DO NOT DISCARD!

CCTV SECURITY PROS

A SECURITY CAMERA SOLUTIONS COMPANY℠

Owner's Manual

ORDER NUMBER

Version 1

DO NOT DISCARD!

Table of Contents

P1.....Disclaimers
P2-5.....Hardware Setup
P2.....Using Premade BNC Cables
P2.....Different Types of Power
P3.....Using RG59 Spool Cable
P4.....Using Premade Ethernet Cable
P4.....Using Custom Ethernet Cable
P5-19.....Software Setup
P5.....Device Initialization
P5.....Password Configuration
P6.....Unlock Pattern
P6-7.....Security Questions and Email
P7-15.....Startup Wizard
P7-8.....General System Settings
P8.....Date and Time
P9-11.....Network Settings
P10.....P2P Remote Viewing Setup
P10-11.....Mobile (Remote) Viewing Setup
P11.....Camera Encode Settings
P12-13.....Basic Recording Settings
P13.....Advanced Recording Settings
P14-15.....Motion Detect Setup
P15-19.....Search, Playback & Backup Guide

Disclaimers

1) Always test cameras and cables prior to mounting!

2) Make sure to weatherproof all your cable connections! Do NOT leave any connections directly exposed to weather.

3) Always use appropriate power supply(s) included in package!

4) Make sure to change the password on your DVR or NVR recorder!

   Be sure to remember this password. Write this password down and store in a safe place. You may enter your Username and Password below for future reference:

USERNAME	
PASSWORD	

5) Hard drives come pre-installed in all recorders prior to shipping.

6) If you plan on viewing your cameras remotely remember to check your bandwidth. Without sufficient Internet speeds you may experience delay in your video feed. Each camera that will be viewed remotely could use up to 1Mbps. Please check with your provider for further information. Minimum Internet speeds and can be found below:

1 Camera: 256 Kbps
4 Cameras: 1 Mbps
8 Cameras: 2 Mbps
16 Cameras: 14 Mbps

**The above values are for viewing cameras simultaneously. If you plan on viewing only a few cameras at a time the values will be much less.

Hardware Setup

This section of the Owners Manual will explain how to connect your cameras and cables to your DVR or NVR.

Connecting to a DVR Using Premade BNC Cables

First, connect the Yellow BNC Video cable to the DVR side. Be sure to use the Video Inputs. Connect the opposite side of the Yellow BNC cable to the cameras.

Next, we will need to power the camera using the Red 12VDC connection on your premade cable. The male side of the Red cable will connect directly into the camera's harness. No splicing will be needed.

The Female Red 12VDC power connection will connect into the camera's power source. The power source will vary depending on what system you have. There are 3 different power options.

1) Individual Power Adapter

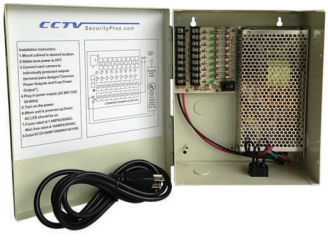
*For connecting one camera at a time

2) 4 or 8 Path Power Splitter

*Great for connecting up to 4 or 8 cameras using one power outlet

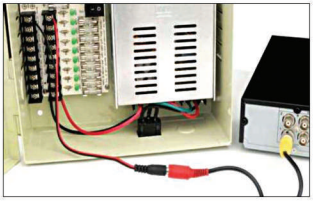
3) 9 or 18 Port Power Box

*Each camera includes a male pigtail inside of the package. This will need to be connected to the Positive (RED+) and Negative (BLACK-) terminals inside the power box.



Hardware Setup (Continued)

Here is an example of the power source connected to a power box using a pre-made cable.



Connecting to a DVR Using RG59 Spool Cable

After cutting the correct length of cable needed to run your camera, we can start by connecting the BNC connectors.

First, strip the cable back like shown (Figure A).

Figure A

Twist connector onto outer shield, making sure the connector pin is straight and seated correctly (Figure B).

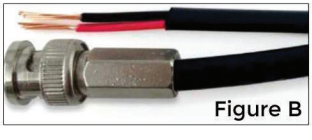


Figure B

Attach your power connections and use electrical tape, heat shrink or wire nuts to protect them (Figure C).

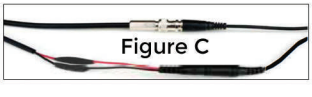


Figure C

Use the included Male Pigtail to connect into the power box (Figure D).Be sure to use Red for the Positive (+) terminal and Black for the Negative (-) terminal.

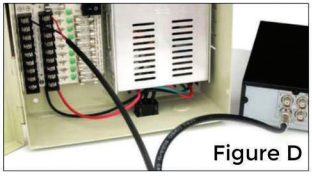


Figure D

Hardware Setup (Continued)

The next section will cover connecting IP cameras with an NVR and the various types of cabling used. Keep in mind that most of our IP cameras use PoE (Power over Ethernet) and will not require a separate power source. All of our IP cameras will come with an optional 12VDC connection built in for those who do not wish to use PoE.

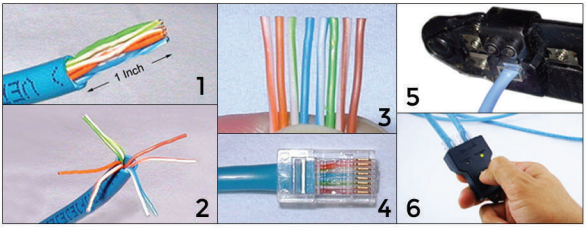
Using Premade Ethernet Cable

The most popular way to connect an IP camera to an NVR is using a Pre-made Ethernet Cable. The cables are pre-cut and molded so no crimping or cutting is necessary. Simply plug one end of your Ethernet cable into your NVR system and the other end into your camera's input. Once the connection has been made, the camera feed will appear after 1-3 minutes.

Using Custom Ethernet Cable

You may also connect your IP camera to your NVR using a spool of Cat5, Cat5e, or Cat6 cable. We recommend using the T568-B standard for configuring custom cable. For more instructions on making custom cables, please visit our website:

www.cctvsecuritypros.com/content/pdfs/static-pages/CAT5-Termination.pdf

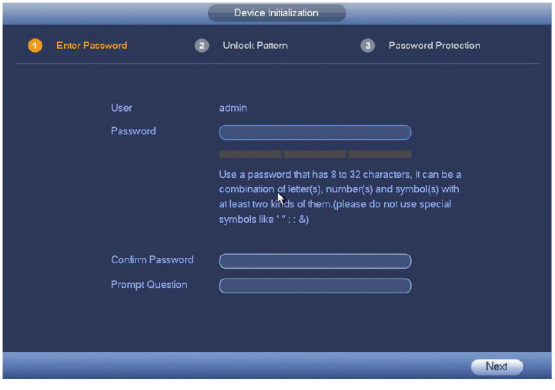


Software Setup

Device Initialization

Step 1) First, power on your CCTV Security Pros camera system. The **Device Initialization** screen will appear. When using a CCTV Security Pros system, you are required to set a login password for the admin account (system default user).

Note: To ensure the safety of your device, please store your admin login password in a safe place.

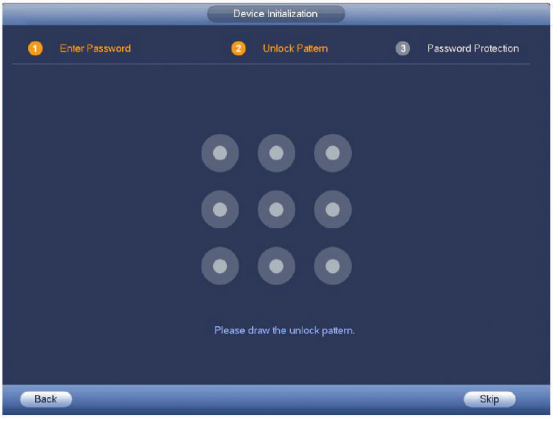


Step 2) Configuring the **admin** login password:

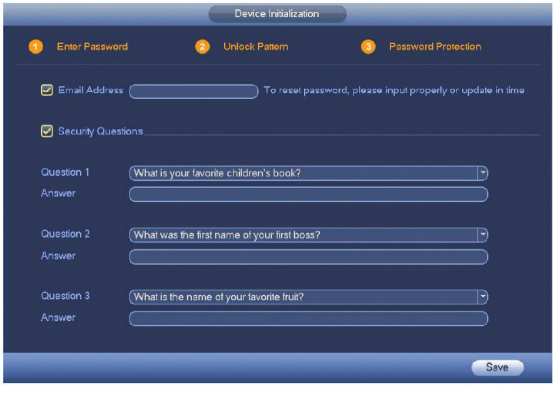
* **User name**: The default username is **admin**
* **Password & Confirm Password**: Password must have 8-32 characters. It can contain letters, numbers, and special characters (except “’, “””, ”;”, “:”,”&”). The password must contain at least two of the above types. We recommend choosing a strong password.
* **Prompt question**: You can select the following icon if you want the system to provide a password hint:

Software Setup (Continued)

Step 3) Click Next and Unlock Pattern will be shown.



Step 4) Draw and set up an unlock pattern with your mouse. You may skip this step if you do not want to set a pattern lock.



Step 5) Configure password security information. Your email and/or security questions can be used to reset the admin password.

Software Setup (Continued)

Step 5) (Continued)

* **Email:** Enter an email address to be used when resetting your password. When resetting your password with your email, a security code will be sent to your email address to unlock your account.
* **Security questions:** Security questions can also be used to reset your password.

Note: You may configure or update your email address or security questions by going to the Main Menu > Settings > System > Account.

Step 6) Click OK to complete the Password Configuration setup. The system will continue to the Startup Wizard. We recommend following the Startup Wizard to configure the rest of your CCTV Security Pros system.

Completing the Startup Wizard

Please follow the Startup Wizard to configure the following options before system use:

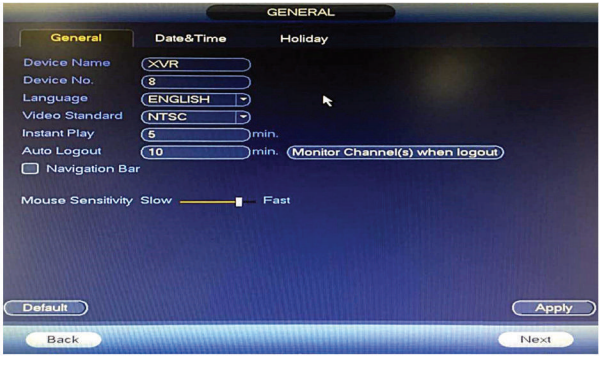
* General Settings: Language, Date and Time
* Enabling DHCP to connect to your router or modem (optional)
* Enabling P2P/Easy4IP for remote viewing (optional)
* Configuring Camera Resolutions (optional)
* Basic Recording Schedule
* Advanced Recording Schedule (optional)

General Settings

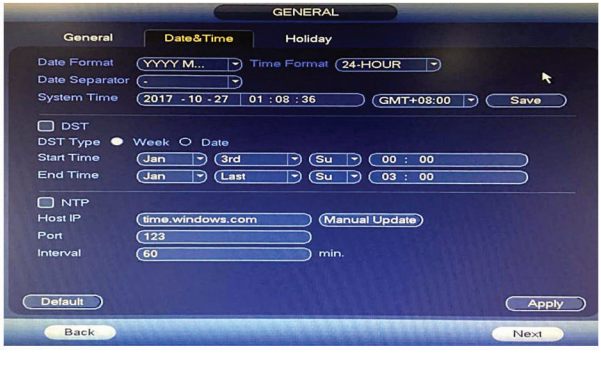
General System Settings: The General menu is the first step of the Startup Wizard. This menu has a few settings that should be kept at the default positions for the best user exper-

Software Setup (Continued)

ience. The **Device Name and Language** can be changed to your preference. Make sure to apply an changes you have made by clicking **Apply**. We recommend clicking on the "Date and Time" tab toward the top of the screen to configure the Date and Time correctly.



Date and Time: Enter in your **System Time.** You may change the Format of the system time from a 24 Hour clock to a 12 Hour clock if you prefer. You may enter the **Daylight Savings Time** setting under "DST." After your changes have been made, click **Save** (next to the System Time), and the click **Apply** at the bottom of the screen. You can now click the **Next** button to continue to the next Startup Wizard page.



Software Setup (Continued)

Network Settings

For the next step in the Startup Wizard you will need to ensure your system is connected to a modem, router or switch that has an Internet connection. The systems do not connect to the Internet through WiFi so you must use a hardwired Ethernet cable attached to your network.

This step is optional and not needed for your system to function. However, it is a standard feature on all CCTV Security Pros equipment of which you may wish to take advantage. If you do not wish to configure your system for remote viewing, feel free to skip this step by clicking the **Next** button.

You may also want to download our "SCS Lite" iOS and Android app found in the App Store or Google Play Store. The next steps will show you how to configure your Mobile Device or Tablet.

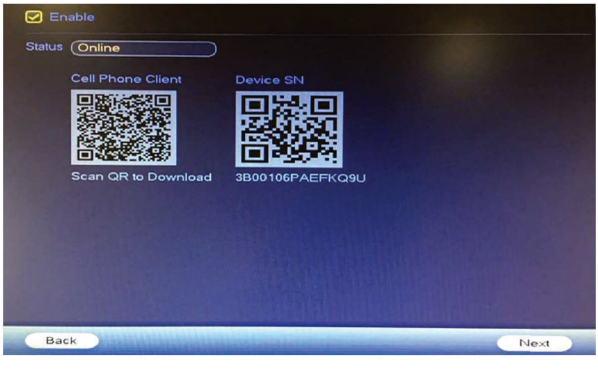
Enabling DHCP: Inside of the network settings we will want to click on the DHCP option that is found near the IP address. When you select DHCP, the IP address, Subnet Mask, and Default Gateway will change to 0.0.0.0. After DHCP is enabled you can click the **Next** button.

Software Setup (Continued)

Note for Advanced Users: If you would prefer to manually enter the IP address, Subnet and Gateway you may do so by using the Static Option instead.

P2P Remote Viewing Setup: The next section of the Wizard is your P2P/Easy4IP setup. Make sure the Enable check box is highlighted with a check inside of it. If your network is set up properly you will see an "Online" status. There are two QR codes in this page. The only one you will need is the "Device SN." This is your system's Serial Number or "SN."

Keep in mind that in order to get this menu to show "Online" you must have an Ethernet cable connected to your router or modem.

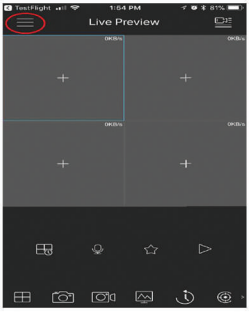


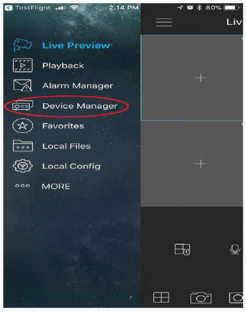
Mobile Remote Viewing Setup: If you have our SCS Lite App for iOS or Android you may scan the Device SN QR code for remote reviewing. Open SCS Lite. Click on the **Menu** button on the top left side of SCS Lite. Click **Device Manager**. Click the Plus Sign at the top right corner and select **Wired Device**. Click **P2P**. Name the Device and Click the QR Code button to begin Scanning the Code. Scan the QR code on the right hand side labeled **SN**. **Do not scan the Cellphone Client QR code as it will not work.** Enter the default user name (**admin**) and the

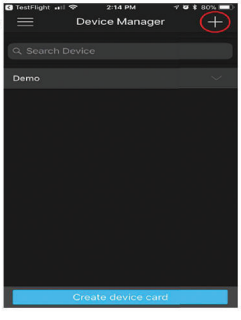
Software Setup (Continued)

custom **System Password** you configured earlier in this guide. Then select **Live Preview** on the bottom to pull up your live camera feed. Steps 1 through 6 are pictured below.

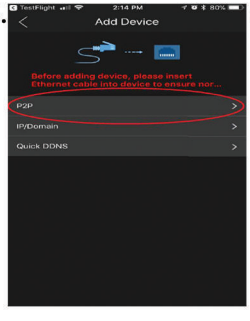
Note: You may also enter the serial number manually in the above step. Be careful not to mistake the digit 0 (zero) for the letter "O."

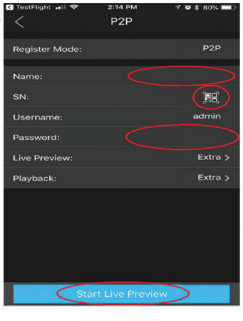
1.


2.


3.


4.

5.


6.


Camera Encode Settings

The next section of the Startup Wizard will allow you to fine tune the **Recording Resolution** and **Streaming Resolution.** Your CCTV Security Pros sytem will auto adapt to the highest available **Resolution** and **Frame Rate**. Most likely, that will not need to be changed. This menu will vary slightly depending on the DVR/NVR and cameras being used.

Software Setup (Continued)

The column on the left side is the "Main Stream" and is the highest quality stream that gets recorded to your hard drive.

The column on the right side is your "Sub Stream" and is typically what gets streamed to your Mobile Devices and Tablets. This comes in handy when you have limited Internet bandwidth. If you made any changes to this menu be sure to click **Apply**. Then click **Next.**

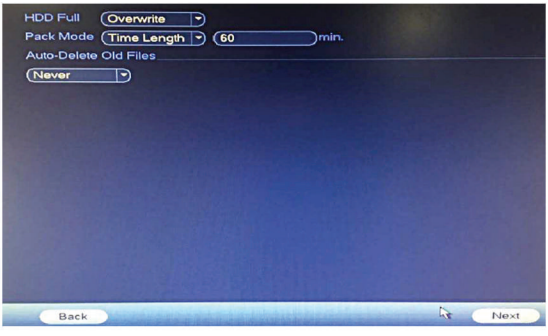
Basic Recording Settings

Your CCTV Security Pros system is set to overwrite over itself after the Hard Drive is full. This is a great feature to keep enabled since the system is meant to record maintenance free.

The system will store each recorded file on the Hard Drive in 60 minute files. If you would like to change the duration each file is packed in, you may set that in this menu.

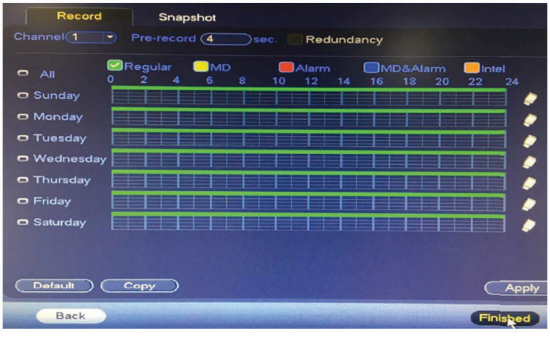
The system is also designed by default to NEVER delete old files automatically. This, of course, can be changed but we strongly recommend keeping this setting to "Never." Now click **Next** (screenshot on next page).

Software Setup (Continued)



Advanced Recording Settings

All CCTV Security Pros systems are configured to record 24/7 right out of the box! You do not need to set anything here if you plan on recording 24 hours a day, 7 days a week. The example below shows a system set to record 24/7.



The systems can also be configured to **Motion Detection**, which is a popular function. This will conserve hard drive space and make it easier to search for events in the future. Motion detection can be configured differently for each camera and each day if you choose (**continue to the next section if you prefer to set up motion detection**). If you plan to keep your system recording 24/7, you have finished the Startup Wizard. Click **Finished**.

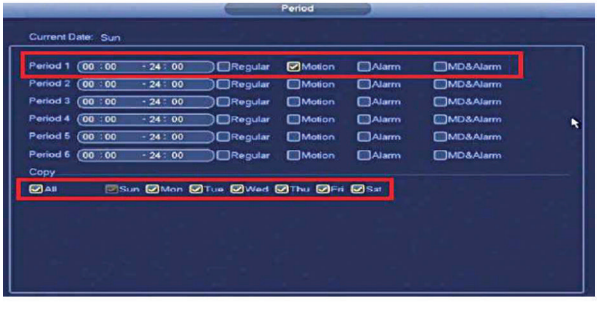
Software Setup (Continued)

Motion Detection Setup

These examples will show a system set to motion detection for **24 hours a day, ALL days of the week.**

Step 1) Click on the **Gear Icon** towards the right hand side of Sunday.

Step 2) Inside of the next menu you want to remove the check box from Regular and place next to **MD** (Motion Detection) under Period 1. Be sure to Copy ALL days of the week at the bottom. Save this Menu once it looks like this.



Step 3) Your **Schedule Menu** should look like this now. The Green lines should now be replaced with Yellow lines. Be sure to **Copy** to any **Channel** you would like to set to Motion Detection at the bottom left of the screen. Click **Apply** when

Software Setup (Continued)

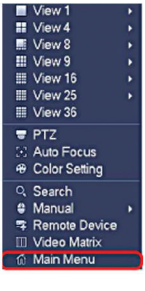
done. Click **Finished** to complete the Startup Wizard.

You have now successfully completed the Startup Wizard. Your system should be functioning to your liking and will never need to be configured again,unless you need to make any changes. All of the changes made in the Startup Wizard can be accessed at any time in the future.

DVR Search/Backup Guide

This is a quick instructional guide on how to locate and back-up video at your DVR using a USB thumb drive. We recommend that you use the USB port on the back of your DVR to plug in your mouse and leave the front USB port free for backup.

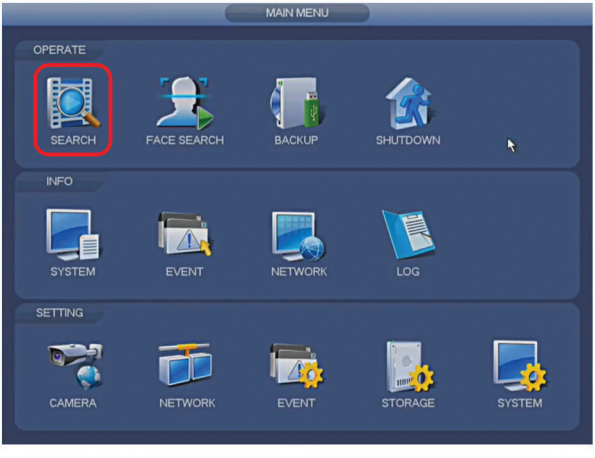
Step 1) From anywhere on the DVR screen, right click with your mouse and select **Main Menu** from the drop down menu.



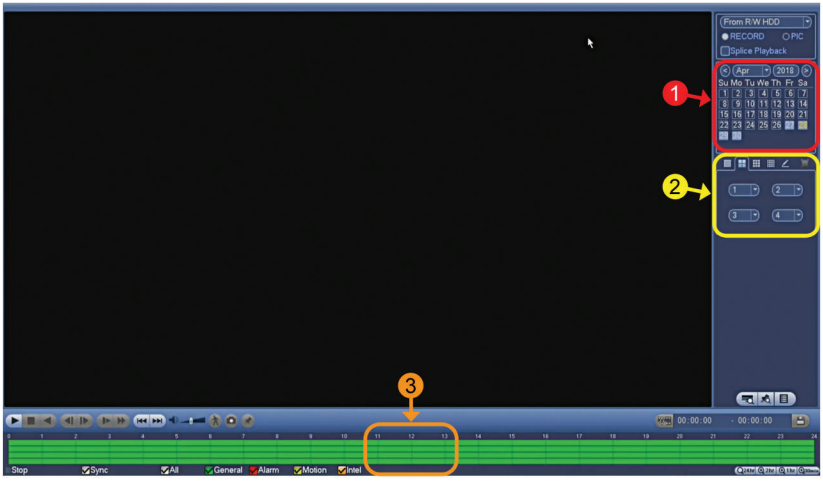
You will be prompted to log in to your DVR. Enter in your username and password and click **OK**.

DVR Search/Backup Guide (Continued)

Step 2) Once you have logged into the DVR, the MAIN MENU screen will appear. Click on the SEARCH icon.



Step 3) Now you are at the SEARCH SCREEN. In the upper right-hand corner you will see a calendar. Days that have recorded video are highlighted in blue. Select a day from the calendar (see the red #1).



DVR Search/Backup Guide (Continued)

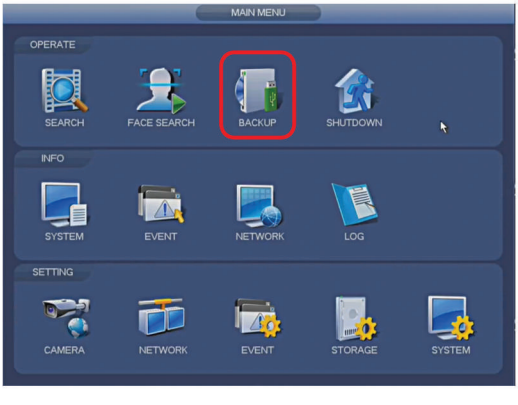
Step 4) You can review recorded video from one or more cameras at a time. The default is set to view 4 cameras. Choose the cameras that you wish to review (see the yellow #2 on previous page).

Step 5) Click anywhere along the timeline (in military time) at the bottom of the screen, and video will start playing at the time you choose (see the orange #3 from the previous page). The color may vary depending upon the recording time.

Make a note of the Start date and time and the End date and time for each camera that you wish to backup.

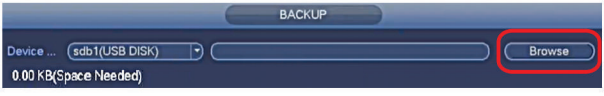
Note: If don't already have a USB thumb drive inserted in the DVR, do so now. It will bring up the USB Device Auto Pop-Up Screen. Then just select File Backup, and it will take you to Step 8. If you do not see this prompt, continue with Step 6.

Step 6) Right-click once with the mouse and it will bring you back to the MAIN MENU. Then click on the BACKUP icon.

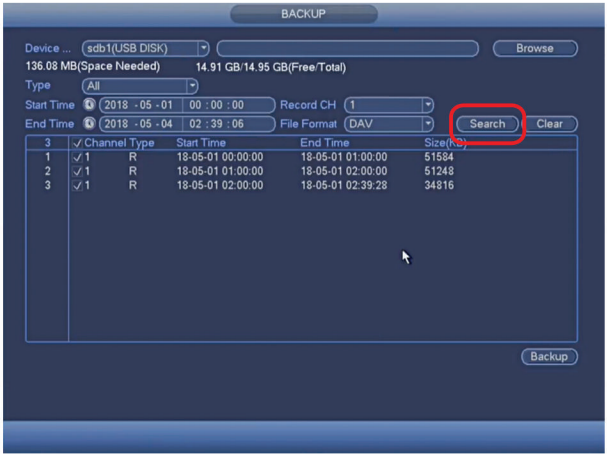


DVR Search/Backup Guide (Continued)

Step 7) Once at the backup option, click on the browser to find the USB device if it's not already selected.



Step 8) At the Backup Menu, be sure that the **Type** is set to **All**. Select the **Channel** (camera) that you wish to backup. (You can add additional channels but only one can be added at a time.) Make sure that **File Format** is set to **DAV**. Then, using the mouse and the on-screen keypad, enter the **start date and time** and the **end date and time** of the video that you wish to backup. Finally, click the **Search** button and one or more files will be added to the queue.

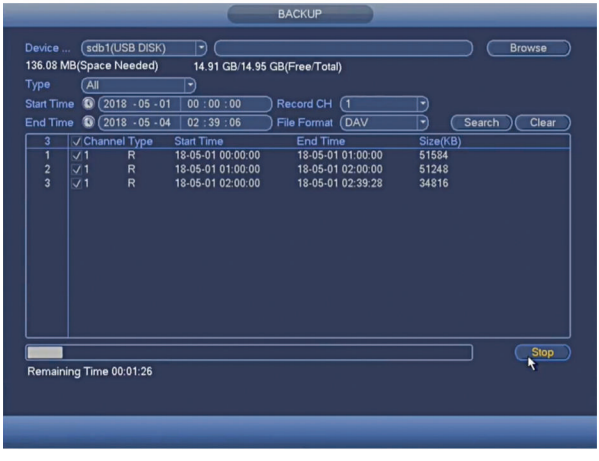


Please note that only files that are checked will be backed up, and the Remove button is also an option to delete files from the queue.

Step 9) You can repeat Step 8 for additional cameras that you wish to add. Once you have all of the files added that you

DVR Search/Backup Guide (Continued)

need, click the **Backup** button to begin backing up video to your thumb drive.



You're Done!

After a few minutes (depending on the amount of video that you are backing up) you will see a message showing that your backup has finished. Click OK and remove the thumb drive from the DVR. The thumb drive now contains all of the video files and a player that you can use to watch the footage on your computer.

For further help and menu explanation including instructional videos and documents, please visit our Support Tab at www.CCTVSecurityPros.com/Support

CCTV SECURITY PROS

A SECURITY CAMERA SOLUTIONS COMPANY℠

2050 Springdale Road, Suite 600
Cherry Hill, NJ 08003
(888) 653-2288
www.cctvsecuritypros.com