detailed (larger) images are recorded, stored and displayed.

320x240 — At this setting, less detailed (smaller) images are recorded, stored and displayed.

Live Filter — Use this option to select the Live Filter to use during this segment. When the Live Filter is activated, the unit switches to alarm mode. The default is **None**.

NOTE: Before you can configure a Live Filter, you must record at least one image from the camera. Until an image is recorded, the filter options are disabled.

To select the Live Filter:

1. Click the down arrow. A list of filters appears.
2. Click the desired filter. Select **None** to disable any previously configured filters.
3. Click **Setup** to configure the filter (see *Live Filter Setup* on page 152).

Setup — Select a filter for this segment; then click **Setup** to configure it.

Click **OK** to accept the configuration for this segment as shown and return to the Weekday, Weekend or Holiday screen. Click **Cancel** to cancel the changes and return to the Weekday, Weekend or Holiday screen. Click **Help** to display online help for this screen.

Configuring an Alarmed Segment

Use the Alarmed Segment screen to configure the pre-alarm record quality and duration for the segment as well as the Live Filter.

To configure an alarmed segment:

1. Define the segment (see *Defining a New Segment* on page 143).
2. Use one of the following options to display the Alarmed Segment screen:
   - Double-click the segment to configure.
   - Select the segment to configure; then click **Setup**.

Alarmed segment: (camera name) from hh:mm to hh:mm. — Indicates the camera name and the segment's start and end times.
Configure the following information:

Pre-Alarm Quality — Select the record quality for the pre-alarm images recorded during this segment. The default is **Normal**.

NOTE: This quality setting only affects pre-alarm images. To set the record quality of alarm images, refer to *General Alarm Setup* on page 158 later in this chapter.

Super — Record images at the highest image quality. Since the unit uses the lowest level of compression, this setting requires the highest amount of storage space.

Normal — Record images at normal image quality. This setting provides a balance between compression and storage space requirements.

Extended Record — Record images at the highest level of compression. This setting requires the lowest amount of storage space.

Pre-Alarm Sensitivity — This setting lets you control how Intellex responds to small, subtle changes between images. Select the sensitivity to use when storing pre-alarm images. The default is **Normal**.

High — At this setting, Intellex records the smaller changes between images, improving the perceived picture quality. As a result, this setting requires more storage space.

Normal — At this setting, Intellex ignores the smaller, more subtle changes between images.

Resolution — This feature allows control of the image size that is recorded, stored and displayed.

640x240 — At this setting, more detailed (larger) images are recorded, stored and displayed.

320x240 — At this setting, less detailed (smaller) images are recorded, stored and displayed.

Live Filter — Use this option to select the Live Filter to use during this segment. When the Live Filter is activated, the unit switches to alarm mode. The default is **None**.

NOTE: Before you can configure a Live Filter, you must record at least one image from the camera. Until an image is recorded, the filter options are disabled.

To select the Live Filter:

1. Click the down arrow. A list of filters appears.
2. Click the desired filter. Select **None** to disable any previously configured filters.
3. Click **Setup** to configure the filter (see *Live Filter Setup* on page 152).

Pre-Alarm Duration — The unit continuously saves pre-alarm images for each camera, up to the pre-alarm duration. When an event occurs, the unit records these images to the image database. The default is **15 Seconds**.

To select the pre-alarm duration:

1. Click the down arrow. A list of options appears.
2. Click the desired pre-alarm duration.

Setup — Select a filter for this segment; then click **Setup** to configure it.

Click **OK** to accept the configuration for this segment as shown and return to the Weekday, Weekend or Holiday screen. Click **Cancel** to cancel the changes and return to the Weekday, Weekend or Holiday screen. Click **Help** to display online help for this screen.

LIVE FILTER SETUP

Live Filters are used to define target areas of interest to the user. Intellex uses these filter definitions to generate alarms and inform the Smart Search functions.

Light Change

Use the Light Change screen to configure the target area for the light change filter. Once configured, the filter is triggered whenever the light level changes. The light level can change when someone turns lights on or off, uses a flashlight or blocks the camera lens.

After you select the **Light Change** filter and click the **Setup** button, the Light Change screen appears.

Light Change: (camera name) — Indicates the camera name.

Image Area — This area of the screen displays a camera image and provides a reference when configuring the filter.

Active Zone — The active zone is the area in which the filter's targets are activated. It can be nearly any shape or size.

Restore — Click to restore the active zone to its dimensions when you first accessed this screen.

Clear — Click to erase all of the targets in the active zone.

Sensitivity — The unit uses this setting to distinguish between valid and invalid changes in the target area. At higher settings, small changes trigger the filter. At lower settings, larger changes are required to trigger the filter.

> **1...100 —** Use this slide control to set the sensitivity for the filter from minimum (**1**) to maximum (**100**). The sensitivity number represents the area of changing video relative to the active zone area. Minimum sensitivity (1) requires that a larger fraction of the active zone change before the alarm is generated.
>
> **Default —** Click to reset the sensitivity to its default middle position (**50**).

NOTE: When setting the filter sensitivity level, be sure to consider the variations in lighting conditions, such as exterior cameras recording from day to night or interior cameras recording areas with lighting turned on or off. To ensure that useful video is recorded or filtered, nominal lighting in the area is required. You should adjust the filter sensitivity for the lowest lighting condition that applies (e.g., low sensitivity for low lighting), and then test the filter to ensure its proper activation. More lighting in the area will allow higher sensitivity settings to be safely used.

Apply — Click to apply the configuration for this filter as shown and close the Light Change screen.

Cancel — Click to close the Light Change screen without saving any changes.

Help — Click to display online help for this screen.

To define the target area:

NOTE: You can only configure one light change target area at a time.

1. Set the **Sensitivity**: **1** to **100**.
2. Move the mouse pointer to the image area. The mouse pointer changes to a cross-hair mark.
3. Draw the boundaries of the target area.

NOTE: The target area must be enclosed to activate the filter.

a. Move the mouse pointer to the first corner of the target area and click the mouse button.

NOTE: To erase the last endpoint, double-click the right mouse button.

b. Move the mouse pointer to the next corner of the target area. The unit draws a line as the pointer moves.

NOTE: The mouse pointer changes to a null symbol if you move it to an invalid location.

c. Click the mouse button to lock this boundary and start a new one.
d. Repeat these steps until you are ready to enclose the target area.
e. Use one of the following methods to enclose the target area:
   - Set at least three endpoints. Then hold the mouse pointer over the last endpoint and double-click the button. The boundary lines disappear and the target area is defined by a semitransparent grid.
   - Move the mouse pointer to the starting point and click the mouse button. The boundary lines disappear and the target area is defined by a semitransparent grid.

4. Click **Apply** to apply the configuration and close the Light Change screen.
5. Click **Cancel** to close the Light Change screen without saving any changes.

Motion Detection

Use the Motion Detection screen to configure the target area for the motion detection filter. Once configured, the filter is triggered whenever movement occurs in the target area.

After you select the **Motion Detection** filter and click the **Setup** button, the Motion Detection screen appears.

Motion Detection: (camera name) — Indicates the camera name.

Image Area — This area of the screen displays a camera image and provides a reference when configuring the filter.

Active Zone — Use the following options to configure the target area. This area can be nearly any shape or size.

Activate — Use this option to activate a specific target area.

Deactivate — Use this option to deactivate a previously activated target area.

Restore — Click to restore the target area to its dimensions before any changes.

Clear — Click to erase all of the targets in the active zone.

All — Click to activate all of the targets in the image area.

Undo — The unit stores each target area change in memory. Click to remove the last change to the target area.

Sensitivity — The unit uses this setting to distinguish between valid and invalid changes in the target area. At higher settings, small changes trigger the filter. At lower settings, larger changes are required to trigger the filter.

> **1...100 —** Use this slide control to set the sensitivity for the filter from minimum (**1**) to maximum (**100**). The sensitivity number represents the area of changing video relative to the active zone area. Minimum sensitivity (1) requires that a larger fraction of the active zone change before the alarm is generated.
>
> **Default —** Click to reset the sensitivity to its default middle position (**50**).

NOTE: When setting the filter sensitivity level, be sure to consider the variations in lighting conditions, such as exterior cameras recording from day to night or interior cameras recording areas with lighting turned on or off. To ensure that useful video is recorded or filtered, nominal lighting in the area is required. You should adjust the filter sensitivity for the lowest lighting condition that applies (e.g., low sensitivity for low lighting), and then test the filter to ensure its proper activation. More lighting in the area will allow higher sensitivity settings to be safely used.

Apply — Click to apply the configuration for this filter as shown and close the Motion Detection screen.

Cancel — Click to close the Motion Detection screen without saving any changes.

Help — Click to display online help for this screen.

To define the target area(s):

NOTE: You can configure one or more motion detection target areas at a time.

1. Set the **Sensitivity**: **1** to **100**.
2. Move the mouse pointer to the image area. The mouse pointer changes to a cross-hair mark.
3. Draw the boundaries of the target area.

NOTE: The target area must be enclosed to activate the filter.

   a. Move the mouse pointer to the first corner of the target area and click the mouse button.

NOTE: To erase the last endpoint, double-click the right mouse button.

   b. Move the mouse pointer to the next corner of the target area. The unit draws a line as the pointer moves.

NOTE: The mouse pointer changes to a null symbol if you move it to an invalid location.

   c. Click the mouse button to lock this boundary and start a new one.
   d. Repeat these steps until you are ready to enclose the target area.
   e. Use one of the following methods to enclose the target area:
      - Set at least three endpoints. Then hold the mouse pointer over the last endpoint and double-click the button. The boundary lines disappear and the target area is defined by a semitransparent grid.
      - Move the mouse pointer to the starting point and click the mouse button. The boundary lines disappear and the target area is defined by a semitransparent grid.

4. To draw an additional target area, repeat steps 1 through 3.

5. To deactivate some of the targets, select **Deactivate**. Then draw a deactivation target area, using steps 1 through 3.
6. Click **Apply** to apply the configuration and close the Motion Detection screen.
7. Click **Cancel** to close the Motion Detection screen without saving any changes.

Perimeter Protection

Use the Perimeter Protection screen to configure the target area for the perimeter protection filter. Once configured, the filter is triggered whenever an object crosses into or out of the target area.

After you select the **Perimeter Protection** filter and click the **Setup** button, the Perimeter Protection screen appears.

Perimeter Protection: (camera name) — Indicates the camera name.

Image Area — This area of the screen displays a camera image and provides a reference when configuring the filter.

Active Perimeter — Use the following options when configuring the target area. This area can be nearly any shape or size.

Restore — Click this button to restore the active perimeter to its dimensions when you first accessed this screen.

Clear — Click to erase all of the targets in the active perimeter.

Sensitivity — The unit uses this setting to distinguish between valid and invalid changes in the target area. At higher settings, small changes trigger the filter. At lower settings, larger changes are required to trigger the filter.

1...100 — Use this slide control to set the sensitivity for the filter from minimum (**1**) to maximum (**100**). The sensitivity number represents the area of changing video relative to the active zone area. Minimum sensitivity (1) requires that a larger fraction of the active zone change before the alarm is generated.

Default — Click to reset the sensitivity to its default middle position (**50**).

NOTE: When setting the filter sensitivity level, be sure to consider the variations in lighting conditions, such as exterior cameras recording from day to night or interior cameras recording areas with lighting turned on or off. To ensure that useful video is recorded or filtered, nominal lighting in the area is required. You should adjust the filter sensitivity for the lowest lighting condition that applies (e.g., low sensitivity for low lighting), and then test the filter to ensure its proper activation. More lighting in the area will allow higher sensitivity settings to be safely used.

Apply — Click to apply the configuration for this filter as shown and close the Perimeter Protection screen.

Cancel — Click to close the Perimeter Protection screen without saving any changes.

Help — Click to display online help for this screen.

To define the target area:

NOTE: You can only configure one perimeter protection target area at a time.

1. Set the **Sensitivity**: **1** to **100**.
2. Move the mouse pointer to the image area. The mouse pointer changes to a cross-hair mark.
3. Draw the boundaries of the target area.

NOTE: The target area must be enclosed to activate the filter.

   a. Move the mouse pointer to the first corner of the target area and click the mouse button.

NOTE: To erase the last endpoint, double-click the right mouse button.

   b. Move the mouse pointer to the next corner of the target area. The unit draws a line as the pointer moves.

NOTE: The mouse pointer changes to a null symbol if you move it to an invalid location.

   c. Click the mouse button to lock this boundary and start a new one.
   d. Repeat these steps until you are ready to enclose the target area.
   e. Use one of the following methods to enclose the target area:
      - Set at least three endpoints. Then hold the mouse pointer over the last endpoint and double-click the button. The boundary lines disappear and the target area is defined by a semitransparent grid.
      - Move the mouse pointer to the starting point and click the mouse button. The boundary lines disappear and the target area is defined by a semitransparent grid.

4. Click **Apply** to apply the configuration and close the Perimeter Protection screen.
5. Click **Cancel** to close the Perimeter Protection screen without saving any changes.

ALARM SETUP

The Alarm Setup screens let you configure alarm operation for the unit.

NOTE: Alarm setup is a protected feature. You must possess the **Setup Alarms** privilege to access it (see *Security Setup* on page 122).

To access the Alarm Setup screens:

1. Select an Instrument from the Instrument View. Click the **Setup** button on the toolbar. The Intellex Setup for Unit screen appears (see *Unit Setup Options* on page 114).
2. Click the **Alarm** button. The Intellex Alarm Setup screen appears. Use the Intellex Alarm Setup screen to configure how the unit responds to an alarm.

General Alarm Setup

Use **Duration** to set the minimum alarm time (in minutes and seconds) from five seconds (**00:05**) to five minutes (**05:00**). The unit maintains the active alarm for the set time and then clears it automatically. The default is five seconds (**00:05**).

To set the alarm duration:

1. Click the minutes display. Click the up arrow or the down arrow to display the desired number of minutes.
2. Click the seconds display. Click the up arrow or the down arrow to display the desired number of seconds.

Use **Alarm on Video Loss** to generate an alarm event any time the unit stops receiving a video signal from any camera. The unit also displays the message Video Loss over a color bar pattern. This option is selected by default. If not selected, the unit does not respond to loss of camera video.

Use **Alarm Message Display** to display the message ALARM on the associated camera's image whenever an alarm occurs. This option is selected by default. Otherwise, the alarm message will not be displayed.

Use **Latch Messages** to require the operator to manually clear every alarm using the **Clear Latched** button on the Utility Options screen of the Intellex unit. Otherwise, alarm messages remain on the screen until the event is cleared.

Use **Unit Alarm Out** to energize alarm output 16 whenever any alarm event occurs. Otherwise, the unit only energizes alarm output 16 whenever an alarm event occurs on camera 16.

Use **Message Alert** to energize alarm output 16 when:

- The unit is in linear mode and a notification screen appears; or
- The unit is background archiving and a notification screen appears.

NOTE: The **Alarms** indicator on the front panel of the Intellex unit flashes in either situation and cannot be disabled.

Select the record **Quality** to use when an alarm occurs. The default setting is **Normal**.

Super — Record images at the highest image quality. Since the unit uses the lowest level of compression, this setting requires the highest amount of storage space.

Normal — Record images at normal image quality. This setting provides a balance between compression and storage space requirements.

Extended Record — Record images at the highest level of compression. This setting requires the lowest amount of storage space.

Set **Sensitivity** to control how Intellex responds to small, subtle changes between images. Select the sensitivity to use during an alarm event. The default is **Normal**.

High — At this setting, Intellex records the smaller changes between images, improving the perceived picture quality. As a result, this setting requires more storage space.

Normal — At this setting, Intellex ignores the smaller, more subtle changes between images.

Resolution — At 640x240, more detailed (larger) images are recorded, decreasing the recording capacity. At 320x240, less detailed (smaller) images are recorded, increasing the recording capacity.

Click **OK** to accept the displayed alarm setup options, as well as any changes on the other Alarm Setup screens, and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

Alarm In Names Setup

Use the Alarm In Names screen to define the name of each alarm input. These names are used when reviewing alarm images and when searching the image database.

Enter the following information:

1–16 — Use the mouse pointer to highlight one of the current alarm input names. Then use the virtual keyboard or the physical keyboard (if attached) to enter the new name, up to 10 characters. The default names are **AlarmIn1** through **AlarmIn16**.

Click **OK** to accept the displayed alarm setup options, as well as any changes on the other Alarm Setup screens, and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

Alarm In Polarity Setup

Use the Alarm In Polarity screen to set the polarity for each of the alarm inputs.

Configure the following information:

Alarm Input — The names of each alarm input are listed in the Alarm In Polarity screen. These names are configured in the **Alarms In Names** screen.

Polarity — Select the desired polarity for this alarm input: **Active-Low** or **Active-High**. That is, select the signal that triggers an alarm. The default setting is **Active-Low**.

To select the alarm input polarity:

1. Click the down arrow for the alarm input. The two polarity options appear.
2. Click the desired alarm input polarity.

Click **OK** to accept the displayed alarm setup options, as well as any changes on the other Alarm Setup screens, and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

ARCHIVE SCHEDULE SETUP

NOTE: The total disk storage capacity of the Intellex exceeds the capacity of a tape cartridge. If archiving of image data is desired, start the archiving process BEFORE the database becomes full to prevent possible loss of data.

NOTE: Background archiving when recording in circular mode can result in the recorded database "catching up" to the archive. This may result in an abnormal termination of archive or loss of some segments of information. To prevent abnormal termination, start archiving before the database becomes full and replace filled tape cartridges promptly.

The Archive Schedule features allows the user to select data to be archived by specifying criteria of Camera, Day and Time, and Alarm. The Archive Schedule can be configured remotely using the Network Client software accessory.

To access the Archive Schedule Setup screens:

1. From the main screen, click the **Setup** button. The Setup screen appears.
2. Click the **Archive Schedule** button. The Archive Schedule Mode screen (the first Archive Schedule Setup screen) appears.

The Mode screen lets you select the Archive Schedule Mode, that is, whether the unit will archive all data or selected data. The default is **Archive All**.

Archive All — Select this option to archive all data.

Archive Schedule — Select this option to create custom archive schedules that specify time segments by camera and whether to archive all configured cameras' data or alarmed video only.

Archive Schedule Time Setup

After clicking Archive Schedule, select Include Weekend and/or Include Holiday to include those days in the archive schedule you will now create. If you do not select Include Weekend and Include Holiday, then only weekdays will be included in the archive.

Use the Time screen to set the start and end times for weekends and holidays.

NOTE: This tab only appears if **Include Weekend** or **Include Holiday** is selected on the **Mode** screen.

Weekend Days

Choose to use the weekend schedule on Saturdays, Sundays or both. The default is **Saturday and Sunday**.

To use the weekday schedule on Saturdays and Sundays, deselect the **Include Weekend** option on the Archive Schedule Mode screen.

Saturday and Sunday — Select this option to use the weekend schedule on Saturdays and Sundays.

The unit changes the Weekend Start/End Times options to **Include part of Friday** and **Include part of Monday**.

Saturday Only — Select this option to use the weekend schedule only on Saturdays. The unit will use the weekday schedule on Sundays.

The unit changes the Weekend Start/End Times options to **Include part of Friday** and **Include part of Sunday**.

Sunday Only — Select this option to use the weekend schedule only on Sundays. The unit will use the weekday schedule on Saturdays.

The unit changes the Weekend Start/End Times options to **Include part of Saturday** and **Include part of Monday**.

Weekend Start/End Times

Start weekend archiving at a specific time on the day before the weekend, for example, at 6:00 p.m. on Friday night. Likewise, stop weekend archiving at a specific time on the day after the weekend, for example, at 6:00 a.m. on Monday morning.

By default, weekends include part of the day before and part of the day after. If the day before is not included, weekend archiving starts at midnight. Likewise, if the day after is not included, weekend archiving stops at midnight.

To use the weekday schedule on weekends, deselect the **Include Weekend** option on the Mode screen (see *Archive Schedule Setup* on page 161).

Include part of Friday (or Saturday) — Select this option to start weekend archiving at a specific time on the day before the weekend.

Start at .... — Set the time to start weekend archiving on the day before the weekend. The default is **18:00** (6:00 p.m.).

To select the start time:

1. Click the hours display. Click the up arrow or the down arrow to display the desired hour (24-hour format).
2. Click the minutes display. Click the up arrow or the down arrow to display the desired minutes (30-minute increments).

Include part of Sunday (or Monday) — Select this option to stop weekend archiving at a specific time on the day after the weekend.

End at .... — Set the time to stop weekend archiving on the day after the weekend. The default is **06:00** (6:00 a.m.).

To select the end time:

1. Click the hours display. Click the up arrow or the down arrow to display the desired hour (24-hour format).
2. Click the minutes display. Click the up arrow or the down arrow to display the desired minutes (30-minute increments).

Holiday Start/End Times

Start holiday archiving at a specific time on the day before the holiday, for example, at 6:00 p.m. on the night before. Likewise, stop holiday archiving at a specific time on the day after the holiday, for example, at 6:00 a.m. on the morning after.

By default, holidays include part of the day before and part of the day after. If the day before is not included, holiday archiving starts at midnight. Likewise, if the day after is not included, holiday archiving stops at midnight.

To use the weekday or weekend schedule on holidays, deselect the **Include Holiday** option on the Mode screen (see *Archive Schedule Setup* on page 161).

Include part of day before — Select this option to start holiday archiving at a specific time on the day before the holiday.

Start at ... — Set the time to start holiday archiving on the day before the holiday. The default is **18:00** (6:00 p.m.).

To select the start time:

1. Click the hours display. Click the up arrow or the down arrow to display the desired hour (24-hour format).
2. Click the minutes display. Click the up arrow or the down arrow to display the desired minutes (30-minute increments).

Include part of day after — Select this option to stop holiday archiving at a specific time on the day after the holiday.

End at ... — Set the time to stop holiday archiving on the day after the holiday. The default is **06:00** (6:00 a.m.).

To select the end time:

1. Click the hours display. Click the up arrow or the down arrow to display the desired hour (24-hour format).
2. Click the minutes display. Click the up arrow or the down arrow to display the desired minutes (30-minute increments).

Click **OK** to accept the new archive schedule, as well as any changes on the other Archive Schedule Setup screens, and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

Archive Schedule Weekday/Weekend/ Holiday Setup

Use the Archive Schedule Weekday, Weekend and Holiday screens to configure the archive schedule for each camera. All three screens operate the same way.

NOTE: The **Weekend** tab only appears if **Include Weekend** is selected on the Archive Schedule **Mode** screen (see *Archive Schedule Setup* on page 161).

NOTE: The **Holiday** tab only appears if **Include Holiday** is selected on the Archive Schedule **Mode** screen (see *Archive Schedule Setup* on page 161).

Schedule Area — Use the main schedule area to define segments for each camera. Hours are listed across the top of the schedule area in 30-minute segments. Camera names are listed down the left side of the schedule area in numerical order (**1–16**).

Select one of the following to configure the archive schedule:

Archive All — Select this option to define segments or portions within a segment for archiving. For example, after defining an Archive Alarmed or Disabled segment, click **Archive All** and select time frames within those segments to archive all available video. Archive All segments appear in green on each camera's timetable.

Archive Alarmed — Select this option to define segments for archiving alarmed video. For any Archive Alarmed segment, the unit archives only alarmed video within the specified segment(s) for each camera. Archive Alarmed segments appear in blue on each camera's timetable.

Disabled — Select this option to disable scheduled archiving in the specified segment(s). Click on **Disabled**, then select segment(s) to exclude archiving in that time frame from the scheduled archiving. Disabled segments appear in red on each camera's timetable.

To configure a segment:

1. Define segments using **Archive All** (green), **Archive Alarmed** (blue) and/or **Disabled** (red) for each camera.
2. Within a segment you have defined, you may define subsections using the other type. For example, you can enable archiving for certain time frames within a Disabled segment, or you can activate archiving of all video (Archive All) within an alarmed or disabled segment. Use the following options to define and manipulate segments in order to create any archive schedule settings that you require:
   - Drag either end of a segment to change the segment's length.
   - Right-click on a segment and select **Copy** from the popup of edit options. Then click on another camera, right-click and select **Paste** to paste the copied segment onto that camera's schedule.

- Right-click on a segment and select **Copy All Cameras** from the popup of edit options. Then on another tab, such as Weekend or Holiday, paste the copied schedule for all cameras to the weekend or holiday schedule to duplicate the settings you have configured in the first instance.
- Right-click on a segment and select **Delete** to delete the segment from that camera's schedule.

Undo — Each time you access these screens, the unit keeps track of the changes. It remembers up to the last ten (10) changes on each Archive Schedule screen (Weekday, Weekend and Holiday). You may also select **Undo** from the right-click popup menu of edit options.

To undo changes:

1. Click the **Undo** button to undo the last change.
2. Continue clicking to undo additional changes up to maximum of ten stored changes.
3. When the button becomes disabled, you cannot undo any more changes.

Click **OK** to accept the new archive schedule, as well as any changes on the other Archive Schedule screens, and return to the Setup screen. Click **Cancel** to cancel the changes and return to the Setup screen. Click **Help** to display online help for this screen.

DATA LIFETIME SETUP

Use the Data Lifetime screen to enable or disable deletion of selected video data and to select the cameras on the remote Intellex unit that will use Data Lifetime deletion.

From **Setup**, select **Schedule**, then click on the Data Lifetime tab. To enable Data Lifetime, click on either **Select Cameras** or **All Cameras**.

To specify which cameras will delete data according to your Data Lifetime settings:

1. Choose the **Select Cameras** option. Click on the **Setup** button and then the list of available cameras is displayed.
2. Select a camera and then specify its Data Lifetime data duration in number of days ranging from **1** to **199**. The default setting is **14** days.

To specify the Data Lifetime data duration for all cameras:

1. Select the **All Cameras** option. In the Start Time group box, set the time for data deletion to begin. To change the time setting, select the hour or minutes and click on the up or down arrow to specify the desired start time.
2. When finished configuring Data Lifetime settings, click **OK** to exit from the Schedule Setup screen.

NOTE: It may not be possible to restore a tape while Data Lifetime is cleaning the database. Avoid Restore operations during Data Lifetime processing.

NOTE: Programming the Data Lifetime for individual cameras increases the time required to scan the database and to delete expired images. Use the All Cameras selection whenever possible. This is especially important with multiple disks and/or external disk storage systems.

CAMERA SELECTABLE RATE OPTION

You can assign a higher or lower recording rate to each camera on the Intellex unit. A camera used to record more critical activity, like a point of sale (POS) location, can be configured to record at a higher rate than a camera used to record less critical activity. Alarm rates also affect the per camera record rate, depending on the importance of the activity being recorded.

Important Factors in Setting the Recording Rate

Before you configure the recording rate on a per camera basis, determine how many cameras are connected and how they are configured:

- What is the lowest recording rate per camera that you wish to use?
- What maximum recording rate per camera do you want to use for cameras recording at a lower rate?
- Which cameras must record at a higher recording rate?
- How important is the recorded activity in the alarm state?

The overall recording rate on an Intellex DV16000 unit is 120 ips (NTSC), or 100 ips (PAL). **Auto Rate** mode allows the Intellex unit to set all the cameras' recording rates automatically, distributing the maximum recording rate evenly across all active cameras. In this case, the Normal Rate, Alarm Rate and Single Camera Rate boxes are active with scroll lists on which you can select total system ("aggregate") recording rates. **Auto Rate** is the default setting.

Use the **Camera Selectable Rate** mode to individually set the recording rate for each camera; for example, you may want to assign a higher recording rate to a camera that records more critical activity, like a camera placed at a point of sale (POS) location.

The guaranteed lowest possible recording rate per camera is .93 ips (NTSC) or 0.78 ips (PAL). The highest recording rate for any single camera is 30 ips (NTSC) or 25 ips (PAL), regardless of the total system ("aggregate") recording rate. Various recording rates are assigned depending on the number of enabled cameras and on the aggregate rate.

The selectable recording rates for Intellex are as follows:

NTSC	PAL
.93 ips	0.78 ips
1.87 ips	1.5 ips

Table 1 — Selectable Recording Rates

NTSC	PAL
3.75 ips	3.12 ips
7.5 ips (default rate)	6.25 ips (default rate)
15 ips	12.5 ips
30 ips	25 ips

Table 1 — Selectable Recording Rates

Recording Rate Descriptions

The following terms are used to describe various types of recording rates you will encounter when working with your Intellex. Unless a term specifically mentions capacity, it refers to the recording rate for a specific camera. Capacity refers to recording rates across all functioning cameras in the system.

Maximum System Rate	The maximum recording rate in images per second (ips) for this Intellex unit, also referred to as the aggregate recording rate. On the DV16000 Intellex System, the maximum available system recording rate is 120 ips.
Maximum Rate	The maximum image rate in images per second (ips) for any one camera. This rate is predetermined as 30 ips (NTSC), or 25 ips (PAL).
Minimal Rate	The guaranteed lowest recording rate for any given camera, under any circumstances. This rate is predetermined as .93 ips (NTSC), or .78 ips (PAL)
Configured Minimal Rate	This is the minimum rate you configured for a camera. This is any value between the minimum rate of .93 ips (NTSC)/.78 ips (PAL) and the Configured Normal Rate.
Configured Normal Rate	The desired normal rate for a camera that is not in the alarmed state. This is guaranteed only when there are NO alarmed cameras. If no cameras on the system are alarmed, the normal rate equals the actual rate.

Configured Alarm Rate	The maximum alarm rate that you have configured for a given camera. If no other cameras on the system are alarmed, the configured alarm rate equals the actual rate.
Actual Rate	The rate at which a camera is actually recording. If there are no alarmed cameras, the actual rate is guaranteed to be the configured normal rate of that camera. If the camera is the only alarmed camera, its actual rate is guaranteed to be the configured alarm rate. If there are other cameras in the alarmed state, the rate is not guaranteed.

Auto Rate Mode

Auto Rate Mode allows the Intellex unit to establish camera rates automatically, distributing the rate evenly across the number of cameras in the system. In this case, the **Normal Rate** and **Alarm Rate** pull-down menus are accessible with the selectable aggregate recording rates. Selectable rates are described in *Table 1 — Selectable Recording Rates* on page 168.

NOTE: You must possess the **Setup Schedule** privilege to set or change the recording rate.

1. From the main screen, click the **Setup** button. The Setup Options screen appears.
2. Click the **Rate** button. The Mode tab appears.

The following table describes the components of the Mode tab.

Rate Mode	Use Auto Rate Mode	Allows the Intellex unit to automatically distribute the image per second rate evenly across the active cameras.
	Use Per Camera Rate Mode	Allows you to select the rate of each camera. For more information, see *Camera Selectable Rate Option* on page 168.
Normal Rate	Allows you to set the desired aggregate system rate when there are no alarmed cameras.	
Alarm Rate	Allows you to set the desired aggregate system rate when there are one or more alarmed cameras.	
Single Camera Rate	Allows you to set the single camera record rate when in Single Camera Schedule mode.	

Use Auto Rate Mode

1. Select **Use Auto Rate Mode** from the Mode tab.
2. Set a **Normal Rate** from the pull-down menu.
3. Set an **Alarm Rate** from the pull-down menu.
4. Click **OK** to accept the new rate settings.

Camera Selectable Rate

The **Use Camera Selectable Rate** mode allows you to select the rate of each camera from the Rate tab. When you select **Use Camera Selectable Rate**, the **Normal Rate**, **Alarm Rate**, and **Single Camera Rate** boxes are grayed out and inaccessible. Instead, the Per Camera Rate tab appears. Then on the Per Camera Rate screen, configure the recording rate for each camera for the **Minimal** (Min.), **Normal** (Norm) and **Alarm** (Alrm.) setting that you prefer. Note that available recording rates are shown in either NTSC or PAL numbers, depending on your Intellex setup.

Set Per Camera Rate Mode

1. From the main screen, click the **Setup** button. The Setup Options screen appears.
2. Click the **Rate** button.
3. Select **Use Camera Selectable Rate** from the Mode tab.
4. Click the Per Camera Rate tab.
5. Select the **Minimum**, **Normal**, and **Alarm** recording rate for each active camera by sliding the image rate sliders to the desired rate.
6. Click **OK** to accept the new rate settings.

The following table describes the components of the Per Camera Rate screen:

Aggregate Rate Meter	Indicates, in green, the percentage of the system's maximum image rate that is currently assigned to cameras. The "ips Used" figure is the sum of the Normal Images Rates of all connected cameras.
Undo	Undoes your last change to the Per Camera Rate screen. There are 10 levels of undo.
Default	Resets all cameras to the default setting of **7.5 ips** (NTSC) or **6.25 ips** (PAL).

Camera Name	Displays each camera's name as it is configured in the camera setup.
Ips Rate	The numbers (.93, 1.87,3.75, 7.5, 15, 30 ips NTSC) and (.78, 1.5, 3.12,6.25,12.5,25 ips PAL) at the top of the table indicate the recording rate according to the selectable recording rates in NTSC or PAL. A group of sliders is considered to be under a given rate if they are joined together by a gray bar.
Image Rate Sliders	Set the image-per-second recording rate when you slide them under an appropriate rate. The blue slider on the left adjusts the minimal image rate, the green one in the middle adjusts the normal rate and the red slider to the right adjusts the alarm rate. NOTE: If you attempt to move a slider to a rate that is incorrect, the system won't move it farther than is allowed.
Min.	The guaranteed minimal image rate of a camera under any circumstance.
Norm	The desired normal rate for a camera that is not in the alarmed state. Guaranteed only when there are NO alarmed cameras.
Alarm	The desired image rate for a camera in the alarmed state. This rate is not guaranteed, unless it is the only alarmed camera.

Click **Cancel** to cancel the changes. Click **Help** to display online help for this screen.

When a camera is disconnected, its recording rate capacity is distributed to alarmed cameras so they may reach their configured alarm rates. The configuration for the disconnected camera is saved.

If you attempt to set a Rate while there are disconnected cameras, the disconnected cameras will lose their rate configurations and be assigned 0 ips. Their rate capacity is then available to be assigned to other cameras.

If a disconnected camera is reconnected before you start a Rate session, the camera will keep its rate configuration.

Image Rate Sliders

When two or more sliders are set to the same value for a camera, they are joined by a gray tab along the bottom half of the slider. If you drag the gray tab, the joined sliders will move together.

If you drag the green slider to the right, the two sliders will separate and the gray tab will disappear. If you drag the green slider to the left, both sliders will move together to the left and the gray tab will remain. This is because the Minimal rate must be less than or equal to the Normal rate.

Likewise, if you drag the blue slider to the left, the sliders will separate and the gray tab will disappear. If you drag the blue slider to the right, the sliders will join together and the gray tab will remain. If either the red slider or the joined blue and green sliders are dragged so that all three sliders have the same value, all three sliders will remain joined.

STORAGE SETUP

Use the **Storage Setup** screen to configure databases on volumes that are available on this remote Intellex unit or on attached storage media.

Each database listed is identified by its master Index number, its physical drive Path, its Label, its Status, its physical Size, and amount of space Allocated to the database. Possible Status conditions include:

Active — Currently in use to store Intellex data.

Empty — No files in use on this volume.

Non-Intellex — Volume contains non-Intellex data.

Missing — A previously active volume that cannot be found.

Failed — A previously active volume that has failed.

Corrupt — A previously active volume that is now corrupt.

Other Intellex — This volume contains a compatible database (version 2.4) from a different Intellex.

Size — The total size of the drive.

Allocated — The total amount of the drive that has been allocated for use by the database.

Time Range — Displays the time range for Intellex data that is on the volume. If the volume is empty, or if the volume is currently being recorded to, the start time and/or the end time will be represented by an asterisk.

Add — Adds a volume to the Intellex database. If Intellex finds a compatible volume, you are prompted to add its data to this database or to erase it and add the available space to this unit.

Add All — Adds all the empty drives.

Remove — Removes an active volume from the database; it will then appear as “Other Intellex.”

Label — Applies a user-defined label to the selected volume.

Repair — Repairs a corrupted database, works only on Corrupt or Other Intellex volumes.

Click **Exit** to return to the Setup Options screen. Click **Help** to display online help for this screen.

Add Volume

Use the **Add Volume** screen to add volume information for the selected volume.

In the Label field, specify a label for this volume, using the virtual keyboard or an attached keyboard, and in the Percent of space field, enter the amount of physical drive space to use for this volume. The default is **100%**.

Click **OK** to save the new volume information and return to the Storage Setup screen.

Click **Cancel** to exit this screen without saving any changes.

TEXT STREAM SETUP

Use this screen to set the serial port connection at the remote Intellex unit for receipt of one or more text information streams associated with one or more cameras.

NOTE: Text Stream setup is a protected feature. You must possess the **Setup Text** privilege to access it (see *Security Setup* on page 122).

1. Select an Instrument from the Instrument View. Click the **Setup** button on the toolbar. The Setup screen appears (see *Unit Setup Options* on page 114). Complete **Login** procedures to begin using the Setup functions as your access level permits.
2. Click the **Text Streams** button. The Intellex Text Stream screen appears.

To add a Text Stream:

Click **Add** to add a new text stream to the Text Stream Configuration list. The Intellex Text Stream Setup screen appears. Use the Text Source and Camera Association screens to configure the serial port connection for the new text stream and its associated camera input.

Use the Alarms screen to create Advanced Text search criteria, which you then apply when searching recorded video or filtering live video.

To edit a Text Stream:

From the Intellex Text Stream Setup screen select an existing text stream from the list. Click **Edit** to change the configuration of the selected text stream. The Intellex Text Stream Setup screen appears.

Use the Text Stream and Camera Association tabs to change the configuration of the serial port connection for the named text stream and its associated camera input.

Click **Cancel** to close the dialog with no action taken. Click **Help** for information specific to the commands and entries for this dialog. Click **OK** to confirm the selections and return to the Text Stream Configuration dialog.

To delete a Text Stream:

Select the text stream to be removed and press the **Delete** button.

Click **Close** to end Text Stream Configuration. The deleted text stream is removed from the Text Stream Configuration list.

Text Source

Name — Use Name to define the name of each Text Stream input. These names are used when reviewing selecting text to review and when searching the image database. Enter a name of up to5 characters in the text box.

Com Port — Select the Com Port used for the text stream input. The pull-down list provides a choice of serial ports **Com1** and **Com2**. The default value is **Com1**.

Bits Per Second — Use the Bits Per Second (bps) setting to select the text data transmission rate at the Intellex unit's serial port. Select a speed from **110** bps to **56,000** bps. The default speed is **110** bps.

Data Bits — Use the Data Bits setting to select the word size of the text data transmission stream at 7 or 8 bits. The default size is **7** bits.

Parity — Use the Parity setting to reflect **Even**, **Odd** or **None** for the checksum bits in the text data transmission stream. The default value for this setting is **Even.**

Stop Bits — Use the Stop Bits setting to select the end character signal size for the text data transmission stream at **1**, **1.5** or bits. The default setting for this setting is **1** bit.

Flow Control — Use the Flow Control setting to select the handshake type for the text data transmission stream as **Xon – Xoff**, **Hardware** or **None**. The default is **None**.

Camera Associations

On the **Camera Associations** tab in the Text Streams Setup screen, specify one or more video inputs (cameras) to associate with the recorded text stream.

These associations are the default settings for local playback of text on the unit and for remote retrieval of text using Network Client. Text will be recorded whenever one or more of the associated cameras is recording video.

Click the button for one or more of the listed cameras to associate text recording with that camera.

Alarms

Use the **Alarms** screen to create Advanced Text search criteria, which you then apply when searching recorded video or filtering live video.

Click the **Show Description** button to display the description for the saved set(s) of criteria listed.

Build Criteria

Click the **Build Criteria** button and the Advanced Text Criteria window appears. Here you define the criteria to be applied to the text stream(s) for filtering of live video or for searching recorded video.

After you have created and saved the set(s) of criteria you need, activate the set(s) you want to use by selecting the checkbox in the list displayed in the lower pane. Select the **Show Description** button to display each set's descriptive data. You may enable multiple sets of criteria to be used for filtering live video or searching recorded video.

Advanced Text Criteria

In the **Advanced Text Criteria** screen you define a set of criteria to narrow your text stream search. Name each set in order to save it for future use or to load it on another Intellex unit.

Use the **Advanced Text Criteria** screen to define the search criteria to find a Live Text Exception when filtering live video, or to search for events in the text stream when playing back recorded video.

For example, you need to find "CHANGE" entries over $10. Name this set "Change Over $10". In the Match field, enter "CHANGE", in the And Value is field select Greater Than from the pull-down list, and in the Value 1 field enter "$10". This set of criteria will then find any "CHANGE" entries over $10.

You also need to find all such entries that were made by the cashier "ROBERT". Create a set named "Cashier ROBERT", enter "CASHIER" in the Match field, select "A String" from the pull-down list in the And Value is field, and enter "ROBERT" (a text string, not a numeric value) in the Value 1 field. This set of criteria will then find entries with the cashier name "ROBERT."

Alarms

On the **Alarms** tab, enable both these sets of criteria so that they will be active for subsequent searches.

Define the set of search criteria by specifying the following parameters:

Criteria Name: Each set of criteria can be named in order to save and reuse it.

Match: The actual value you are searching for.

Search Direction: Allows forward and backward searching of a text stream. The default is Forward.

Jump N Results: Allows the result to be the Nth word found, jumping prior words. The default is 0.

And Value is: Select one option for the value of the Match field from this pull-down list:

- **Found:** Returns any results that are found. This is the default setting.
- **Less Than:** Returns any results that are less than Value 1.
- **Greater Than:** Returns any results that are greater than Value 1.
- **Equal To:** Returns any results that are equal to Value 1.
- **Between:** Returns any results that are between Value 1 and Value 2.
- **A String:** Returns a non-numeric string of characters, like a name or description that you specify in Value 1.

Value 1: A user-defined value, for matching the selection in And Value is.

Value 2: A user-defined value, to define a range with Value 1 for a Between selection in And Value is.

In the Transaction Data display area the associated text stream is shown. To simplify creating or editing a set of criteria, you can copy and paste the actual text shown in the text stream displayed here into the various criteria configuration fields. Move the slider to page forward or backward in the displayed transaction data.

Text Stream: Select the associated text stream to be searched from the pull-down list.

In the Criteria Information display area the defined set(s) of criteria are listed by **Name** and **Description**. Multiple sets may be used in a search by selecting the checkbox next to each set in the list.

To further narrow a text stream filter or search, click the **Transaction…** button to call the **Transaction Definition** window, where you define a transaction (such as a receipt), within which the text exception must be found.

Advanced Text Criteria window options:

OK: Click to accept the changes made.

Cancel: Click to cancel the changes.

Add: Click to add a new set of criteria.

Delete: Click to delete an existing set of criteria.

Edit: Click to edit an existing text set of criteria.

Update: Click to refresh the information with any changes you have made.

Load: Click to load (import) a saved set of criteria from the floppy drive.

Save: Click to save (export) a set of criteria to the floppy drive.

Transaction Definition

A Transaction Definition defines the beginning and ending strings that delimit a transaction, such as a receipt. When a Transaction Definition is active for live monitoring, each of the active criteria (defined in the Advanced Text Criteria screen) must be found within a single transaction as defined by the Beginning and Ending markers in order to generate an alarm.

Transaction Name: Enter a descriptive name for the transaction.

Beginning Marker: The word(s) that identify the beginning of a transaction.

Ending Marker: The word(s) that identify the end of a transaction.

Transaction Data: Displays the associated text stream.

Text Stream: Select the associated text stream from the pull- down list.

Transaction Information: Displays the defined transactions.

Transaction Definition window options:

OK: Click to accept the changes made.

Cancel: Click to cancel the changes.

Add: Click to add a new transaction.

Delete: Click to delete an existing transaction.

Edit: Click to edit an existing text set of criteria.

Update: Click to refresh the information with any changes you have made.

Load: Click to load (import) the saved transaction.

Save: Click to save (export) the transaction information to the floppy drive.

AUDIO SETUP

Use this screen to set up Audio recording via a **Line In** or **Microphone** source.

NOTE: Audio setup is a protected feature. You must possess the Audio Setup privilege to access it.

On the **Audio Mixer** tab in the Audio Setup screen, under Output Level, use the slider controls to set the output level for Playback. Select a **Line** or **Microphone** source as the audio input instrument. Click the **Mute** button to disable Playback for the unused audio input source.

NOTE: Network Client allows playback of recorded audio. Live audio is not available during Live Video display.

Under Record specify the audio source, either **Line In** or **Microphone**. Use the **Record Level** slider control on the right to set the recording level.

The LED display to the right of the Record Level slider control displays the input signal level. This input level should be set in the green to yellow range. An input level in the red range may cause distortion of the recorded audio.

Under Record, select **None** to disable audio recording.

To add an input boost of 20 dB to the audio signal strength, click the **Microphone Boost** button.

Camera Associations

On the **Camera Associations** tab in the Audio Setup screen, specify one or more video inputs (cameras) to associate with the recorded audio stream.

These associations are the default settings for local playback of audio on the unit and for remote retrieval of audio using Network Client. Audio will be recorded whenever one or more of the associated cameras is recording video.

Click the button for one or more of the listed cameras to associate audio recording with that camera.

DIAL-UP NETWORKING FOR NETWORK CLIENT

Setting Up Intellex Dial-Up for Network Client: Windows NT 4.0

NOTE: These instructions apply only to Windows NT 4.0. Print them out for reference before beginning the procedure.

Make sure you have Dial-up Networking and a modem installed on your computer.

1. Click the **Start** button, go to **Settings**, and click on **Control Panel**.
2. Double-click on the **Modems** icon.
3. A modem should be listed. If it is not, contact your PC vendor for instructions on how to install the modem drivers.
4. Click **Close** to exit **Modem Properties**.
5. Double-click on the **Network** icon in the **Control Panel**.
6. Click on the **Services** tab.
7. Remote Access Service should be listed. If it is not, click on the **Add** button, select **Remote Access Service**, then click **OK**. You may be prompted to insert the Windows NT install CD. Enter the full path, including the drive, e.g. “D:\” and the directory, e.g., “\i386”.
8. You will then be prompted to **Add a RAS-Capable Device**. Select your modem from the list if it is not already selected. Then click **OK**. Then click the **Configure** button in the remote Access Setup box. Ensure that either **Dial Out Only** is selected under Port Usage, and click **OK**. Then click **Continue**. Leave the settings on this page alone and click **OK**.
9. Click the **Close** button. You may be prompted to reboot your computer. If so, please do so now.
10. Close the **Control Panel** if it is still open.
11. Double-click on the **My Computer** icon.
12. Double-click on the **Dial-Up Networking** icon.
13. You may see a message asking you to enter the area code. If so, enter the area code and click **Close**. If not, continue to the next step.
14. You may see a message "The phone book is empty." Click **OK**.
15. Enter a name for the computer you are dialing (to distinguish between multiple dial-up settings). Then click on **Next**.
16. Check the **”I am calling the Internet”** and **”Send my plain text password if that’s the only way to connect”** boxes, then click on **Next**.
17. Type in the phone number of the Intellex you will be dialing, then click **Next**.
18. Click **Finish** to save your dial-up connection.

19. A **Dial-up Networking** dialog will display. Verify that the phone number is correct. If it is not correct, re-enter the phone number. Click **Dial**. Enter the username, password, and leave the domain blank.
20. Once connected, open Network Client. On the menu select **Settings**, **Instruments**, then **Add**.
21. Under **Instrument Name/IP Address**, enter the IP address **169.254.1.1.**
22. erify that the **Communications** and **Live Video** port addresses match those on the remote Intellex unit. Click **OK** and **Close**.

Start Network Client. Follow the directions in *Connecting Network Client With A Remote Intellex Unit* on page 11 to begin operating the Intellex over the dial-up connection.

Setting Up Intellex Dial-Up for Network Client: Windows 98

NOTE: These instructions apply only to Windows 98. Print them out for reference before beginning the procedure.

Make sure that you have Dial-up Networking and a modem installed on your computer.

1. Click the **Start** button, go to **Settings**, and click on **Control Panel**.
2. Double-click on the **Modems** icon.
3. If the **Location Information** box is displayed, enter the area ode and click **OK**.
4. A modem should be listed. If it is not, contact your PC vendor for instructions on how to install the modem drivers.
5. Click on the **Diagnostics** tab.
6. Select the COM port that corresponds to your modem.
7. Click on the **More Info** button.
8. After a few seconds, a window with diagnostic information should appear. If you see a window stating that the port could not be opened or that the port is busy, please contact your PC vendor for support.
9. Click **OK** to exit the **More Info** window.
10. Click **OK** to exit **Modem Properties**.
11. Double-click on the **Add/Remove Programs** icon in the **Control Panel**.
12. Click on the **Windows Setup** tab.
13. Click on **Communications**, then click on **Details**.
14. Make sure that **Dial-Up Networking** has a check mark next to it. If it does not, click in the checkbox to mark it.
15. Click **OK** to close the **Communications** window.
16. Click **OK** to close the **Add/Remove Programs Properties** window.

17. If you have had to install Dial-Up Networking, you will be prompted to reboot your computer. Please do so now, then proceed to the next step. If Dial-Up Networking is already installed, you will not need to reboot, and you may proceed to the next step.
18. If the **Control Panel** is still open, close it at this time.
19. Double-click on **My Computer** icon, then on the **Dial-Up Networking** icon.
20. A **Welcome to Dial-up Networking** message displays; click **Next**.
21. Enter a name for the computer you are dialing. Then click **Next**.
22. Enter the Area code, Telephone number, and Country or Region code for the Intellex unit you wish to dial. Click Next and then **Finish**. A Dial-up icon is created in the **Networking** folder.
23. In the **Dial-up Networking** folder, right-click on the dial-up icon associated with the Intellex that you just created, then click on **Properties**.
24. Click on the Server Types tab.
25. Under **Advanced Options**, place a check mark on **Log on to network** and **Enable software compression,** and uncheck **Require encrypted password**, **Require data encryption**, and **Record a log file for this connection**.
26. Under **Allowed network protocols**, place a check on **TCP/IP**, and uncheck **NETBEUI** and **IPX/SPX Compatible**. When finished, click **OK**.
27. In the **Dial-up Networking** folder, double-click on the appropriate dial-up icon associated with the Intellex 3.x dial-up.
28. Enter the username and password and click on **Connect** to connect to the remote Intellex unit.
29. Once connected, open Network Client. On the menu select **Settings**, **Instruments**, then **Add**.
30. Under **Instrument Name/IP Address**, enter the IP address **169.254.1.1**.
31. Verify that the Communications and Live Video port addresses match those on the remote Intellex unit. Click **OK** and **Close**.

Start Network Client. Follow the directions in *Connecting Network Client With A Remote Intellex Unit* on page 11 to begin operating the Intellex over the dial-up connection.

Setting Up Intellex Dial-Up for Network Client: Windows 2000

NOTE: These instructions apply only to Windows 2000. Print them out for reference before beginning the procedure.

Make sure that you have Dial-up Networking and a modem installed on your computer.

1. Click the **Start** button, go to **Settings**, and click on **Control Panel**.
2. Double-click on the **Phone And Modem Options** icon.
3. If the **Location Information** box is displayed, enter the area code and click **OK**.
4. Click on the **Modems** tab.
5. A modem should be listed. If it is not, contact your PC vendor for instructions on how to install the modem drivers.
6. Click on the **Properties** button to bring up the properties window for that modem.
7. Click on the **Diagnostics** tab.
8. Click on the **Query Modem** button. You should receive a message stating that the computer is communicating with the modem. When it finishes, Command and Response data should appear in the **Properties** window. If you see an error message or a message stating that the port is not responding or is busy, please contact your PC vendor for support.
9. Click **OK** to exit the **Properties** window.
10. Click **OK** to exit Phone And Modem Options.
11. Double-click on **Network and Dial-up Connections** in the **Control Panel**.
12. Click on **Make New Connection**.
13. Click the **Next** button.
14. Select **Dial-up to Private Network** and click **Next**.
15. Put a check mark next to the device or devices that you wish to use to make the connection, and clear check marks from any devices that you do not wish to use, then click **Next**. NOTE: This option displays only if there are two or more modems installed in the computer.
16. Enter the phone number of the Intellex unit to which you want to connect, then click **Next**.
17. Select whether you want to create this connection For All Users or **Only For Myself**, then click **Next**.
18. Enter the name you want to use for this connection. Make sure you place a check on the **"Add a shortcut to my desktop"** option if you wish. Then click the **Finish** button.

19. A **Connect To** dialog will display. Enter the username and password of the Intellex 3.x unit. Click on the **Dial** button.
20. Once connected, open Network Client. On the menu select **Settings**, **Instruments**, then **Add**.
21. Under **Instrument Name/IP Address**, enter the IP address **169.254.1.1**.
22. Verify that the **Communications** and **Live Video** port addresses match those on the remote Intellex unit. Click **OK** and **Close**.

Start Network Client. Follow the directions in *Connecting Network Client With A Remote Intellex Unit* on page 11 to begin operating the Intellex over the dial-up connection.

Setting Up Intellex Dial-Up for Network Client: Windows XP

NOTE: These instructions apply only to Windows XP. Print them out for reference before beginning the procedure.

Make sure you have Dialup Networking and a modem installed on your computer.

1. Click the **Start** button, and then the **Control Panel**.
2. If the display is in **Category View**, then click on the **Switch to Classic View** link at the upper left.
3. Double-click on the **Phone and Modem Options** icon.
4. If the **Location Information** box is displayed, enter the area code and click **OK**.
5. Click on the **Modems** tab.
6. A modem should be listed. If it is not, contact your PC vendor for instructions on how to install the modem drivers.
7. Click on the **Properties** button to bring up the properties window for that modem.
8. Click on the **Diagnostics** tab.
9. Click on the **Query Modem** button. You should receive a message stating that the computer is communicating with the modem. When it finishes, Command and Response data should appear in the **Properties** window. If you see an error message or a message stating that the port is not responding or is busy, please contact your PC vendor for support.
10. Click **OK** to exit the **Properties** window
11. Click **OK** to exit **Phone and Modem Options** window.
12. Double-click on **Network Connections** in the **Control Panel**.
13. Click on the **Create a new connection** link in the upper left of the screen.
14. On the new wizard screen, click on **Next**.

15. Under **Network Connection Type**, select **Connect to the Internet** option, and click on **Next**.
16. Under **Getting Ready**, select the **Set up my connection manually** option and click on **Next**.
17. Under **Internet Connection**, select **Connect using a dial-up modem** and click **Next**.
18. Put a check mark next to the device(s) that you wish to use to make the connection, and clear any check marks from any devices that you do no with to use, then click **Next**. NOTE: This option displays only if there are two or more modems installed in the computer.
19. Enter the name of the Intellex unit to which you want to connect, then click **Next.**
20. Enter the phone number you want to use for this connection, then click **Next.**
21. Under **Connection Availability**, select **Anyone's use** or **My use only**, and click on **Next**. Ignore this procedure you are not prompted to do so, and go to the next step.
22. Under **Internet Account Information**, enter the username and password of the Intellex 3.x unit. Click on **Next**.
23. Under **Completing the New Connection Wizard**, place a check mark on **Add a shortcut to this connection to my desktop** and then click **Finish**.
24. A **Connect To** dialog will display. If the **Connect To** dialog does not display, double-click on the dial-up icon associated with the Intellex in Network Connections on the Windows desktop. Click **Dial**.
25. Once connected, open Network Client. On the menu select **Settings**, Instruments, then **Add**.
26. Under **Instrument Name/IP Address**, enter the IP address **169.254.1.1**.
27. Verify that the **Communications** and **Live Video** port addresses match those on the remote Intellex unit. Click **OK** and **Close**.

Start Network Client. Follow the directions in *Connecting Network Client With A Remote Intellex Unit* on page 11 to begin operating the Intellex over the dial-up connection.

USING VIDEO PLAYER AGENT

NOTE: Video Player Agent is designed to operate with a third party script or program. The following instructions are intended to provide a reference for the command parameters and user interface only.

Video Player Agent is a small application designed to download video from any Intellex using a command line statement. The user can pass generic date and time information to an Intellex unit, and view the associated video as it returns from the Intellex. After the video is retrieved, it can be stored as a Network Client Incident or as an AVI file.

This application is installed from the Network Client application CD-ROM. Please review *Installing Network Client 3.1* on page 4 for detailed installation instructions.

NOTE: Video Player Agent and Network Client cannot run at the same time. If Network Client is already running, attempting to start up Video Player Agent on the same computer produces an error message stating “Network Client is already running. You must close Network Client before starting Video Player Agent.”

Command Parameters

The command line parameters specify all of the information needed by Video Player Agent to retrieve a particular video segment: camera [optional], date, begin time and end time. Any third-party program or script for Video Player Agent must maintain all necessary cross-reference information: Intellex number, name or IP address and camera number.

Video Player Agent is called by executing the following statement:

Videoagent.exe -s 100.100.10.1 -c 3 -d 08252002 -b 14:12:35 -e 14:15:12 -u USERID -p PASSWORD

In the above example, videoagent.exe is executed from the Windows command-line using the run or command line prompt. All commands are in lower case. There is a space between the parameter and the value for that parameter.

-s

[**-s 100.100.10.1**] “-s” indicates the parameter unit (server address) and "100.100.10.1" is the associated IP address. This could be –s INTELLEX1 which is the DNS name for the Intellex.

-t

[**-t 5000**] indicates the parameter unit (port). The old default for this is 5000, but still needs to be specified.

-c

[**-c 3**] "-c" indicates the parameter type (camera), "3" is the camera number.

-d

[**-d 08252002**] "-d" indicates the parameter type (date). "08252002" is the date in MMDDYYYY format

-b

[**-b 14:12:35**] "-b" indicates the parameter type (begin time). "14:12:35" is the time in HH:MM:SS format

-e

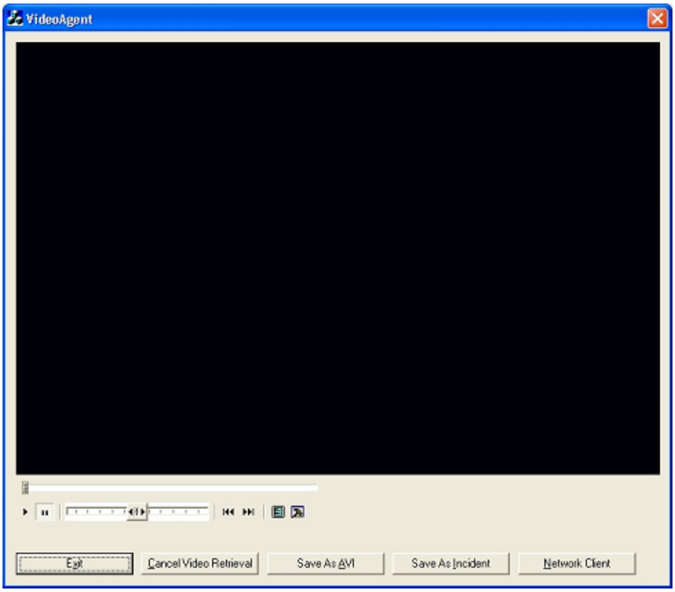
[**-e 14:15:12**] "-e" indicates the parameter type (end time). "14:15:12" is the time in HH:MM:SS format

Error Checking

The third-party application must pass all six command parameters to Video Player Agent. One error box appears each time the command line executes with a missing parameter. Each error box reports a single missing parameter.

Video Player Agent Main Screen

The Video Player Agent main screen uses standard Network Client Player controls. For more information on the player controls, refer to *Playback Controls* on page 74 for more information.



Exit Video Player Agent and do not save the video that has been downloaded.

The **Exit** button is disabled when video is being retrieved from Intellex.

This function is enabled while video is being retrieved from an Intellex unit. Otherwise the button is disabled.

Pressing the button during the retrieval stops the download process, and sets the last segment retrieved as the end of the video clip.

Click to start the *Export to AVI* on page 86 dialog. This button is enabled when video has been retrieved.

This **Export to AVI** function is the same as the *Export to AVI* on page 86 in Network Client.

Click to start the Save Incident dialog. This button is enabled when video has been retrieved and there is at least one valid incident database (previously created by Network Client).

When there is not a valid Incident database, the **Save Incident** button is disabled.

Launches Network Client and closes Video Player Agent. Retrieved video not saved or exported is permanently lost. There are no warnings if the video hasn't been saved.

When Network Client is not installed in the same directory as Video Player Agent, the **Network Client** button is disabled.

Save Incident

Use this feature for fast retrieval and saving of video from an Intellex. Click the **Save As Incident** button on the Video Player Agent main screen. The Save As Incident screen appears.

Click on the Database down arrow to display the databases that have been defined for use by Network Client. Click on the Category down arrow to select an existing category. Type a name of up to 32 characters to create new category (a new Incident name must also be created). Two Incidents with the same name are not permitted. Notes can be entered to annotate the video segment.

Refer to *Retrieving Alarms and Video* on page 66 for more information.

Save As AVI

Use this feature to export a retrieved video segment to an AVI file. Click the **Save As AVI** button. The Intellex Export to AVI screen appears.

The Image File Name box contains the default file name of the last video segment retrieved. The user may not edit this name.

Type a filename of up to 32 characters in the Export File Name box. The **Export** button is available when an Export File Name is entered. The default Export File Name is **Video1**.

If the filename is not valid, an error will appears next to the Process Status label. Correct the Export File Name and click **Export.** The application saves the video segment under it's new name.

The default resolution of the exported video segment is **160x120**.

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