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Quick Reference Guide for QV Series DVRs

Introduction

This document contains captured screen images of the most important DVR menus with diagrammed commentary on all the major settings and menu functions. While this is admittedly an incomplete document that is not intended to replace the 140 page user manual, an earnest effort is made to guide the user through the most common setup and day to day operations. This is done through a straight forward, plain language beginning with an overview paragraph. The big picture of what the menu does, and if applicable, a general procedure of steps usually after entering the menu. Not only are settings and icons explained, but often concise practical information is added about how to access related menus or further implications of the setting.

Not every icon, checkbox, and drop-down menu is covered--only those that the author feels are important based his own experience using the DVR in a typical installation. Other menus and settings are skipped because it is assumed that their operation is intuitive enough for the average user to figure out on their own.

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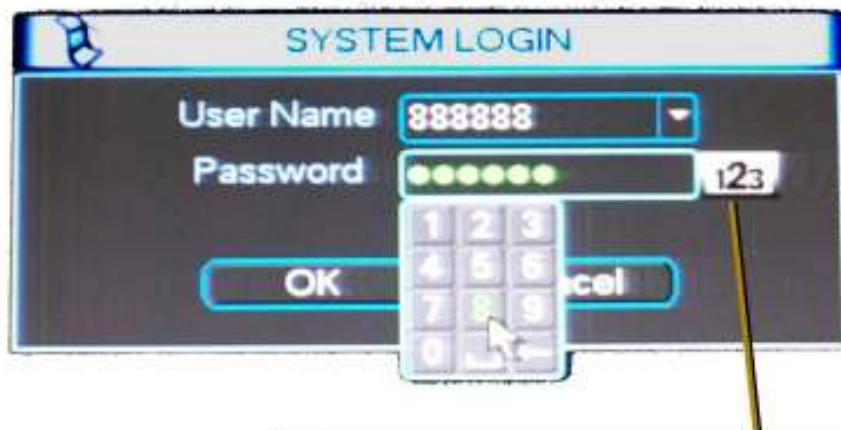
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Logging On To the DVR

To enter the DVR menu system and make changes, you must log in as a user with administrative privileges. There are two built-in default accounts to do this (shown w/ default passwords):

888888 / pw: 888888
admin / pw: admin

For speed and ease-of-use, it is highly recommended that the mouse be used instead of the IR remote to navigate the menu system and make changes.



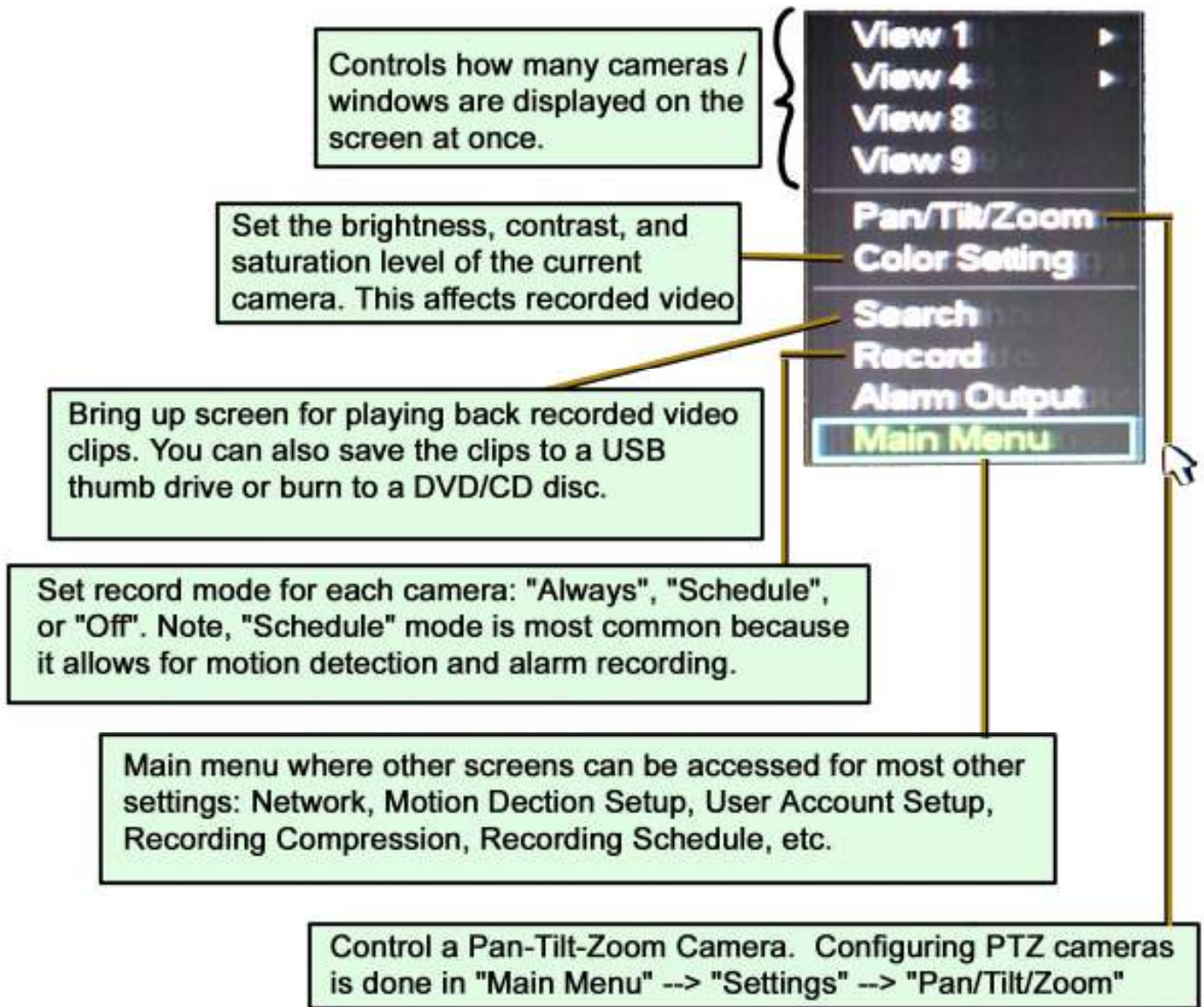
Click here to toggle between entering lower case letters, numerals, upper case letters, and special characters.

The default setting for the DVR is to log a user off after a set period of inactivity, requiring the user to re-log back in. This setting is under "General Settings." An inactivity period of 0 minutes will keep users logged on for an indefinite amount of time.

Access the Advanced Menu (from the Main Menu) to add user accounts and change passwords. Hard disk management (formatting), auto maintenance, and alarm output settings can also be accessed from the Advanced Menu.

Accessing Top Level Menus

To access top level menus, click the RIGHT mouse button on any camera window. Below is the pop up menu that allows access to these menus:



Record Menu

Below is the Record Menu which can be accessed by selecting "Record" after Right-Clicking the mouse on any camera window. This menu dictates the highest level of recording control logic for each camera.

Recording mode is defined by time periods set in the Schedule Menu. One or multiple time periods can dictate recording based on alarm sensor input, motion detection, or constant recording for the entire time period. The Schedule menu is accessed from the Settings Menu.

Camera
Number

The screenshot shows a 'MANUAL RECORD' dialog box. It has a title bar with a logo on the left and the text 'MANUAL RECORD' in the center. Below the title bar, there are three rows of controls. The first row is 'Record Mode' with a radio button labeled 'All' and a row of eight numbered radio buttons (1-8). The second row is 'Schedule' with a radio button and eight radio buttons. The third row is 'Manual' with a radio button and eight radio buttons. The fourth row is 'Stop' with a radio button and eight radio buttons. At the bottom, there are two buttons: 'OK' and 'Cancel'. A box labeled 'Camera Number' points to the numbered radio buttons. A box points to the 'Record Mode' radio button. Another box points to the 'Manual' radio button. A fourth box points to the 'Stop' radio button.

Record Mode	All	1	2	3	4	5	6	7	8
Schedule	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manual	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stop	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

No recording will occur for checked cameras.

Check these radio buttons to turn on recording for a camera indefinitely. Recording will be continuous until it is changed again from this menu. Note that the recording will be broken into video clips of a time length dictated by the "Pack Duration" setting (in minutes) found in the General Menu. This is done to keep video clip file sizes manageable.

Main Menu

Below is the Main Main. For most users most of the time, the only screens accessed from here are "Setting" and "Advanced". The other options are generally not used or access from the initial right-click pop-up menu.

Bring up screen for playing back recorded video clips. You can also save the clips to a USB thumb drive or burn to a DVD/CD disc.

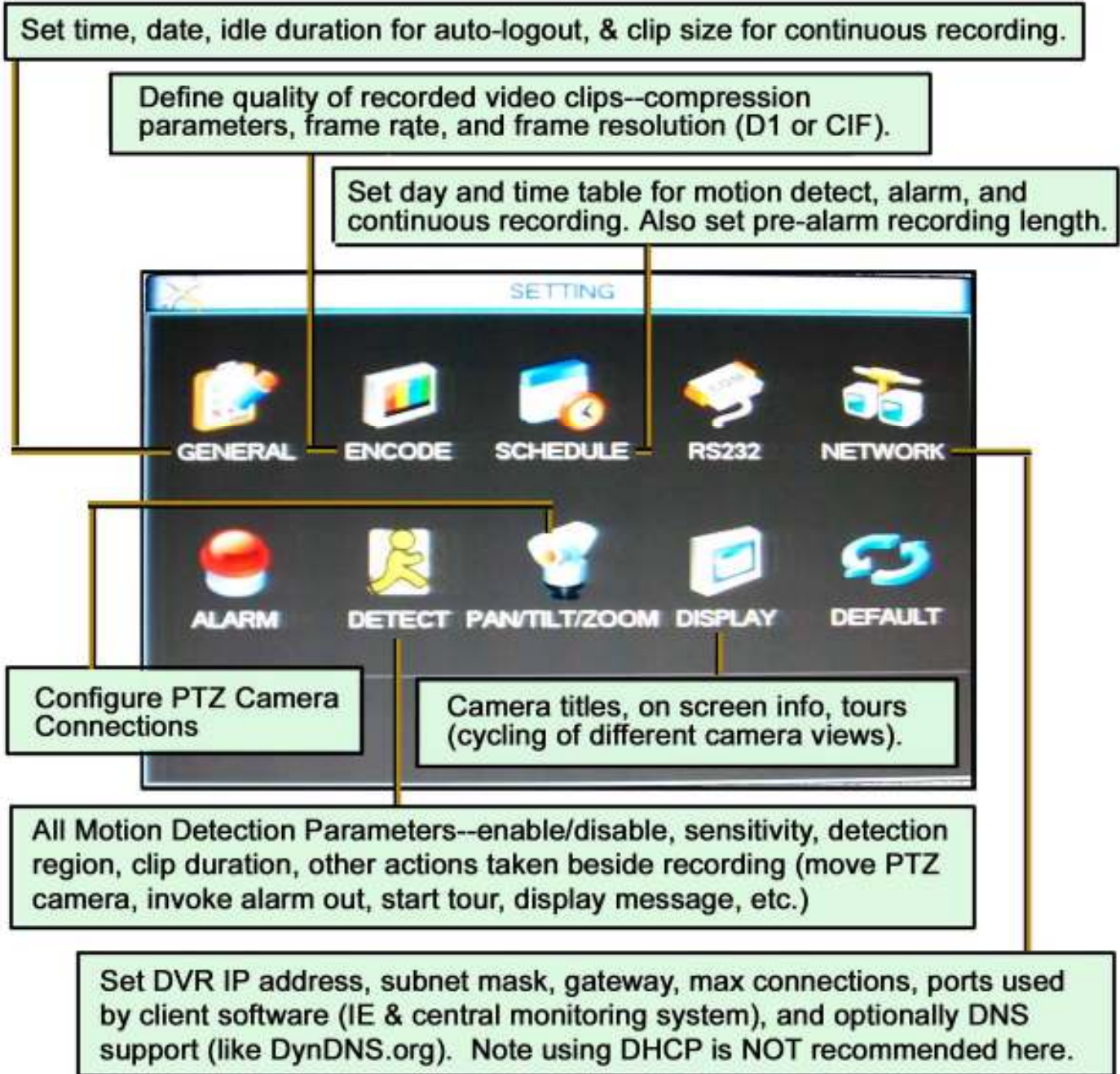


Some "Advanced" functions: Change passwords, add users and their rights, reformat hard disk, set "auto maintenance / reboot" time.

This is where most of the important setup screens are accessed: Motion detection setup, video record parameters (resolution, compression, and frame rate). "Network" and "General" screens are also accessed here along with "Schedule" and "Display" (setting up camera titles, on screen info).

Settings Menu

Below is the "Setting" menu which is accessed from the "Main" menu. Here is where almost all the important settings are that pertain to how video is recorded. Other important DVR configuration screens are accessed here too.



Encode (video clips)

The Encode screen allows changing the settings of how recorded video clips are made. Keep in mind that while higher bit rates, frame rates, and resolution (D1 vs CIF) take more disc storage space, they also increase video quality. Higher frame rates show objects move more smoothly. Higher compression and resolution yield images that show more detail. Note that the author has found it hard to notice increases in video quality as bit rates increase much beyond 1000 Kb/S—even though storage rates increase. Experimentation with these parameters is encouraged. Be sure your tests include the recording of moving objects.

The screenshot shows the 'ENCODE' settings window with the following fields and callouts:

- Channel:** 1 (Callout: Select camera channel or "All" for all cameras at once.)
- Compression:** H.264 (Callout: Keep set to H.264)
- Resolution:** D1 (Callout: Keep at D1 for highest possible resolution (4 times CIF))
- Frame Rate(FPS):** 15 (Callout: Set to highest frame rate available with D1 resolution selected.)
- Bit Rate Type:** CBR (Callout: Keep set to CBR (Constant Bit Rate))
- Bit Rate(Kb/S):** 896 (Callout: Keep near in the range of 800 to 1200 Kb/s (kilo-bytes per second).)
- Reference Bit Rate:** 792-1112Kb/S
- Audio:** (Callout: Check this box if a microphone is attached.)
- OVERLAY:** (Callout: Configure what types of on screen info gets overlayed onto clips.)

Buttons at the bottom: Copy, Paste, Default, Save, Cancel.

Detect (Motion Detection Setup)

The Detect menu is where one can enable and setup Motion Detection recording. The general procedure is to select a camera ("Channel"), then set the sensitivity, minimum clip length, and additional cameras (if any) to be recorded. Areas where motion is not detected in the camera scene can also be masked out here. Lastly, other events can also be triggered such as moving a PTZ camera or tripping an alarm out circuit. Note that for motion detection recording to take place, the camera has to be set to "Schedule" in the Record Mode menu and Motion Detection has to be assigned to a time period in the Schedule Menu.

The screenshot shows the 'DETECT' configuration window with the following settings and callouts:

- Event Type:** Motion Detect (dropdown)
- Channel:** 1 (dropdown)
- Enable:** (checkbox)
- Region:** Select (button)
- Sensitivity:** 2 (dropdown)
- Period:** Set (button)
- Anti-dither:** 0 sec. (input)
- Latch:** 15 sec. (input)
- Send Email:** (checkbox)
- Record Channel:** 2 3 4 5 6 7 8 (checkboxes)
- PTZ Activation:** Select (button)
- Delay:** 10 sec. (input)
- Tour:** 1 2 3 4 5 6 7 8 (checkboxes)
- Buttons:** Copy, Paste, Default, Save, Cancel

Callout boxes provide the following instructions:

- Click here to define which areas of the scene detect motion. Note, areas shaded in red indicate where motion is active.
- Select camera channel, selecting "All" is not recommended.
- 1 = Minimum Sensitivity
6 = Maximum Sensitivity
- Enable / Disable Motion Detection
- Use the Schedule Menu instead of this one to define active time period.
- Other events that can be triggered upon motion detection
- Define which cameras are recorded when motion is detected.
- Click Save after all cameras have been setup.
- Use these buttons to copy the current settings to another camera channel.
- Set the amount of time to record after motion is detected. Note, set "PreRecord" length in the Schedule menu for video that is prepended to clip prior to motion.

Search (Playing Back Recorded Clips)

The search screen is used to access the database of recorded clips and play them back. One or two cameras can be played simultaneously. This screen also has an icon one can click to save/backup selected clips to the DVD/CD burner or an external USB storage device.

The general procedure is: 1) Select date & time to start search 2) Select cameras using 2 pull-down menus 3) Click on the search icon (magnifying glass), 4) Playback desired clips by double-clicking them in the column on the right. 5) Optionally, clips can be saved to external media by checking to box to the left of the clip and then clicking the disc icon (left of the magnifying glass toward the lower-right).

Double-Click on a clip to start playback

Double Click windows to toggle through full screen modes.

These two tabs hold lists of clips corresponding to the two cameras selected here

Click this clock icon to bring up a calendar to select the specific day to be searched. Days with recorded video will be colored blue.

Check these boxes to select clips for backup to DVD burner or external USB device (like a thumb drive).

Filter for clip type (M=motion, A=Alarm, R=Regular/Continuous)

Info for the currently selected clip (highlighted above)

Click this icon to save clips to DVD-R or USB thumb drive.

Click/make this icon green for automatic playback of next clip. After the last clip has played, playback will continue with oldest clip available for the current camera.

Click this magnifying glass to load clips corresponding to the selected date, time, cameras, and clip type.

Playback Control

Date and time of earliest clip to be listed. These can be edited with the mouse.

1p	2p
StartTime	Type
12:01:37PM	M
12:02:29PM	A
12:10:37PM	A
12:12:03PM	A
12:13:15PM	A
12:13:44PM	A
12:18:35PM	M
12:19:07PM	M
12:22:28PM	M
12:25:33PM	A
12:27:48PM	M
12:30:02PM	A
12:32:42PM	A
12:34:36PM	A
12:35:56PM	A
12:37:19PM	A
12:39:20PM	A
12:39:56PM	A

Start Time
09/10/28 12:39:20PM
End Time
09/10/28 12:39:30PM
Size(KB)
1899

2009/10/28 12:00:00 PM All 5