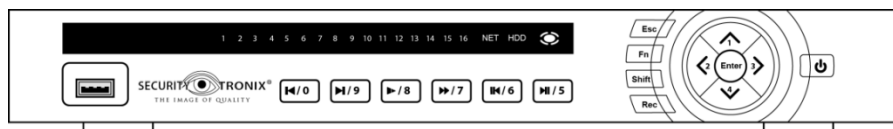




HD-COAXINATOR™

Professional Digital Video Recorders



ST-HD-CVR4/8/16CH-V2

QUICK START GUIDE



www.nacebrands.com www.securitytronix.com



Thank you for your purchase of this SecurityTronix HD-COAXINATOR™ Video Recover (CVR). This Quick Start Guide covers the most essential information for getting the CVR up and running. For more in-depth information on the CVR's functions the full manual is available in PDF format at:

<http://www.securitytronix.com/products>

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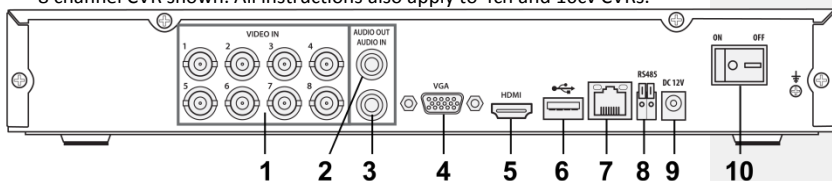
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Getting Started

MAKING CONNECTIONS

8 channel CVR shown. All instructions also apply to 4ch and 16cv CVRs.



1. Connect the coaxial video lines from HD-COAXINATOR® or other HD-CVI cameras to the BNC video inputs on the back of the CVR. (#1 in the image above)
2. Connect a monitor to the CVR using either the VGA port (#4 in the image above) or the HDMI port (#5 in the image above) and the appropriate cable.
3. Connect the included USB mouse to the rear USB port of the CVR. (#6 in the image above)
4. Connect the included 12VDC power supply's AC plug into an appropriate AC power outlet which supplies between 110 and 120 volts AC. Then plug the power supply's DC connector into the CVR's DC power input port. (#9 in the image above)

NOTE: An uninterruptable power supply is recommended for the CVR and any power supplies for the cameras, both to protect against damage from sudden power loss, and to maintain video surveillance in the event of a power outage.

5. (Optional) If remote viewing is desired, connect a network cable to the Ethernet port on the back of the CVR. (#7 in the image above)

POWERING ON and SHUTTING DOWN

POWERING ON

Once all necessary connections to your CVR are made, toggle the power switch on the back of the CVR to the **ON** position. (#10 in the image on the previous page)

If the CVR does not automatically start, press the  button on the front panel of the CVR.

The **POWER** indicator light will be displayed on the CVR's front panel. It is normal for the CVR to sound a beep during startup.

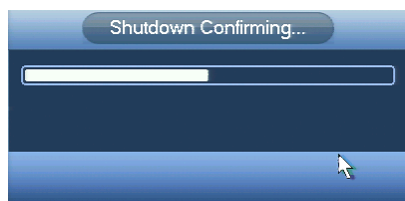
SHUTTING DOWN

In the event that the CVR needs to be powered down, perform one of the following to ensure a safe shutdown:

1. Enter the **MAIN MENU** (see page 5), select **SHUTDOWN** in the **OPERATION** section, then select **SHUTDOWN** from the popup window.



2. Alternately, press and hold the  button on the front panel of the CVR. The screen will show a progress bar for shutdown.



Continue holding the  button until the progress bar fills and the CVR shuts off.

NOTE: In rare cases it may be necessary to remove power to the CVR by disconnecting the power supply. However, this should be avoided if possible, as doing removing power without properly shutting down the CVR may corrupt and/or damage the hard drive. Only remove power from the CVR if it will not respond to a shutdown through the methods described.

FIRST STARTUP

The first time that your CVR is powered on, it will perform necessary functions, such as preparing an unformatted hard drive for recording, and it will display the **STARTUP WIZARD**. It is recommended that you follow the steps of the in the popup window to simplify the CVR's initial setup.



The **STARTUP WIZARD** will take you through:

- General Settings (more on page 7)
- Encode (Quality) Settings (more on page 10)
- Recording Schedule (more on page 12)
- Record Modes (more on page 14)
- Network Settings (more on page 21)

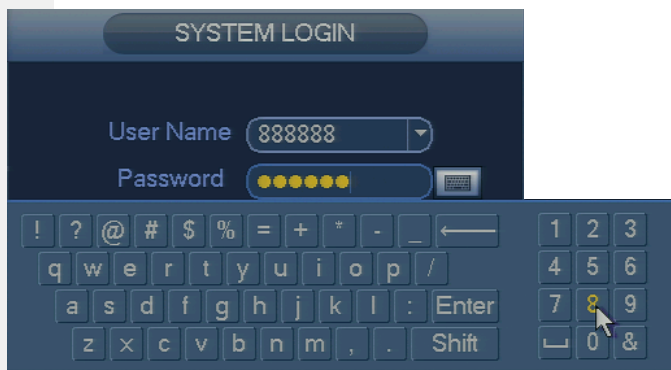
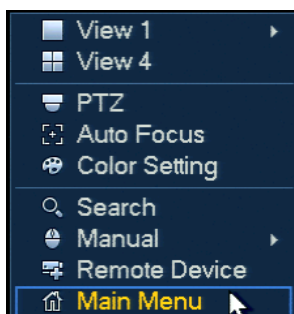
The **STARTUP WIZARD** will be displayed each time the CVR is started. If you do not wish for the **STARTUP WIZARD** to be displayed, click to uncheck the **STARTUP** option before proceeding. You can also find this option in the **GENERAL SETTINGS** (see page 7).

LOGGING IN and LOGGING OUT

LOGGING INTO THE CVR & MENU

From the CVR's main screen, right-click the mouse and choose **MAIN MENU** from the drop-down menu.

The **SYSTEM LOGIN** window will appear to prompt you to log in. Click in the **PASSWORD** field or on the keyboard icon to bring up the input keyboard.



The default administrative accounts and passwords are:

USERNAME: admin

PASSWORD: admin

USERNAME: 888888

PASSWORD: 888888

Using the mouse, enter the CVR's password, then click **ENTER** or the keyboard icon to close the input keyboard, then click **OK** to log in and enter the menu.

It is strongly recommended to change the default passwords after logging in the first time. (see page 8)

***NOTE:** If the password has been changed and forgotten or misplaced it will be virtually impossible for the user to log into the CVR. In this case please contact SecurityTronix at:*

(800) 688-9282 Press 3 for Tech Support, then press 2.

In order to use the password reset service you must provide credentials to verify that you are the authorized installer of this CVR.

LOGGING OUT

It is recommended to log out of the CVR when away to prevent unauthorized access or tampering.

From the **MAIN MENU**, select **SHUTDOWN** in the **OPERATION** section, then select **LOGOUT** from the popup window.



General Settings

SETTING DATE AND TIME

From the **MAIN MENU**, select **SYSTEM** in the **SETTING** section, then select **GENERAL** from the options on the left side of the window, and then select **DATE&TIME** from the tabs at the top.

The screenshot shows the 'SETTING' window with the 'SYSTEM' tab selected. On the left, the 'GENERAL' category is chosen. The 'Date&Time' sub-tab is active. The settings are as follows:

- Date Format:** MM DD YYYY
- Time Format:** 12-HOUR
- Date Separator:** -
- System Time:** 02 - 06 - 2015 08 : 33 : 03 AM GMT+08:00
- DST:** Unchecked
- DST Type:** Day of Week (selected), Date
- Start Time:** 01 - 01 - 2000 12 : 00 AM
- End Time:** 01 - 01 - 2000 12 : 00 AM
- NTP:** Unchecked
- Server IP:** time.windows.com
- Port:** 123
- Interval:** 60 min

Buttons at the bottom include 'Default', 'Save', 'Cancel', and 'Apply'.

Under **SYSTEM TIME**, click the Year to bring up the input keyboard, then enter the current year using the mouse. When you are finished, click outside the input keyboard to close it. Repeat these steps to set the current Month and Day.

The same process is used to enter the current Hour, Minutes and Seconds, though setting the time down to the exact second is typically not necessary.

Be sure to click **SAVE** next to the **SYSTEM TIME** to save Date and Time settings before navigating away from the **DATE&TIME** menu.

If desired, the CVR can be set to automatically adjust the time for Daylight Savings Time if your locality uses it. This is done by clicking **DST** checkbox, then entering the dates Daylight Savings Time becomes active in your area using the method described to set Date and Time above.

When finished, click **APPLY** and then **SAVE** at the bottom of the screen. This will return you to the **MAIN MENU**.

CHANGING PASSWORDS

From the **MAIN MENU**, select **SYSTEM** in the **SETTING** section, then select **ACCOUNT** from the options on the left side of the window.



Click the pencil icon in the **MODIFY** column for the user account you wish to change. This will open the **MODIFY USER** menu, which enables

you to make changes to an account’s permissions, name, group, and password.



Click the **MODIFY PASSWORD** checkbox to select it, and then click in the **OLD PASSWORD** field to bring up the input keyboard. Using the mouse, enter the account’s current password, then click **ENTER** or the keyboard icon to close the input keyboard.

Next, click in the **NEW PASSWORD** field, and enter a new password using your mouse, then click **ENTER** or the keyboard icon. It is recommended to use a combination of letters and numbers that is hard to guess, easy to remember, and has not been previously used. Once your new password has been created and entered, click in the **CONFIRM PASSWORD** field and enter your new password once more using the method above. The **NEW PASSWORD** and **CONFIRM PASSWORD** fields must match exactly.

Once the new password is entered and confirmed, click **SAVE** at the bottom of the **MODIFY USER** window to lock in the new password and return to the **ACCOUNT** menu.

NOTE: It is strongly recommended to write down the new password and keep it in a secure location. If the password has been changed and forgotten or misplaced it will be virtually impossible for the user to log into the CVR. In this case please contact SecurityTronix at:

(800) 688-9282 Press 3 for Tech Support, then press 2.

In order to use the password reset service you must provide credentials to verify that you are the authorized installer of this CVR.

Record Settings

RECORD QUALITY

NOTE: Adjusting recording quality may offer slightly extended recording time or lower bandwidth for remote viewing, but may also result in an undesirable image. Changes to the **ENCODE** section of the CVR are done at the installer or user's own discretion.

From the **MAIN MENU**, select **CAMERA** in the **SETTING** section, then select **ENCODE** on the left side of the window.

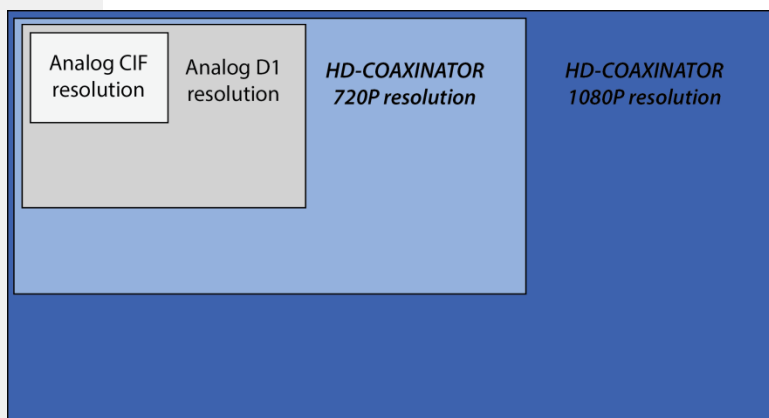
Channel	Type	Compression	Resolution	Frame Rate(FPS)	Bit Rate Type	Quality	I Frame Interval	Bit Rate(Kb/S)	Reference Bit Rate	Audio/Video	Audio Format	Audio Source
All	Regular	H.264	720P	25	VBR	6	1 S	4096	1536-4096Kb/S	☐	G711a	LOCAL
	Sub Stream1	H.264	CIF	12	CBR		1 S	320	80-512Kb/S	☒		

Buttons: Default, Save, Cancel, Apply

Items in the **ENCODE** section will need to be adjusted to meet a balance of recording needs and personal taste, and therefore no exact numbers or recommendations will be given.

Select a channel number to edit using the **CHANNEL** drop-down menu, or edit all channels at once by selecting **ALL**.

Select the **RESOLUTION** drop-down menu and select a desired recording resolution. Refer to the chart below for reference. Lowering resolutions will decrease the recorded file size, but will progressively limit details and quality during playback the further it is turned down.



NOTE: Changing the recording resolution does not affect the live view on the main screen.

Select the **FRAME RATE (FPS)** drop-down menu to adjust the rate of recorded frames per second. While lowering this number will decrease the recorded file size, video may become “choppy” or appear to skip if it is turned down too far.

If fine-tuning the quality is desired, select the **BIT RATE TYPE** drop-down menu, then select **VBR** (Variable Bit Rate). Then select the **QUALITY** drop-down menu and select a quality level (1=lowest, 6=highest).

When all desired changes have been made, click **APPLY** at the bottom of the screen, and then click **SAVE** to return to the **MAIN MENU**.

SCHEDULING RECORDING

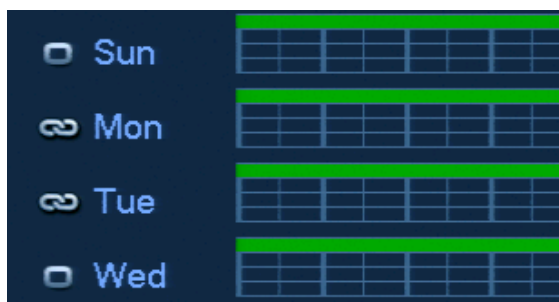
From the **MAIN MENU**, select **STORAGE** in the **SETTING** section, then select **SCHEDULE** on the left side of the window.



Select a channel number to edit using the **CHANNEL** drop-down menu, or edit all channels at once by selecting **ALL**.

Select the type of recording you want to edit (**REGULAR** for constant recording or **MD** for motion detection recording only), then click and drag with the mouse to highlight the periods you want to add in the 24-hour timeline for each day.

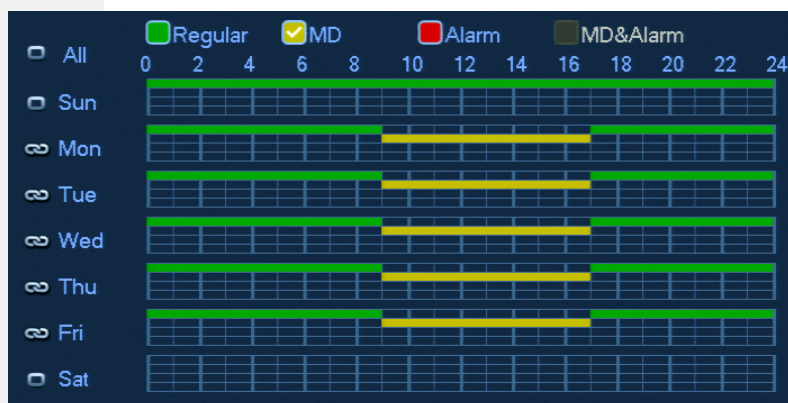
If multiple days will share the same schedule, you may edit those days all at once by clicking on the checkboxes to the left of the window. If all days will share the same schedule, then select **ALL**. A chain link icon will appear to confirm that the selected days are linked.



Once selections are made, any changes in one of the linked days' timelines will affect all linked days.

To erase sections of schedule, select a recording type as described above, then click and drag of highlighted areas on the timeline to remove.

Areas with colored lines will record in their designated modes. Areas without any colored bars will not record at all. For example: in the schedule pictured below, Sunday will record constantly, Monday through Friday will record only motion between 9AM and 5PM while recording constantly all other hours, and Saturday will not record at all.



When all desired changes have been made, click **APPLY** at the bottom of the screen, and then click **OK** to return to the **MAIN MENU**.

CHANGING RECORD MODES

From the **MAIN MENU**, select **STORAGE** in the **SETTING** section, then select **RECORD** on the left side of the window.



Use the mouse to select the desired recording type for each channel number under the **MAIN STREAM** and **SUB STREAM** sections. Alternately, you can select **ALL** next to the desired recording type to set all channels to that record mode.

SCHEDULE will set cameras to record per a user-defined schedule. (see page #)

MANUAL will set cameras to record constantly, regardless of any recording schedule.

STOP will prevent recording altogether. Cameras will still be visible on the main screen, or on remote live stream, but no data will be recorded.

When all desired changes have been made, click **APPLY** at the bottom of the screen, and then click **OK** to return to the **MAIN MENU**.

Motion Detection

SETTING UP MOTION DETECTION

From the **MAIN MENU**, select **EVENT** in the **SETTING** section, then select **DETECT** on the left side of the window.



***Note:** Changes in this menu must be made per channel to avoid possible recording conflicts.*

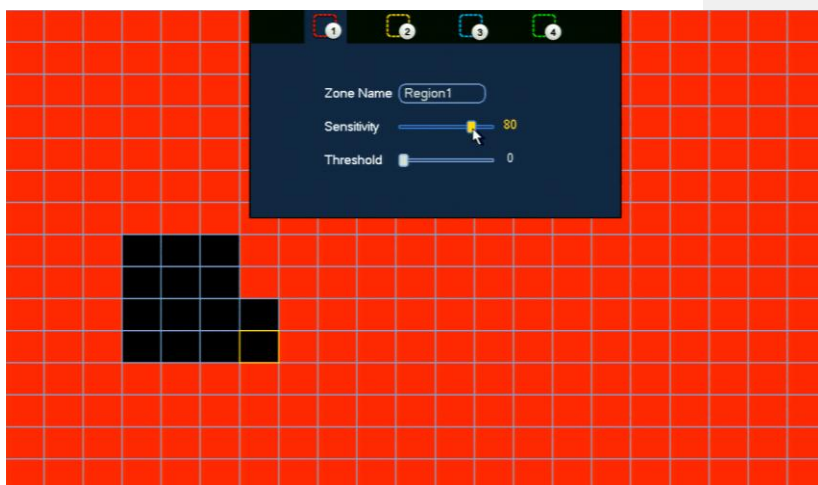
Select a channel number to edit using the **CHANNEL** drop-down menu, then click the **ENABLE** checkbox. Next click the **RECORD CHANNEL** checkbox, then click the corresponding **RECORD CHANNEL** number to highlight it (ie: if editing channel 1, select **RECORD CHANNEL 1**).

Repeat this process for all channels on which motion detection is desired. When finished, click **APPLY** at the bottom of the screen, and

then click **SAVE** to return to the **MAIN MENU**, or continue on to the next section to edit motion detection regions.

ADJUSTING MOTION REGIONS

From the **DETECT** menu (see page 15), select a channel number to edit using the **CHANNEL** drop-down menu, then click the **REGION SETUP** button.



Items in the **REGION SETUP** section will need to be adjusted to meet a balance of recording needs and environment, and therefore no exact numbers or recommendations will be given.

By default, the entire screen will be red (enabled for motion detection, **REGION1**). You can turn off areas of motion detection by left-clicking on grid squares to remove the region color in any areas of the camera's view where motion detection is not desired.

Note: motion will not be detected by any portion of the screen not covered by one of the region colors (red, yellow, blue or green).

By moving the mouse to the top of the screen, the **REGION** tabs and sensitivity settings can be accessed.

If multiple regions are desired, be sure to remove any other region's color from the new region's area before adding the new region's color. For example: left-click to remove red (**REGION1**) from an area before switching to yellow (**REGION2**) and filling in the new region. If regions overlap, the region with the higher sensitivity setting will take priority over the area.

Adjust **SENSITIVITY** (amount of change needed to trigger motion) by left-clicking on the **SENSITIVITY** slider and moving left or right as needed, with the left side being the lowest sensitivity, and the right side being the highest sensitivity.

Adjust **THRESHOLD** (amount of time over which change must occur to trigger motion) by left-clicking on the **THRESHOLD** slider and moving left or right as needed, with the left side being the lowest amount of time (instant), and the right side being the longest amount of time.

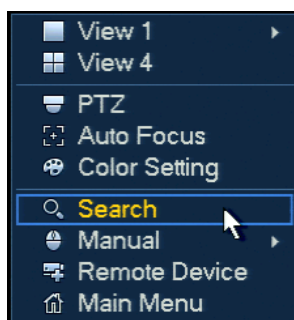
When all desired changes have been made, right-click to return to the **DETECT** menu, click **APPLY** at the bottom of the screen, and then click **OK** to return to the **MAIN MENU**.

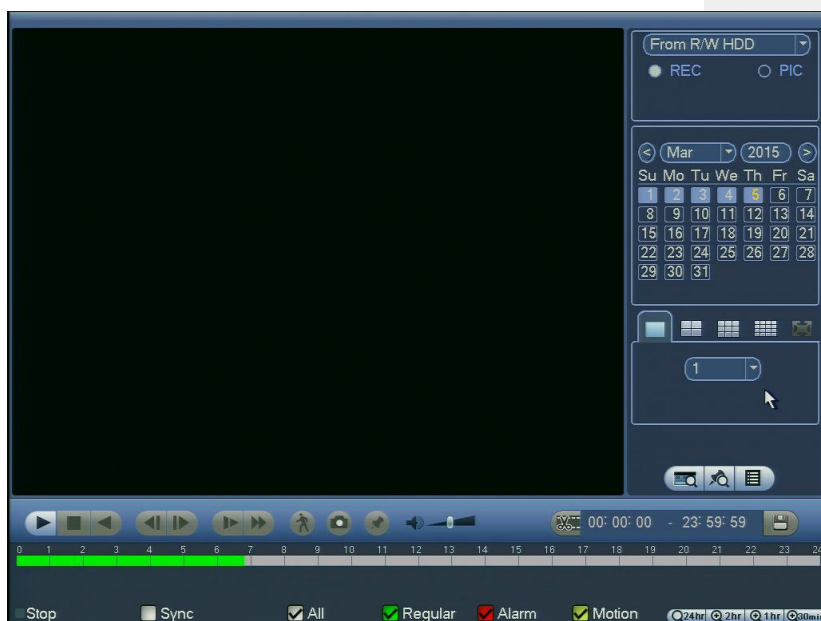
Playback and Backup

PLAYING BACK VIDEO

From the CVR's main screen, right-click the mouse and choose **SEARCH** from the drop-down menu OR from the **MAIN MENU**, select **SEARCH** in the **OPERATION** section.

At the top of the screen make sure **FROM R/W HDD** is selected, then click the button for **REC**.





In the calendar on the right side of the screen, select the date of the video you wish to view. Days that have recorded video available will have a light-blue background.

Next, select a channel number to view from the drop-down menu below the calendar. You can switch between single camera and multiple camera views by clicking the tabs above the channel drop-down menu.

If there is recorded data on the selected day, portions of the timeline at the bottom of the screen will appear colored according to the type of recordings present.

Press the ► button to begin playback of the earliest recording in the timeline.

Note: if viewing multiple channels, it is recommended to click the **SYNC** checkbox, so that all channels always play the same time periods.

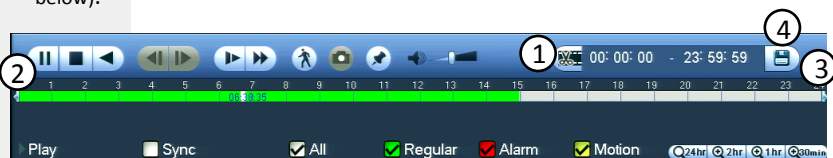
You can navigate to other portions of the timeline by left-clicking along the colored portions of the timeline to skip to that time.

To zoom in on a specific time period, click the approximate period on the timeline you wish to view, then click one of the **ZOOM** buttons on the bottom-right of the bottom of the screen to switch to the **24HR**, **2HR**, **1HR** or **30MIN** views.

When finished, simply right-click anywhere on the screen to exit **PLAYBACK** and return to the main screen or **MAIN MENU**.

BACKING UP VIDEO FILES

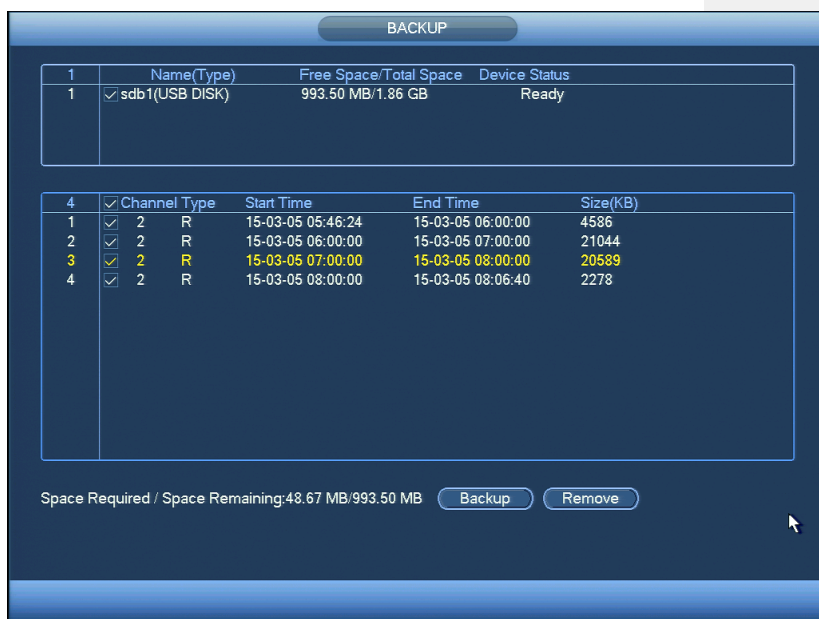
From the **PLAYBACK** screen, locate the video files that you wish to back up (see page 17), then click the **VIDEO CLIP** button (#1 in the image below).



Then left-click and drag the **BEGINNING TIME INDICATOR** (#2 in the image above) until it is approximately at the beginning of the video clip you want to save. Next, left-click and drag the **ENDING TIME INDICATOR** (#3 in the image above) until it is approximately at the end of the video clip.

***Note:** moving the **BEGINNING TIME INDICATOR** and **ENDING TIME INDICATOR** is not necessary if you wish to backup larger portions of time, such as 30-minute or hour-long clips. If this is desired, simply click the desired **ZOOM** button before clicking the **VIDEO CLIP** button, and the entire visible timeline will be selected for backup.*

Next, insert a USB thumb drive with into the front USB port on the CVR. It is recommended to use a USB thumb drive without any files on it. Once this is completed, click the **BACKUP** button at the bottom-right of the screen (#4 in the image above).



On the **BACKUP** screen your USB thumb drive will be listed in the top section, and your selected file(s) will be displayed below. Make sure that the checkboxes next to your USB thumb drive and the listed files contain check marks. If they do not, left-click the checkboxes to check them. Then select **BACKUP** at the bottom of the window.

The next screen will show any files currently on your USB thumb drive, and allow you to select a folder to save the video clip(s) to if desired. Click the **START** button at the bottom of the screen to begin saving the selected video clips to the inserted USB drive.

A progress bar will be displayed with an approximate time remaining. When finished, a notification window will pop up to notify that backup is now complete. Click **OK**, then right-click to return to the **PLAYBACK** screen, and finally remove the USB thumb drive from the front of the CVR.

Networking

NETWORKING THE CVR

From the **MAIN MENU**, select **NETWORK** in the **SETTING** section, then select **TCP/IP** on the left side of the window.

The screenshot shows the 'SETTING' window with the 'NETWORK' tab selected. On the left, a list of network-related options is shown, with 'TCP/IP' highlighted. The main area displays the following settings:

- IP Version: IPv4
- MAC Address: 4C:11:BF:02:D3:7F
- Mode: ☒ STATIC ☐ DHCP
- IP Address: 192 . 168 . 1 . 10
- Subnet Mask: 255 . 255 . 255 . 0
- Default Gateway: 192 . 168 . 1 . 1
- Preferred DNS: 8 . 8 . 8 . 8
- Alternate DNS: 8 . 8 . 4 . 4
- MTU: 1500
- ☐ LAN Download

At the bottom, there are three buttons: 'Default', 'Save', and 'Cancel', and an 'Apply' button on the right.

If the local network is DHCP-enabled, select **DHCP** in the **MODE** row, then click **APPLY** and then **SAVE** at the bottom right of the screen. Next, reboot the CVR (see page 3).

Once the CVR has rebooted, navigate back to the **NETWORK MENU**, write down the newly assigned IP ADDRESS, then change **MODE** to **STATIC** to prevent accidental readdressing of the CVR. When finished, click **APPLY** and then **SAVE** to return to the **MAIN MENU**.

If the local network uses static addressing instead of DHCP, contact the network administrator for IP addressing information, then enter the provided information in the **NETWORK MENU** using the mouse and on-screen input keyboard.

If off-network access to the CVR is desired, you will need to forward ports in the router. Due to the innumerable different routers on the market, it is impossible to provide specific instructions. Refer to your router's manual or manufacturer for assistance. For simplicity, this guide assumes the CVR's default port numbers are being utilized.

Ports needing to be forwarded to the CVR's IP address are as follows:

HTTP PORT: 80

TCP PORT: 37777

UDP PORT: 37778

Troubleshooting

For further assistance and troubleshooting, please contact SecurityTronix tech support at:

(800) 688-9282, press **3** for Tech Support, then press **2** for CCTV.

