

TruVision Navigator 8.0 SP2 A&E Specifications, Division 28 00 00 Electronic Safety and Security



P/N 1073458-EN • REV B • ISS 18APR19

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28 05 00 Common Work Results for Electronic Safety and Security

28 05 13 Servers, Workstations and Storage for Electronic Safety and Security

28 05 13.11 General Requirements for Servers, Workstations and Storage

# System Requirements

## Hardware Components

### CPU – Related to the performance of the application when running and rendering video. The better the CPU, the more responsive the application.

### RAM – Related to the number of different applications that can run simultaneously as well as the number of different operations that TruVision® Navigator can perform at once. The higher the RAM, the better performance of the application.

### Hard Drive – TruVision Navigator requires approximately 800 MB of storage to install. To store exported video from the devices on the local machine, we recommend increasing storage capacity.

### Video Card – Related to the video rendering performance within TruVision Navigator. The better the video card, the better video rendering performance.

### Network interface card – Can be a performance bottle neck depending upon the throughput of the card. If the card's throughput is less than the amount of data streaming to the machine, performance issues will result.

## Recommended Server/Client Hardware

### CPU: 3rd Gen Intel Core i5-3470 Processor (6 MB, 3.2 GHz)

### RAM: 16 GB

### Video Card: Nvidia® GeForce GTX 1060

### Hard drive: 500 GB, 7200 RPM, SATA 3.0 Gb/s, 16 MB Cache

### Network: Integrated PCIE 10/100/1000

### Monitor: 1920 × 1080, 32-bit color

### Audio: Sound Card

## Client/Server Software Requirements

### Operating System:

#### Microsoft® Windows 7 SP1 64-bit (prerequisite) or

#### Microsoft Windows 8.1 64-bit (prerequisite) or

#### Microsoft Windows 10 64-bit (prerequisite) or

#### Microsoft Windows Server® 2016 (prerequisite) or

#### Microsoft Windows Server 2012 R2 64-bit (prerequisite)

### Database:

#### Microsoft SQL Server Express (go to www.microsoft.com for details on version compatibility with the operating systems listed above)

### Microsoft .Net Framework 4.6 (packaged with installation)

### Microsoft Visual C++ 2010 x64 Redistributable 10.0.40219

### WinPCAP 4.1.3 (packaged with installation)

# Storage Requirements (supported recording devices)

## Actively supported Hybrid DVRs include:

### TruVision TVR 45HD

### TruVision TVR 44HD

### TruVision TVR 15HD

### TruVision TVR 12HD

### TruVision TVR 46

## Actively supported NVRs include:

### TruVision TVN 10

### TruVision TVN 11

### TruVision TVN 21(S)(P)

### TruVision TVN 22

### TruVision TVN 70

### TruVision TVN 71

28 05 29 Storage Management Software for Electronic Safety and Security

# Storage Calculator

## TruVision Navigator’s storage calculator permits the creation of a storage capacity requirement report for TruVision recorders that can be printed or exported to Microsoft Excel. The report includes:

### Recorder models

### Camera models

### Number of camera channels

### Total storage per day required

### Total storage capacity required

28 05 53 Identification for Electronic Safety and Security

# Creation and Distribution

## TruVision Navigator shall be as created and distributed by Interlogix® or an approved equal.

28 10 00 Access Control

28 13 13 Access Control Software Interfaces

# TruPortal® Access Control Systems

## Ability to add TruPortal access control panels to the TruVision Navigator user interface.

###  Right-click or double-click on door icons associated with each panel to unlock them.

### Right-click on an access control panel to perform Reinstate, Lockout, and Unlock All Doors functions.

### To see which cameras on a map are linked to a door icon, hold down the Alt key while clicking on the door icon and orange circles appear around the connected camera icons.

## Access control events that can be added to a Logical Event Filtering notification include:

### Door Locked

### Door Locked Out

### Door Offline

### Door Tampered

### Door Tampered Reader

### Door Unlocked

## Multisite support for TruPortal access control panels

### A single user credential can be assigned to multiple TruPortal panels grouped into one site by using folders to separate sites.

### The panel or panels under each folder operate as a single system, and each system can accept a maximum of eight card formats simultaneously.

28 20 00 Video Surveillance

28 23 00 Video Management System

# Identification

## The TruVision Navigator software permits security related personnel to easily and remotely gather video evidence, monitor live situations, and configure and maintain a video surveillance system over Ethernet consisting of hybrid digital video recorders (DVRs), network video recorders (NVRs), analog video cameras, and IP video cameras.

## Actively supported Hybrid DVRs include:

### TruVision TVR 45HD

### TruVision TVR 44HD

### TruVision TVR 15HD

### TruVision TVR 12HD

### TruVision TVR 46

## Actively supported NVRs include:

### TruVision TVN 10

### TruVision TVN 11

### TruVision TVN 21(S)(P)

### TruVision TVN 22

### TruVision TVN 70

### TruVision TVN 71

## Supported IP cameras

### All TruVision IP cameras.

## Supported network switches

### Interlogix IFS and legacy GE network switches.

# Installation

## There are two installation options for TruVision Navigator. The core features and functions remain the same regardless of which of the two installation options are selected.

### Standalone Model (or Direct Database Connection)

#### This installation option allows the client, services, and database to be located on the same machine.

#### This is considered a “standalone” installation.

#### Other networked clients cannot share the database.

### Multi-Client Model (or Client/Server)

#### This installation option allows the client, services, and database to be located on the same or separate machines.

#### Multiple networked clients can share the database.

#### This installation is required to activate server online/offline mode.

## Administrator rights are required on the machine to install the application.

## The application will be available to all users who successfully log on to a Windows account on that machine.

## Upgrades are available from existing systems to the latest version.

28 23 13 Video Management System Interfaces

# Application Layout

## The TruVision Navigator Client graphical user interface (GUI) consists of four panels and multiple dialogs.

## Navigator Panel

### Navigator allows the user to add devices, cameras, and other items to the Navigator panel.

#### Ability to add devices, which are offline but will be added to the system at a later date.

#### Ability to place devices, maps, access control panels, logical views, intrusion panels, network switches, decoders, and websites into folders for logical organization and easy access.

#### Ability to add PNG, JPEG, GIF, or bitmap images to be used as maps or floorplans.

##### Add camera icons to the map and click on those icons to launch the camera in live view in the next available video pane.

##### Rotate camera icons automatically or manually to mimic the physical orientation of the camera.

##### Connect an access control point to cameras on a map.

##### Add submap or website icons to a map and double-click on those icons in the Viewer to open the items in a new video tile.

##### Add recorder or camera alarm output icons to a map and double-click on the icons to turn them on or off.

##### Add intrusion areas and sensors to maps that indicate current status.

#### Ability to add websites to the Navigator panel which can be viewed and navigated in the viewer panel.

#### Ability to add TruPortal access control panels to the Navigator panel.

##### Right click or double-click on door icons associated with each panel to unlock them.

#### Ability to add network switches to the Navigator panel.

##### View port status and statistics for each port on each switch.

###### Ports that appear as green indicate that a device is connected to the port.

###### Ports that appear as orange indicate that a PoE device is connected to the port.

###### Ports that appear without color are inactive.

###### Switches that are ONVIF-compliant appear with a red square around the switch icon.

###### The names and models of cameras connected to switches appear in the Navigator panel.

#### Ability to add TruVision decoders to the Navigator panel

##### Add scenes to decoders that output to monitors via HDMI, VGA, and BNC connections (video wall functionality).

###### Scene icons that appear as green indicate that the scene is activated.

#### Ability to add logical views that provide the flexibility to display physical devices in any required configuration.

### Navigator allows the user to add devices and cameras via an embedded discovery tool. Embedded discovery tool functions include:

#### Discover devices and cameras on a network.

#### List only supported and available cameras on a network.

### Navigator is the central administration area in the software and allows a quick search for and access of any device or camera in the system.

#### Quick Search allows the user to pinpoint the exact video objects of interest with minimal mouse clicks.

#### Double-click or drag and drop capability to view cameras or devices as a whole.

### Navigator is permission-based, so if a user does not have rights to perform certain actions, they will not see the options.

#### User and Group Permissions can be set at the server- and folder-level to reduce administrative time.

### Right-click on the Devices node for a context menu:

#### Create folders for logical device organization.

### Right-click on any object in the Navigator panel for its context menu. A number of operations can be performed depending on the device type, including:

#### Health diagnostics – The ability to capture, filter, and export device health diagnostic information that is critical to maintaining up time of the surveillance system. This information may include the following (diagnostic information is device-dependent):

##### Diagnostic Capture Time/Date

##### Device Response

##### IP Address

##### MAC Address

##### Model Name

##### Serial Number

##### Firmware Version

##### Device Time/Date

##### Total Device Health

##### Device Temperature

##### HDD Status

##### HDD Temperature

##### HDD Capacity

##### Fan Status

##### Cameras in Video Loss

##### Cameras in Alarm

##### Current Client Connections

##### Record Status

##### First Recorded Video

##### Latest Recorded Video

##### Record Time Left

##### Video Stored (in Days)

##### Video Stored (in Time)

##### Power on Duration

##### Device’s Export Status from the Front Panel

##### Device’s Export Time Left from the Front Panel

#### Device Report – The ability to generate a report of health diagnostics information.

#### Device and camera configuration – The ability to remotely configure parameters of the device or camera.

#### Network Statistics – The ability to view outgoing and incoming network bandwidth limit and usage displays in a graphical format. The number of open video streams at the device level is also shown here.

#### Disk analysis – The ability to view the entire disk of data in a graphical, color-coded representation on a per camera basis. Recorded video can be played and exported from the disk analysis screen. Video types include:

##### Alarm

##### Motion

##### Video Loss

##### Recording

##### Text

##### VCA

#### Tampering Monitor – The ability to compare a reference image and current image side by side (manually).

#### Properties – The ability to quickly review the following information per device:

##### Connection Type

###### TCP

###### Reverse TCP

###### Reverse TCP I-frame

###### UDP

##### Details

###### Device Title

###### Camera Quantity

###### Administrative Contact Information

###### Free-form Notes

##### Capabilities

#### Search – The ability to search devices and cameras for the following:

##### Alarm

##### Event

##### Motion

##### POS Text Search – The ability to overlay text on the video results or beside the video results.

##### Smart Search – The ability to find changes in video per a defined Region of Interest for a specific camera’s field of view.

#### Download Configuration – The ability to save a device’s configuration for later use.

#### Upload Configuration – The ability to push a saved configuration file to a device.

#### Firmware upload – The ability to remotely upload firmware to a device using the device’s internal browser page.

#### Restore Factory Defaults – The ability to restore the device to factory default settings.

#### Arm/Disarm – The ability to arm (Stay or Away) or disarm individual intrusion panel sensors or globally arm/disarm all sensors in all panels.

#### PoE Reset – The ability to power cycle a device connected to a network switch PoE port.

#### Reboot – The ability to remotely reboot a device.

#### Delete – The ability to delete a device from the Navigator panel.

#### Rename – The ability to rename a device in the Navigator panel.

## Viewer Panel

### Viewer allows users to view both live and recorded video from various video sources in the system simultaneously (for example, multi-site capability).

### Video tile layout options include:

#### 1 up – 1×1

#### 4 up – 2×2

#### 9 up – 3×3

#### 16 up – 4×4

#### 25 up – 5×5

#### 36 up – 6×6

#### 49 up – 7×7

#### 64 up – 8×8

#### 81 up – 9×9

#### 100 up – 10×10

#### Custom Tile Layout – 19 other layouts.

#### Ability to create and edit custom layouts.

### Detachable viewers – From a single instance of TruVision Navigator, users have the ability to detach Viewer panels and move them to other (or the same) monitor(s). A maximum of 10 Viewers can be detached (10 detached and one Event Monitor Viewer).

### Event Monitor – Cameras that have been assigned to the Event Monitor will open in live view in the event monitor when an event is received from that camera. The maximum number of event cameras that can be assigned is 100.

### Custom Views permits customization of the Viewer with the exact cameras to monitor and then save that view for future use.

#### Drag and drop the video tile status bar to move the videos to any of the other video tiles to organize the exact layout.

#### A single-screen camera sequence can be created of each tile from left to right in a custom view.

#### A maximum of 50 custom views can be created.

### The Maximize Viewer capability permits a full screen view of the Viewer panel with one mouse click as well as a return to the previous GUI panel state with one mouse click.

### The Maximize Video tile capability allows the user to maximize a video tile in the Viewer by double-clicking the video. Double-clicking the video tile again restores the multi-up video tile display.

### If the video source is a PTZ (pan/tilt/zoom) camera, the Viewer has mouse support for PTZ features within the viewing tile.

#### Left-clicking and moving the mouse left/right/up/down adjusts the pan and tilt of the camera.

#### Right-clicking and moving the mouse up and down allows the camera lens to zoom in and out.

#### The scroll wheel performs Optical Zoom on PTZ cameras and digital zoom on fixed cameras.

### Digital Zoom – The ability to perform digital zoom for cameras within the viewing tile.

#### Left clicking and moving the mouse left/right/up/down to perform digital pan and tilt.

#### Using mouse scroll up and down, or, right clicking and moving the mouse up and down to perform digital zoom.

### 360° camera dewarping

#### Ability to dewarp a single fisheye view from a TruVision 360° camera.

#### Dewarp into a PTZ view live or playback

#### Dewarp into a 180° panoramic view live or playback

#### Dewarp into a 360° view live or playback

### Replay local video files – The ability to replay local video files in the Viewer that have been exported from a recording device via TruVision Navigator.

### Video Sync

#### Play back all videos in the Viewer (up to a maximum of nine) at the same current playback time/date of the camera being synced to.

#### If a synced camera is set to record events instead of a continuous live stream, gaps in recording are indicated by a display of the last frame recorded before the gap occurs. The video resumes when it reaches the time that the next event was recorded.

### Heat Map (for 360° cameras)

#### View heat map statistics by Report Type, Map Type, and Time.

#### Provides on-screen display for supported 360° cameras.

### Display Analytics Rules (for supported cameras)

#### Provides dynamic display indicators in the video tile for each selection. Motion and VCA indicators, as well as the on-screen drawing that defines a region of interest, differ depending on the model of recorder.

#### Provides on-screen display for supported thermal cameras.

### Object Counting (for supported cameras)

#### View object counting statistics by Report Type, Graph Type, and Time.

#### Display the object counting on-screen counter (Enter and Leave numbers).

### POS mode – This function enables point of sale (POS) data display (from a device such as a cash register or ATM) in a video tile.

## Toolbar

### Select all video tiles for focus with respect to the other controls (for example, snapshot, playback controls, stream switching, etc.).

### Zoom in and out on the timeline.

### Center the timeline.

### Add bookmarks to the timeline and move from one bookmark to the next in the timeline.

### Open the PTZ control palette to launch the camera PTZ controls:

#### Pan-Tilt controls

#### Pan-Tilt-Zoom speed

#### Iris

#### Focus

#### Zoom

#### Auto focus (for supported cameras)

#### Load Presets

#### Save Presets

#### Name Presets

#### Link Presets into Preset Sequences

#### Record Tour

#### Start Tour

### Bi-directional Audio - the ability to send operator voice audio from TruVision Navigator through to the recording device and then listen to responses.

### Perform a Go To search to enter a date/time to bring selected video to playback.

### Perform a motion search if the device supports this.

### Toggle selected video between live and playback.

### Take a snapshot of the current play time of a selected video tile and send it to the Collector for export.

### Send a video segment (of the time range specified using the green and red indicators) to the Collector for export.

### Use the time indicator to pinpoint the exact time to seek for video along the timeline.

## Timeline

### Seek for video at key points in time by double-clicking on the timeline to bring selected video to playback.

### Add a bookmark to the timeline for quick navigation to an incident.

### The playback cursor is available to seek and play video anywhere along the Timeline and can then mark that video for export using the green start and red stop bookmark icons.

### Hover the mouse over recorded video on the timeline to view a thumbnail image of the video (TVR 46 only).

### Playback Controls include:

#### Fast Forward

#### Rewind

#### Frame Reverse

#### Frame Advance

#### Pause

#### Play

#### Local Record

#### Main and sub stream switching

## Collector Panel

### Collector contains all relevant video segments, snapshots, and local recordings that are ready for export.

### Ability to select all or unselect all objects in the Collector.

### Ability to remove all objects from the Collector.

### Ability to remove individual objects from the Collector.

### Ability to double-click objects to replay in the Viewer.

### Ability to single left-click or right-click video objects to rename.

### Ability to right-click snapshot objects to print, email, or rename.

### Ability to open the current export directory.

### Ability to individually select objects and export the content to the hard drive:

#### On demand; or

#### On a user-defined schedule.

#### The target export path persists until changed by the user.

### Ability to estimate the total size of the objects for export in order to prepare the proper media.

### Ability to view export status via a progress bar.

### Ability to include the TruVision Navigator Player for the video playback.

#### Standalone player plays all supported proprietary video file formats.

#### Executed from the media itself and does not require installation to the PC.

#### Maximum 9-up video viewing

#### Browse file selection

#### Snapshot

#### Playback controls

#### Timeline

#### Audio enable

#### Maximize/minimize viewer

#### Show/hide playback controls in maximized view

## Device Manager

### Searches for and finds online Interlogix devices such as IP cameras, DVRs, NVRs, encoders, decoders, IFS switches, supported Interlogix intrusion control panels, and TruPortal access panels.

### Add devices manually via the Device Manager interface.

### Provides a New System Setup Wizard for setting up new devices that have not previously been connected to the network.

### Permits activation of an inactive device.

### Provides firmware upgrade capabilities by connecting to the Interlogix firmware server.

### Permits enabling Alarm Host to set the IP address of the client or server that will receive alarm notifications.

### Permits devices with multiple NICs to be assigned multiple IP addresses (user name and password required)

### Includes tools to perform the following tasks:

#### Change IP address (including NICs)

#### Reset password

#### Manual firmware update

#### Link to storage calculator

#### Date and time sync

#### Device configuration backup and restore

#### Upload camera information

#### Change password

## Bookmark Manager Panel

### The Bookmark Manager provides a central location that contains all device-level bookmarks.

#### When bookmarks are added, edited, or deleted on the timeline, the Bookmark Manager automatically updates.

#### Deleting the device or camera associated with one or more bookmarks removes them from the Device list in the Bookmark Manager.

### The following operations are available in the Bookmark Manager:

#### Edit – Edit the title, time, and notes associated with the bookmark.

#### Delete – Delete the bookmark.

#### Play – Click the bookmark’s play icon to play video associated with the bookmark in the timeline.

## Tasks Panel

### Tasks provide a central location to monitor the tasks that have been created and/or scheduled in the system. These scheduled tasks include:

#### Video exports

#### Database Backup and Restore

### Tasks provide a real-time status of the task in the queue and reasons if a task was unsuccessful.

#### Name of task and computer it is scheduled to execute on

#### Scheduled time of the task

##### User-defined and configurable

### Status of the task

#### Pending

#### In Progress (with percentage complete status)

#### Successful

##### The time it took for the task to execute

#### Failed

##### The reason why the task failed

##### Ability to reschedule the task

#### Cancel and remove the task

## Recurring Task Panel

### Recurring Tasks provides a central location to monitor recurring video exports that have been created and/or scheduled in the system.

### Recurring Tasks provides information about the scheduled recurring task.

#### IP address and name of the device (camera)

#### Next scheduled date/time of the recurring task

#### Days the recurring task occurs

#### Start and end time of the recurring task

#### Location of the recurring task video exports

### Status of the recurring task

#### Completed

#### Active

### Delete the recurring task

## Settings window (application configuration)

### Client tab

#### Notifier Sound – Allows new notifications received in TruVision Navigator’s Notifier to be tied to an audible sound.

#### Point-of-Sale Text – Select whether or not to display POS text In band (text overlaid on the video) or Out of Band (text placed next to the video).

#### Limit maximum CPU usage to… – Limit how much video can be rendered in the Viewer based on the level of CPU usage in the computer. The default is enabled for 80% (user-configurable) of CPU usage. As video is loaded into the Viewer, TruVision Navigator checks to see if there is available CPU to load the video. After 80% CPU is exceeded, TruVision Navigator will not permit streaming of any more video.

#### Limit the amount of main streams that can be opened.

#### Preserve Video Aspect Ratio – Removes the 4×3 aspect ratio in the Viewer and scales the video to fill the entire video tile.

#### Enable Audio From Devices – This check box enables the ability to hear audio transmitted from devices.

#### Show Grid Lines in Viewer – Remove/show gridlines between video tiles in the Viewer.

#### Display Video Tile Information – Remove/show camera title and time and date.

#### Pause Background Video – Pause video not running in the current view in Navigator. This selection closes the video streams that are not currently being viewed. Use this setting if bandwidth usage is an issue. There will be a slight delay when switching to the background views.

#### Restore Last View State – Cameras, views, and tile layouts are restored to their previous state after exiting and restarting Navigator.

#### Use GPU – Use the computer’s video card to decode video.

#### Bring Event Monitor Forward – Displays the Event Monitor tab in the Viewer panel in front of the current view whenever an event occurs.

#### Language – Select the preferred language for the user interface in this drop-down.

##### Language Support – TruVision Navigator supports the following languages in the Installer and GUI:

###### Arabic

###### Chinese (Simplified and Traditional)

###### Czech

###### Danish

###### Dutch

###### English

###### Finnish

###### French

###### German

###### Hungarian

###### Italian

###### Lithuanian

###### Polish

###### Portuguese

###### Brazilian Portuguese

###### Russian

###### Slovak

###### Spanish

###### Swedish

###### Turkish

##### Navigator automatically reads the computer’s language setting to determine what language to display.

##### Navigator defaults to English for all languages not currently supported.

#### Units – Select Imperial or Metric units of measure.

### Server tab

#### Simple Mail Transfer Protocol (SMTP) Setup

##### TruVision Navigator Server can be configured to use an SMTP server to:

###### Send automated email messages with Client Download URL, User Name, and Password to users when they are created.

###### Send automated email messages when a user’s login credentials (User Name, Password) need to be reset in the system by an administrator.

###### Send automated email messages upon receipt of notifications or health diagnostics from devices.

###### Change the default sender name for SMTP setup emails.

#### Permission Model

##### Simple

###### The ability to create, edit, and delete users and their corresponding permissions.

##### Advanced

###### The ability to create, edit, and delete both users and groups.

###### Groups permit the scaling of user permissions in the system across many users.

#### Authentication Complexity

##### Low

###### Max Login Failure Attempts is not restricted.

###### Username Complexity is at least six (6) characters.

###### Password Complexity is at least six (6) characters.

###### Password Reuse is not restricted.

###### Password Expiration is not restricted.

##### Medium

###### Max Login Failure Attempts is three.

###### Username Complexity is at least six characters.

###### Password Complexity is at least eight alphanumeric characters.

###### Password Reuse is not restricted.

###### Password Expiration is not restricted.

##### High

###### Max Login Failure Attempts is three.

###### Username Complexity is at least 12 characters.

###### Password Complexity is at least eight characters with at least:

###### One upper-case letter

###### One lower-case letter

###### One numeric

###### One special character (~, !, @, #, $, %, ^, &, +, =)

##### Password Reuse is the user cannot use the last three passwords.

##### Password Expiration is the user must change the password every sixty (60) days.

#### Disable Devices Offline Check

##### The ability to check if recorders are offline. If selected, no notifications will be received.

#### Instant Replay

##### The ability to rewind selected video by a user-defined, pre-configured amount of time (99 minutes and 59 seconds maximum).

#### Custom Help

##### The ability to add a link in the Help Panel to direct users to an organization’s own custom content.

#### Database Backup and Restore

##### The ability to back up the TruVision Navigator Database and move it off-machine for safekeeping.

##### The ability to restore the database with the backup file to bring a system back into operation.

#### Server URL

##### The Server URL is the network location of the TruVision Navigator Server. This is the URL that TruVision Navigator clients use to locate/communicate with the Navigator database.

#### Client URL

##### Administrators can deliver this URL to new users in order to download the client software remotely.

#### Export Navigator Data

##### The ability to export an existing TruVision Navigator address book instantly.

#### Import Navigator Data

##### The ability to import an existing WaveReader, SymNav, or TruVision Navigator address book instantly.

#### LDAP Servers

##### Add or remove LDAP servers

### Notifications tab

#### Enable the ports for the Notification Processor Service to capture the pushed notifications from TruVision recorders.

#### The ability to remove notification data out of the database to maintain proper size.

#### The ability to email users upon receipt of notifications.

### Health Diagnostic Polling

#### Enable the ports for the Diagnostic Polling Service to obtain health diagnostic information from each of the devices.

#### This service can be configured to run on a user-defined interval.

#### The ability to remove health diagnostic polling data out of the database to maintain proper size.

#### The ability to email users upon receipt of diagnostics.

### Groups and Users tab

#### Administrators have the ability to create users and groups and assign permissions to users and groups for devices in the system. They also have the ability to immediately lock out individual users.

#### Users and groups can also be inactivated or restored with minimal mouse clicks.

#### Permissions include:

##### Configure Server

##### Manage User Permissions

##### Manage Device Folders

##### Manage Devices

##### Manage Decoders

##### View Device Diagnostics

##### View Notifications

##### Acknowledge Notifications

##### Pan Tilt Zoom

##### Watch Live Video

##### Watch Playback Video

##### Watch Hi Bandwidth Video

##### Export Video

##### View Disk Analysis

##### Manage and view Maps

### Audit history tab – View, filter, and export all user activity within TruVision Navigator.

### Logical event filtering tab

#### Ability to create custom notifications from a series of interdependent events occurring across cameras, access control systems, and intrusion control panels.

#### The logical event filtering notification can be titled and a notification timespan can be set.

#### Camera events that can be added to a notification include:

##### Alarm

##### Motion

##### Videoloss

##### Object Counting

##### VCA alarms which include:

###### Cross Line

###### Intrusion Detection

###### Audio Exception Detection

###### Face Detection

###### Defocus Detection

###### Scene Change Detection

###### Region Enter

###### Region Exit

###### Unattended Baggage

###### Object Removal

#### Access control events that can be added to a notification include:

##### Door Locked

##### Door locked Out

##### Door Offline

##### Door Tampered

##### Door Tampered Reader

##### Door Unlocked

#### Intrusion control panel events that can be added to a notification include:

##### Intrusion Panel Away

##### Intrusion Panel Stay

##### Intrusion Panel Disarmed

##### Intrusion Panel Tripped

## Updates

### The Check for Updates... window shows the following information:

#### Latest downloaded version of the TruNav player.

#### Latest language pack available.

#### Other required updates as needed.

## Help Dialog

### Easy-to-use and detailed user manual.

### Software version information.

### Copyright information.

### End User License Agreement.

### A Custom Help link for user-defined content to aid in adoption of the product.

## Notifier

### Displays events in real time as they occur.

### Clicking on events will open a video window.

## Event Center Dialog

### Event Center permits the collection and viewing of the notifications or alerts sent from the devices.

#### Ability to select the alert in the Event Center and view the video results in the Viewer Panel.

#### These alerts vary according to the device, and may include:

##### Alarm

##### Video Loss

##### Motion

##### Fan Failed

##### Disk Failed

##### User Locked at Device

##### Video Erased

##### Disk Full

##### Device Powered Up

##### VCA Alarms

##### Intrusion Alarm

##### Illegal Access

##### Logical Event Filtering

##### Access Control

##### Object Counting

##### Device Online

##### Device Offline

## System indicators

### Server online/offline icon

#### The Navigator client can still operate in a client/server configuration when the server is offline. However, some configuration options are not available in server offline mode.

#### Green server icon indicates server is online.

#### Red server icon indicates server is offline.

#### Both server states are also indicated by a pop-up screen during Navigator startup.

### Joystick icon

#### Appearance of joystick icon without the no symbol indicates that the joystick is connected.

#### Appearance of joystick icon with the no symbol indicates that the joystick is not connected.

### CPU usage meter

#### Move the mouse pointer over the meter to see the percentage of CPU in current use.

### Memory usage meter

#### Move the mouse pointer over the meter to see the amount of memory in current use.

# Server Offline Mode

## The Navigator client can still operate in a client/server configuration when the server is offline. However, some configuration options are not available in server offline mode.

### A dialog appears when starting Navigator with the server offline.

### Server offline mode is indicated by the icon next to Admin in the Navigator screen.

### The Notifier is empty and notifications do not appear when in server offline mode.

# Compatible USB Keypads/Joystick

## The Interlogix TVK-400USB keypad provides an alternate method of navigating the TruVision Navigator user interface. A higher level of usability and control can be achieved by connecting these devices and using them with the Navigator client.

### The keypad/joystick must be connected to the client machine’s USB port before launching the Navigator client.

### The keypad/joystick driver is installed automatically the first time the device is connected.

### A successful connection of the keypad/joystick is indicated by the joystick icon appearing in the bottom right of the Navigator screen.

28 30 00 Security Detection, Alarm, and Monitoring

28 31 31 Intrusion Detection Interfaces

28 31 31.15 Intrusion Detection Interfaces to Video Surveillance

# Intrusion Areas

## Intrusion areas monitored by a supported Interlogix intrusion control panel, as defined on a map, appear in the Navigator panel.

## Intrusion area icons in the Navigator panel, and the border of intrusion areas on a map, appear as gray if disarmed, yellow if armed in stay mode, and red if armed in Away mode.

## When configuring intrusion areas in a map, linked cameras can be added to the areas using the context menu.

## Intrusion areas can be armed or disarmed in the Navigator panel, or via a map in the Viewer panel.

# Intrusion Sensors

## Intrusion sensors appear as blue icons on a map.

## Sensors indicate the opened/closed state of a door or window. For motion sensors, they appear as “opened” when motion is being sensed.

## When configuring sensors in a map, linked cameras can be added to the sensors using the context menu.

## The following context menu for sensors can be accessed from a map in the Viewer panel:

### Bypass – Permits arming the panel while ignoring this sensor.

Contacting Support

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