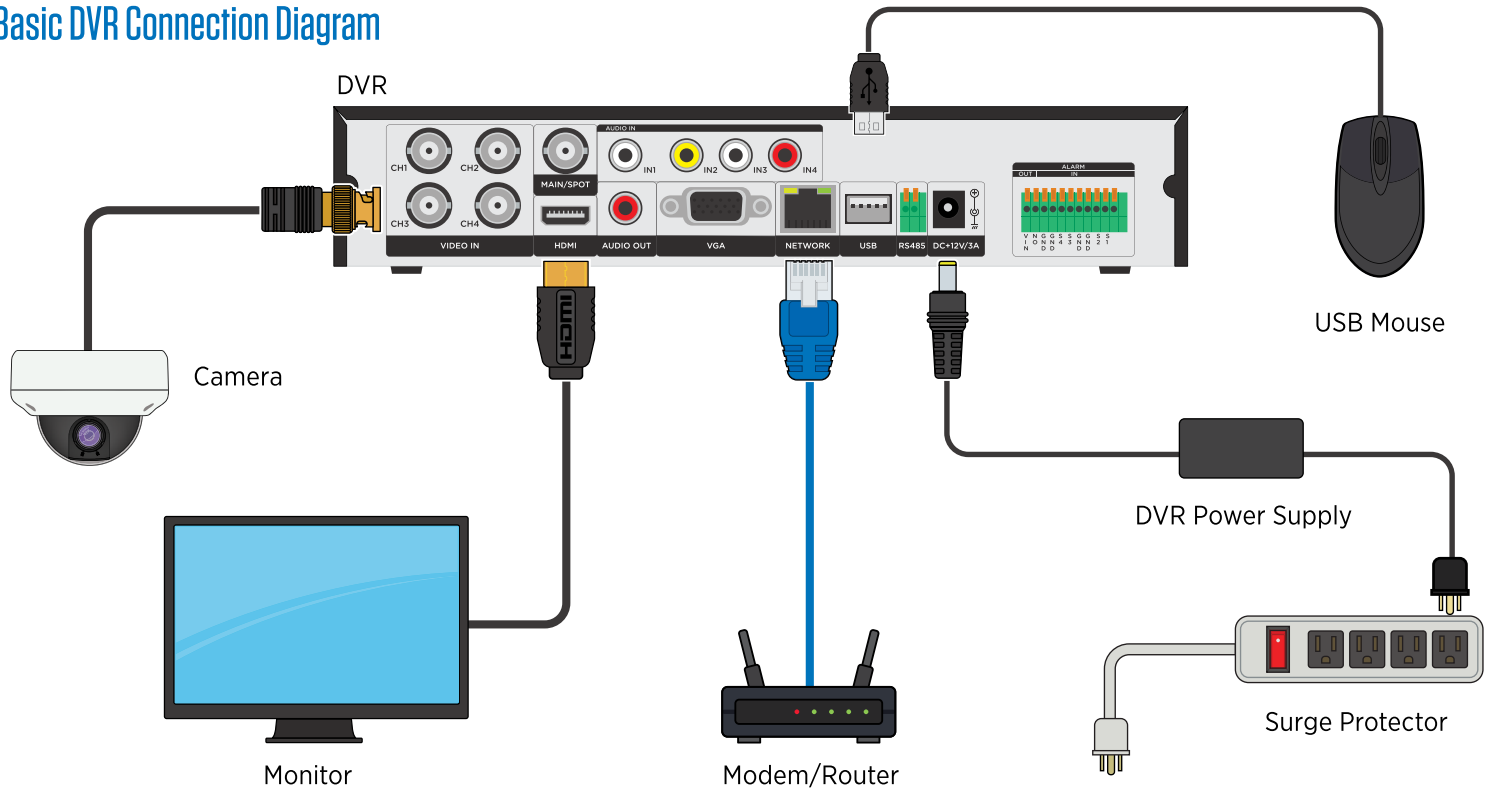


Basic DVR Connection Diagram



**Actual DVR and connections may differ from the image shown above*

1. Connect coaxial cable from cameras to the desired channel on the back of the DVR.
2. Plug in an ethernet/CAT5 cable to the Network port on the back of the DVR. Clinton DVRs do not support WiFi and must be directly connected to a Modem/Router for network connection.
3. Connect any RS485, Alarm or Audio connections. (not shown)
4. Choose the desired main monitor connection; VGA / BNC / HDMI. (BNC and VGA connections do not support Full HD 1080p output)
5. Plug in USB mouse.
6. Plug the power cord into the back of the DVR.
7. Plug the cord from the power supply into an appropriate surge protector.
8. If your DVR has a Power ON/OFF switch - turn the DVR on. DVRs without a power switch will power ON automatically once the power has been connected.



Ensure there is adequate ventilation around the DVR and do not cover or block the fan and/cooling vents. The DVR can over-heat if these are blocked.



Do not install the DVR into an environment that is exposed extreme temperatures; attic/walk-in freezer. Do not install the DVR on top or near equipment that generates heat.

NOTICE



It is strongly recommended to plug the DVR power supply into a surge protector. A surge protector will help protect the DVR from damage caused by unwanted surges/spikes in voltage and lightning.

Using the Mouse

Left Click:

- **DURING LIVE VIEW:** Click desired camera image to display full screen, click again to return to Multiplex view.
- **DVR MENUS:** Select Menu Options, Increase values while in DVR Menus.

Right Click:

- **DURING LIVE VIEW:** Access the menu screen.
- **DVR MENUS:** Decrease values while in DVR Menus.

Scroll Wheel:

- **DURING LIVE VIEW:** Digital Zoom In / Zoom Out when displaying a camera view
- **DVR MENUS:** Increase/Decrease values while in DVR Menus

HELPFUL TIPS:

- Analog cameras will not work on HD-SDI only DVRs.
- Full HD 1080p cameras (EX-SDI or HD-SDI) will not work on Analog only DVRs.
- Full HD 1080p cameras (EX-SDI or HD-SDI) typically have 2 video outputs; HD (black connector) and Analog (yellow connector). Ensure the appropriate camera connection is used.
- If no video is displayed on a connected monitor, use the supplied remote control and enter: 1024768 & press ENTER. This will reset the screen resolution.

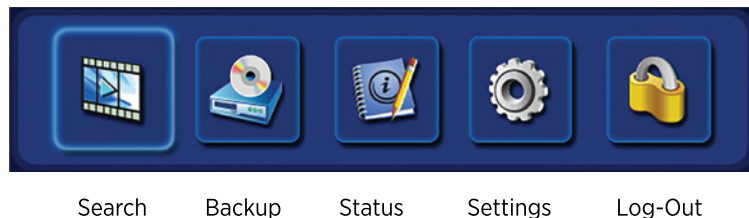
DVR Quick Setup Guide

Clinton DVRs come per-configured to automatically record video. The recording settings are optimized for quality and HDD space. To adjust frame rates, quality, and recording types refer to the full DVR manual or call Clinton Tech Support: 1-800-549-6393.

DVR Menu Icons

Top Menu

Press the UP button on the remote control or move the mouse cursor over the top area of the screen- the top menu will automatically appear. Click on the desired option.



Bottom Menu - Live View

Press the DOWN button on the remote control or move the mouse cursor over the bottom area of the screen- the bottom menu will automatically appear.



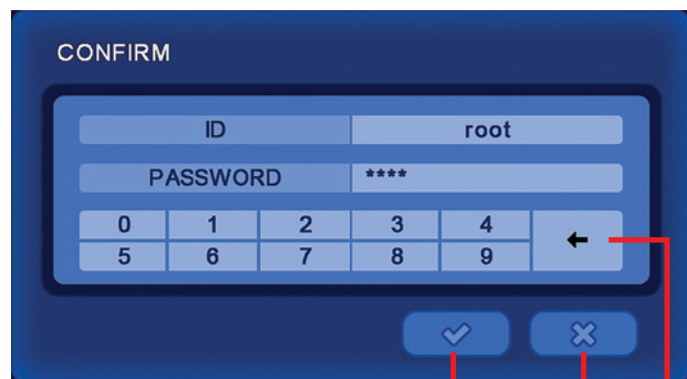
Selecting one of these menu options will change the Multiplex View (the way the live camera views are arranged). Depending on the model of DVR, not all Multiplex View options will be available. Example, a 4 Channel DVR will not be able to display 16 camera views.

DVR Login

A user ID and Password is required to access any DVR controls.

The default ID is "**root**" and the default password is "**1111**".

Click the ✓ [Check Mark] with the mouse cursor or press the ENTER button on the remote to proceed.



Confirm

Cancel

Delete/Backspace

Default ID: **root**
Default Password: **1111**

To edit User ID and Password information, please refer to *SETUP/ACCOUNT* in full DVR Manual.

Search Recorded Video

There are several different methods of searching recorded video: Playback, Quick Search, Calendar search, Event Search, Overlapped List, Museum Search, Go To First & Go To Last. Refer to full DVR manual for other search descriptions.

Calendar Search

1. To review recorded video, move the mouse cursor to the top of the screen and click the SEARCH icon, or press the Search button on the remote to display the SEARCH menu.
2. Click CALENDAR.
3. Select a highlighted day. Days not highlighted have NO recorded video.
4. Drag the arrow indicator to the desired hour.
5. Click the ✓ mark to start reviewing video from that hour or click in the timeline area to narrow the selection down to minutes.

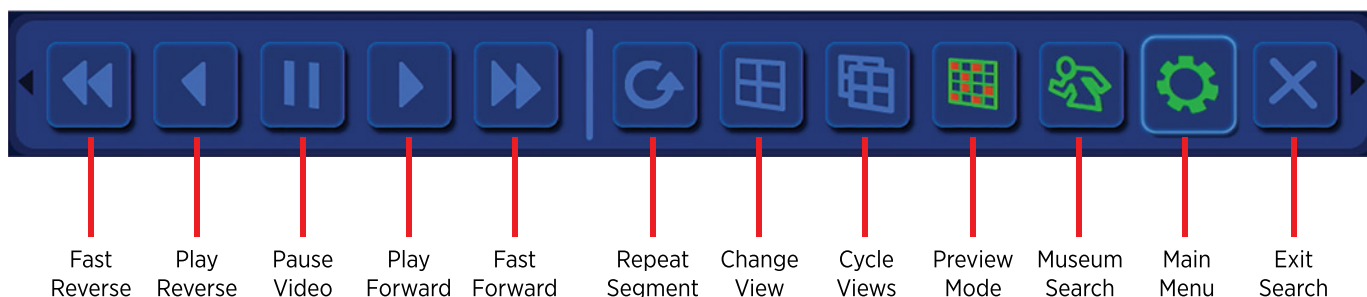


Click on highlighted DAY



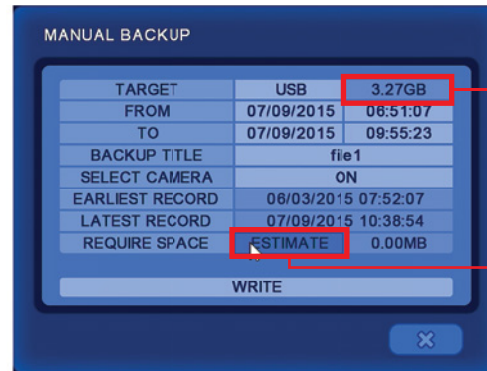
Drag arrow to select HOUR

While performing a search, move the mouse cursor to the bottom of the screen to display the Search control panels.



Backup Video to External Drive

1. Insert CD/DVD (if the DVR is equipped with a CD-RW/DVD-RW disk drive) or formatted USB into the DVR.
2. Move the mouse cursor to the top of the screen and click the **BACKUP** icon, the second icon from the left. Or with the remote control press the Backup button to display the BACKUP menu.
3. Click **NONE** in the Target row. If a USB or CD/DVD is inserted into the DVR it will be displayed. Select which device to use.
4. Set **From** (start) & **To** (stop) Dates & Time. The longer the time frame, the longer it will take to backup video.
5. Name the file if desired by clicking **backup** in the BACKUP TITLE row.
6. Click the **ON** button next to SELECT CAMERA to select which cameras will be saved. The more cameras selected-the larger the file size.
7. Click the **ESTIMATE** button. Doing so ensures there is enough room on the selected disk/USB for the saved video. If the file is too large it can not be saved to the USB (if using CD/DVD additional disks may be required, add when prompted). To lower the file size either shorten the amount of time to be saved or select fewer cameras.
8. Click **WRITE** to start the backup process. A progress bar displays the percentage of completion.
9. Once the video is backed up, the DVR will beep. It is now safe to remove the USB device or disc from the DVR.



Available space on selected device.

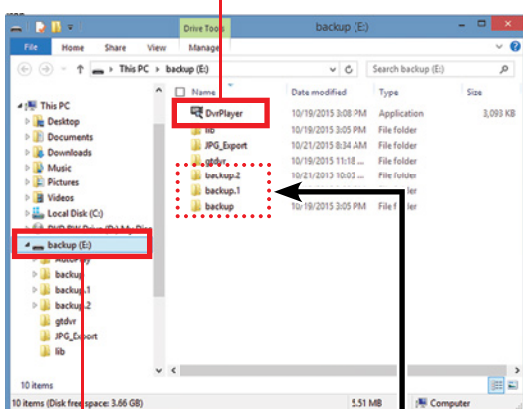
Click ESTIMATE before writing save file.

- A blank CD-R, DVD-R, or a formatted USB drive is required for video backup. (USB drives up to 32GB – formatted to FAT32. For formatting information refer to: Full DVR Manual: SETUP MENU > Disk > Check/USB > USB Format).
- The backed up video is saved as a proprietary file type and can not be viewed without the embedded DVR player software. (The DVR player software is saved to the device at the same time the video is being saved).

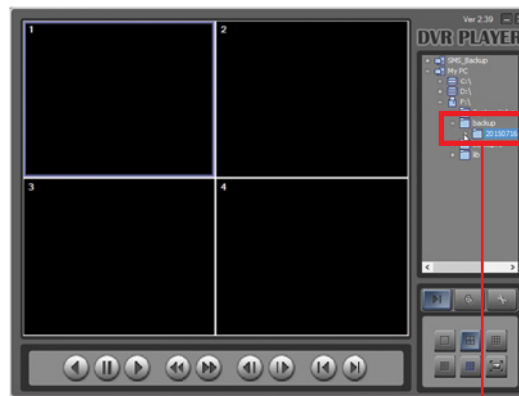
View SAVED Video (from Backup)

1. Insert CD/DVD or USB with saved video into a Windows PC.
**Currently not supported for use on MAC computers.*
2. Locate the device with saved video.
3. Open the DVR Player software.
4. Locate the device with saved video from the menu bar on the right.
5. Open the folder containing the saved video.
6. Drag & Drop the desired clips into the multiplex view on the left.
7. Click the PLAY button to play video. Video always loads in PAUSE mode.

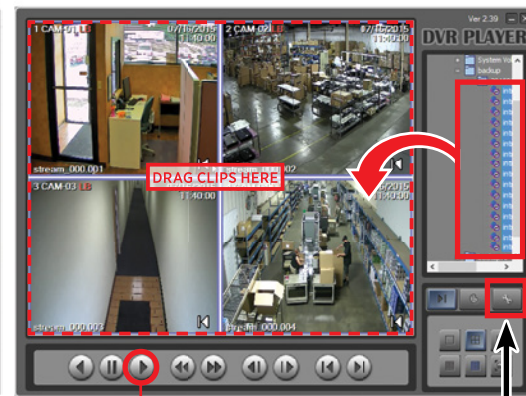
Open DVR Player



USB device with saved video



Folder with desired saved video



Press PLAY after clips are loaded

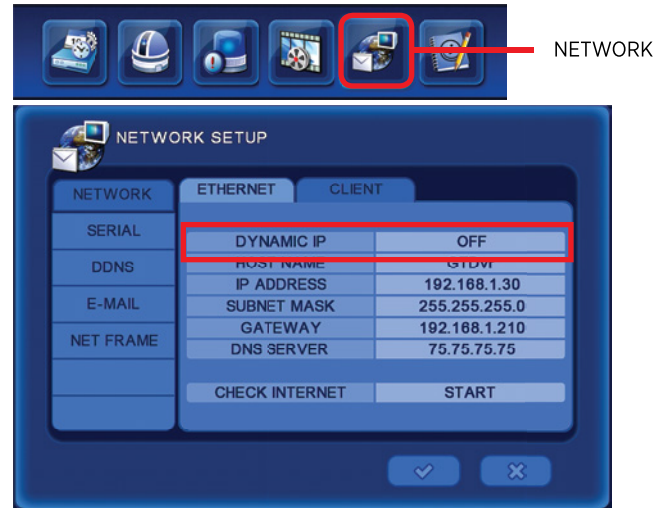
DO NOT move the video files outside of the Backup folders. Doing so can corrupt the saved video.

Click here to convert selected video into an AVI format (for emailing) or to save a still frame as JPG and send to printer.

① Network Setup

The **NETWORK** menu can be accessed by pressing **MENU** on the remote control or by right clicking with the mouse, then selecting **Main Menu**.

1. Change Dynamic IP from OFF to **ON**
2. Click the ✓ button to save network settings. Hit the ✓ when prompted to confirm the change of a new network. Please wait while the DVR obtains network information.
3. After the network information is obtained re-enter the Network Setup menu.
4. If the IP Address changed: turn Dynamic IP **OFF**, then click ✓ to prevent the DVR from pulling an invalid IP address in the future. Hit the ✓ when prompted to confirm the change of a new network.
5. Write the DVR's IP Address down to connect locally with CEC Connect, AVMS or the Web Viewer.

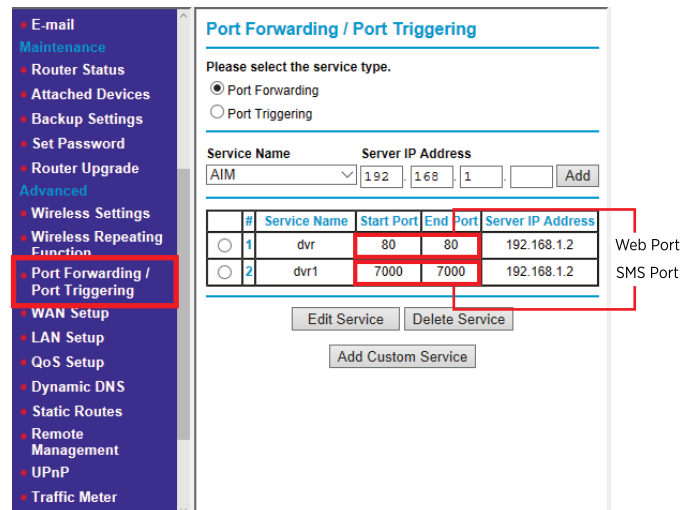


DVR IP Address:

② Port Forwarding

The Web & SMS ports on the connected network router will need to be opened for external network connection to the DVR via CEC Connect, Web Viewer or AVMS.

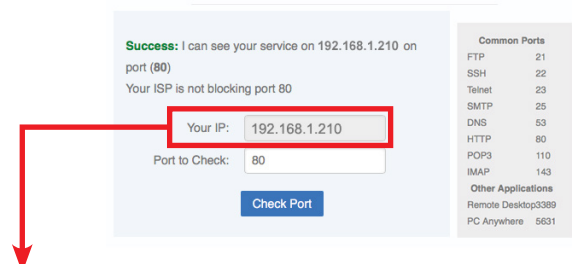
1. Open an internet browser (Internet Explorer, Google Chrome, Safari, etc.)
2. Log in to the router. This will usually be the Default Gateway found in **NETWORK > Network Setup > Ethernet > Gateway**.
3. Enter the login information for the router.
4. After successful login to the router find the **Advanced Settings** or **Firewall Settings**.
5. Find the **Port Forwarding/Port Triggering** section and select **Port Forwarding**.
6. Service Types: **TCP/UDP** should be enabled.
7. Enter the Web Port number from the DVR (default is 80) into the **Starting Port** and **Ending Port**.
8. Enter the DVR IP address (see *Network Setup* above).
9. Click OK or SAVE.
10. Repeat the steps above to open the SMS Port- default 7000. (Instead of entering 80 for the Starting and Ending Ports, you will enter 7000).
11. After port forwarding has been done, visit CanYouSeeMe.org to verify that the ports are open.
12. Write the Public IP Address down for use with DDNS Setup.



*Router settings page will look different depending on the manufacturer

CanYouSeeMe.org

Open Port Check Tool



Public IP Address:

- Router IP addresses, logins and configuration pages vary by manufacturer. Use the above information as a basic guide in configuring a router to set up port forwarding.
- Refer to the Port Forwarding section of the user manual for the router or visit www.portforward.com and click on the Port Forwarding Guides link for more detailed information.
- Call Clinton Tech Support for help with router port forwarding.

To remotely access a DVR via CEC Connect, AVMS, or Web Viewer- the DVR network settings must be properly set up on the DVR, and Port forwarding must be configured in the router according to the SMS & Web port settings in the DVR. Call Clinton Tech Support for help with DVR networking & router port forwarding: (1-800-549-6393)

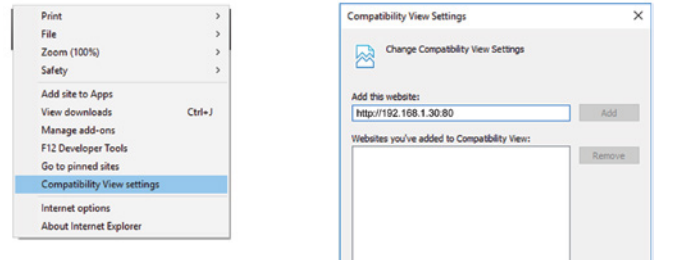
3 Open Internet Explorer

The default web browser for Windows 10 is Microsoft Edge, the DVR Web Viewer does not work with this browser. To setup DDNS and use the Web Browser- Internet Explorer must be used.

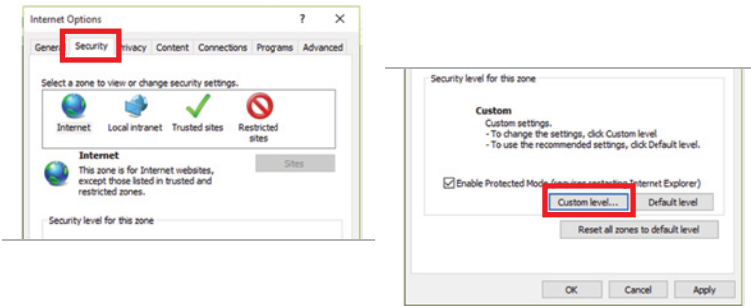
1. With Internet Explorer open; enter the IP Address of the DVR, followed by the WEB port number in the address area of the browser.



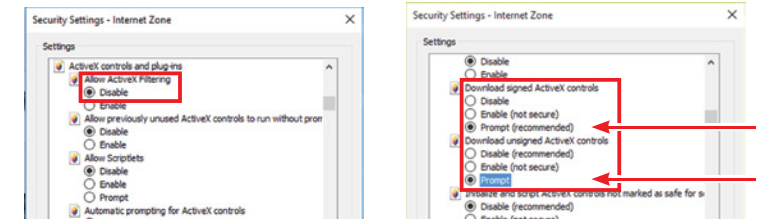
2. Click the Gear (Settings) icon, then Click **Compatibility View settings**. Verify that the IP Address just entered is listed. Click **Add**, then click **Close**.



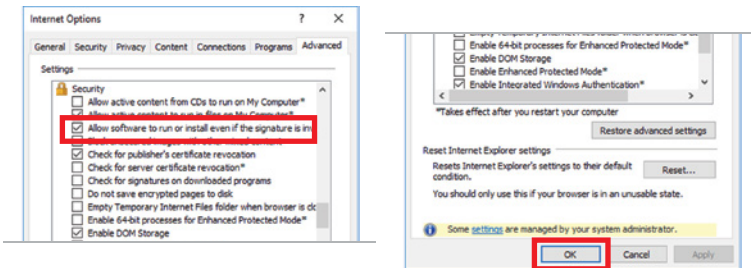
3. Click the Gear (Settings) icon, then Click **Internet Options**. Click the **Security** tab, then click on **Custom Level**.



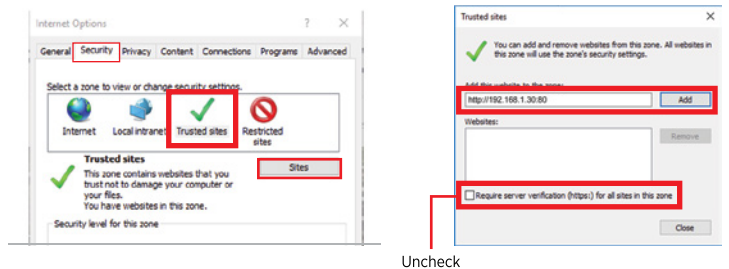
4. Scroll down until you see **ActiveX Controls and Plug-Ins**. Click **Disable** ActiveX filtering. Click **Prompt** Download signed & unsigned ActiveX controls. Click **OK** down below.



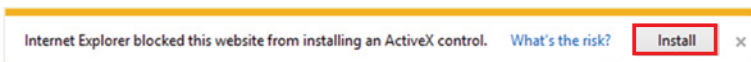
5. Go to the **Advanced** tab. Scroll down near the bottom where a security header and a gold lock icon can be found. Check the third option down from the header: **"Allow software to run even if the signature is invalid."** Click **OK** at the bottom.



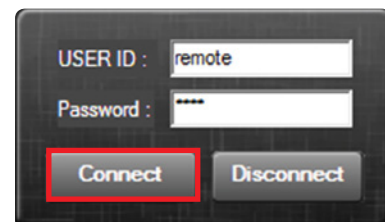
6. Go to the **Security** tab and select **Trusted Sites**. Click the **Sites** button below. On the sites page uncheck **"Require server verification for all sites."** Verify the DVR IP Address is in the window next to the **Add** button, then click the **Add** button. Click **OK**.



7. Refresh the web page and click **Install** when prompted.



8. Login to the Web Viewer with the default using the Client ID (**remote**) & Password (**1111**). After login, the camera images from the connected DVR will load into the multiplex window.



4 Setup DDNS

Clinton Electronics offers a free DDNS service that allows for uninterrupted remote connection to the DVR- even if the Public IP Address is Dynamic (most small business or residential users have a dynamic IP address that can change periodically).

- After logging onto the DVR using Internet Explorer, click on the **DDNS Settings** icon located next to the Web Viewer version number in the upper right hand corner of the Web Viewer screen.



- Change DDNS Select to: **no-ip.com**, then click **Create Account**.

The DDNS Setup window is shown with the DDNS Select dropdown menu set to 'no-ip.com'. The 'Create Account' button is highlighted with a red box. Other fields include DDNS User Name, DDNS Password, and DDNS Host Name.

- Create a User Name & Password, followed by contact information. Click the check box to agree to the Terms Of Service, then click **Next**.

The 'No-IP Setting: Create Account' window is shown. The 'You agree to the TOS' checkbox is checked and highlighted with a red box. The 'Next' button is also visible.

- Create a desired Host Name. Select **cedyn.com** from the Dropdown Menu. Enter the public IP Address that the DVR is connected to. (Public IP Address from Port Forwarding section) This is different than the IP Address of the DVR.

The 'No-IP Setting: Add Host' window is shown. The 'Host Name' dropdown is set to 'cedyn.com' and the 'IP Address' field contains '173.15.127.113'. A red arrow points from the 'Public IP Address (from Port Forwarding)' text to the IP Address field.

- Verify that all the information on this window is correct and click **OK** to confirm.

The 'No-IP Setting: Finish' window is shown, displaying a summary of the account information. The 'OK' button is highlighted with a red box.

- The completed DDNS account info will be displayed, click the check for **Router-IP Mode**. Click **Apply**.

The DDNS Setup window is shown with the 'Router-IP Mode' checkbox checked and highlighted with a red box. The 'Apply' button is also visible.

- The DDNS info will be pushed to the DVR automatically after Apply is clicked.

The DDNS SETUP screen is shown with a table of configuration details. The 'DDNS SERVER' section is highlighted with a red box.

NETWORK	DDNS SERVER
SERIAL	no-ip.com
DDNS	HOST NAME: GTDvr01.cedyn.com
E-MAIL	USER NAME: GTDvr01
NET FRAME	PASSWORD: *****
	ROUTER IP: ON
	STATUS: UNCHECKED CHECK
	URL: GTDvr01.cedyn.com

- Write down the DDNS Host Name for connecting externally with CEC Connect, AVMS or Web Viewer.

DDNS Host Name:

If the web port has been changed from the default of 80, it must be entered after the DDNS Host Name with a colon : and then the port number.
Example: <http://GTDvr01.cedyn.com:81>