







TruVision Recorder Operator Guide

Live view

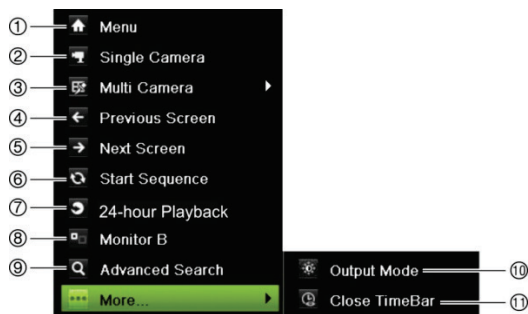
In the viewer you can see displayed on the live image the current date and time, camera name, and whether a recording is in progress.

Information on the system and camera status is displayed as icons on the main and event monitors. The camera status icons are shown for each camera. Each icon represents information on a specific item. These icons include:

Icon	Description
	A sensor alarm.
	Recording is in progress (such as manual recording, motion detection, or alarm-triggered recording).
	A motion detection event.
Blank screen	A video loss event.
	Alarm and system notifications. Click the icon to open a screen with a list of the notifications.
	Manual recording.
	Live view is locked from the front panel. Mouse actions are still allowed. Note: Not available on all recorders.

Controlling live view mode

Right-click the mouse on a live image to display the mouse menu:



Name	Description
1. Menu	Enter the Main menu.
2. Single Camera	Switch to a full-screen view for the selected camera from the dropdown list.
3. Multi Camera	Switch between the different multiview options from the dropdown list.
4. Previous Screen	Displays the previous camera screen.
5. Next Screen	Displays the next camera screen.
6. Start Sequence	Turn on sequence mode. The screen automatically sequences between cameras. Go to Menu > Display Settings > Layout > Sequence Dwell Time to set up.
7. Monitor B	Switch between monitors. Note: Not available on all recorders.
8. 24-hour Playback	Playback the recorded video of the current day from the selected camera.

Name	Description
9. Advanced Search	Enter the advanced video search menu. See "Searching recorded video" on page 3 for more information.
10. Output Mode	Select Standard, Bright, Soft, or Vivid mode to display.
11. Close Timebar	Open/close the time bar.

Login screen













For most recorder functions (such as playback, menu access, taking snapshots, etc.), you need to log in with a valid user account and password provided by your administrator.


Live view toolbar

Use the live view toolbar in live view to quickly access regularly used commands. Position the cursor over a live image and left-click the mouse. The toolbar appears:

Note: Not all commands listed below are available on all recorders.



Icon	Description
	Pause: Freeze the live image of the selected camera. Although the image pauses, time and date information does not.
	Manual Recording: Start/stop manual recording. The icon is red when manual recording is enabled.
	Instant Playback: Playback the recorded video from the last five minutes (default time). If no recording is found, then there was no recording made. Click the icon and select the desired camera. Click OK.
	Audio: Enable/Disable audio output. The audio option must already have been setup in the Display menu.
	Capture: Capture a snapshot of a video image. The image is saved on the unit.
	PTZ Control: Enter PTZ control mode.
	Digital Zoom: Enter digital zoom.
	Image Settings: Enter the Image Settings menu to modify the image lighting levels. There are two options: Customize: Modify brightness, contrast, saturation, and hue values. Default: Restore image settings to previous values. These settings can also be modified from the Camera > Image menu.
	Text insertion: Display inserted text on screen. Note: Not available on all recorders.
	Auxiliary Focus: Automatically focus the camera lens for the sharpest picture. Note: Not available on all recorders.
	Lens Initialization: Initialize the lens of a camera with a motorized lens, such as PTZ or IP cameras. This function helps to maintain lens focus accuracy over prolong periods of time. Note: Not available on all recorders.
	Stream Information: Display the real-time frame rate, bit rate, resolution and video compression. Note: Not available on all recorders.

Icon	Description
	Close Toolbar: Close the shortcut toolbar.

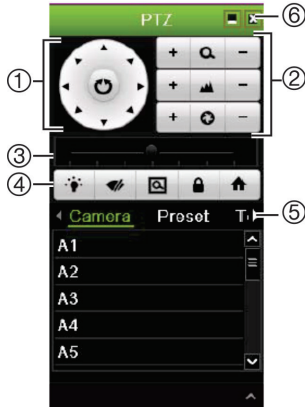
Some of the functions can only be accessed after entering a valid user name and password.






Controlling a PTZ camera

Left-click the mouse on the desired camera image to call-up the Quick Access toolbar. Click the PTZ control icon in the toolbar to enter the PTZ mode.

If the display is in multiview format, it changes to full screen format for the selected camera.

PTZ control panel



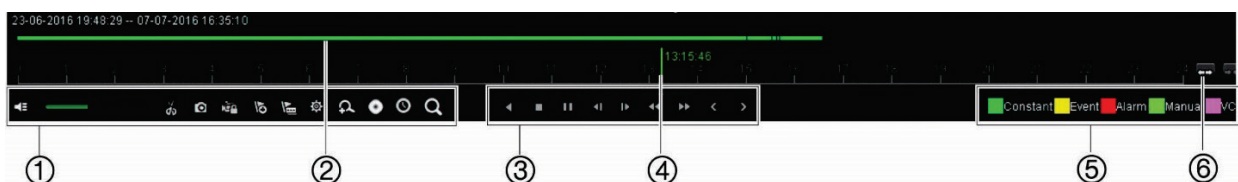
Name	Description
1. Directional pad/auto-scan buttons	Controls the movements and directions of the PTZ. Center button is used to start auto-pan by the PTZ dome camera.
2. Zoom, focus, and iris	Adjusts zoom, focus, and iris.
3. PTZ movement	Adjusts the speed of PTZ movement.
4. Toolbar	<ul style="list-style-type: none">  Turns on/off camera light. This command is not supported on all PTZ cameras.  Turns on/off camera wiper. This command is not supported on all PTZ cameras.  Zoom area  Centers the PTZ dome camera image. This command is not supported on all PTZ cameras.  Jumps to the home position.
5. Select PTZ command	Displays the desired function from the scroll bar: camera, preset, preset tour or shadow tour.
6. Exit	Exits the PTZ control panel.

Playback

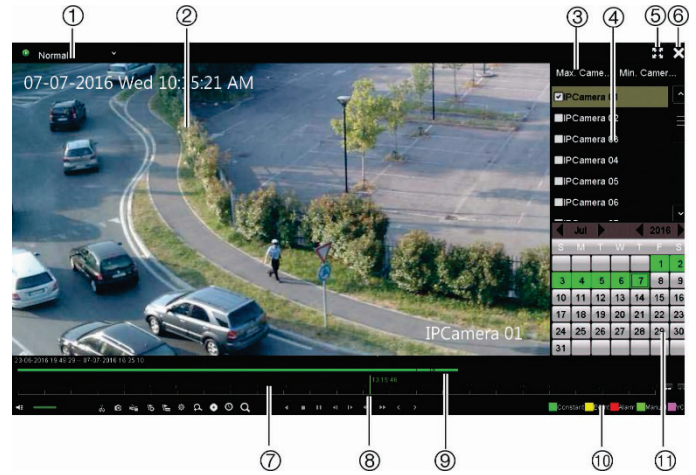
There are four ways to play back video:

- Instant playback of the most recently recorded video
- 24-hour playback of the day's recorded video (This function is called "All-day Playback" on some recorders)
- Search the video archives by specific time, date, bookmark, snapshot, or event
- Search the system log

Figure 1: Playback control toolbar












Playback window (24-hour playback shown)














1. **Playback mode:** Select one of seven playback modes to view: Normal, Event, Bookmark, Smart, Sub-periods, External File, or Snapshot.
Note: Not available on all recorders.
2. Playback viewer.
3. Quickly select a camera.
Note: Not available on all recorders.
4. **Camera panel:** Select the cameras for playback. Move the mouse over the area to display the list of cameras available.
5. Full screen.
6. Exit playback
7. **Playback control toolbar** (see below for more information).
8. **Time line:** Time of actual playback. This is only displayed in 24-hour playback.
9. **Playback progress bar:** This bar displays how much of the 24-hour period has been recorded. Its color depends on the recording type.
10. **Recording type:** Description of the color coding of the recording types that appear in the playback progress bar.
11. **Calendar panel.** Blue: Current date. Green/Yellow/Red: Recordings available on the recorder.

Playback control toolbar

See Figure 1 below.


Icon	Description
	Audio on/off.
	Start/stop a video clip during playback. Sections of a recording can be saved to an external storage device.
	Quick snapshot. Click to take a snapshot of the recording (depends on recorder model)
	Lock a file during playback.
	Add default bookmark.
	Add customized bookmark.
	Bookmark management. Click to see the list of bookmarks and their times.
	Digital zoom. Zoom in to a selected part of the video image. This option may not be available on all recorders.
	Archive files.

Description	
	Modify the forward and reverse skip times.
	Call up the Search window to search for recorded video files by time & date, events, bookmarks, and snapshots.
2.	Playback bar: This bar displays how far playback of the recording has progressed. It also indicates the type of recording.
3.	Playback control toolbar.
	Reverse play the recording. Click again to pause.
	Stop playback. Timeline jumps back to 00:00 time (midnight).
	Play or pause recording.
	Reverse playback by the configured skip time (default is 30 seconds)
	Fast forward playback by the configured skip time (default is 30 seconds).
	Decrease playback speed. Options available are: 1/2 speed, 1/4 speed, 1/8 speed, single frame.
	Increase playback speed. Options available are: 2X speed, 4X speed, 8X speed, 32X speed.
	Previous file/day/event recording.
	Play next file/day recording in the search result.
4.	Timeline: Allows you to jump forwards or backwards in time. The timeline moves left (oldest video) to right (newest video). Click a location on it for where you want playback to start. In all-day playback the cursor shows the actual time. In search playback, the cursor is a ball.
5.	Recording type: Description of the color coding of recording types that appear in the playback progress bar. Green indicates continuous recording. Red indicates alarm/event recording. Yellow indicates motion recording. Pale green indicates manual recording. Pale blue indicates TextIn recording (depends on recorder model). Magenta indicates VCA recording (depends on recorder model).
6.	Zoom in and out of the recording.

Instant playback

Use the quick access toolbar to quickly replay recorded video from the last five minutes. Only one camera at a time can be selected. The default playback period of 5 minutes cannot be changed.

To instantly replay recorded video:

1. In live view, left-click the mouse on the desired camera image. The quick access toolbar appears. Click **Instant Playback** .

Playback starts immediately. The Instant Playback scroll bar appears under the selected camera.

2. Click **Pause**  on the toolbar to pause playback.

Click **Play**  or click on the start of the bar to restart playback.

Click **Stop**  to stop playback and return to live view.

24-hour playback

Use this option to play back recorded video from the last day. Playback starts at midnight and runs for the 24-hour period. 24-hour playback is shown in full screen view.

Note: This option is called "All-day Playback" on some recorders.

To play back video from the 24 hours:

1. In live view mode right-click the mouse on the desired camera image. Click **24-hour Playback** in the mouse menu.

The playback window appears. By default, the camera is in full-screen mode.

2. To select more than one camera for multiview playback or to select playback from a different day, move the mouse to the right edge of the screen. The camera/calendar panel appears. Check the desired cameras and/or another day.

Playback starts immediately.

Note: A message appears if there are no recordings found during this period.

3. Use the playback control toolbar to manually control playback.

4. Click **Exit**  to return to live view.

– Or –

Right-click the mouse and click **Exit** in the mouse menu to return to the previous screen.

Searching recorded video

1. In live view, right-click the mouse and select **Advanced Search** from the menu.


– Or –

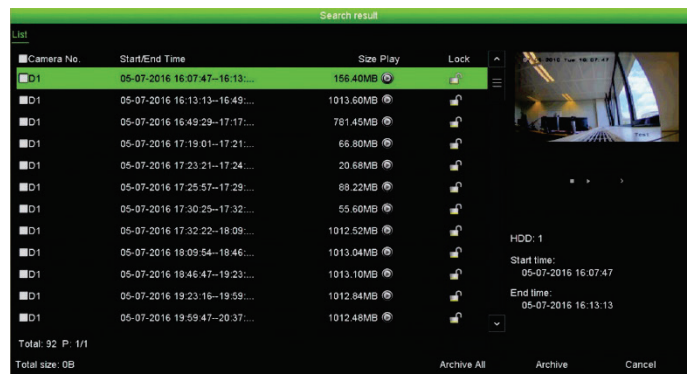
Press the **Search** button on the front panel.

2. In the **Search** menu, select one of the following search types:

Time & Date:	Search all recorded video by selected cameras, recording type, type of file protection (locked or unlocked), and time period.
Event:	Search only event recorded video. Files can be searched by alarm inputs, motion detection, VCA alarms, or intrusion alarm detection (depends on recorder model). Note: Only motion detection that has been recorded as events will be listed in this search. Motion that has been recorded as a non-event can be searched under the Normal menu.
Bookmark:	Search selected cameras only for recorded video with bookmarks.
Snapshot:	Search selected cameras only for recorded video with snapshots.

Search results

A search will usually produce a list of files. The files are listed by camera, and then for each camera by date and time. The most recent file is listed first. Only one file can be played at a time. Click  of a selected file to play it back.



The screenshot shows a 'Search result' window with a table of files. The table has columns: Camera No., Start/End Time, Size, Play, and Lock. The first row is selected and highlighted in green. To the right of the table, there is a preview of the video content and some metadata like 'HDD: 1', 'Start time: 05-07-2016 16:07:47', and 'End time: 05-07-2016 16:13:13'. At the bottom, there are buttons for 'Archive All', 'Archive', and 'Cancel'.

Archiving recorded files

There are two ways to archive files:

- **Quick Archive:** Press the Archive button on the front panel to archive recorded files quickly. The recorder downloads all the recorded files on the unit to fill the available memory space on the media. This option is not available via the mouse.
- **Advanced Search:** You can specify archiving settings such as a specific time and date period, recording type, start and end times, as well as cameras.

Quick Archive

To archive recorded video using Quick Archive:

1. Insert the backup device into the recorder.

If using a USB memory drive, insert the device into the USB port on the front panel.

Depending on the recorder model, if using a digital video disk (DVD) or eSATA drive, insert the disc into the DVD drive. If more than one media type is found in the recorder, the USB device takes precedence over the others.

- Press the **Archive** button on the front panel to open the quick archive screen.
- Click **Start**. The unit starts to download all the files listed.

Note: If there is a capacity limitation on the backup device, only the most recent files will be backed up.

A message will appear to confirm when the download is complete.

Archiving via Advanced Search

To archive recorded video using **Advanced Search**:

- Connect the backup device to the recorder.
If using a USB memory drive, insert the device into the USB port on the front panel. If using a digital video disk (DVD) or eSATA drive, insert the disc into the DVD drive. If both media are found in the recorder, the USB device takes precedence over the DVD.
- In live view mode, press the **Search** button on the front panel.
- Or -
Right-click the mouse and select **Advanced Search**.
The Advanced Search screen appears.
- Select the cameras and search parameters required.
Record type: All, Constant, Motion, Text Insertion, Manual, VCA or Alarm. (Options listed depend on the recorder model).
File type: All, locked, or unlocked.
- Select the desired start and end times and dates for the recordings.
- Click **Search**. The list of results appears.
- Select the files to export.
Note: You can click the **Play** button to verify that the selected files are the files to export.
- Click **Archive**. The Archive screen appears.
- Select the storage medium to export to from the drop-down list.
- Click **Archive** to begin the backup process of the selected files.
- Or -
Click **Archive All** to begin the backup process of the all the files.
- Click **OK** when archiving is completed. Click **Cancel** until you return to live view.

Using the web browser

All recorders support Microsoft Internet Explorer. Some recorder models also support Google Chrome, Apple Safari and Mozilla Firefox. More information can be found in the recorder's user manual.

To access the recorder, open the Internet Explorer web browser and enter the IP address assigned to the recorder as a web address. On the logon screen, enter your user ID and password.

Note: Only one recorder can be viewed per browser.

The default values for the network settings are:

- IP address - 192.168.1.82
- Subnet mask - 255.255.255.0
- Gateway address - 192.168.1.1
- Ports:

When using the browser:

RTSP port: 554

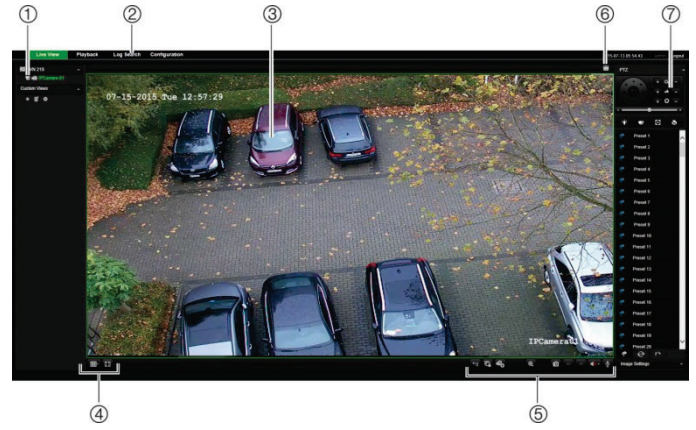
HTTP port: 80

When using TruNav:

RTSP port: 554

Server/Client software port: 8000

Web browser overview



Name	Description
1. Camera	View Video and record video from the selected camera.
2. Menu toolbar	Lets you do the following: <ul style="list-style-type: none"> View live video Play back video Search for event logs Configure settings Log out of the interface
3. Viewer	View live or playback video.
4. Display format	Define how you want video to be displayed in the viewer: Multiview or full screen.
5. Video function toolbar	Lets you do the following in live view: <ul style="list-style-type: none"> Switch between mainstream and substream. Start/stop all streaming from selected cameras. Start/stop recording from selected cameras. Zoom in/out. Take a video snapshot. View previous and next camera respectively. If viewing in multiview format, live view moves to the next group of cameras for the selected number of video tiles. Turn audio on/off. Turn microphone on/off.
6. Alarm Trigger Output	Turn Alarm Output on/off (depends on recorder model)
7. PTZ panel	Hide/display the PTZ panel.

Legal and contact information

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