clintonelectronics

DVR User Manual

Shadow • Pro • HD-SDI • Hybrid

TABLE OF CONTENTS

WARNING & COMPLIANCE

**BEFORE ATTEMPTING TO OPERATE THIS PRODUCT, PLEASE READ THE
USER'S MANUAL CAREFULLY**

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION :
TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK),
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL

The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION : To prevent electric shock and risk of fire hazards:
Do NOT use power sources other than that specified.
Do NOT expose this appliance to rain or moisture.

> **This installation should be made by a qualified service person and should conform to all local codes.**

FCC Compliant (USA)
This device has been tested and found to comply with the limits of Class A computing device pursuant to part 15 of the FCC rules.

UL Listed
UL Listing means that UL has tested representative samples of the product and determined that it meets UL's requirements. These requirements are based primarily on UL's published and nationally recognized Standards for Safety.

CE (Europe)
By affixing the CE marking, the manufacturer assures that the item meets all the essential requirements of all applicable EU directives.

RoHS
This directive restricts the use of six hazardous materials in the manufacture of various type of electronic and electrical equipment.

PSE (Japan)
The purpose of the Electrical Appliance and Material Safety Law is to prevent hazards and disturbances resulting from electrical appliances.

IMPORTANT SAFEGUARDS

1. Read Instructions
All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions
The safety and operating instructions should be retained for future reference.

3. Cleaning
Unplug this equipment from the wall outlet before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

4. Attachments
Never add any attachments and/or equipment without the approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

5. Water and/or Moisture
Do not use this equipment near water or in contact with water.

6. Accessories
Do not place this equipment on an unstable cart, stand or table. The equipment may fall, causing serious injury to a child or adult, and serious damage to the equipment. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

7. Power Sources
This equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your equipment dealer or local power company.

8. Power Cords
Operator or installer must remove power and communications connections before handling the equipment.

9. Lightning
For added protection for this equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the equipment due to lightning and power-line surges.

10. Overloading
Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

11. Objects and Liquids
Never push objects of any kind through openings of this equipment as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the equipment.

12. Servicing
Do not attempt to service this equipment yourself. Refer all servicing to qualified service personnel.

13. Damage Requiring Service
Unplug this equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:
A. When the power-supply cord or the plug has been damaged.
B. If liquid is spilled, or objects have fallen into the equipment.

C. If the equipment has been exposed to rain or water.
D. If the equipment does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the equipment to its normal operation.
E. If the equipment has been dropped, or the cabinet damaged.
F. When the equipment exhibits a distinct change in performance — this indicates a need for service.

14. Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

15. Safety Check
Upon completion of any service or repairs to this equipment, ask the service technician to perform safety checks to determine that the equipment is in proper operating condition.

16. Field Installation
This installation should be made by a qualified service person and should conform to all local codes.

17. Correct Batteries
Warning: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

18. Tmra
A manufacturer's maximum recommended ambient temperature (Tmra) for the equipment must be specified so that the customer and installer may determine a suitable maximum operating environment for the equipment.

19. Elevated Operating Ambient Temperature
If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature (Tmra).

20. Reduced Air Flow
Installation of the equipment in the rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.

21. Mechanical Loading
Mounting of the equipment in the rack should be such that a hazardous condition is not caused by uneven mechanical loading.

22. Circuit Overloading
Consideration should be given to connection of the equipment to supply circuit and the effect that overloading of circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
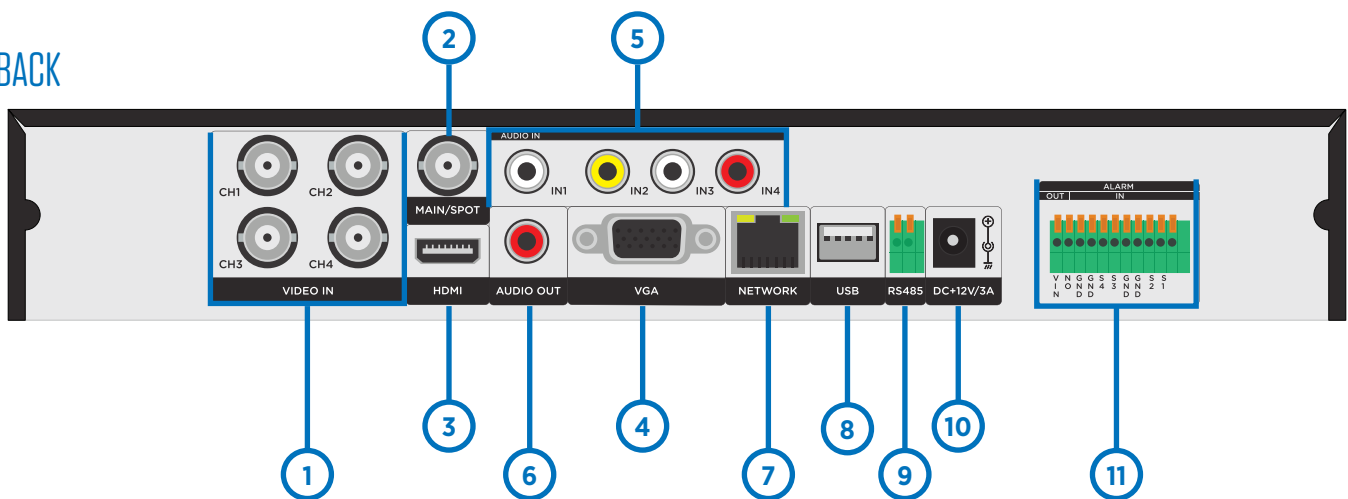
23. Reliable Earthing (Grounding)
Reliable grounding of rack mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

FRONT

SHADOW
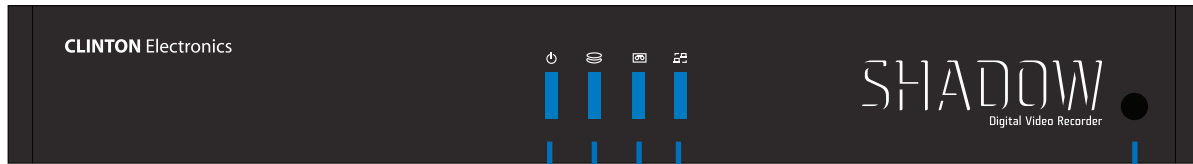Digital Video Recorder

clintonelectronics

1. USB Port - for Firmware Update and/or Video Backup

2. Power Indicator LED

3. Recording Indicator LED

4. Network Indicator LED

5. IR Sensor for Remote

BACK

CH1 CH2
CH3 CH4
VIDEO IN

MAIN/SPOT

HDMI

AUDIO IN
IN1 IN2 IN3 IN4
AUDIO OUT

VGA

NETWORK

USB RS485 DC+12V/3A

ALARM
OUT   IN
V N G G S S S G G S S
I O N N 4 3 N N 2 1
N D D   D D

1. BNC Camera Inputs

2. BNC Video Output - MAIN or SPOT
   MAIN or SPOT configured in DVR Settings

3. HDMI Video Output - MAIN

4. VGA Video Output - MAIN

5. RCA Audio Inputs

6. RCA Audio Output

7. RJ45 Network Connection

8. USB Port - Mouse

9. RS485

10. DC12V Power Input

11. Alarm Inputs/Outputs

4

FRONT

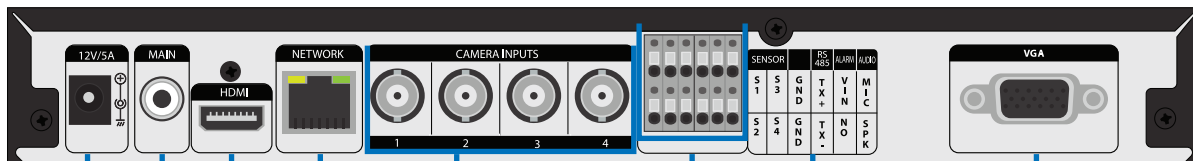**CLINTON** Electronics

SHADOW
Digital Video Recorder

1. Power Indicator LED

2. HDD Indicator LED

3. Recording Indicator LED

4. Network Indicator LED

5. IR Sensor for Remote

6. USB Ports:
   Top - for Firmware Update and/or Video Backup
   Bottom - for Mouse

SIDE

BACK

12V/5A   MAIN   HDMI   NETWORK   CAMERA INPUTS   1 2 3 4   SENSOR RS485 ALARM AUDIO   VGA

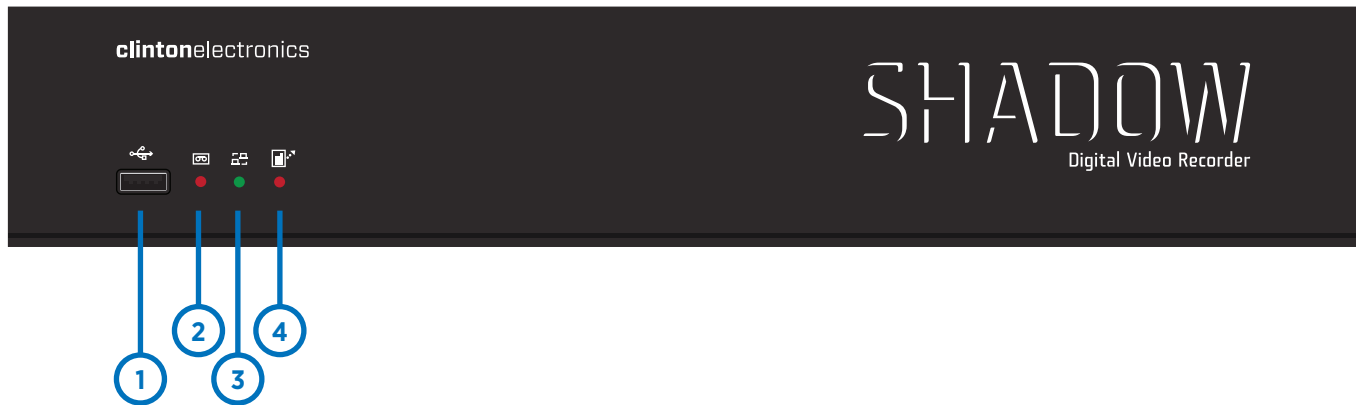| SENSOR		RS 485		ALARM		AUDIO	
S 1	S 3	G N D	T X +	V I N	M I C
S 2	S 4	G N D	T X -	N O	S P K

1. DC12V Power Input

2. RCA Video Output - MAIN

3. HDMI Video Output - MAIN

4. RJ45 Network Connection

5. BNC Camera Inputs

6. Sensor/Ground/RS485/Alarm/Audio Connections
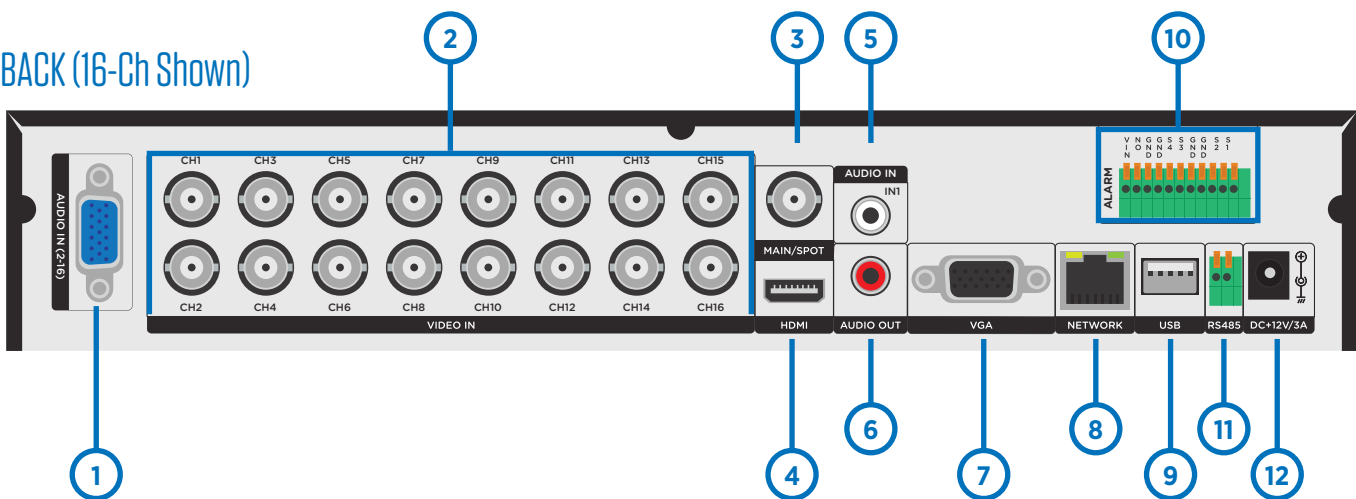
7. Connection Diagram

8. VGA Video Output - MAIN

5

FRONT

1. USB Ports:
   Top - for Firmware Update and/or Video Backup
   Bottom - for Mouse

2. Recording Indicator LED

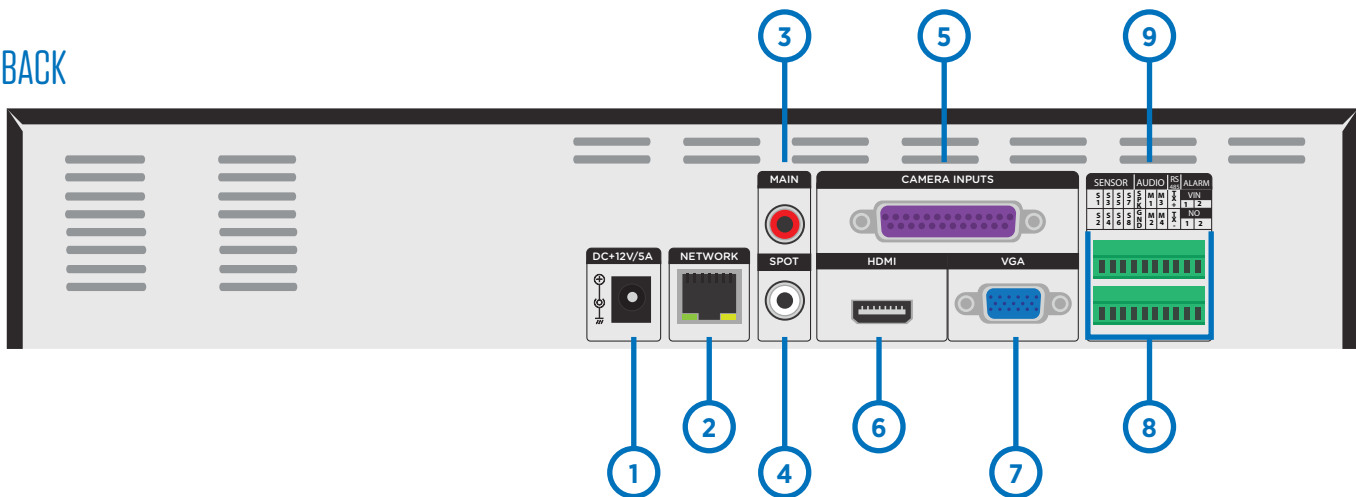**3.** Network Indicator LED

4. IR Sensor for Remote

BACK (16-Ch Shown)

1. Audio Input (Channels 2-16, uses RCA to Multi-Pin Plug Adapter)

2. BNC Camera Inputs

3. BNC Video Output - MAIN or SPOT
   *MAIN or SPOT configured in DVR Settings

4. HDMI Video Output - MAIN

5. RCA Audio Input (Channel 1)

6. RCA Audio Output

7. VGA Video Output - MAIN

8. RJ45 Network Connection

9. USB Port - for Mouse

10. Alarm Connection

11. RS485

12. DC12V Power Input

FRONT

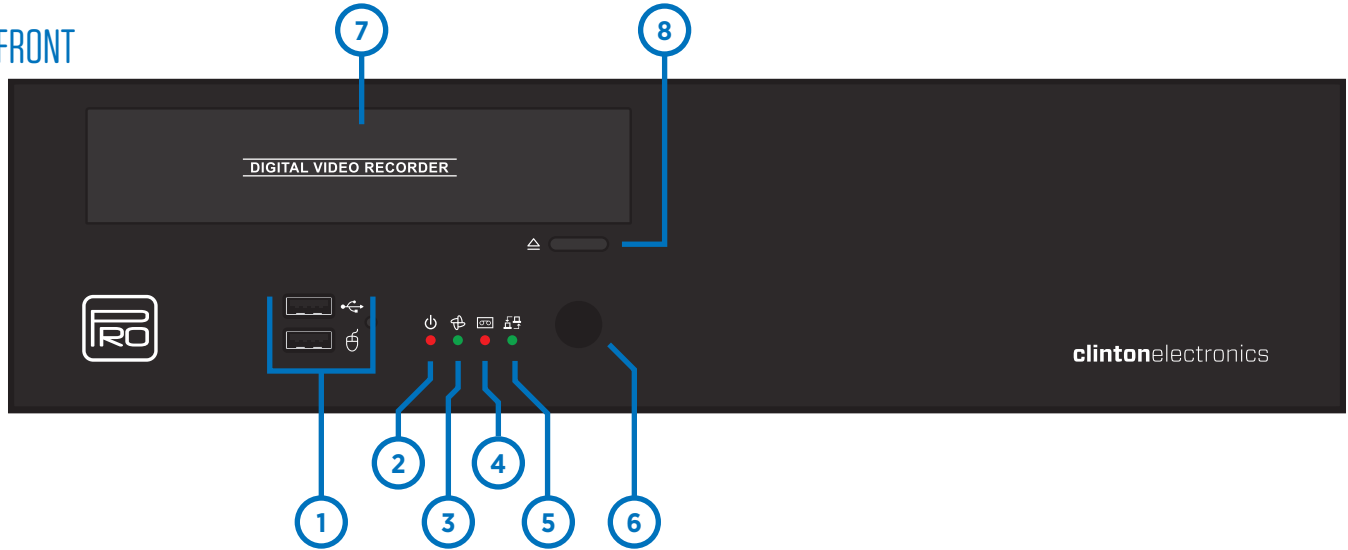**clinton**electronics

SHADOW
Digital Video Recorder

1. USB Ports:
Top - for Firmware Update and/or Video Backup
Bottom - for Mouse

2. Recording Indicator LED

3. Network Indicator LED

4. IR Sensor for Remote

BACK

DC+12V/5A NETWORK MAIN SPOT CAMERA INPUTS HDMI VGA SENSOR AUDIO RS ALARM

1. DC12V Power Input

2. RJ45 Network Connection

3. RCA Video Output - Main

4. RCA Video Output - Spot

5. Camera Inputs (uses BNC to Multi-Pin Plug Adapter)

6. HDMI Video Output - Main

7. VGA Video Output - Main

8. Sensor/Audio/RS485/Alarm Connections

9. Connection Diagram

FRONT

1. USB Ports:
Top - for Firmware Update and/or Video Backup
Bottom - for Mouse

2. Power Indicator LED

3. Internal Fan Indicator LED

4. Recording Indicator LED

5. Network Indicator LED

6. IR Sensor for Remote

7. CD-R/DVD-R Disc Drive

8. Disc Drive Eject Button

BACK (16-Ch Shown)
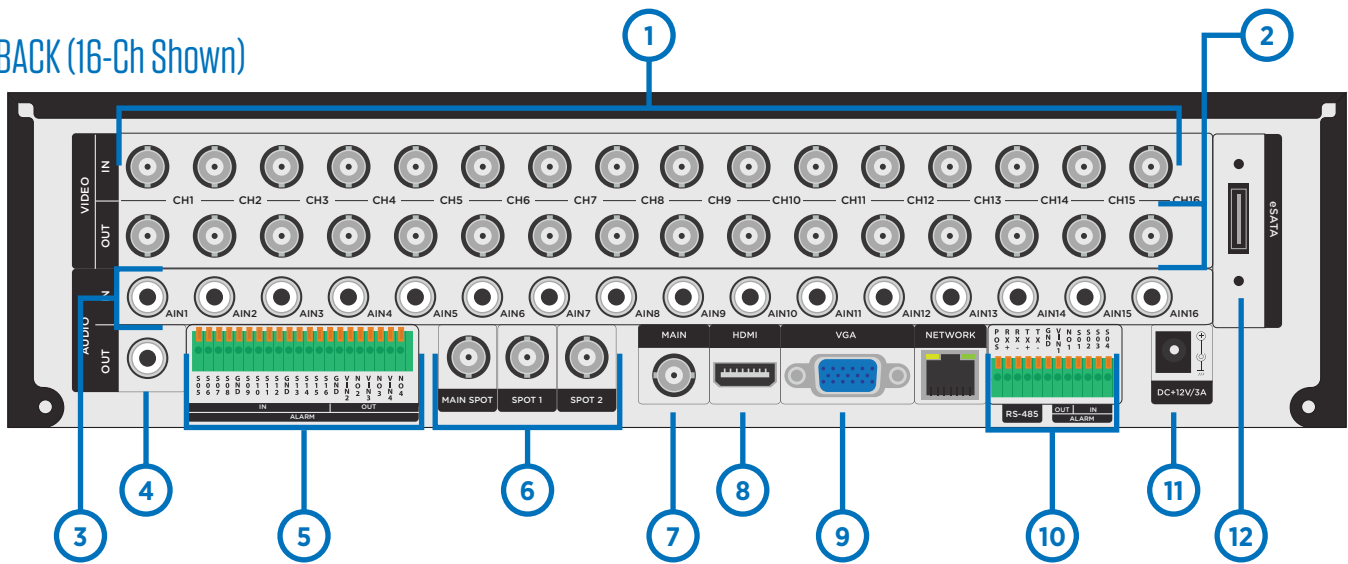
1. BNC Camera Inputs

2. BNC Camera Loop-Out/Outputs

3. RCA Audio Inputs

4. RCA Audio Output

5. Alarm Inputs/Outputs

6. BNC Video Out - SPOTS

7. BNC Video Out - MAIN or SPOT

8. RJ45 Network Connection

9. USB Port - for Mouse

10. RS485 & Alarm Inputs/Outputs

11. DC12V Power Input

12. eSATA Port

FRONT

1. USB Ports:
Top - for Firmware Update and/or Video Backup
Bottom - for Mouse

2. Power Indicator LED

3. Internal Fan Indicator LED

4. Recording Indicator LED

5. Network Indicator LED

6. IR Sensor for Remote

7. CD-R/DVD-R Disc Drive

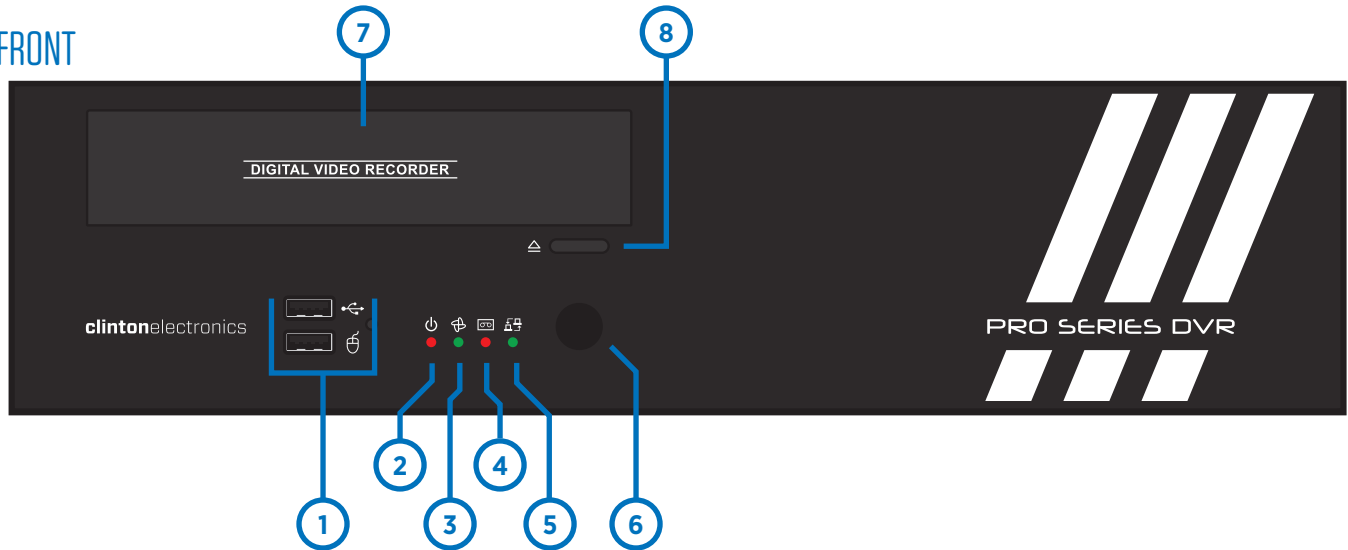**8.** Disc Drive Eject Button

BACK (16-Ch Shown)

1. BNC Camera Inputs

2. BNC Camera Loop-Out/Outputs

3. BNC Video Out - MAIN

4. BNC Video Out - SPOTS

5. Power ON/OFF Switch

6. Power Input

7. Alarm Output

8. Audio Input (uses RCA to Multi-Pin Plug Adapter)

9. Alarm Input

10. HDMI Video Out - MAIN

11. RS232 Connection

12. VGA Video Out - MAIN

13. RS485 Connection

14. eSATA Port
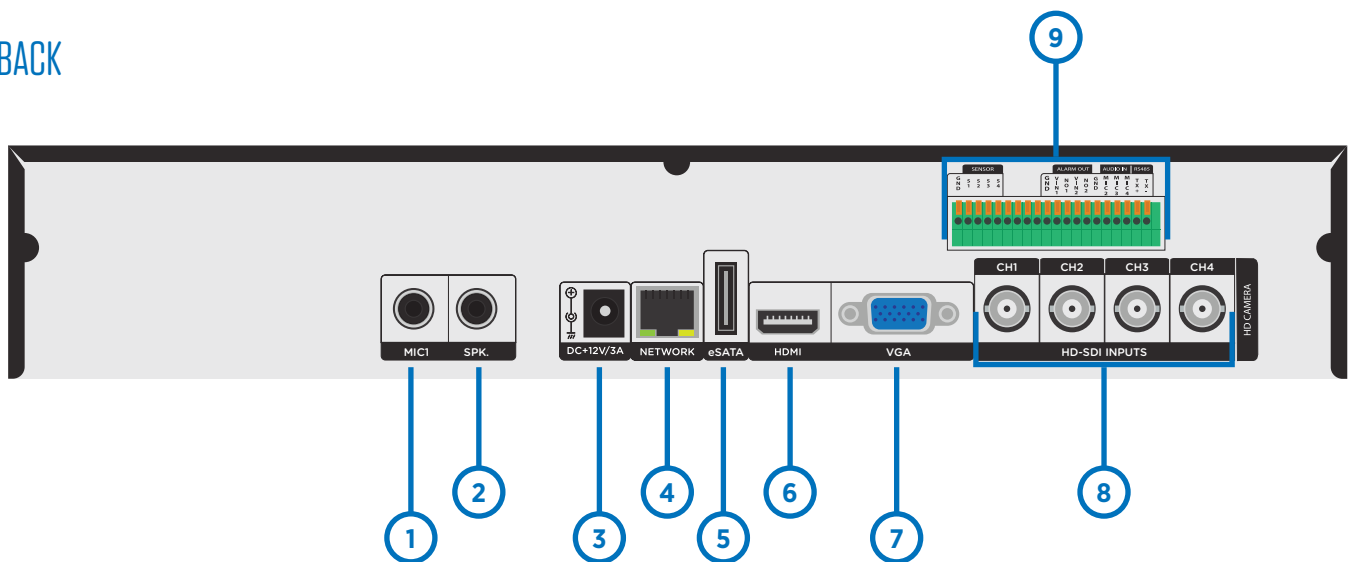
15. RJ45 Network Connection

HARDWARE OVERVIEW > HD Series 4-Ch

FRONT

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HD

1. USB Ports:
Top - for Firmware Update and/or Video Backup
Bottom - for Mouse

2. Recording Indicator LED

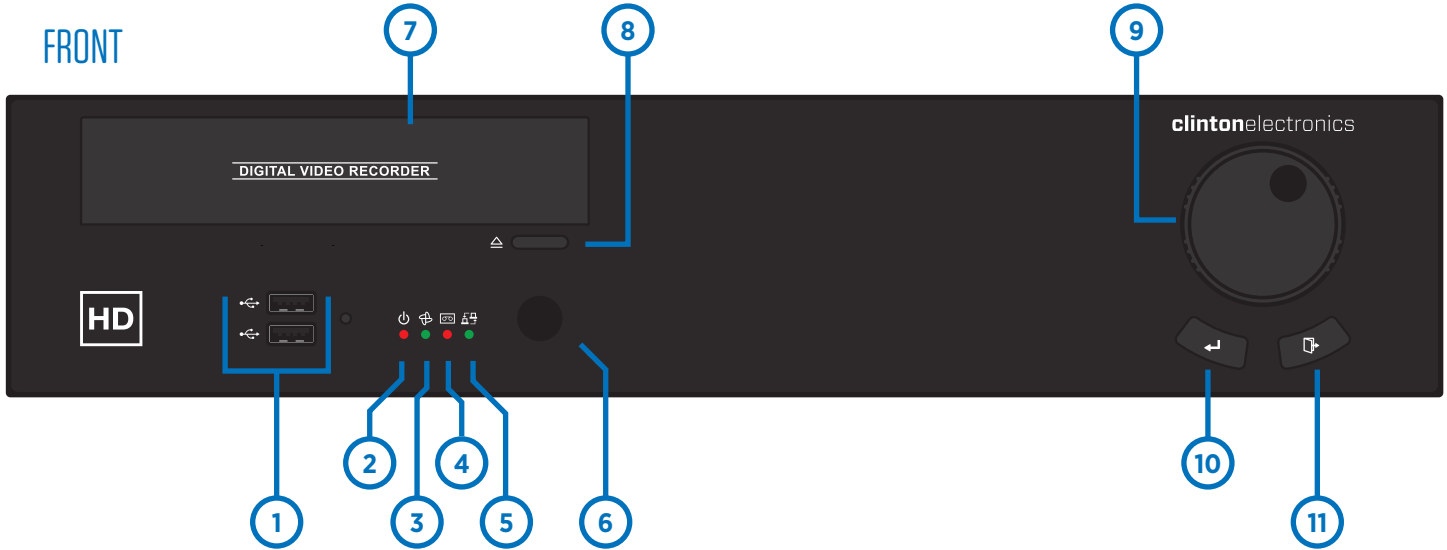**3.** Network Indicator LED

4. IR Sensor for Remote

BACK

MIC1   SPK.   DC+12V/3A   NETWORK   eSATA   HDMI   VGA   CH1 CH2 CH3 CH4   HD CAMERA
SENSOR   ALARM OUT   AUDIO IN   RS485
HD-SDI INPUTS

1. RCA Audio Input

2. RCA Audio Output

3. DC12V Power Input

4. RJ45 Network Connection

5. eSATA Port

6. HDMI Video Out - MAIN

7. VGA Video Out - MAIN

8. BNC Camera Inputs (HD-SDI)

9. Sensor / Alarm / Audio / RS485 Connections

For use with HD-SDI cameras only.
Standard/Analog cameras will not
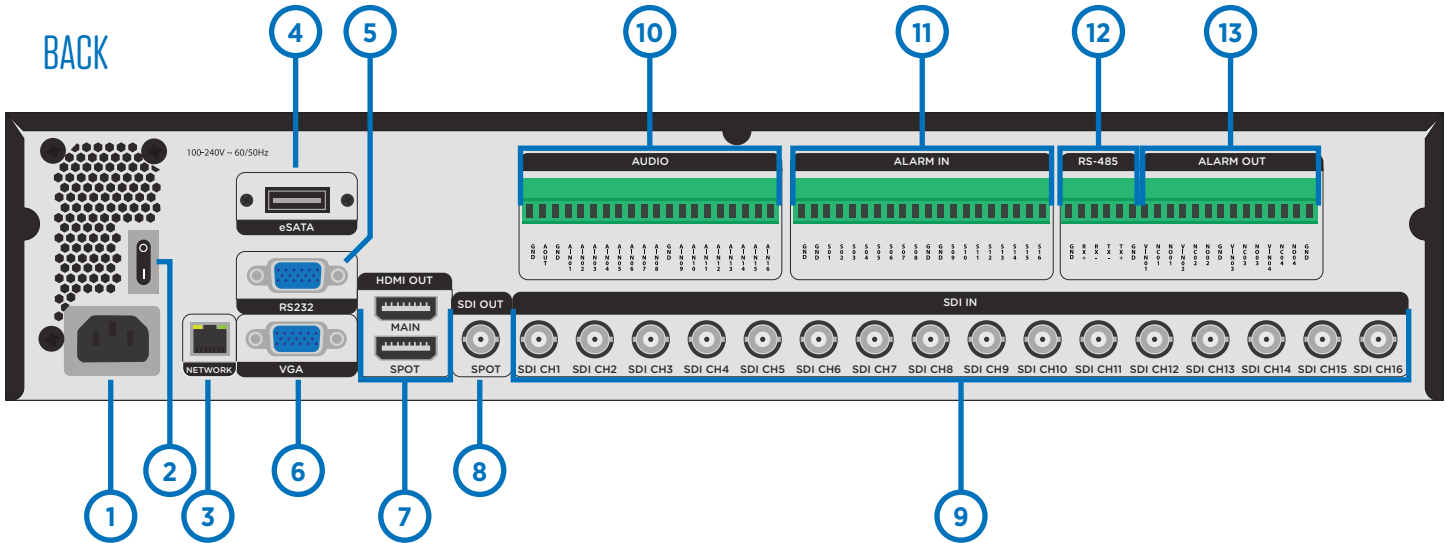function with this DVR.

HARDWARE OVERVIEW > HD Series 16-Ch

FRONT

DIGITAL VIDEO RECORDER

HD

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1. USB Ports:
   Top - for Firmware Update and/or Video Backup
   Bottom - for Mouse

2. Power Indicator LED

3. Internal Fan Indicator LED

4. Recording Indicator LED

5. Network Indicator LED

6. IR Sensor for Remote

7. CD-R/DVD-R Disc Drive

8. Disc Drive Eject Button

9. Jog Wheel

10. Enter

11. Back

BACK

100-240V ~ 60/50Hz

eSATA

RS232

NETWORK   VGA

HDMI OUT
MAIN
SPOT

SDI OUT
SPOT

AUDIO

ALARM IN

RS-485

ALARM OUT

SDI IN

SDI CH1 SDI CH2 SDI CH3 SDI CH4 SDI CH5 SDI CH6 SDI CH7 SDI CH8 SDI CH9 SDI CH10 SDI CH11 SDI CH12 SDI CH13 SDI CH14 SDI CH15 SDI CH16

1. Power Input

2. Power ON/OFF Switch

3. RJ45 Network Connection

4. eSATA Port

5. RS232 Connection

6. VGA Video Out - MAIN

7. HDMI Video Out - MAIN top, SPOT bottom

8. BNC Video Out - SPOT (HD-SDI only)

9. BNC Camera Inputs (HD-SDI only)

10. Audio Connections

11. Alarm Inputs

12. RS485 Connections

13. Alarm Outputs

For use with HD-SDI cameras only.
Standard/Analog cameras will not
function with this DVR.

11

HARDWARE OVERVIEW | Hybrid Series 16-CH

FRONT
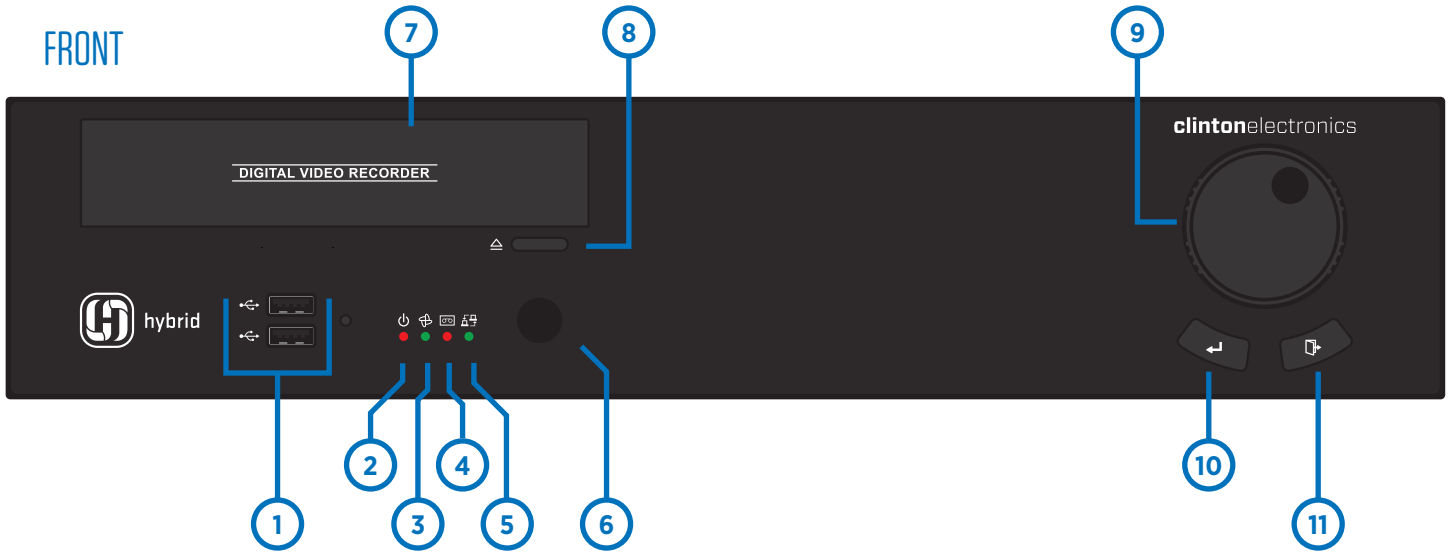
1. USB Ports:
   Top - for Firmware Update and/or Video Backup
   Bottom - for Mouse

2. Power Indicator LED

3. Internal Fan Indicator LED

4. Recording Indicator LED

5. Network Indicator LED

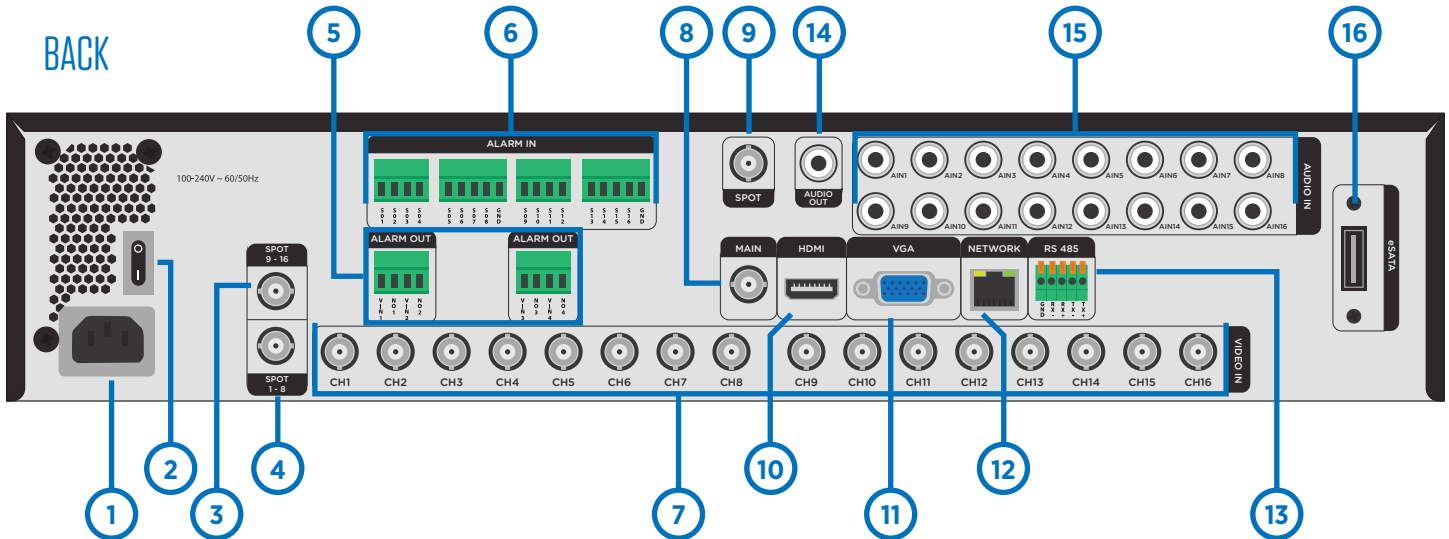6. IR Sensor for Remote

7. CD-R/DVD-R Disc Drive

8. Disc Drive Eject Button

9. Jog Wheel

10. Enter

11. Back

BACK

1. Power Input

2. Power ON/OFF Switch

3. BNC Video Out - SPOT (Channels 9-16)

4. BNC Video Out - SPOT (Channels 1-8)

5. Alarm Outputs

6. Alarm Inputs

7. BNC Camera Inputs (HD-SDI & Analog)

8. BNC Video Out - MAIN

9. BNC Video Out - SPOT (Channels 1-16

10. HDMI Video Out - MAIN

11. VGA Video Out - MAIN

12. RJ45 Network Connection

13. RS485 Connections

14. RCA Audio Output

15. RCA Audio Inputs

16. eSATA Port

CONNECTING YOUR DVR

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. *If planning to network the DVR*

3. Connect any RS485, Alarm or Audio connections.

4. Choose the desired main monitor connection; VGA / BNC / HDMI.

5. Plug the power cord into the back of the DVR.

6 . Plug the cord from the power supply into an appropriate surge protector.

7 . 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.

Clinton DVRs come pre-configured to automatically record video.

Basic DVR Connection Diagram

Camera

DVR

DVR Power Supply

Monitor

Modem/Router

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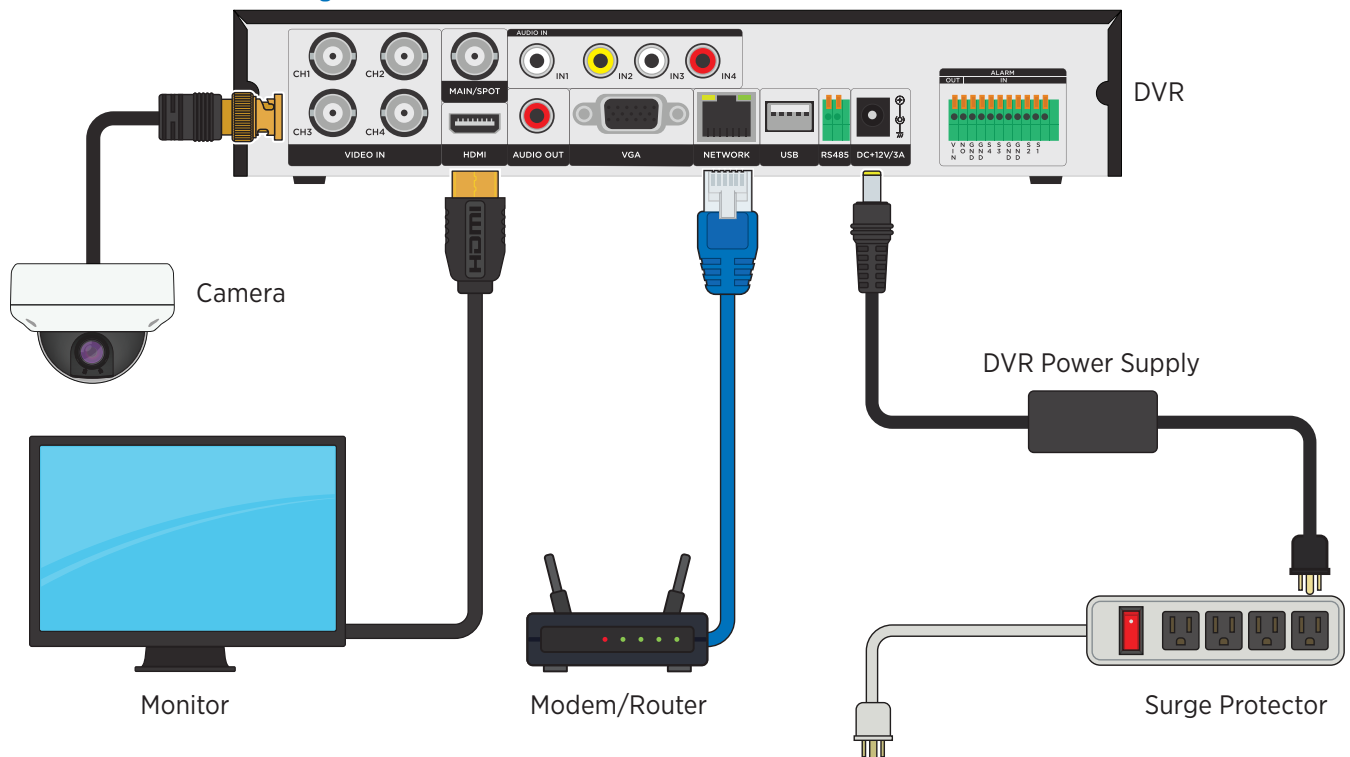
Ensure there is adequate ventilation around the DVR and do not cover or block the fan and/cooling vents. The DVR can over-heat if these are blocked.

Do not install the DVR into an environment that is exposed extreme temperates; attic/walk-in freezer. Do not install the DVR on top or near equipment that generates heat.
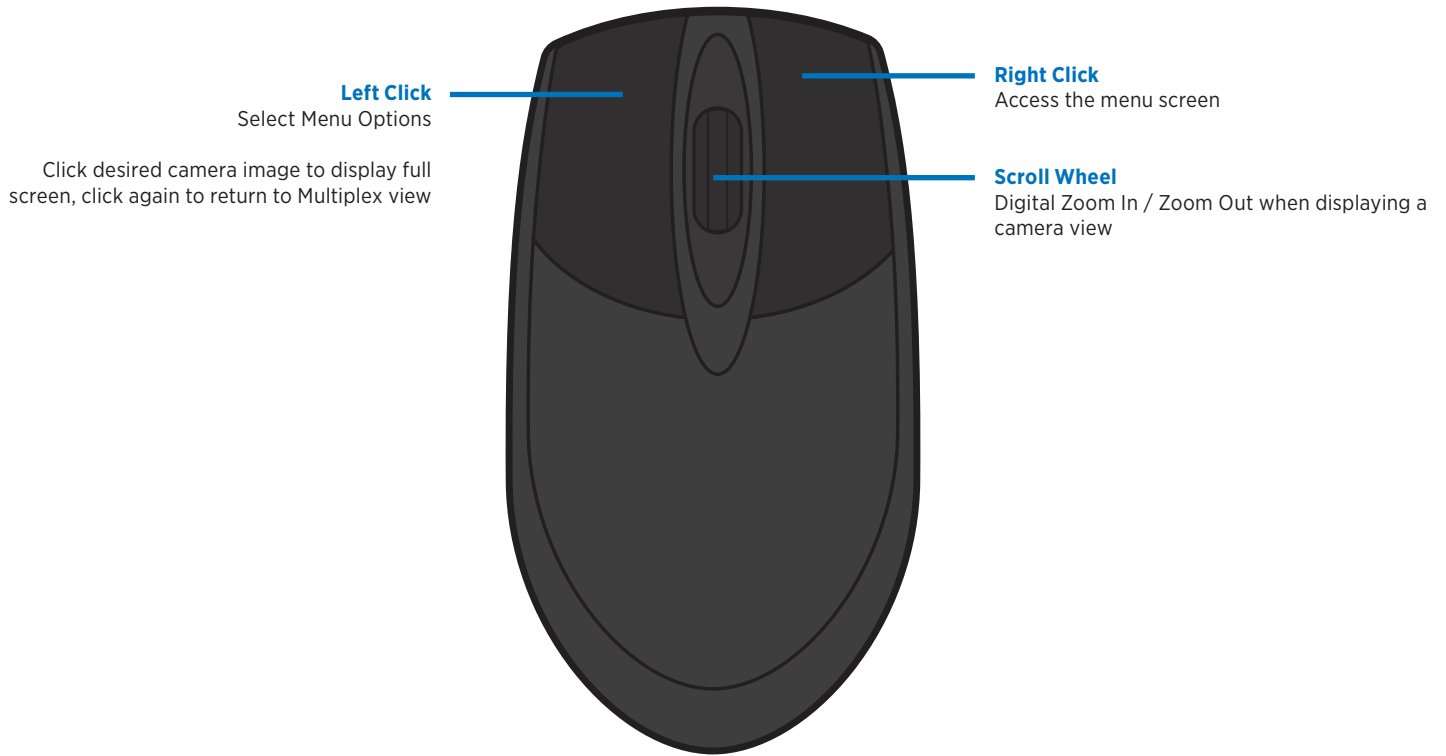
NOTICE It is strongly recommended to plug the DVR power supply into a surge protector.
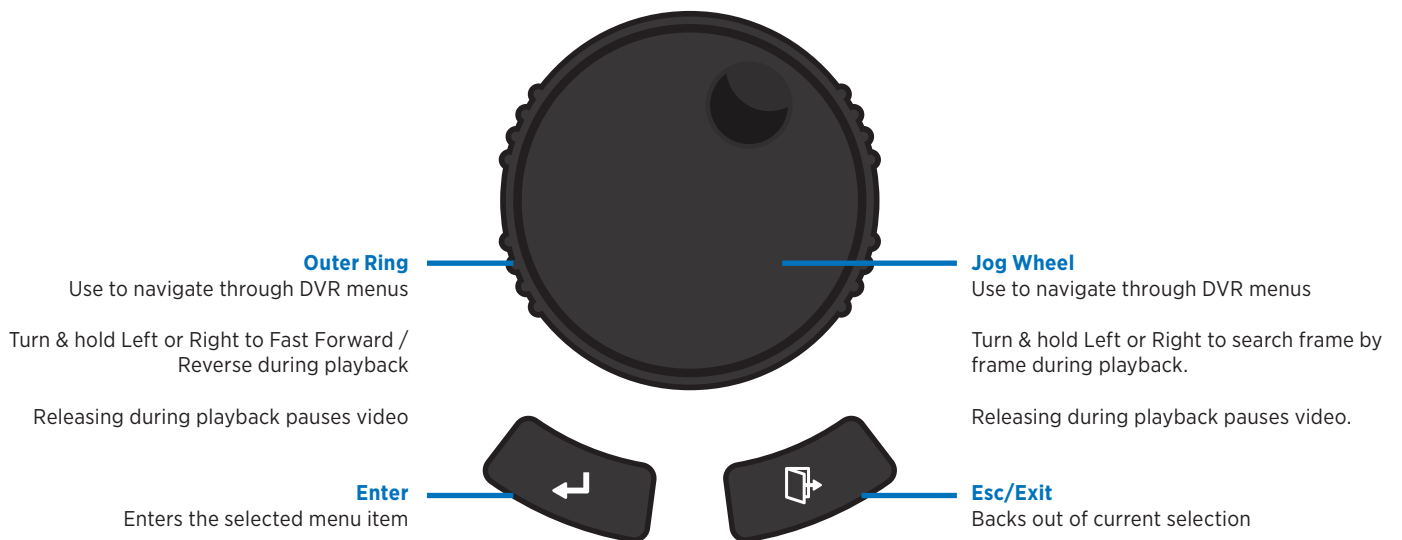
A surge protector will help protect the DVR from damage caused by unwanted surges/spikes in voltage and lightning.

MOUSE & JOG WHEEL OVERVIEW

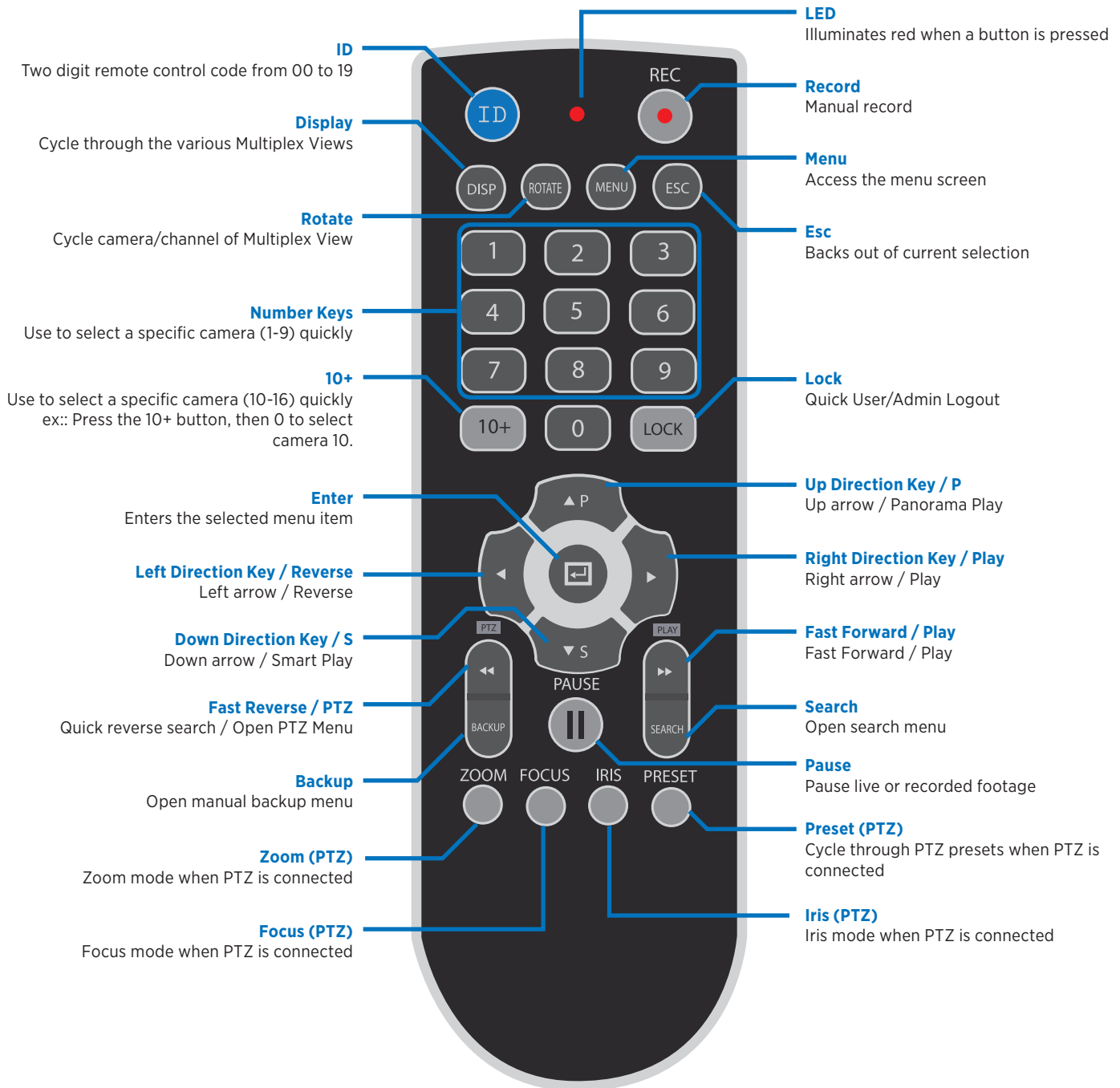Image may vary from actual mouse supplied with the DVR.

Left Click
Select Menu Options

Click desired camera image to display full screen, click again to return to Multiplex view

Right Click
Access the menu screen

Scroll Wheel
Digital Zoom In / Zoom Out when displaying a camera view

Use the Jog Wheel when a Mouse or Remote is not available. The Jog Wheel is currently available only on the CE-HDV16 & CE-HY16 model DVRs.

Outer Ring
Use to navigate through DVR menus

Turn & hold Left or Right to Fast Forward / Reverse during playback

Releasing during playback pauses video

Jog Wheel
Use to navigate through DVR menus

Turn & hold Left or Right to search frame by frame during playback.

Releasing during playback pauses video.

Enter
Enters the selected menu item

Esc/Exit
Backs out of current selection

REMOTE CONTROL OVERVIEW

Use the buttons on the remote to quickly jump to DVR menu options, change camera views and more.
One remote can control up to 20 DVRs.

ID
Two digit remote control code from 00 to 19

Display
Cycle through the various Multiplex Views

Rotate
Cycle camera/channel of Multiplex View

Number Keys
Use to select a specific camera (1-9) quickly

10+
Use to select a specific camera (10-16) quickly
ex:: Press the 10+ button, then 0 to select camera 10.

Enter
Enters the selected menu item

Left Direction Key / Reverse
Left arrow / Reverse

Down Direction Key / S
Down arrow / Smart Play

Fast Reverse / PTZ
Quick reverse search / Open PTZ Menu

Backup
Open manual backup menu

Zoom (PTZ)
Zoom mode when PTZ is connected

Focus (PTZ)
Focus mode when PTZ is connected

LED
Illuminates red when a button is pressed

Record
Manual record

Menu
Access the menu screen

Esc
Backs out of current selection

Lock
Quick User/Admin Logout

Up Direction Key / P
Up arrow / Panorama Play

Right Direction Key / Play
Right arrow / Play

Fast Forward / Play
Fast Forward / Play

Search
Open search menu

Pause
Pause live or recorded footage

Preset (PTZ)
Cycle through PTZ presets when PTZ is connected

Iris (PTZ)
Iris mode when PTZ is connected

ID
Two digit remote control code from 00 to 19 (Default code is 00). Hold down ID and press two digits, ex: 01, to change ID to 1. ID code should match DVR ID (Unit Address). The DVR ID can be found/changed in the General/System menu. A single remote control can be used to control up to 20 DVRs.

Pressing 1024768 + ENTER on the number pad will reset the screen resolution.

Login Box

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

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

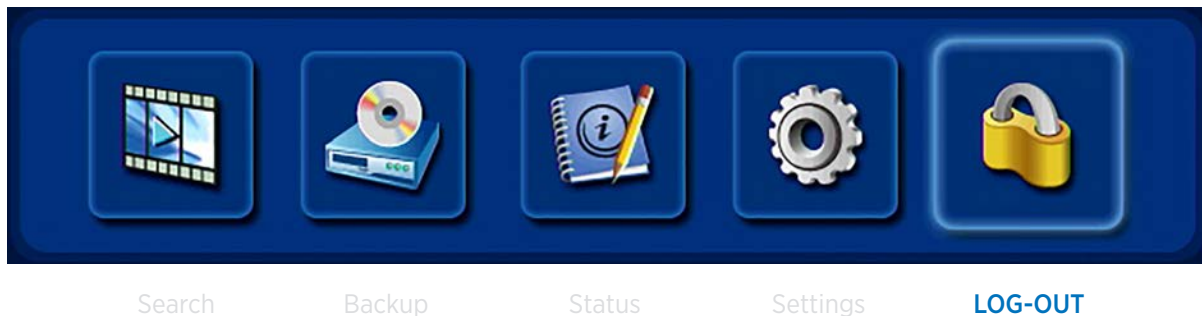Click the ✔ [Check Mark] with the mouse cursor or press the ENTER button on the remote to proceed.
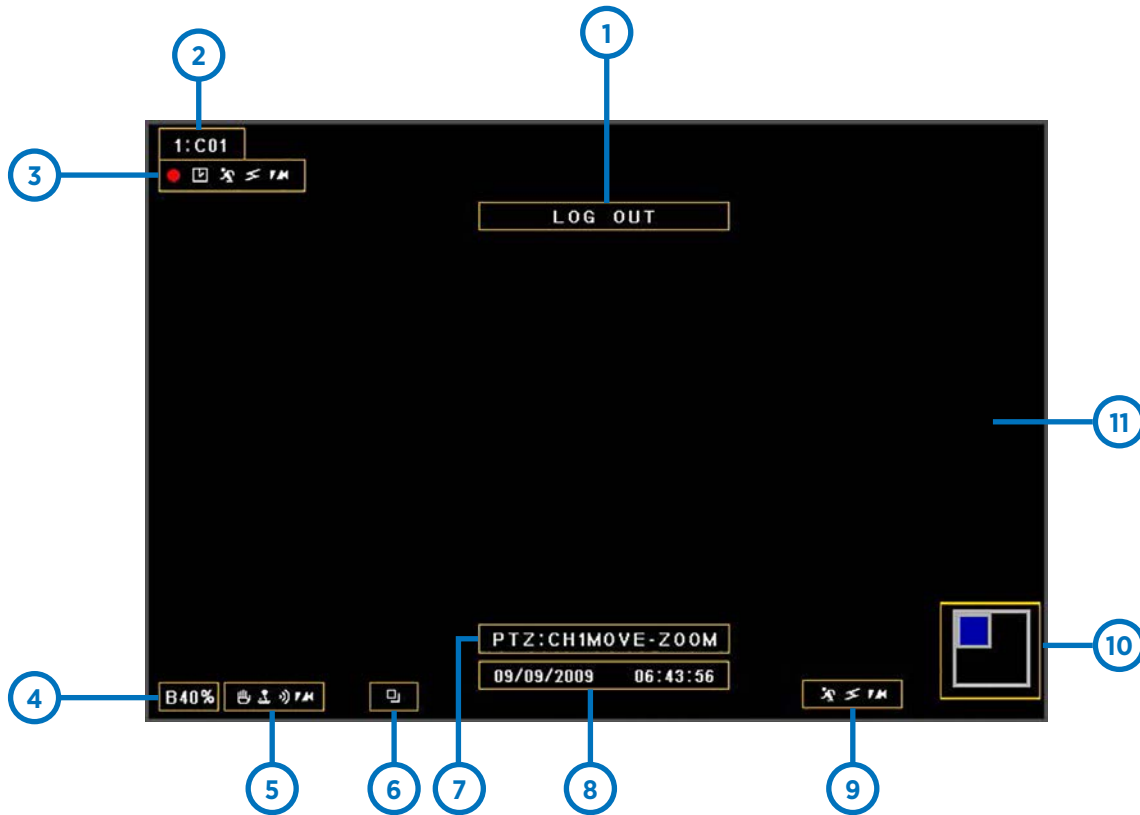
Default
ID:
root

Default
Password:
1111

CONFIRM

| ID | root |
| PASSWORD | **** |

| 0 | 1 | 2 | 3 | 4 | ← |
| 5 | 6 | 7 | 8 | 9 | |

Delete/Backspace

To edit User ID and Password information, please refer to SETUP/ACCOUNT.

Log-Out

Select the Log-Out icon (LOCK icon found at the top of the screen) to exit from your account. After a certain period of inactivity, the DVR will automatically log out the user. The automatic log out (Menu Timeout) can be adjusted in Setup Menu > General > System > Menu Timeout.

Search   Backup   Status   Settings   **LOG-OUT**

LIVE VIEW SCREEN LAYOUT

```
  2                          1
┌────────────────────────────────┐
│ 1:C01                          │
│ ● ⊡ ⚡ ≶ I▲                    │
│                                │
│              LOG OUT           │
│                                │
│                                │
│                                │  11
│                                │
│                                │
│     PTZ:CH1MOVE-ZOOM           │  ┌──┐
│     09/09/2009   06:43:56      │  │ ■│
│ B40% ☝⚡⟩I▲     ☳      ⚡≶I▲   │  └──┘  10
└────────────────────────────────┘
  4      5       6 7    8      9
```

1. Execution Information Message

2. Camera Name

3. Record Status Icons

4. Backup Progress Status %

5. Current Channel Information Icons

6. Sequence Icon: When screen image is cycled continuously

7. PTZ Control Information

8. Current Date and Time

9. Current Event Information

10. Zoom 2x / 4x Location

11. Live Screen Area

Record Status Icons:

🔴 Record Icon: Shows when recording is active.

⊡ Time Icon: Shows when time (schedule) record mode is active.

🐾 Motion Icon: Shows when motion occurs.

≶ Sensor Icon: Shows when the external sensor is triggered.

Current Channel Information Icons:

📷 Video-Loss Icon: Shows when no video input is sensed.

🔊 Audio Icon: Shows when audio occurs within the live screen.

✋ Freeze Icon: Shows when live view is paused.

🕹 PTZ Icon: Shows when in PTZ mode

If the Record Icon is BLUE, the DVR is in the Search/Playback mode.

MENU ICONS EXPLAINED

Top Menu

In the live screen, 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.

| Search | Backup | Status | Settings | Log-Out |

Main Menu (Middle)

Press the MENU button on the remote control, or right click with the mouse - then choose Main Menu.

| Setup | Camera | Event | Record | Network | Info |

Bottom Menu - Live View

In the live screen, 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.

| Full Screen | Quad Screen | 4-Mini 3-Large | 9 Cameras | 8-Mini 2-Large | 12-Mini 1-Large | 16 Cameras |

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.

MULTIPLEX VIEWS

From the bottom menu, select one of the options to change the way the camera images are arranged, or press the DISP (Display) button on the remote control.

To change the order of the cameras of displayed in the chosen Multiplex View (from the bottom menu), click the same icon again or press ROTATE on the remote control..

Full Screen

Quad Screen
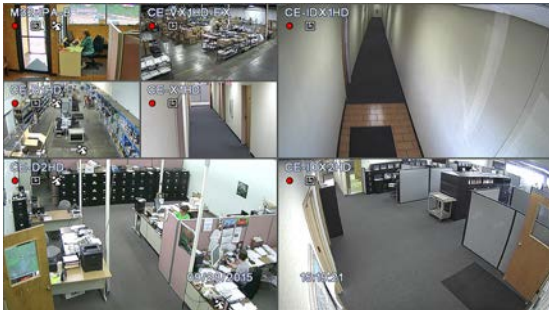
4-Mini / 3-Large

9 Cameras

8-Mini / 2-Large

12-Mini / 1-Large

16 Cameras

Press DISP to change Multiplex View

Press ROTATE to change camera order

MENU SCREENS EXPLAINED

Some menu screens have the ability to apply settings to every camera/channel simultaneously rather than individually. This saves time if each camera/channel setting is desired to be the same. When a **+** is found at the top of the column; ACTIVE **+** / LEVEL **+** / AREA **+**, clicking on the item will open a menu screen that will apply those settings to every camera in the column.

Some menu options are not editable and are indicated by having a darker color background.

Click the ✔ [Check Mark] button to confirm changes made. Click the **X** button or let the menu screen timeout to cancel any changes made to the DVR.

Click an item with a **+** to apply settings to every camera.
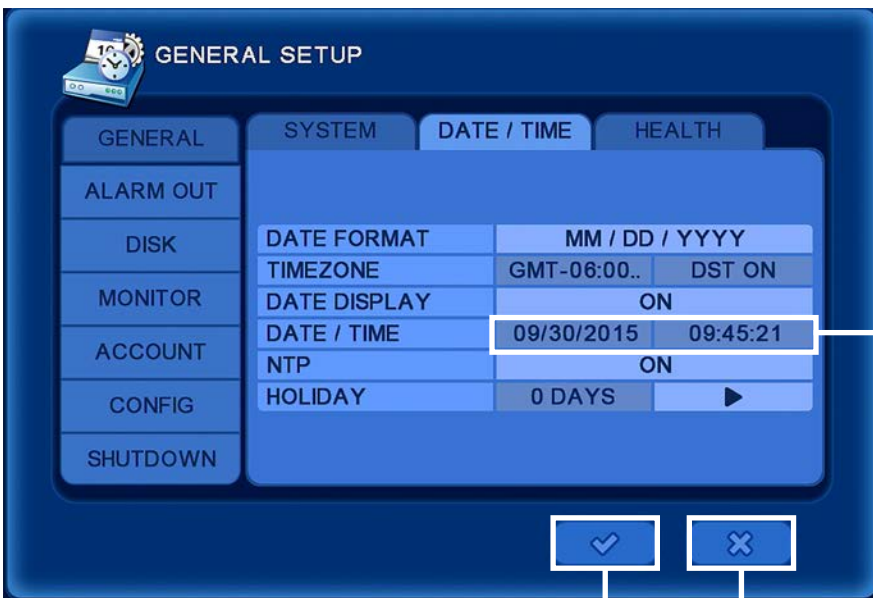
Darker colored boxes are not editable.

Click to confirm changes

Click to cancel changes

CAMEO MENU

In the live screen, right-click on the camera to adjust the settings. With the remote control, press the ENTER button to bring up the pink-frame channel selector. Press the ENTER button again to bring up the menu for the selected channel. From this menu the adjustment menu ca be accessed for the selected camera channel.

Right Click

Adjustment: Adjust brightness, contrast, saturation, and hue for live or recording view. *This feature will be added to HD-SDI based DVRs at a later date.*

Cameo Change: Swap the position of the selected camera with the position of another camera.
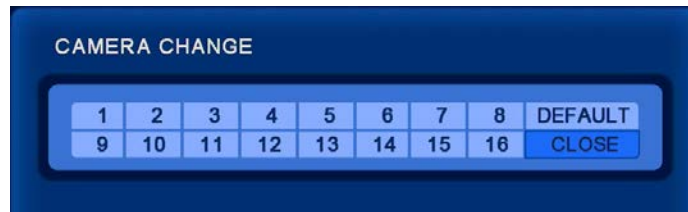
- Right click on the desired new location of the camera, select CAMEO CHANGE.
- Next select the existing camera you wish to move.
- To move the cameras back to their original positions, right click, select CAMEO CHANGE, then select DEFAULT.

Playback: Playback the last recording from the selected camera.

Freeze: Freezes the live screen. A ✋ icon will be present within the channel's frame when image is in freeze mode. To unfreeze, select **FREEZE** again under the menu. Cameras will unfreeze when cameras are swapped positions, cameras are attached or detached from the DVR, or other actions are executed. (The ✋ icon may remain on screen when this happens- To remove, select **FREEZE** again from the menu).

Freeze All: Freezes all live camera images. A ✋ icon will be present when image is in freeze mode. To unfreeze, select **FREEZE** *ALL* again under the menu.

Sequence: Cycle through live screen channels.

Cameo Sequence: Cycle through live attached camera channels. *Note: All screens except the 16 Camera screen will sequence any channel selected with cameras not shown on screen, if more cameras are connected than are shown on the screen.*

Page Sequence: Cycle through all channels (regardless of camera signal). *Note: 1, 4, 9 camera screens only. Not available on 4Ch Shadow.*
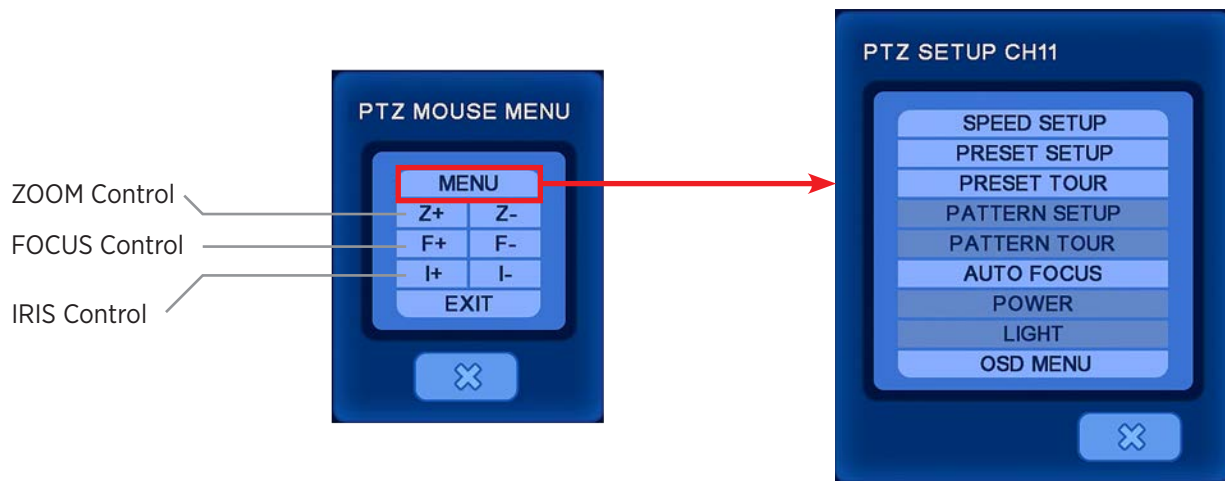
CAMEO MENU > PTZ Control

PTZ: Select to control an attached PTZ camera. *A PTZ camera must be connected in order to access this menu item.*

After selecting PTZ from the Cameo Menu - The PTZ icon⬛ will appear in the lower left corner of the screen when within PTZ mode. The following will appear on the bottom center of the screen after selecting PTZ from the main menu.

PTZ:CH1MOVE-ZOOM

Using Mouse:

Right clicking the mouse button will bring up the following control screen for Menu, Zoom, Focus, and Iris controls. Left click on the buttons to adjust your PTZ camera.

ZOOM Control
FOCUS Control
IRIS Control

PTZ MOUSE MENU
MENU
Z+ Z-
F+ F-
I+ I-
EXIT

PTZ SETUP CH11
SPEED SETUP
PRESET SETUP
PRESET TOUR
PATTERN SETUP
PATTERN TOUR
AUTO FOCUS
POWER
LIGHT
OSD MENU

Using Remote Control:

Press the enter button when the PTZ selection is highlighted on the camera menu.

Menu: In PTZ mode, press the Menu button to bring up additional PTZ controls such as Preset Setup, Auto Focus, etc.

Pan & Tilt: In PTZ mode, press the arrow buttons.

Zoom: In PTZ mode, press the following: Zoom In- Fast Reverse Button Zoom Out- Fast Forward Button

Focus: In PTZ mode, press the Focus button, then the following: Wide- Fast Reverse Button / Tele- Fast Forward Button

Iris: In PTZ mode, press the Iris button, then the following: Open- Fast Reverse Button Close- Fast Forward Button

CAMEO MENU

Cameo Menu / PTZ / MENU

Speed Setup: Set the PTZ camera speed (1 to 8).

Preset Setup: Set the preset position. If the position setup is saved, the PTZ camera will be directed to the set position by preset number.

Preset Tour: 6 different preset lists can be created. If the created preset lists are set to "ON", the PTZ will run the preset tour.

Pattern Setup: Pattern can be created by movement, zoom, focus, and iris. After pressing the BEGIN button, adjust the PTZ camera's position or zoom and press the END button. All directions (up, down, left, and right), zoom and iris settings are recorded. If using Clinton PTZs; set to Pelco Protocol to make this function available.

Pattern Tour: The PTZ camera moves according to the saved pattern.

Auto Focus: Turn On/Off auto focus. This feature is not available when using Clinton PTZ cameras.

Power: Turn On/Off power. This feature is not available when using Clinton PTZ cameras.

Light: Turn On/Off light. This feature is not available when using Clinton PTZ cameras.

OSD Menu: Turn On/Off OSD. This feature is not available when using Clinton PTZ cameras.

ZOOM: After clicking on Zoom, a red box will appear in the middle of the screen. With the mouse - Left click and hold down the mouse button to draw a zoom selection box. The selection will be highlighted in blue. Releasing the left mouse button will zoom to the selected area. The position of the zoomed selection is indicated on the PIP window in the lower right corner of the screen.

A small zoom selection will zoom to 4X.

A larger zoom selection will zoom to 2X.
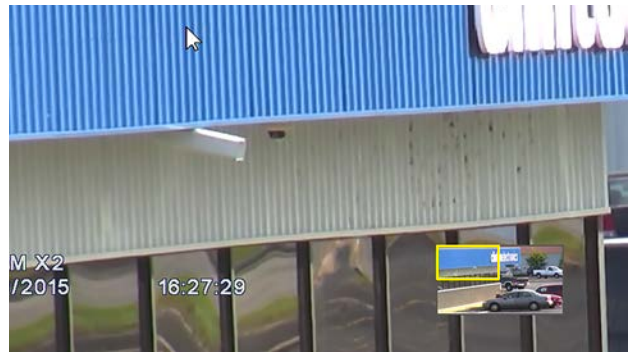
The YELLOW box in the PIP window shows where the zoomed area is in relation to the overall camera image.

AUDIO ON: Turn the audio on for the selected channel. This will only be used when an audio device is attached to the associated channel.

SETUP MENU

The SETUP menu can be accessed by pressing MENU on the remote control; by moving the mouse cursor to the top of the screen, clicking on the Settings icon, then clicking on the Setup icon; or by right clicking with the mouse, then selecting Main Menu.

Top Menu
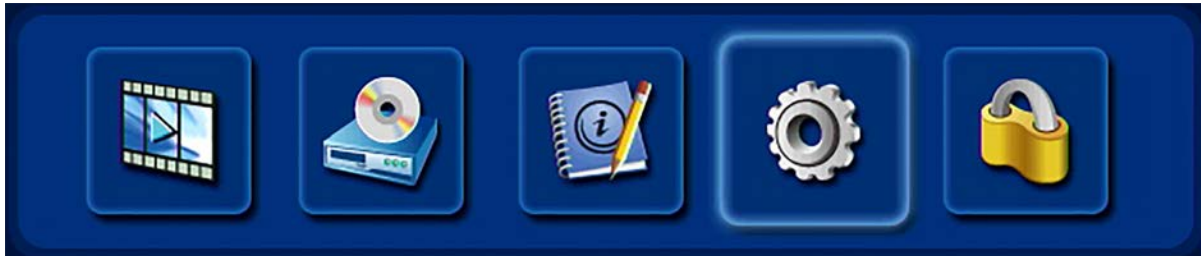
Search	Backup	Info	**Settings**	Log-Out

Main Menu (Middle)

SETUP	Camera	Event	Record	Network	Info
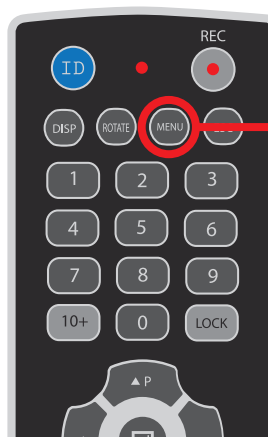
Press MENU to display the main menu screen
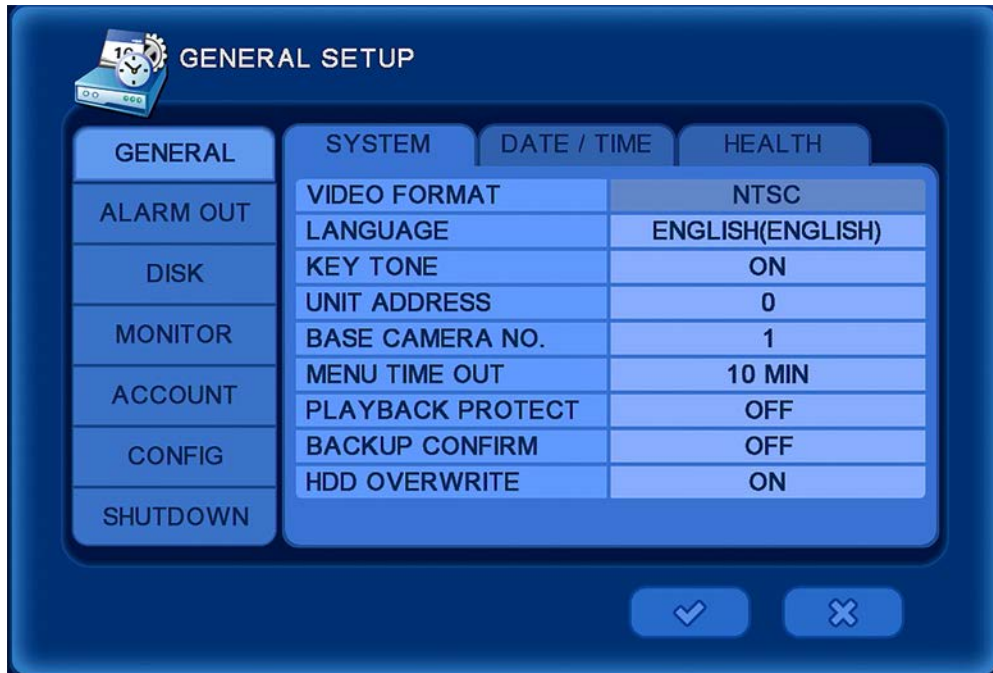
VIDEO FORMAT: Not adjustable from the DVR menu.

LANGUAGE: Select the language: English, German, French, Spanish, Japanese, Chinese, Italian, Russian, Dutch, or Korean.

KEY TONE: Turn On/Off the buzzer key tone.

UNIT ADDRESS: Set the DVR's ID number- This ID can be used when multiple DVRs are in the same location to control the DVRs individually with a single remote control. The DVR ID code must match the ID code from the remote.

BASE CAMERA NO: Set the beginning number of a camera. This can be useful to determine which camera is shown on-screen when multiple DVRs are being used.
 Example: If set to "17", the first camera number will be 17. If 16 cameras are attached, the camera numbers will range from 17 to 32.

MENU TIMEOUT: Set the length of time the menu will show on-screen before it disappears.

PLAYBACK PROTECT: Prohibit the playback of past video. (Select from 0-99 days)
 Example: If set to 3 days, the DVR will only save 3 days worth of data before it is overwritten.

BACKUP CONFIRM: Enable this setting to require the Admin login before you can backup.

HDD OVERWRITE: Select On/Off to overwrite recorded video when the Hard Drive is full.

If HDD Overwrite is set to OFF, recording will stop when the HDD is full.
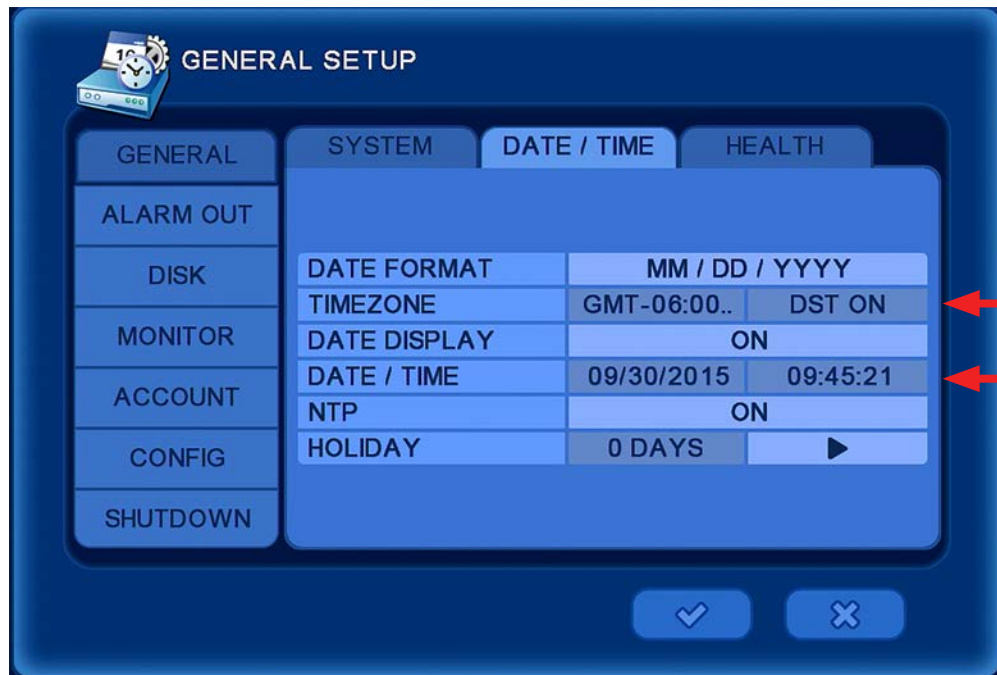
These areas are non-editable if NTP syncing is ON.

DATE FORMAT: Select the date format from the following: (YY/MM/DD)   (MM/DD/YY) (DD/MM/YY)

TIME ZONE: Select the time zone and daylight savings time. DST will be automatically set to OFF if time zone which does not use DST is selected.

DATE DISPLAY: Select ON for the date & time to be shown on the live view screen.

DATE / TIME: Change the date and time. Note: This information will be automatically synced when connected to the internet. See NTP setting below.

NTP: Select the usage of the NTP (Network Time Protocol). With NTP the DVR is synchronized with NTP server and will automatically obtain the correct time. The default server is [pool.ntp.org]. The user can input an alternate server if desired.

  Auto Sync: Synchronize automatically every day. Note: Before this option can be selected "Sync Now" must be selected first.

  Sync Now: Synchronize immediately.

HOLIDAY: Add or Delete a holiday. Holiday recording parameters can be chosen in the "Schedule Record" menu.
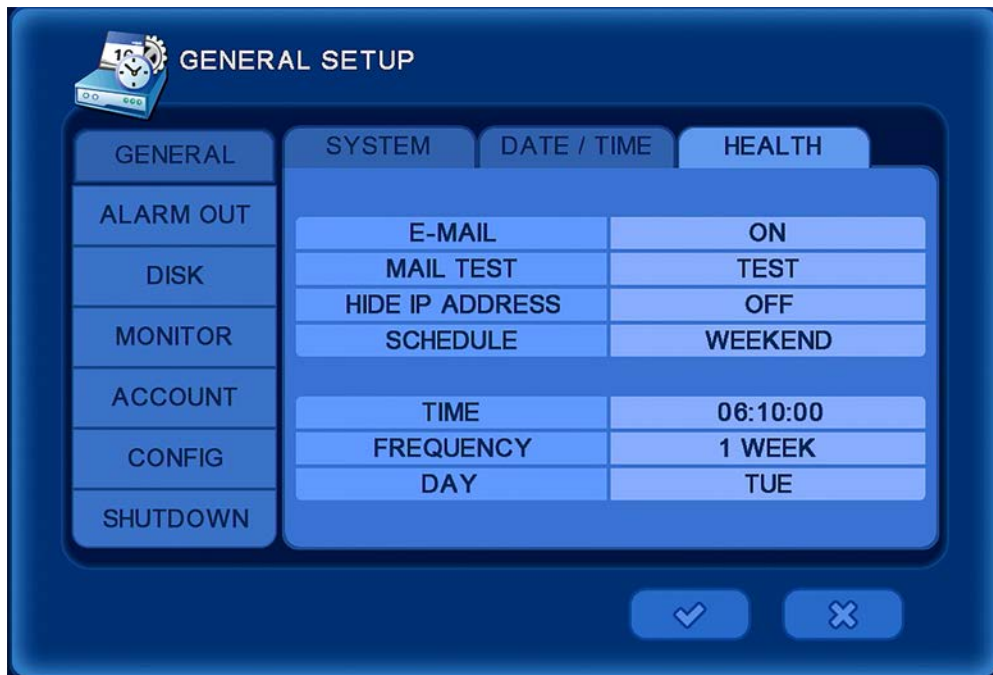
Health check will preform a test of camera connections, and will email the selected recipients a list of errors, and status of the device.

EMAIL: On / Off

MAIL TEST: Sends a test email to the email address entered in the Network/E-Mail menu (from the Main Menu).

SCHEDULE: Day / Weekend / Month.

TIME: Time to preform check.

FREQUENCY: Select the frequency the health check will activate. 1-365 days / Day of the week / 1-31
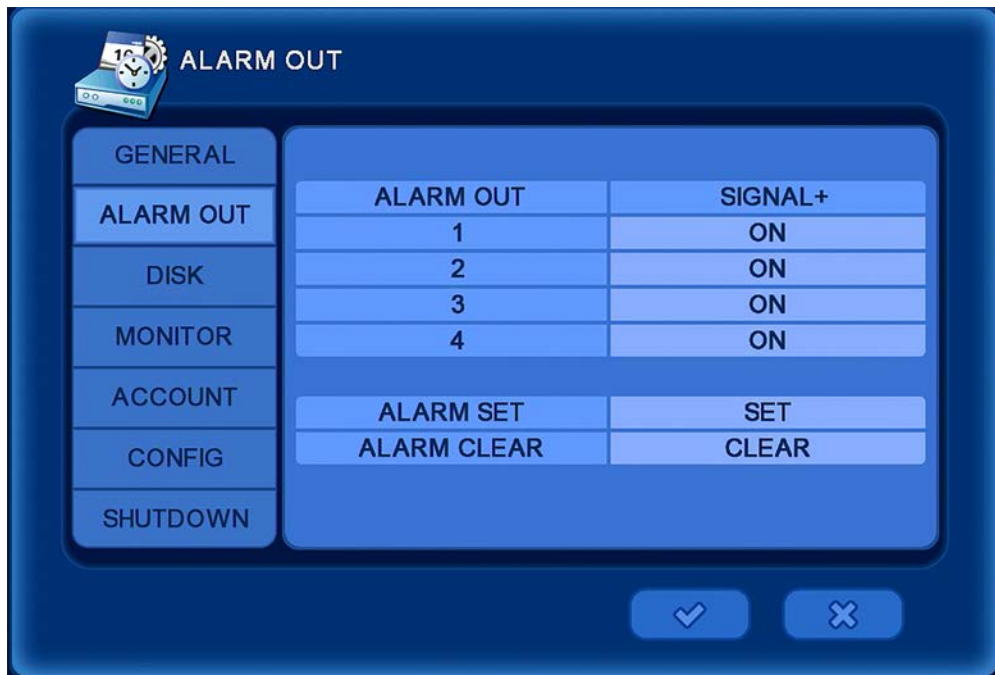
ALARM OUT: Column shows alarm outputs listed 1-4.

SIGNAL+: Select On/Off to enable or disable the corresponding alarm channel.

ALARM SET: Selecting SET will activate the connected alarm device for each output set to "ON".

ALARM CLEAR: Selecting CLEAR will cancel the alarm for the activated device in the "Alarm Set Test".

Alarm Inputs will vary depending on DVR model.
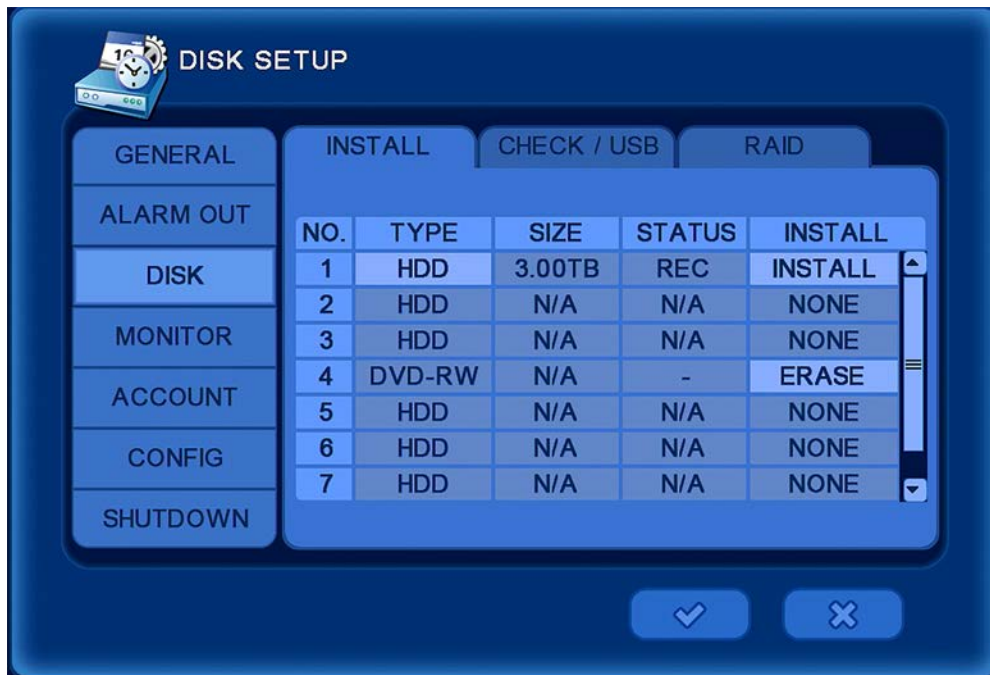
The install menu will display as a list of numbers which correspond to the type of device, the size of the device, and the status for each device. Selecting a highlighted type will display the information on the drive which includes the Vendor, Model number, Serial Number, and Status of the device.

INSTALL: Select to install a new device for the first time. This selection may be used to reformat an already installed device. Doing so will erase all currently stored data on the device.

ERASE: Erases the data on a re-writable disk.
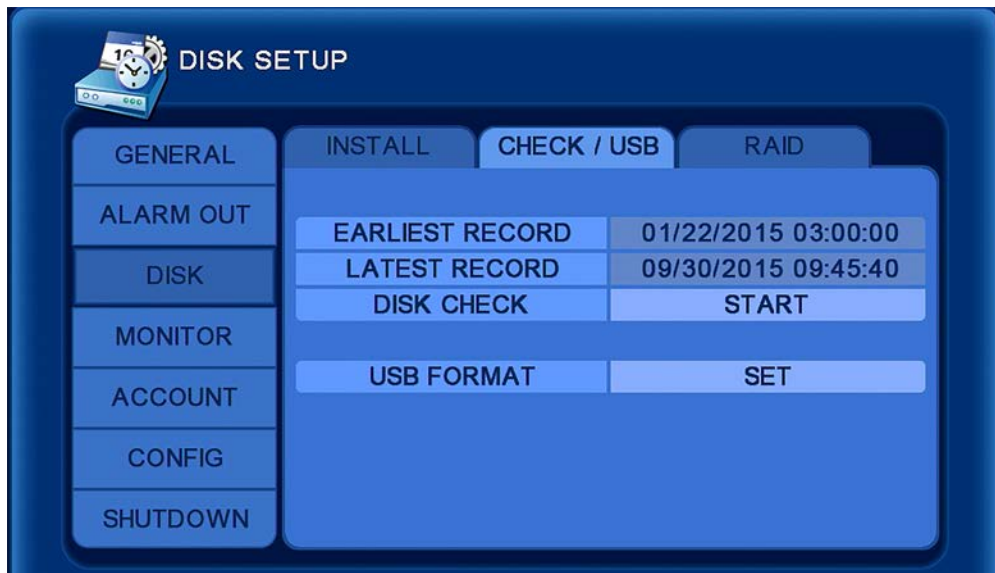
EARLIEST RECORD: Shows the earliest recorded data information.

LATEST RECORD: Shows the most current recorded data information.

DISK CHECK: Check the data from the earliest recorded data to the latest. This checks for errors in the HDD. Clicking START will open a progress window to show the percentage of the Disk Check completion. Once this process has been started it must run until 100% completion.

NOTICE	Performing Disk Check can take up to 30 minutes or more to complete depending on HDD size & how much recorded video is on the HDD.
⚠	Once started the Disk Check can not be canceled.

USB RESET: Select SET to reset the USB connection. *This option is not available on newer model DVRs.*

USB FORMAT: Select to format an inserted USB device. It is necessary for the USB device to be formated to FAT32 before backing up video to USB device. *NOTE: Formating the USB will erase all data on the device.*
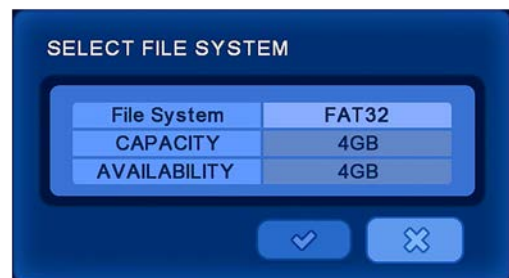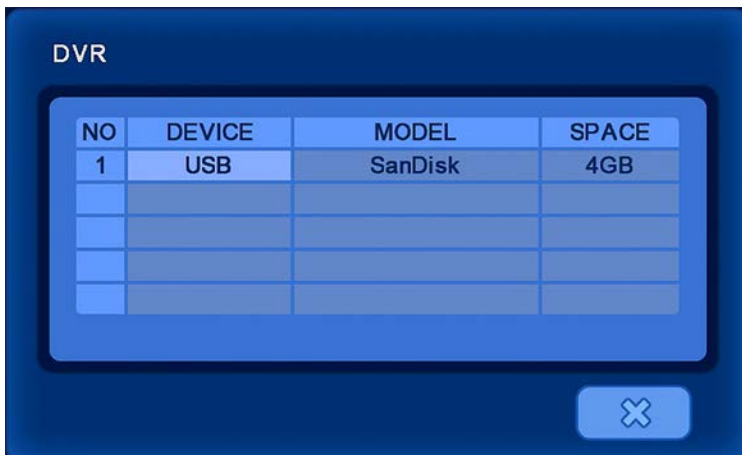
Click the desired device. Make sure the USB will be formated to FAT32 in the File System options.

SETUP MENU > Disk > RAID
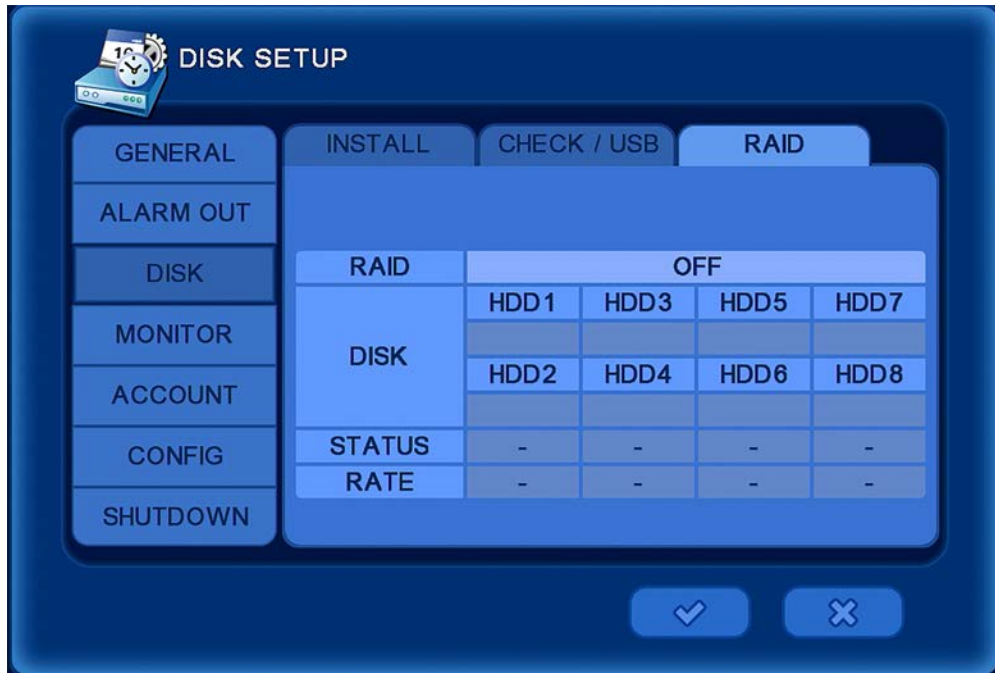
This feature is only available on the Pro-Series, HD-SDI (HDVR16), & Hybrid (HY16) DVRs. Clinton DVRs that are pre-built with RAID come set at RAID Level 1.

RAID: Displays RAID level.
   RAID 0 - Splits data evenly between 2 HDDs. If one HDD fails, the data will be lost- there is no copy of the data.
         RAID 0 build time is typically around 5 minutes.
   RAID 1 - Mirrors/copies the same data to 2 HDDs. If one HDD fails, the second HDD will still have recorded data.
         RAID 1 build time will range from 24-48 hours.

DISK: Displays disk status of installed HDDs.

STATUS: Displays RAID build status during setup and installed status after setup.

RATE: Display the progress during RAID setup.

NOTICE	• A minimum of 2 hard drives must be installed for RAID.
⚠	• The RAID HDD should be the same model and same size (i.e. 1 TB, 2 TB, etc..) as primary Hard Drive.
	• Reboot time is longer than normal boot time when initializing RAID. (About 5 minutes)

WARNING!	• When RAID is built, all previous HDD information will be deleted. Backup needed data before starting RAID setup.
⚠	• Disk errors can occur if RAID HDD brand or model is different from primary

RESOLUTION: Select the resolution for the connected MAIN monitor. Selecting a higher resolution than the monitor may be capable of can cause no image to be displayed and a SYNC OUT OF RANGE MESSAGE.

Selecting SWITCH or AUTO from the options will automatically select the best resolution for the monitor.

BORDER COLOR: Change the border color of the camera Multiplex views.

ALPHA BLENDING: Adjust the transparency of the DVR's On Screen Display Menu.

- If a "SYNC OUT OF RANGE" message is displayed on the monitor, the selected resolution is too high for the monitor.
- Press 1024768 then ENTER on the remote control to reset the monitor to 1024x768 resolution.
- Press 123123123 then ENTER on the remote to select the next lowest resolution.

SETUP MENU > Account
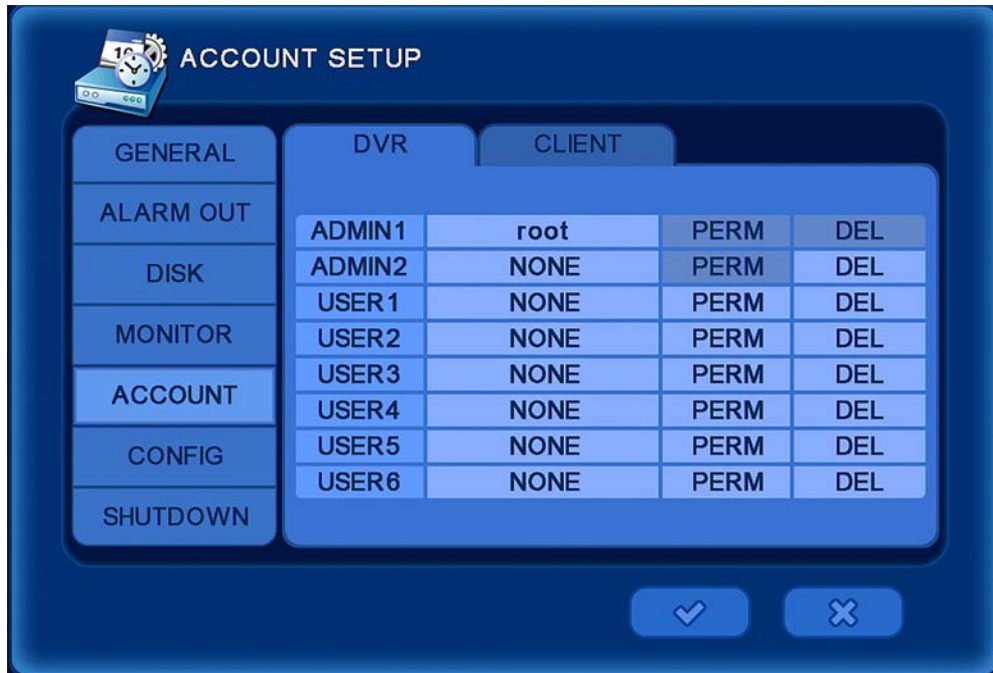
Select the DVR tab to configure login settings at the DVR. Select the Client tab to configure login settings for network access (SMS Software, Web Viewer or CEC Connect).

ADMIN: Administrators (up to 2 Admin) will have complete access to all DVR features.

USER: General users will have restricted access. They will not have access to DVR settings.

PERM: Give permission to USER accounts to allow access to Playback video, Backup video and PTZ control.

DEL: Delete the selected USER account. The ADMIN1 account can not be deleted.

When adding new user: input new ID and password. When deleting a user, confirm again to complete.
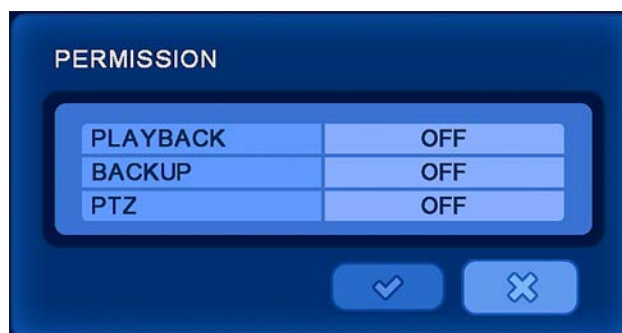
Default ADMIN1 password is 1111. Initial ADMIN1 user name & password can be modified, but can not be deleted.
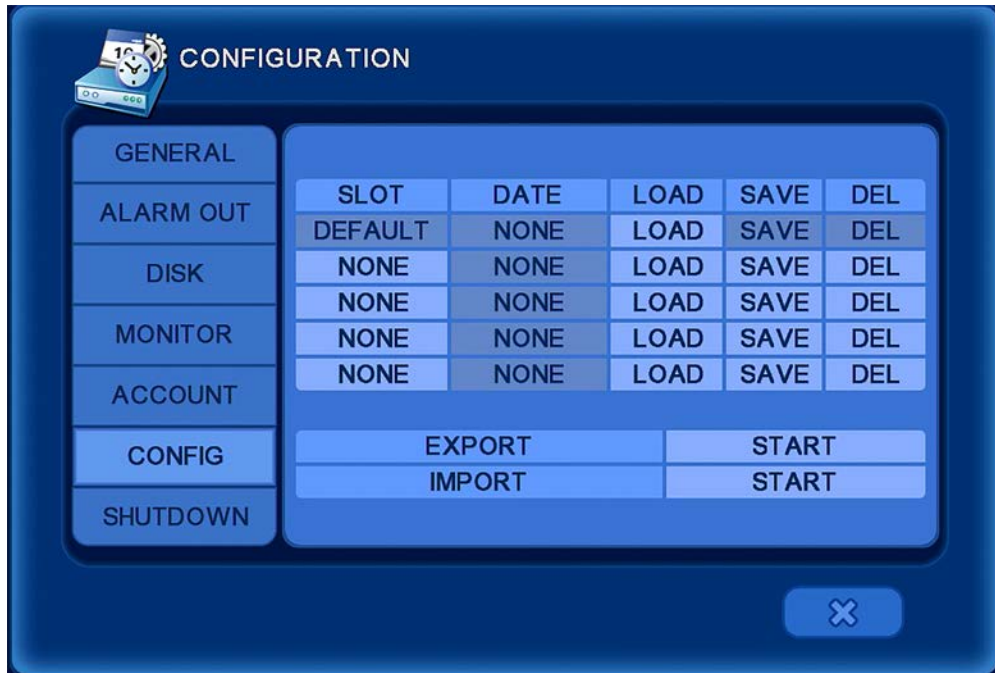
Setting up a configuration allows all the settings to be saved to the DVR. After the DVR setup has been completed, the settings can be saved as a configuration. If something is changed in the future the original configuration can be restored. Another DVR(s) can be quickly setup with the same settings by exporting the configuration to a CD or USB drive, and then importing to another DVR.

SLOT: Label the slot to load or save configuration.

DATE: Displays the date the configuration was saved.

LOAD: Load the saved configuration.

SAVE: Save the current configuration.

DEL: Delete the configuration data on the Slot.

EXPORT: Export the current configuration to USB device or DVD.

IMPORT: Import the configuration data from USB device or DVD to the DVR. Camera, recording, system, and/or network settings can be imported.

SETUP MENU > Shutdown
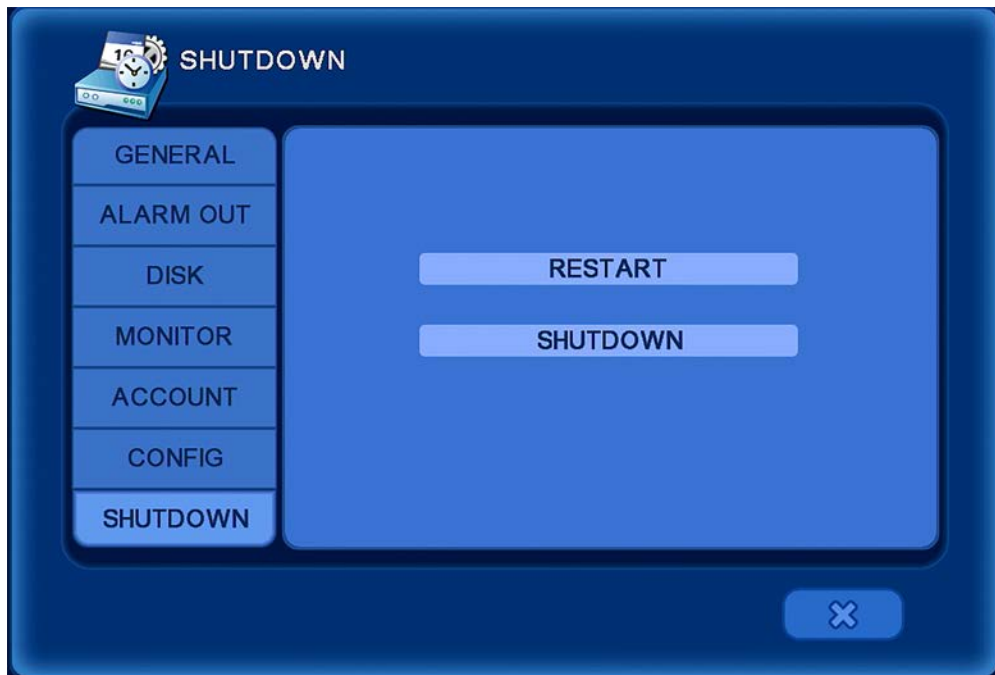
RESTART: Restart the DVR. This is typically done to prepare the DVR for a firmware update.

SHUTDOWN: Shutdown the DVR. This is the recommended way to safely power off the DVR. Flipping the power switch on the back of the DVR or disconnecting the power while the DVR is ON may result in damage to the hard drive.

CAMERA MENU > Camera

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

Main Menu (Middle)

Setup	Camera	Event	Record	Network	Info

CAMERA LABEL: Select the way in which the camera label is shown on the live screen. Each camera can show the camera number [NUMBER], camera name [NAME], both of these by selecting [ALL], or to display none of these by selecting [OFF].

NAME: Change the camera name. (The virtual keyboard will appear when a camera's name is selected.)

INSTALL: Install or Uninstall a camera; when "Install+" is set to OFF the camera for the selected channel will not be recorded or show on screen.

HIDDEN: Hide a selected channel on live view. When hidden the camera will not show on live view, but the camera's signal will continue to record as normal.

CAMERA MENU > PTZ

PTZ SETUP

CAM	PORT+	ID	TYPE+
1	9600-8N1	1	NONE
2	9600-8N1	2	NONE
3	9600-8N1	3	NONE
4	9600-8N1	4	NONE
5	9600-8N1	5	NONE
6	4800-8N1	2	CLINTON
7	9600-8N1	7	NONE
8	9600-8N1	8	NONE

Sidebar menu: CAMERA, PTZ, SPOT, SEQUENCE, PRIVATE ZONE

PORT: Set the Baud Rate, Data Bit, Parity & Stop Bit parameters for the attached PTZ camera. Refer to the PTZ camera's manual for PORT settings and instructions on connecting to the RS-485 port.

ID: Select an ID number for the associated PTZ camera.

TYPE: Select the PTZ type from a list of common PTZ protocols.

> For Clinton PTZ cameras:
> 4800 Baud Rate / 8 Data Bit / NO Parity / 1 Stop Bit

A Spot monitor will only show live camera footage. DVR menu functions will not be displayed on a Spot monitor. Spot monitor options vary depending on the model of the DVR.

CAMERA: Select the camera(s) to be displayed on the Spot monitor. Select ALL to display every available camera. Choose specific cameras to only display those cameras on the Spot monitor.

DEFAULT: Select the camera to display on spot monitor when sequence is off.

SEQUENCE: Select On/Off to enable/disable camera sequencing on the spot monitor.

INTERVAL: Select the time interval before sequencing onto the next camera.

POPUP: Select 'ON' to enable pop-up full screen when an event occurs.

For DVR models (2015 Shadow Series) with BNC Main or Spot options:	
BNC Output as MAIN Monitor	BNC Output as SPOT Monitor

CAMERA: OFF

CAMERA: ON (ALL or selected Camera(s))
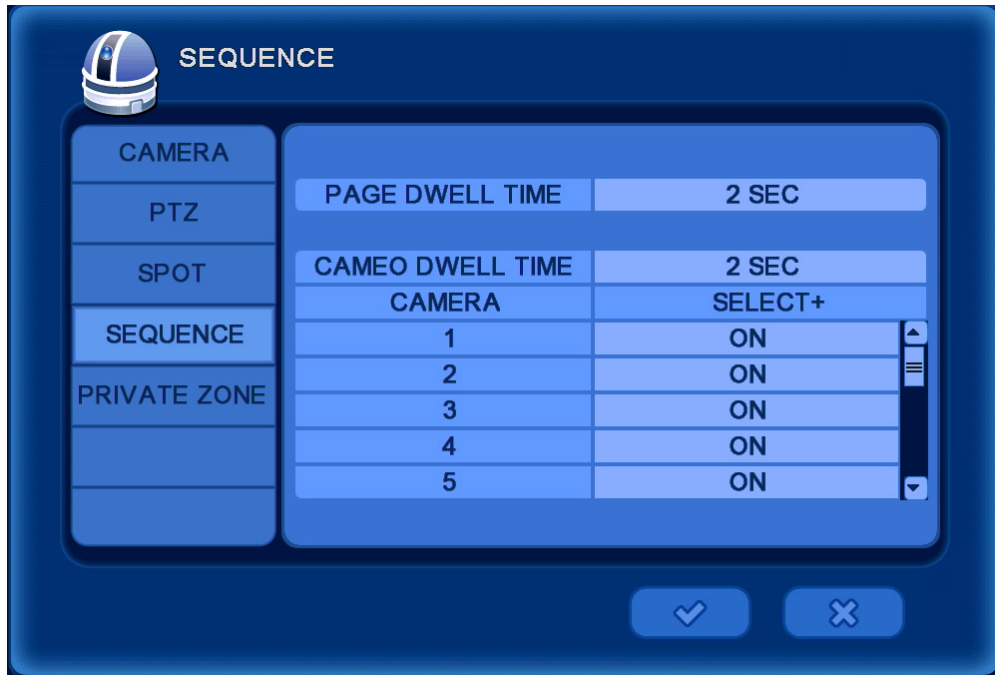
The MAIN monitor can sequence the individual full screen image or certain Multiplex views (Full Screen, Quad Screen or 9 Cameras). The adjustments made in this menu can be turned ON or OFF by right clicking in the live view and selecting Sequence.

PAGE DWELL TIME: Select the dwell time before the sequence proceeds to the next page on the main monitor. Available on 1 / 4 / 9 camera screens. All cameras will be displayed.

CAMEO DWELL TIME: Select the dwell time before the sequence proceeds to the next channel while full screen. Individual cameras can be selected ON or OFF during the Cameo Sequence.

CAMERA: Clicking Select+ will turn all cameras ON or OFF during the Cameo Sequence. Alternatively, individual cameras can be selected ON or OFF during the Cameo Sequence.

Right
Click

Full Screen Only

1 / 4 / 9 Views

Full Screen   **Quad Screen**   4-Mini 3-Large   **9 Cameras**
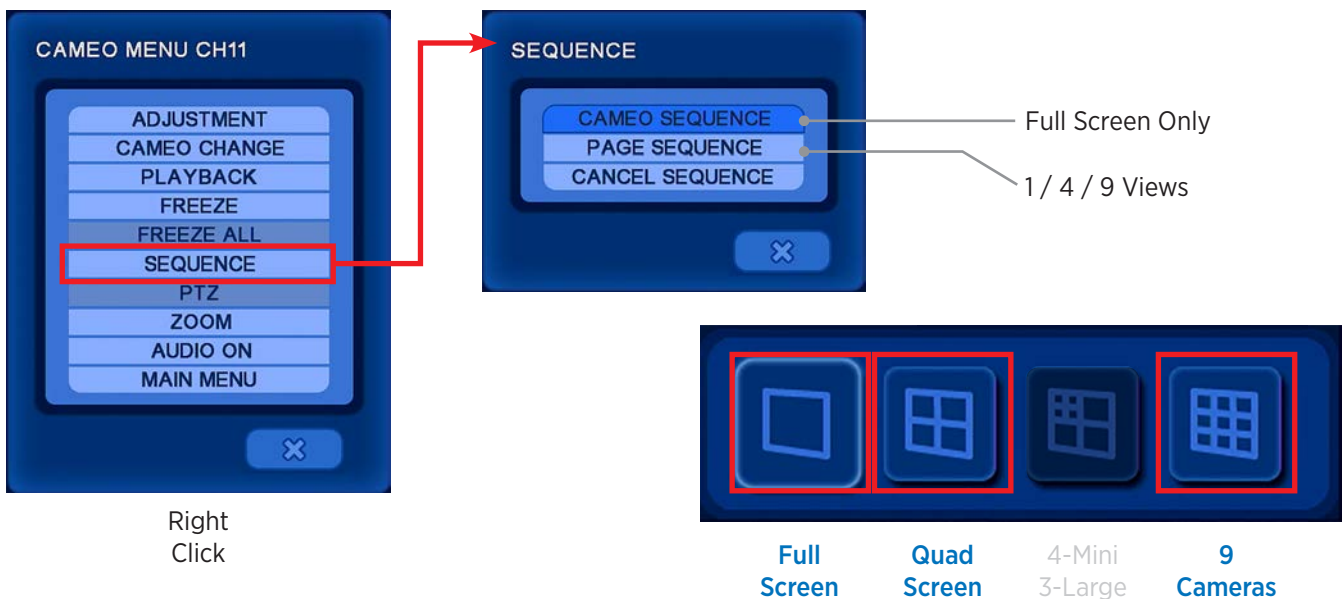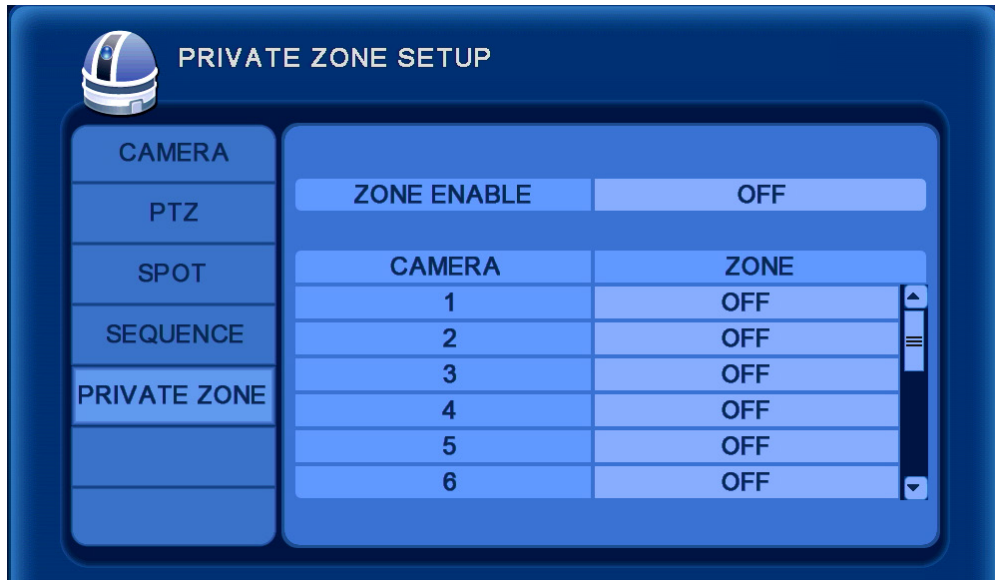
ZONE ENABLE: Select from OFF or ON to enable or disable privacy masking. When OFF no privacy masks will display. *Some DVRs offer: Off, Live, or Live+Playback.*

ZONE COLOR: Select the privacy zone color. (Blue, Black, White, Gray) *This option not offered on some DVRs.*

ZONE: Select the camera in which to apply the Privacy Zone. When a Zone is selected, the corresponding camera image will appear on screen. From here you can set the Privacy Zone as follows:
1. Move the cursor to the desired privacy zone start point.
2. Click and hold the left mouse button on a square to set a starting corner. Move the cursor to the desired opposite end corner and release the mouse button to define a block of cells.
3. Right-click with the mouse to bring up the Zone Menu. Using this menu, a selected area can be deleted or saved, or you can return to the previous menu screen.
4. After clicking the check mark to confirm changes and returning to Live View; the area with the Privacy Zone will now be blocked from view.
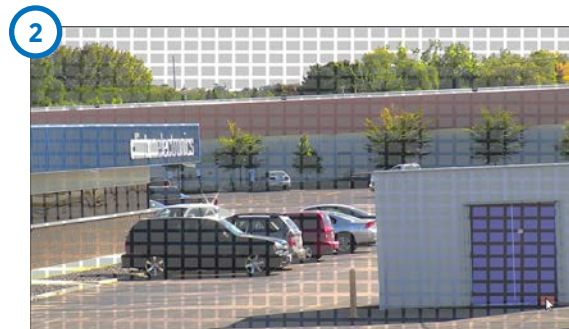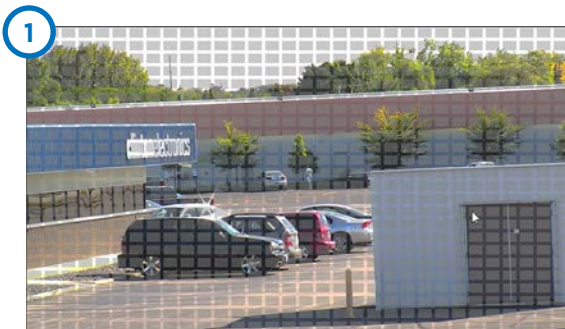
The EVENT menu can be accessed by pressing MENU on the remote control - or by right clicking with the mouse, then selecting Main Menu.

Main Menu (Middle)

| Setup | Camera | **EVENT** | Record | Network | Info |

MOTION>INPUT: Defines the parameters of the motion detection area(s).

ACTIVE+: Select ON to activate the motion detection area.

LEVEL+: Select the motion sensitivity level from low (1) to high (5).

AREA+: Define motion areas by selecting individual cells or groups of cells:
1. Left click with the mouse, or press enter on the remote to select a cell.
2. Left click and drag the mouse cursor to select multiple cells.
3. To select multiple cells with the remote, press enter and use the arrow keys. Press enter again to confirm.
4. When done setting up motion cells, right click with the mouse, or press the MENU button on the remote to bring up selection options.

> To apply settings to all cameras in the column, click the tab at the top of the column.

> To enable motion recording, continuous recording should be turned OFF.

Draw a motion area with the mouse.   Only motion in this grid will be detected.
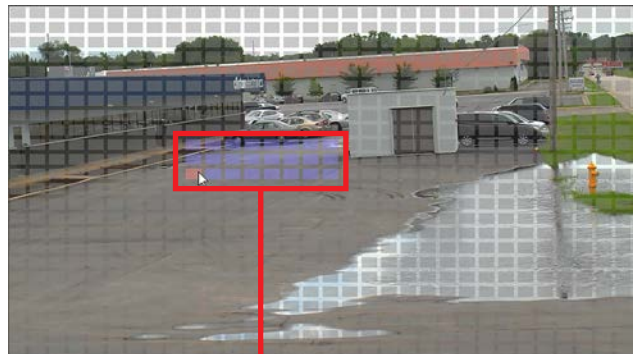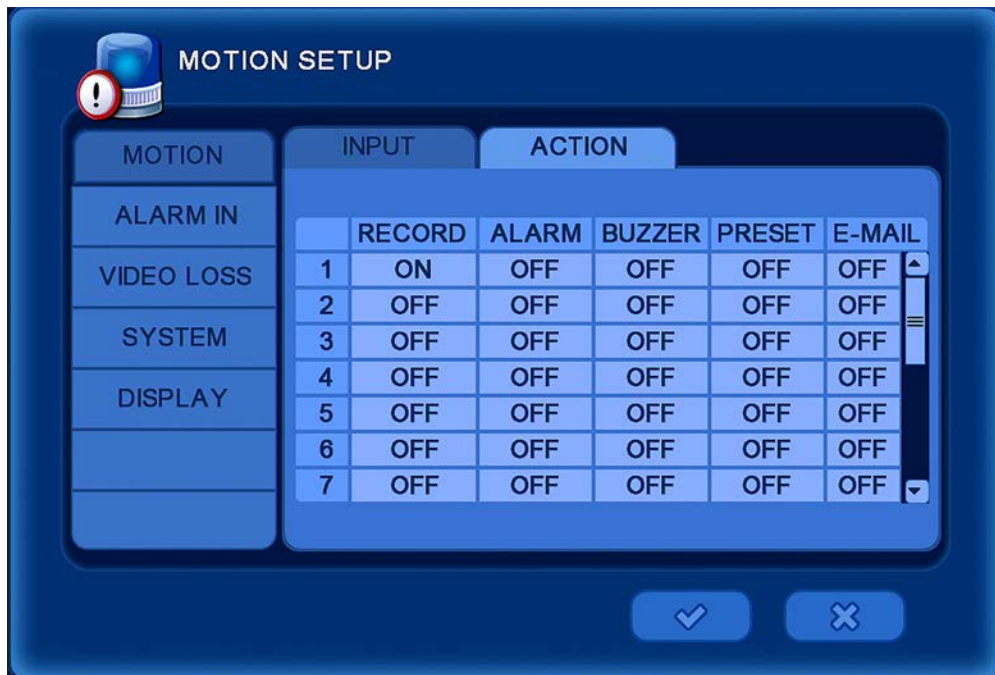
MOTION>ACTION: Assign different actions for the DVR to perform when motion is detected.

RECORD: Enable a DVR channel to record when motion is sensed by a another camera. Select ON to activate the motion area.

The default setting is to only record the channel in which motion has occurred.
  Example: Camera channel 1 will only record when camera 1 senses motion.

The RECORD (Motion Event) can be setup to record different cameras other than the selected channel.
  Example: When channel 1 senses motion, recording is triggered on channel 2 and 4.
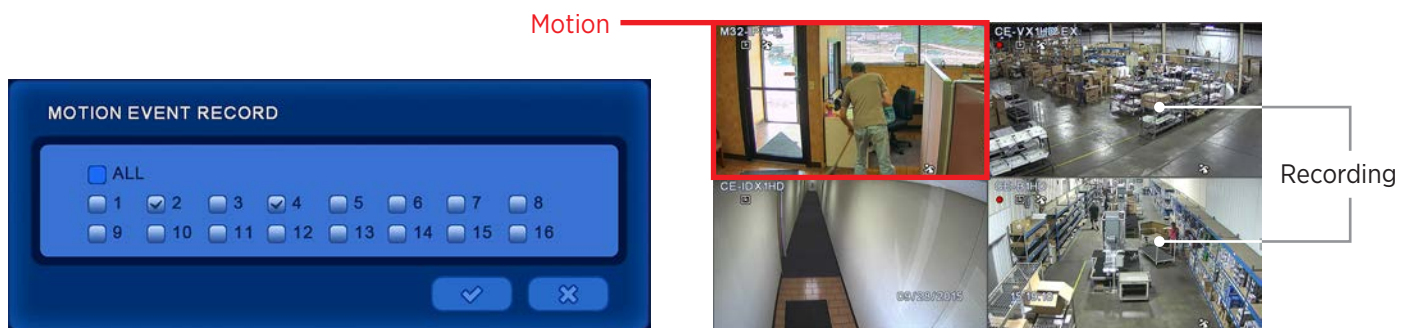
ALARM: Select ON to enable an externally attached alarm. You can also apply a delay before the alarm is triggered, and select the duration of the alarm (from 0-99 seconds).
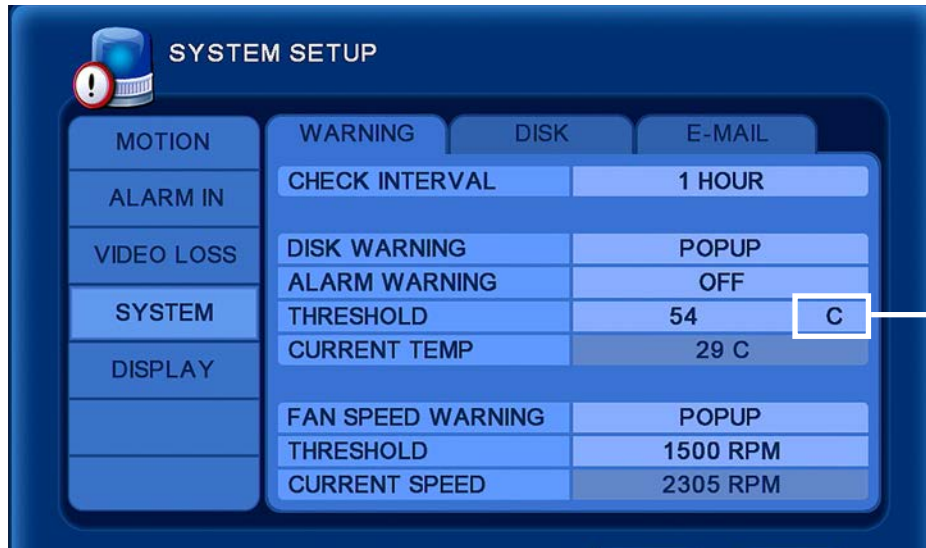
BUZZER: Select ON to enable an audible chime from the DVR when motion occurs.

PRESET: Set the preset number. When motion occurs, a PTZ camera will move to the preset position. For information on setting up PTZ presets see page 17.

E-MAIL: Enabling this function will send an E-mail to the selected recipients when a motion event occurs.

Alarm In:
Input

ACTIVE: Select On/Off to activate alarm.

NAME: Input the desired alarm name.

TYPE: Select the alarm type. (NO : Normally Open, NC : Normally Closed)

Alarm In:
Action

RECORD: Set to On to record when the alarm input is triggered.

ALARM: Select On/Off to enable or disable the selected alarm out.

BUZZER: Select On to enable an audible chime from the DVR when alarm input is triggered.

PRESET: Set the preset number. (When alarm input is triggered, a PTZ camera will move to the preset position.)

EMAIL: Select On to receive an email notification when alarm input is triggered. Define email recipients in the following menu: Setup / Network / Email.

EVENT MENU > Video Loss

Video Loss: Input
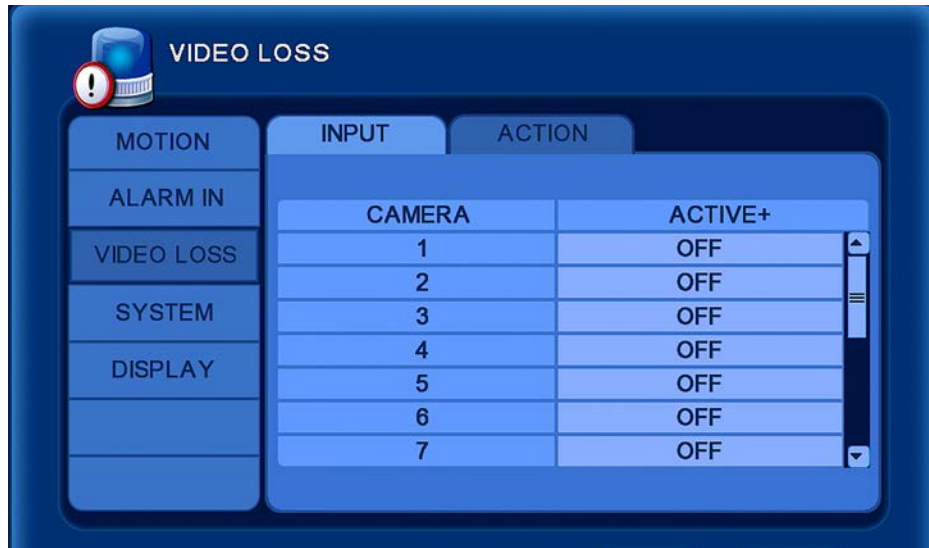
ACTIVE: Setting video loss to [ON] will trigger the items selected within the "Action" tab.

Video Loss: Action
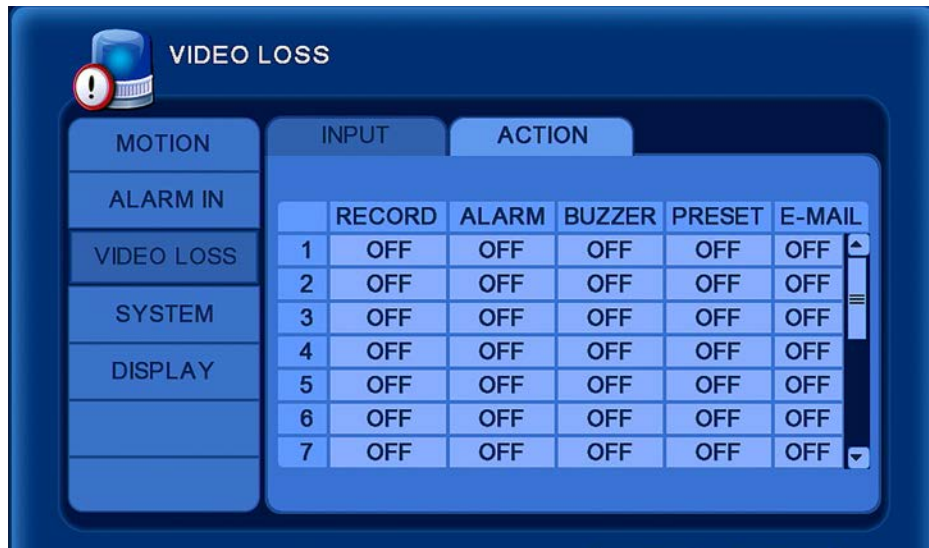
RECORD: Select which channels to record when video loss occurs.

ALARM: Select On to enable the selected alarm to trigger upon video loss of the associated channel.

BUZZER: Select On to enable an audible chime from the DVR when video loss occurs.

PRESET: Set the preset number. (When video loss occurs, a PTZ camera will move to the preset position.)

EMAIL: Select On to receive an email notification when video loss occurs. Define email recipients in the following menu: Setup / Network / Email.

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System:
Warning

Click to change from °Celsius (C) to °Fahrenheit (F)

CHECK INTERVAL: Select the check interval time. This is how often the DVR will preform a smart check of the HDD.

DISK WARNING: POPUP and/or BUZZER when HDD temperature is checked and found to be out of the threshold.

THRESHOLD (HDD): Set the warning temperature threshold. Change from °Celsius to °Fahrenheit as needed.

CURRENT TEMP: Displays the current temperature of the HDD.

FAN SPEED WARNING: POPUP and/or BUZZER warning when fan speed falls below the threshold.

THRESHOLD (FAN): Set the warning fan speed threshold.

CURRENT TEMP: Displays the current fan speed (RPM).

System:
Disk

Automatically disabled when HDD overwrite is ON.

DISK FULL WARNING: Select to notify user when the HDD reaches the used space limit.

USED SPACE: Select the HDD full percentage.

ALARM: Select the channel for alarm output.

BUZZER: Select On to enable the DVR buzzer.

MESSAGE: Select On to enable a Pop-Up message; "DISK FULL" will be displayed on the screen.

System: Email
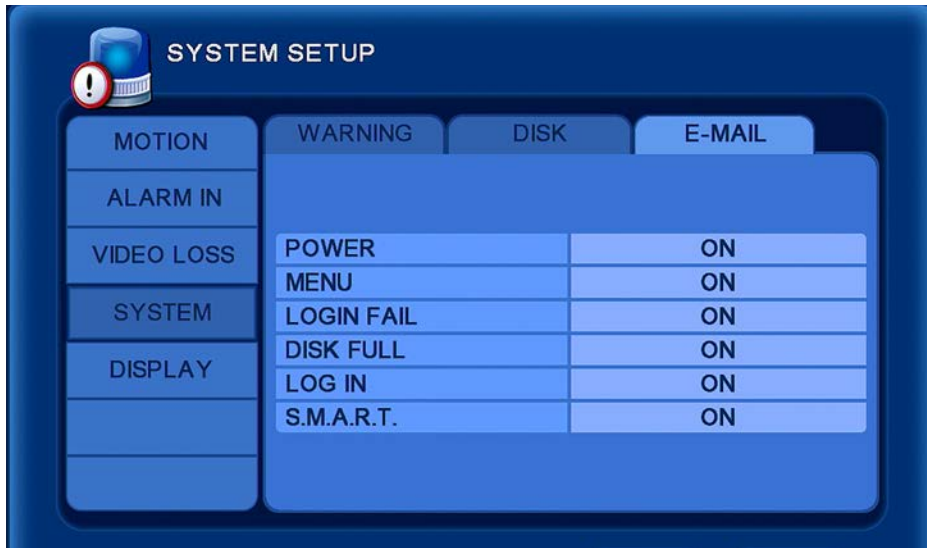
Set options to ON or OFF to receive an e-mail notification whenever any of following actions occur: POWER (On/Off), MENU (accessing DVR menu), LOGIN FAIL (failed attempt to login to DVR), DISK FULL (HDD is full), LOGIN (login to DVR), or SMART (monitors internal operations of the HDD and warns of potential problems.

Email recipients can be setup in the following menu: Network / Email / Address.

Display Setup

DISPLAY: Set the duration of the full screen POPUP when an event occurs within the selected camera.

EVENT ICON: Select On to display the event icon at the bottom of the screen when an event occurs.

EVENT POPUP: When an event occurs the camera image will be displayed full screen.

RECORD > Resolution

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

Main Menu (Middle)

Setup   Camera   Event   **RECORD**   Network   Info
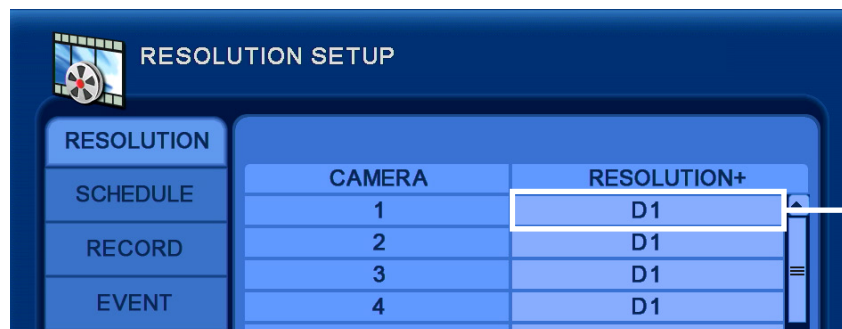
Resolution options will vary depending on the type of DVR.

RESOLUTION: Set the recording resolution for each channel. This does not affect the live view of the camera.

Term	Pixels (W x H)
CIF / STD	352 x 240
$^1/_2$D1 / HIGH	720 x 240
D1 / HIGHEST	720 x 480
Q960H	480 x 240
960H	960 x 480
720p	1280 x 720
QHD	960 x 540
1080p	1920 x 1080
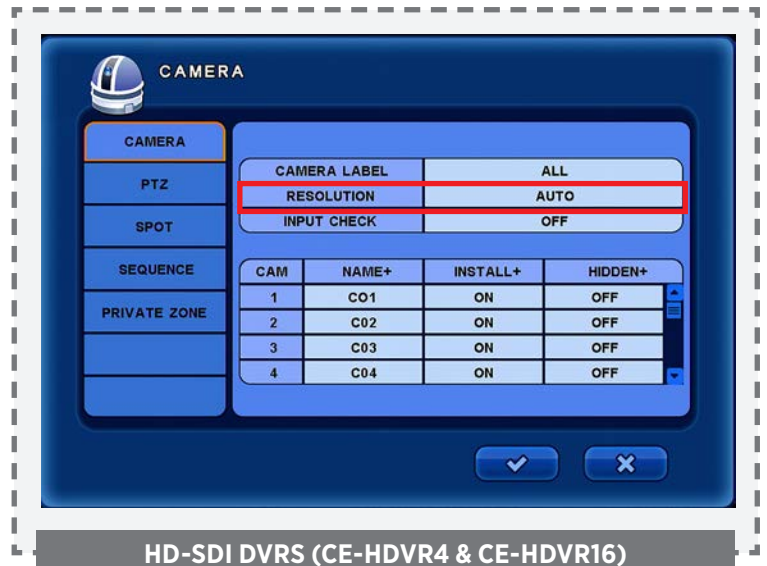
HD-SDI DVRS (CE-HDVR4 & CE-HDVR16)

To change the resolution on HD-SDI DVRs; go to CAMERA/Camera/Resolution. The DVR will automatically restart when changing the resolution.

NOTICE

- *Once the Recorded Resolution is set, the recorded video quality can not be increased. Ex: 960H (960x480) camera set to record at Half D1 (352x480) will lower the quality of the video when recorded.*
- *Higher resolution video takes up more space on the HDD, but provides more detail. The lower the resolution, the lower the video quality/detail.*
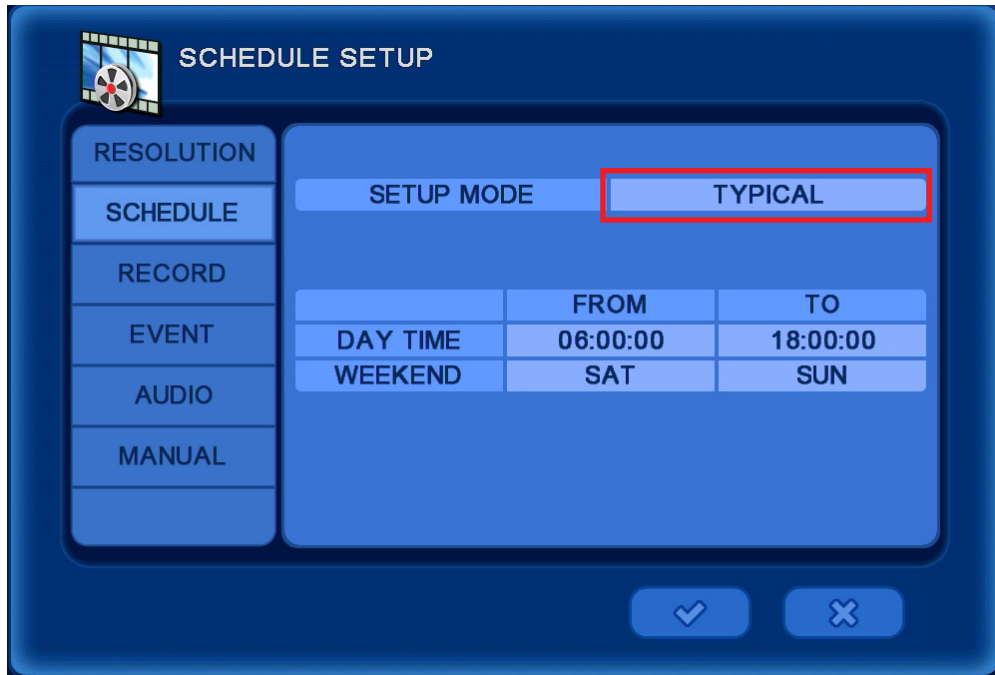
SETUP MODE: TYPICAL
Three basic recording schedules can be defined based on Day Time, Night Time & Weekend. The times & Weekend days adjusted in this menu will use the settings from the RECORD menu.

DAY TIME - Set the recording start (FROM) & stop (TO) times for schedule recording. NIGHT TIME hours will automatically be the hours remaining from the DAY TIME hours.
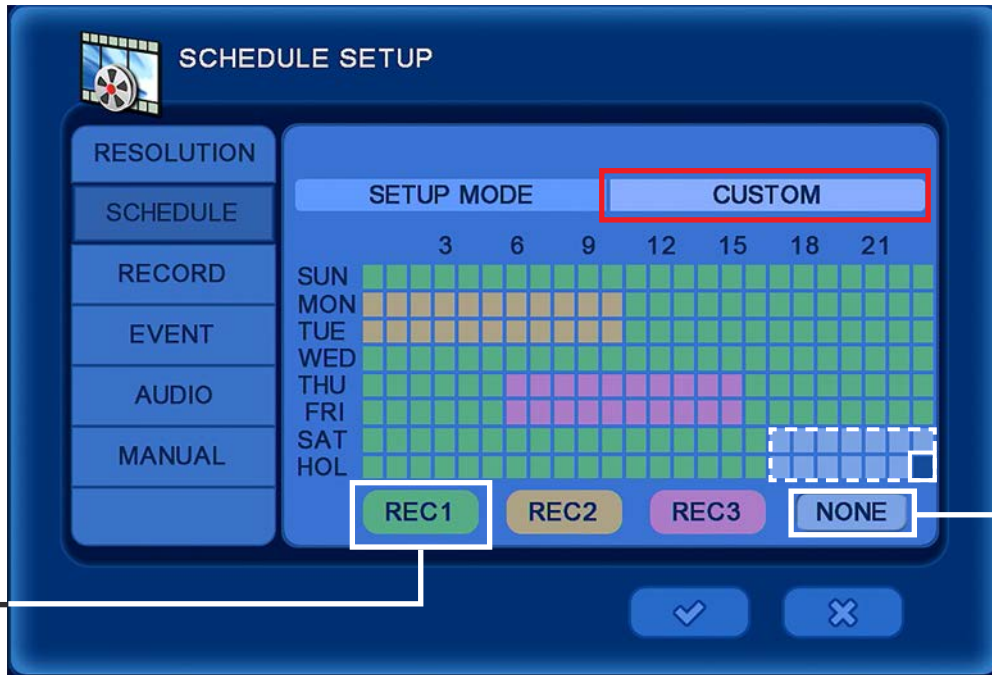
WEEKEND - Set the weekend days.

The FPS (Frames Per Second) & recording quality can be adjusted for each camera for both regular (Time) recording and Event recording.

To only record EVENTS (Motion, Alarm, Video Loss) set the Time options to OFF.

To select a block of cells, first select a REC button (1,2,3 or None) then left click & drag the cursor to the desired block endpoint. To select a single cell only, left click on the cell.

Holiday dates can be setup in SETUP MENU/ General Setup/Holiday.

SETUP MODE: CUSTOM

Three separate recording schedules can be defined based on a 24 hour day, days of the week, and holidays. The recording groups (REC1,2,3) will use the settings from the RECORD menu.

REC 1 / REC 2 / REC 3 / NONE - Set the recording options for each hour of the day based on the settings for each group. To adjust the settings for REC 1; click on the RECORD option on the sidebar, then click the REC 1 tab.

The FPS (Frames Per Second) and recording quality can be adjusted for each camera for both regular (Time) recording and Event recording.

Selecting NONE will disable recording for the selected camera(s).

RECORD > Event & Audio

Event:

PRE / POST RECORD SETUP

RESOLUTION		
SCHEDULE		
RECORD		
EVENT		
AUDIO		
MANUAL		

CAMERA	PRE RECORD+	POST RECORD+
1	5 SEC	3 SEC
2	5 SEC	3 SEC
3	5 SEC	3 SEC
4	5 SEC	3 SEC
5	5 SEC	3 SEC
6	5 SEC	3 SEC
7	5 SEC	3 SEC
8	5 SEC	3 SEC
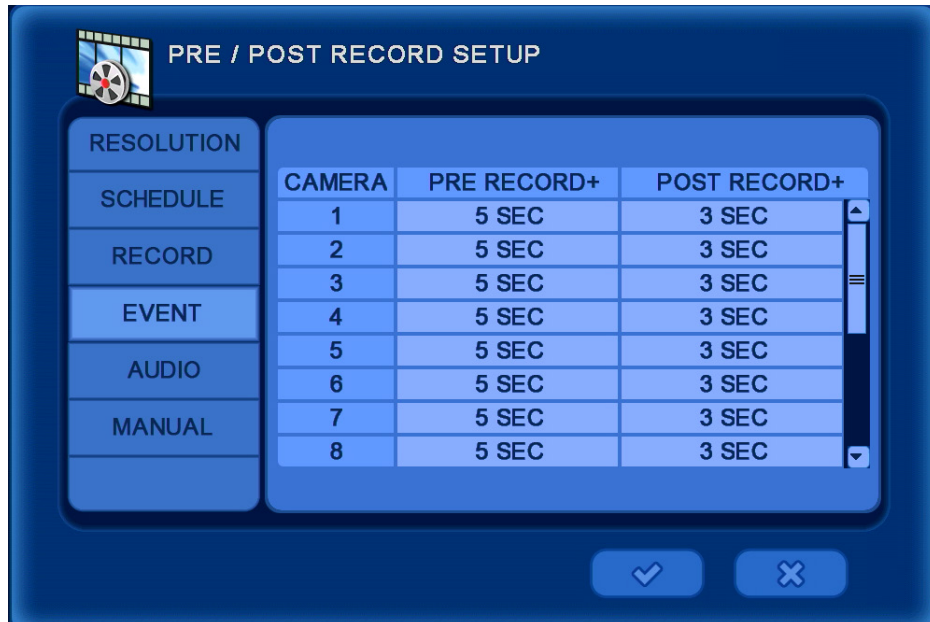
These settings define the recording parameters before and after an event occurs.

PRE-RECORD: Set the record time before an event occurs. (The DVR will continuously store footage for the selected "Pre-Record" time and then save that data when an event actually occurs.)

POST RECORD: Set the record time that you wish to record after an event occurs.

Audio:

AUDIO RECORD SETUP

RESOLUTION	
SCHEDULE	
RECORD	
EVENT	
AUDIO	
MANUAL	

AUDIO	RECORD+
1	OFF
2	OFF
3	OFF
4	OFF
5	OFF
6	OFF
7	OFF
8	OFF
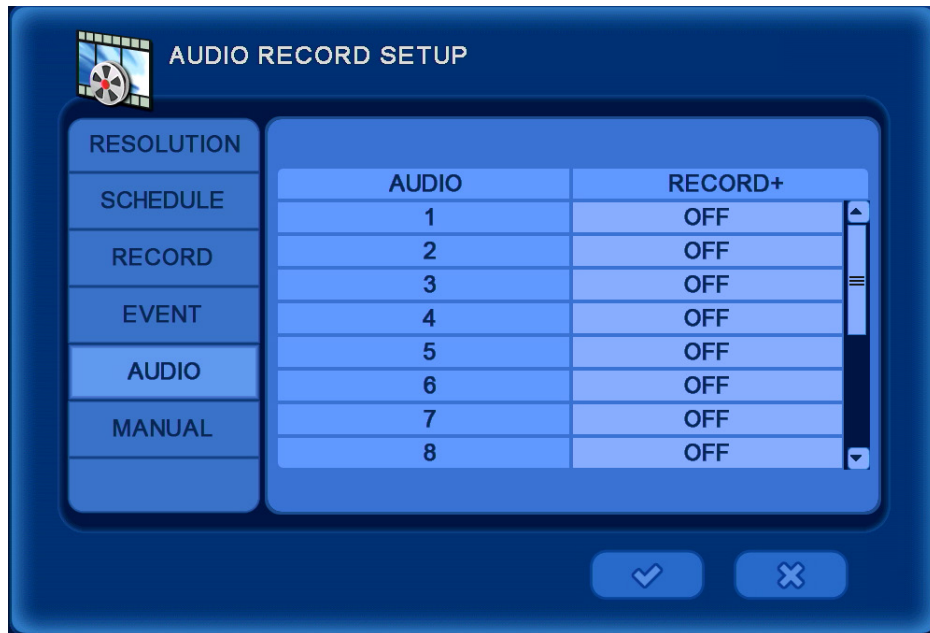
RECORD: Select ON to enable audio recording for the corresponding channel. An audio device must be connected to the back of the DVR.

RECORD > Manual

MANUAL RECORD SETUP

CAM	FPS+	QUALITY+	AUDIO+
1	15	HIGH	OFF
2	15	HIGH	OFF
3	15	HIGH	OFF
4	15	HIGH	OFF
5	15	HIGH	OFF
6	15	HIGH	OFF
7	15	HIGH	OFF
8	15	HIGH	OFF

MANUAL only applies to the remote control. Pressing the REC button on the remote control will begin Manual recording & override any existing DVR recording settings. Press REC again to stop Manual recording.

FPS: Frames Per Second

QUALITY: Low / Normal / High / Highest

AUDIO: Select ON to enable audio recording for the corresponding channel. An audio device must be connected to the back of the DVR.

Press REC to begin Manual Recording

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

Main Menu (Middle)

| Setup | Camera | Event | Record | **NETWORK** | Info |
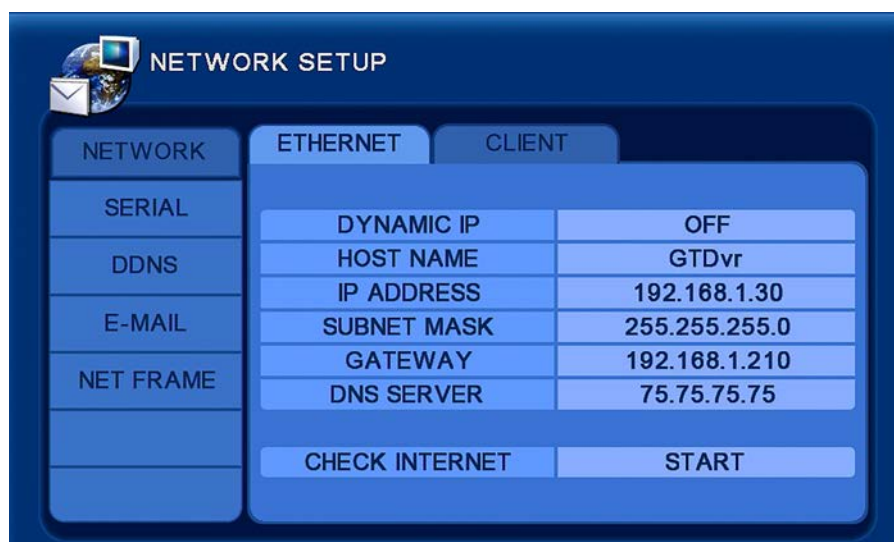
DYNAMIC IP: Turn this setting ON to have the DVR automatically place network settings into the corresponding fields. *When ON the DVR IP Address, Subnet Mask, Gateway and DNS Server can not be edited.*
1. Select ON to pull network settings.
2. Click the ✔ button to save network settings.
3. After successful Check Internet test: turn Dynamic IP OFF, then click ✔ to prevent the DVR from pulling an invalid IP address in the future. *See Check Internet information in this section.*

HOST NAME: Enter a desired host name. When/If email notifications are setup they will come from this name.

Dynamic IP must be OFF to edit

IP ADDRESS: Edit/Enter an IP address for the DVR.

SUBNET MASK: Edit/Enter the Subnet Mask.

GATEWAY: Edit/Enter the Gateway address.

DNS SERVER: Edit/Enter the DNS Server address.

CHECK INTERNET: Select START to initiate a internet connection test.
Successful Connection - "Internet access has succeeded"
Failed Connection - "Internet access has failed"

DNS Server address must be correct for successful check internet test.

Enter/Edit settings for remote access of the DVR using the SMS Software, Webviewer or CEC Connect phone App.

CLIENT ACCESS: Select "ALL" to enable access from all IP addresses. Select "RANGE" to limit access to only certain IP addresses.

BEGIN ADDRESS / END ADDRESS: Enter the desired beginning and ending address for client access when RANGE is selected above.

SMS PORT (TCP): Select the SMS port. (Default is 7000) SMS & CEC Connect use this port.

WEB PORT (TCP): Select the Web port. (Default is 80) Web Viewer uses this port.

REMOTE RESTART: Select ON to enable restarting of the DVR from a remote location via SMS Software.

REMOTE CONFIG: Select ON to enable configuration of the DVR from a remote location via SMS Software.

The IP Address from the Ethernet tab and the SMS Port number from the Client tab are used on the SMS software and/or CEC app.

SMS Software DVR Info   CEC Connect DVR Info

53
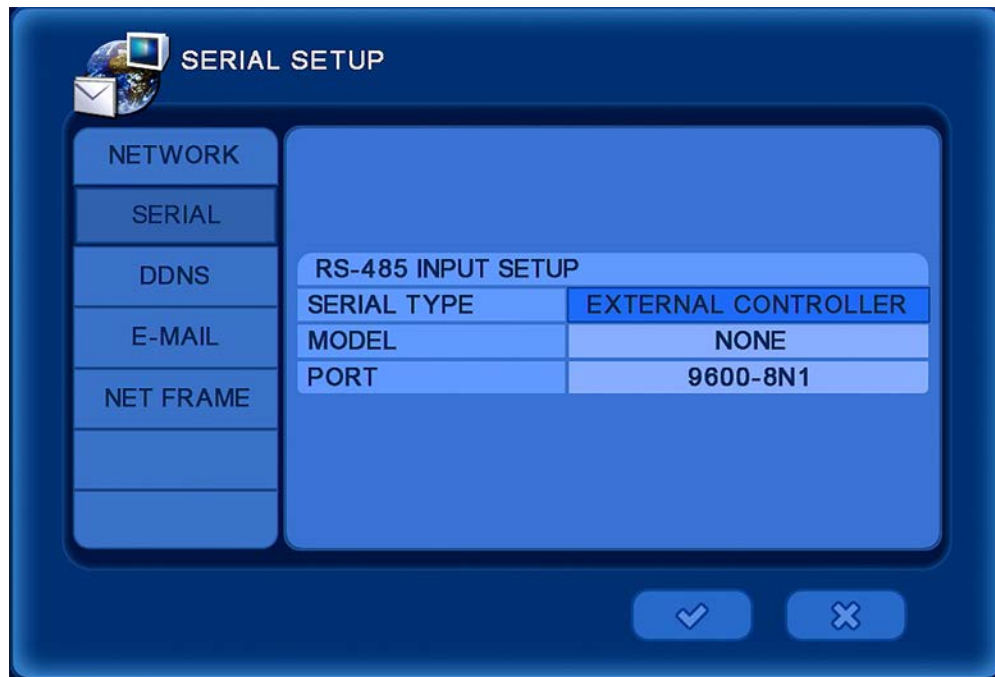
RS-485 INPUT SETUP: Match the settings from the PTZ keyboard if connected via RS-485.

SERIAL TYPE: Select an external device.

MODEL: Select the protocol to use. For Clinton keyboards select VIDO KB3N.

PORT: Select the Baud Rate / DATA bit / Parity / Stop Bit. For Clinton keyboards set to 4800-8N1.

Settings for Clinton Keyboard	
Model	VIDO KB3N
Baud Rate	4800
Data Bit	8
Parity	NO
Stop Bit	1

NETWORK > DDNS Setup

DDNS should only be set up if using a dynamic IP address. Check with the ISP (internet service provider) to see if the network is using a dynamic IP address.

DDNS SERVER: Select a DDNS server; dyndns.com / changeip.com / ddnsdvr.com / ezddns.com / no-ip.com

HOST NAME: Enter the host name registered on the DDNS server.

USER NAME: Enter the user name registered on the DDNS server.

PASSWORD: Enter the password registered on the DDNS server.

ROUTER IP: Select On to send IP information to the DDNS server. *This should be set to On when using a router.*

STATUS: Check the connection status.

When using a DDNS server; first complete the host name, user name and password registration on the DDNS server. Then enter the information into the DVR.

For information on setting up a free DDNS service, see the DDNS service setup guide included with the DVR or download it online at www.clintonelectronics.com.

SEND MAIL: Select ON to configure the email setup and to enable email sending.

SCHEDULE: Set to ON to define time frame to receive emails. (From = Start time / To = End Time). If set to OFF, the DVR will send an email every time an action takes place- motion, DVR login/logout, disk full, video loss, temperature warnings, etc.

E-MAIL ADDRESS: Enter the email address to receive notifications from the DVR.

DVR Action: Motion, Login, Video Loss, Health Check, etc. →

Example E-Mail:
FROM: GTDvrmail@gmail.com
TO: yourname@emailaddress.com
SUBJECT: [GTDvr] Health Check Report
DVR Name : GTDvr
IP Address : 192.168.1.30
DVR Version : 1.01.01.32
Mac Address : 00:19:19:02:EA:25
HDD Usage : 1.97TB (99%)
Earliest Record : 10/07/2015 03:00:00
Latest Record : 10/18/2015 10:05:03
Abnormal Terminate : 0
SMART Alarm : 0
Video Loss : 213
H/W Error : 0
HDD I/O Error : 0
Camera No. : 4
Record Information :
Camera1 : Time Record
Camera2 : Time Record, Motion Record
Camera3 : Time Record
Camera4 : Time Record

MAIL SERVER: Select the mail server; SMTP server or DVR System.

> **SMTP SERVER:** This is the most common selection. Most common/popular email servers such as Gmail, Outlook, Yahoo, etc have SMTP email servers.
> **DVR SERVER:** This should only be selected if the DVR is part of a local network that has it's own email server.

E-MAIL: Input the user email address. This will be the "*FROM*" email address when the DVR sends an email. Some email account logins are case-sensitive so enter the information exactly as one would to login in.

SMTP SERVER: Input the SMTP server address; smtp.gmail.com, smtp.live.com, smtp.mail.yahoo.com, etc.

SMTP PORT: Input the SMTP server port number.

MAIL TEST: Sends a test email to the address entered on this menu.

NOTICE ⚠	• *If no Mail Server information is entered emails will not be sent.*
	• *If the email login/password contains uppercase & lowercase characters enter it exactly as you would from a computer.*
	• *Avoid e-mail addresses & passwords with special characters (& : / # * +). These special characters can sometimes cause the e-mails to not send.*
	• *Selecting DVR Server disables editing information in this menu.*
	• *If the password for the email address is changed (from email account settings), it must be updated on the DVR for emails to be sent.*
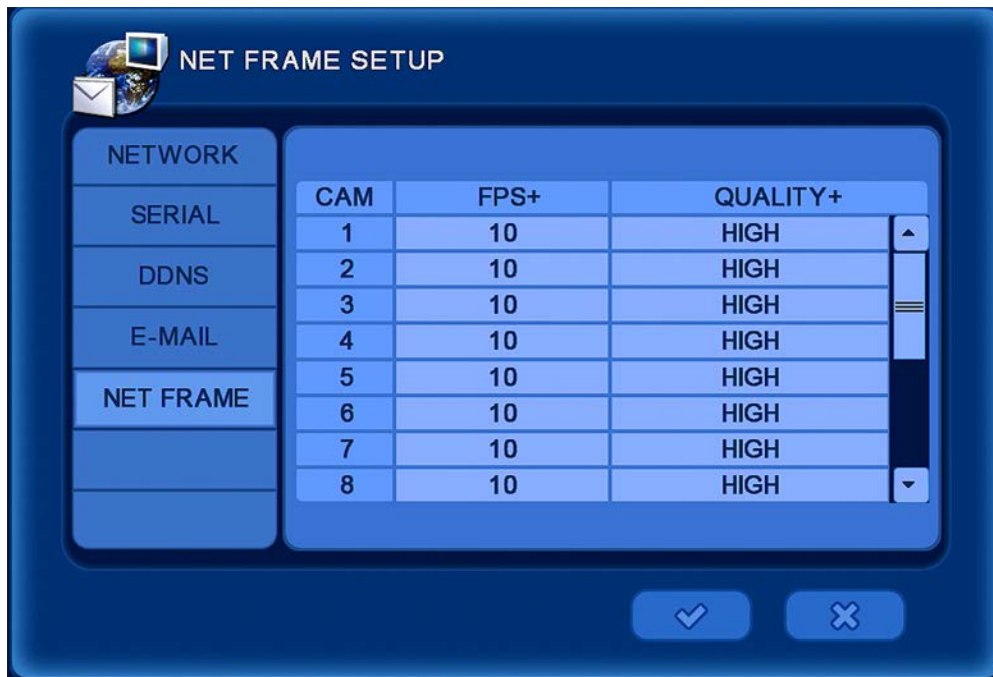
Net Frame defines the network limits for Frames per Second and quality for the live viewer. Setting to a lower quality and frames per second will result in less data transfer for lower bandwidth applications. These settings do not affect live view or recorded video on the DVR.

FPS: Select the desired frames per second for live viewer.

QUALITY: Select the desired quality level for live viewer.

This feature is disabled/not available to edit on some models.

INFO

The INFO menu can be accessed by pressing MENU on the remote control then selecting the INFO icon, or by pressing the UP arrow on the remote.

With the mouse the INFO menu can be accessed by moving the mouse cursor to the top of the screen or by right-clicking, then selecting Main Menu, then clicking on the INFO icon.

Top Menu

| Search | Backup | **INFO** | Settings | Log-Out |

Main Menu (Middle)

| Setup | Camera | Event | Record | Network | **INFO** |

Press UP to display menu screen
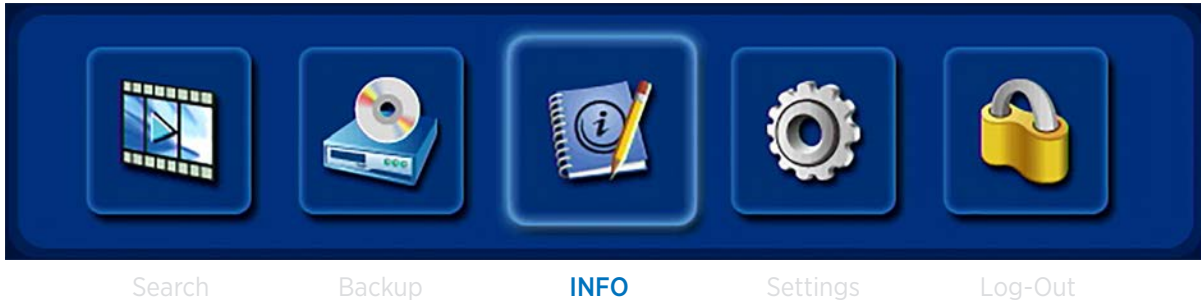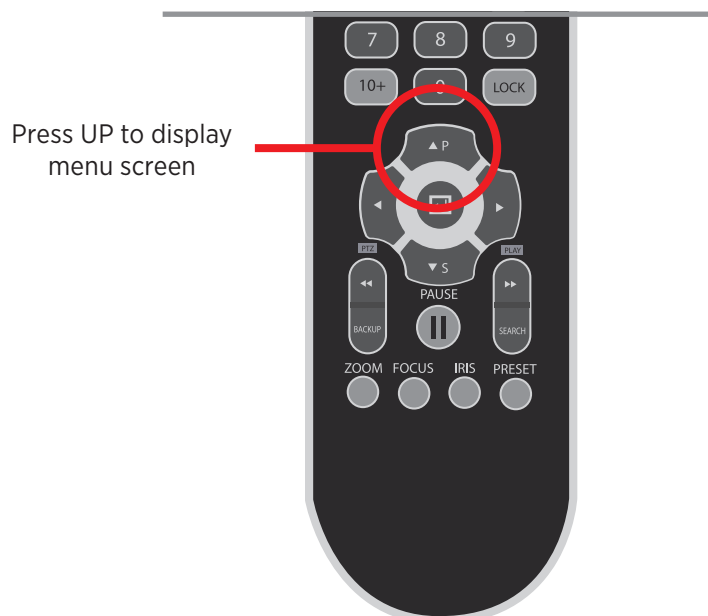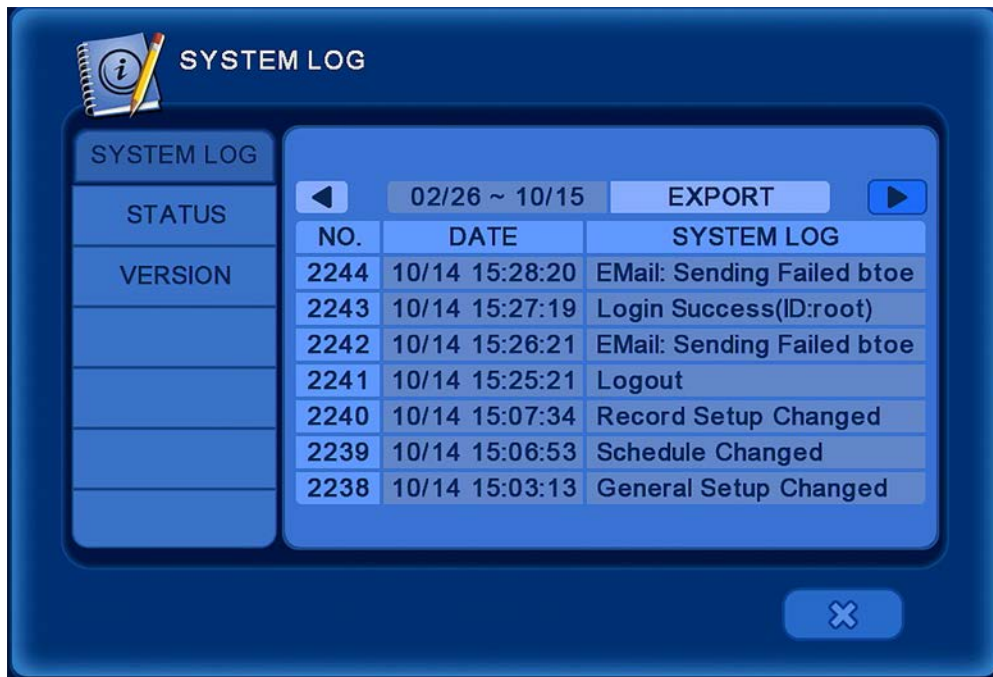
INFO > System Log

SYSTEM LOG: A numbered list of DVR events with the time & date of the event can be found here. Events such as Login/Logout, Video Loss, Power On/Off, Firmware Updates, Remote Login Info, etc.

Click the Left or Right arrow buttons or use the scroll wheel on the mouse to move through the list of events.

EXPORT: The System Log can be exported to a disk or USB device for review on a computer. (file saved as .TXT)

1. Insert a disk (CD-RW or DVD-RW) or connect a USB device to the DVR.
2. Click the EXPORT button.
3. [TARGET] Select the location where the list will be saved: USB device or disk.
4. [FOLDER] Give the folder a name if desired.
5. Click the ✔ button to export the system log.

USB should be formated to FAT32. To format, refer to: SETUP MENU > Disk > Check / USB

INFO > Status

STATUS displays important information about the HDD, recorded video settings and audio settings. These settings are not editable in this menu.

DISK: Shows DVR information at a glance.

    EARLIEST RECORD: Oldest recorded video.
    LATEST RECORD: Most recent recorded video.
    DISK CAPACITY: Total storage capacity of installed HDD(s).
    USED SPACE: How much space on the HDD has recorded video.
    AVAILABLE SPACE: How much space is left of the HDD.
    HDD OVERWRITE: Shows if the HDD will overwrite oldest video once the HDD is full. To change HDD Overwrite settings: SETUP MENU > General > System > HDD Overwrite
    HDD INFORMATION: Display information on specific installed HDD(s).

RECORD: Shows the current scheduled recorded video resolution and video quality settings (FPS, Quality).

AUDIO: Shows audio recording settings.

CAMERA: Shows input resolution from connected cameras. (*Hybrid models only*)

VERSION		
SYSTEM LOG		
STATUS		
VERSION	DVR PROGRAM	3.01.01.05
	PRODUCT. DATE	Mar 27 2015, 17:17
	VIDEO	VIDEO 16CH 960H-480FPS
	AUDIO	AUDIO 16CH
	VIDEO FORMAT	NTSC
	MAC ADDRESS	00:19:19:02:B6:0B

DVR PROGRAM: Displays the currently installed version of Firmware on the DVR. It is recommended to regularly check for firmware updates offered on our website: www.ClintonElectronics.com

PRODUCT DATE: Displays the build date of the DVR.

VIDEO: Displays the resolution and total FPS (frames per second).

AUDIO: Displays the number of available audio inputs.

VIDEO FORMAT: NTSC or PAL.

MAC ADDRESS: Displays the MAC address of the DVR.

It is recommended to regularly check for firmware updates offered on our website: clintonelectronics.com

SEARCH

To review recorded video, move the mouse cursor to the top of the screen and click the SEARCH icon, the first icon from the left; or with the remote control press the UP arrow to display the top menu. Alternatively- press the Search button on the remote to display the SEARCH menu.

Top Menu

SEARCH	Backup	Info	Settings	Log-Out
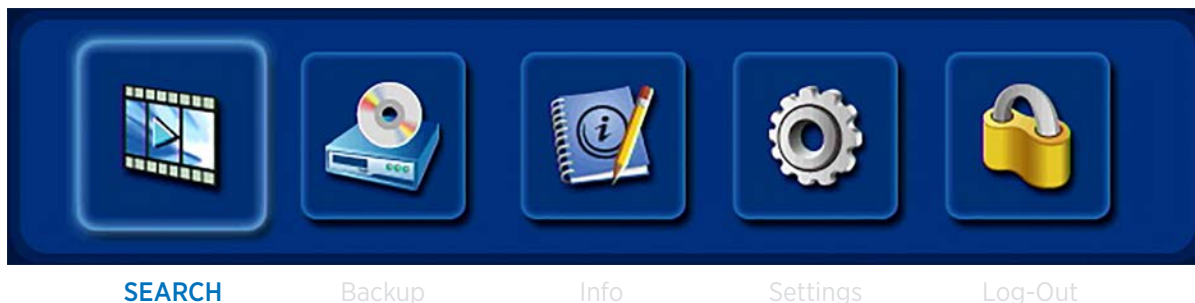
There are several different methods of searching recorded video: Playback, Quick Search, Calendar search, Event Search, Overlapped List, Museum Search, Go To First & Go To Last.

PLAYBACK: Replays the latest recorded video from the selected channel.

QUICK SEARCH: Enter the exact time & date information to search.

CALENDAR: Displays a calendar with colored bars to indicate recording type to help narrow search selection.

EVENT SEARCH: Enter the date of the event and filter by event type; motion, alarm in, video loss.

OVERLAPPED LIST: Search for data that occurs from manually changing the time backwards or when an hour is lost from daylight savings time.

MUSEUM SEARCH: Search an exact area of a selected camera by drawing a motion box.

GO TO FIRST: Quickly jumps to the earliest/oldest recorded video on the DVR.

GO TO LAST: Quickly jumps to the latest/most recent recorded video on the DVR.

GO TO JUMP: Only selectable when actively searching video. Quickly change the playback time by as much as 12 hours.

Video can also be searched from a CD/DVD or USB device that has backed-up video by clicking in the TARGET row and selecting to appropriate drive.

SEARCH SCREEN LAYOUT

```
2 → 1:C01
3 → ● 🗂 📅 🐾 ≋ ⊓⋏        1 → LOG OUT        10 → ▶▶▶▶▶
                                                     ☑

                                                        9 →

4 →  S 06 : 43 : 56
     E 06 : 43 : 58
5 → 📋40%    6 → 🔊    09/09/2009    06:43:56    8 → [■ ]
                              7 →
```
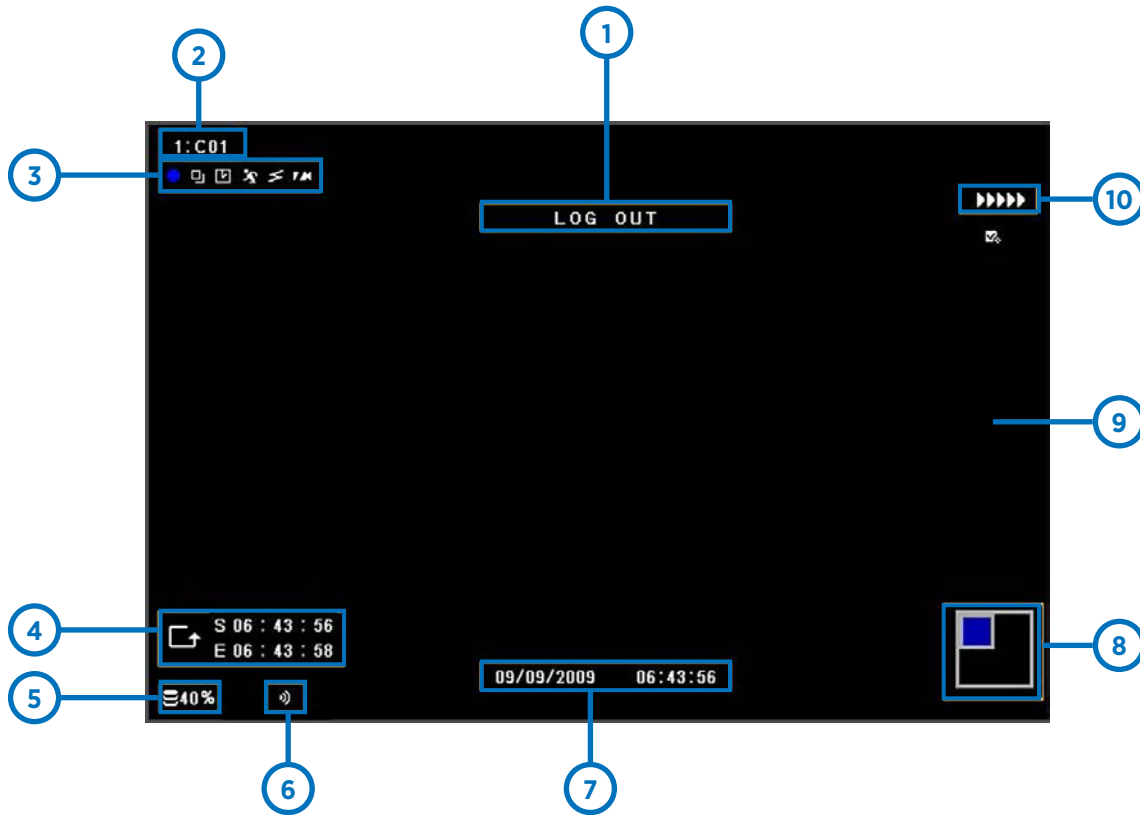
1. Execution Information Message

2. Camera Name

3. Search Status Icons

4. Repeat Segment: **S**-Start Time, **E**-End Time

5. Backup Progress Status %

6. Audio Icon - displayed when audio is present
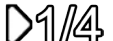
7. Date and Time of Recorded Video

8. Zoom 2x / 4x Location

9. Video Area

10. Search/Playback Speed

Search Status Icons:

🔵 Record Icon: Shows when recording is active.

▣ Time Icon: Shows when time (schedule) record mode is active.

🐾 Motion Icon: Shows when motion occurs.

⚡ Sensor Icon: Shows when the external sensor is triggered.

Playback Speed Icons:

▷	▷▷	▷▷▷	▷▷▷▷	▷▷▷▷▷
Play	2x Fast Forward	3x Fast Forward	4x Fast Forward	5x Fast Forward
❚❚	❚❚▷	▷1/2	▷1/4	▷1/8
Pause	Play 1 Frame	Play Half Speed	Play Quarter Speed	Play Eighth Speed

SEARCH MENU ICONS EXPLAINED

While performing a search, move the mouse cursor to the bottom of the screen to display the Search control panels. Control panel functions can alternatively be selected by pressing the corresponding buttons on the remote control.

To toggle between the two control panels click on either the Left or Right arrows on opposite sides of the control panels.

1. Fast Reverse

2. Reverse Play

3. Pause

4. Play

5. Fast Forward

6. Repeat Segment
  1st Mouse Click: Segment Start
  2nd Mouse Click: Segment End
  3rd Mouse Click: Cancel Segment

7. Change Multiplex View

8. Cycle Channels in Multiplex View

9. Preview Mode

10. Museum Search Mode

11. Main Menu (Middle Menu)

12. Exit Search

1. Jump backward 1 hour

2. Jump backward 30 minutes

3. Jump backward 10 minutes

4. Jump backward 5 minutes

5. Jump backward 1 minute

6. Jump forward 1 minute

7. Jump forward 5 minutes

8. Jump forward 10 minutes

9. Jump forward 30 minutes

10. Jump forward 1 hour

11. Main Menu (Middle Menu)

12. Exit Search

SEARCH > Playback & Quick Search

Playback:
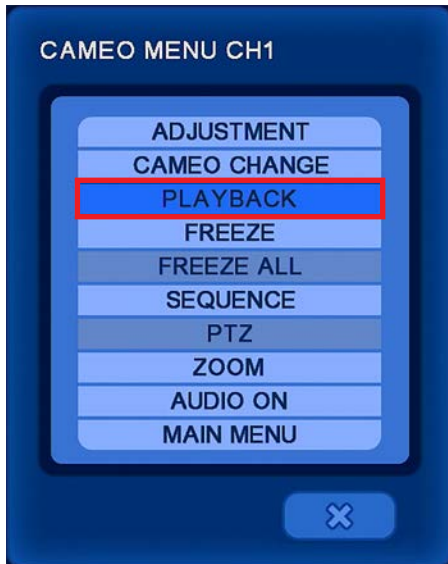
To access PLAYBACK: in the LIVE View- right click on a desired camera, then select playback.

PLAYBACK replays the latest recorded video from the selected channel. The recording icon will change from **RED** to **BLUE**.

The selected channel will Playback recorded video while the remaining cameras display LIVE video. Use the search controls as necessary to search forwards or backwards through video.

BLUE icon indicates Playback Mode
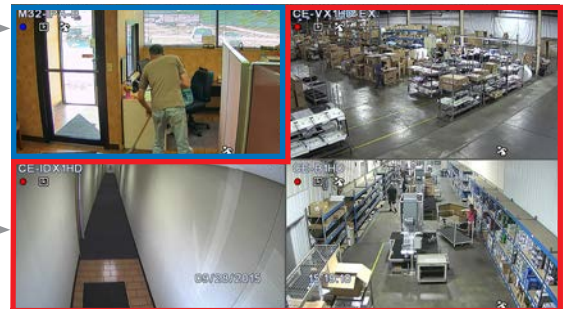
Remaining cameras display LIVE video

The following Search Menu items can be accessed by moving the mouse cursor to the top of the screen and clicking the SEARCH icon, the first icon from the left, or with the remote control press the UP arrow to display the top menu. Alternatively- you can press the Search button on the remote to display the SEARCH menu.

Quick Search:

Quickly search through recorded footage from all channels by entering the exact Year / Month / Day / Hour / Minute.

SEARCH > Calendar
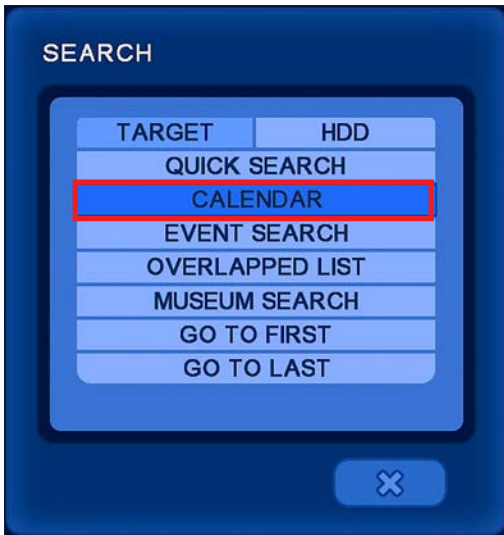
Displays a calendar with colored bars to indicate recording type to help narrow search selection.

1. Select a highlighted day. Days not highlighted have NO recorded video.
2. Drag the arrow indicator to the desired hour.
3. Click the ✓ mark to start reviewing video from that hour or click in the timeline area to narrow the selection down to minutes.
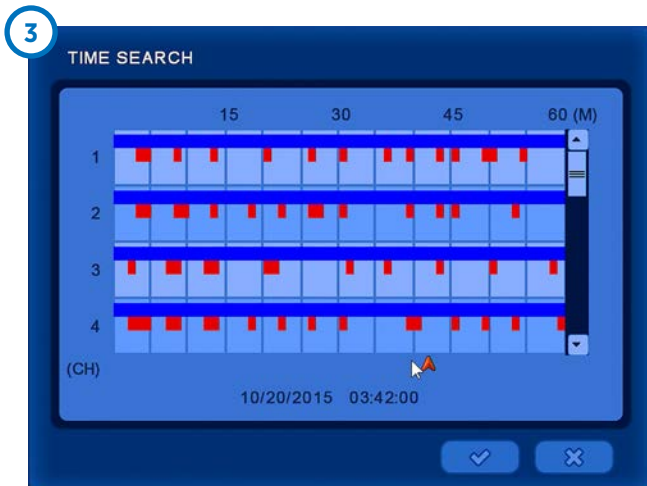
Date & Time information is displayed at the bottom of the timeline. Use the scroll bar to scroll up or down to view more channels.

1
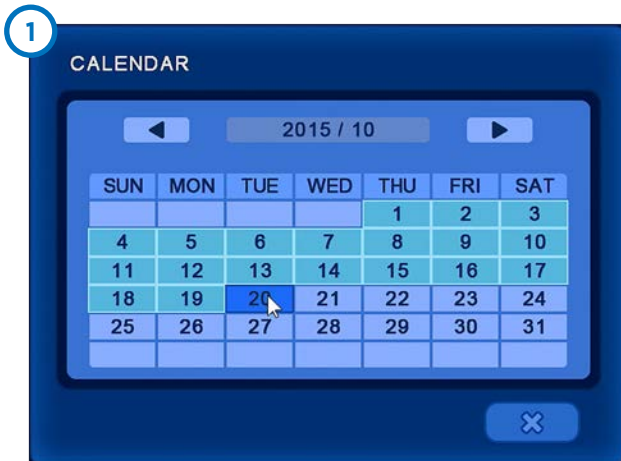
Click on highlighted DAY

2

Drag arrow to select HOUR

3

Drag arrow to select MINUTE

Color Bar Description	
BLUE	Time Recording
RED	Event/Motion Recording
TEAL	Audio Recording
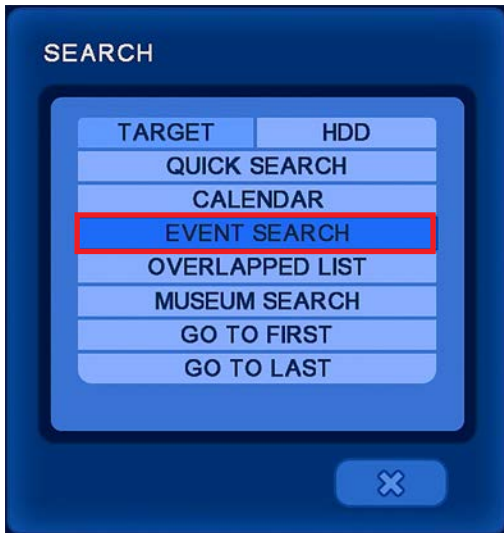
DATE: Enter the Year / Month / Day to search for events.

MOTION: Filter video for Motion.

ALARM IN: Filter video for Alarm Input from an external source.

VIDEO LOSS: Filter video for Video Loss.

SELECT CAMERA: Search ALL cameras, or select specific cameras to view.

VIEW SEARCH LOG: Displays all selected filters for event search. Events are detailed with time/date, camera number and event type.

> **Events (Motion, Alarm In, Video Loss) must be setup and enabled for the Event Search to function. If the events are not ON, no search results will be found.**

Enter date information

Select camera(s) to search

EVENT SEARCH RESULT: Use the scroll wheel on the mouse to scroll up or down through the list. If the list is blank - no events were found.

NO: Select the event segment you wish to playback.

PREV: Display previous search results page.

NEXT: Display next search results page.

GOTO: Input an event page start number.
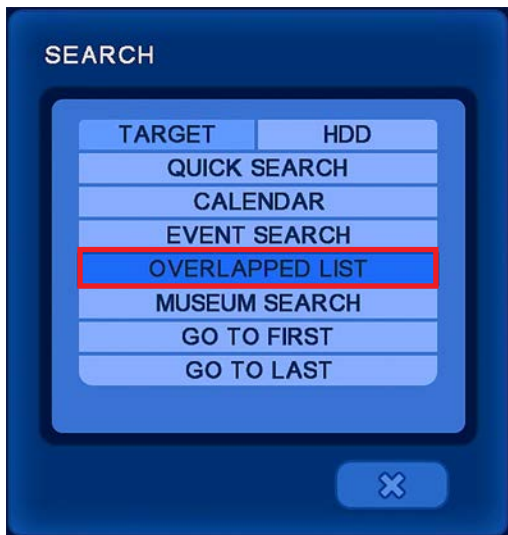
OVERLAPPED LIST: Search for overlapped data that occurs from removing DST (daylight savings time) or from changing the time backwards on the DVR.
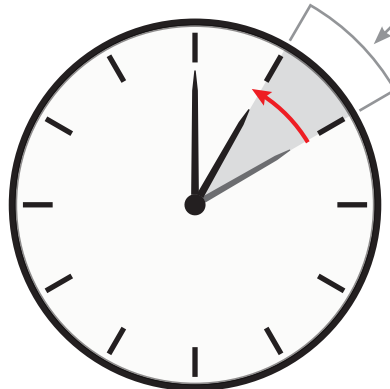
When time is changed, the recorded video from that time will not display in regular searches.
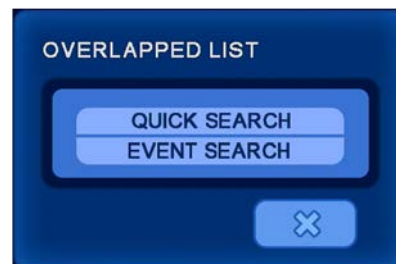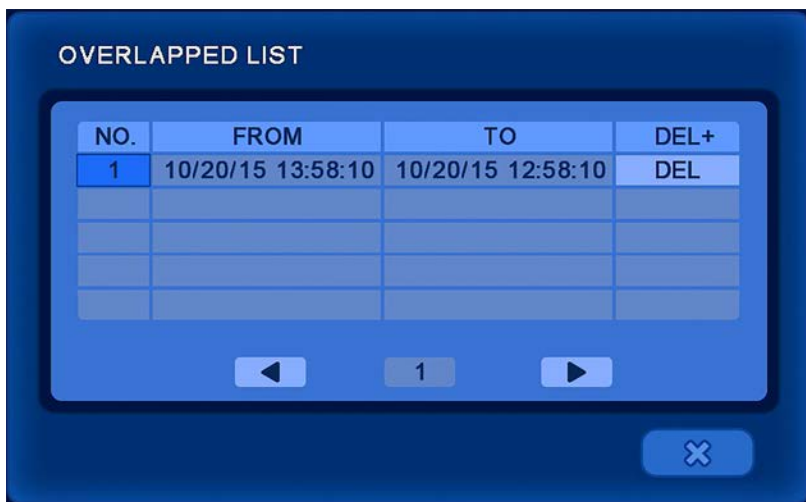
This hour of "lost" recorded video is saved in the Overlap List.

NO: Click on the desired number to view the video from the overlap list.
   **QUICK SEARCH:** Search for video using the Calendar search option.
   EVENT SEARCH: Search for video using Event triggers.

DEL: Deletes the selected overlapped video(s).

Museum Search is a very effective way to search for motion in only a specific region of an individual camera. Example; a camera placed next to a road will have motion events constantly making searching difficult. Using the search grid in museum search narrows down the motion to a specific area to search. Museum Search will search for/detect motion that has occurred - even if Motion Recording is not enabled.
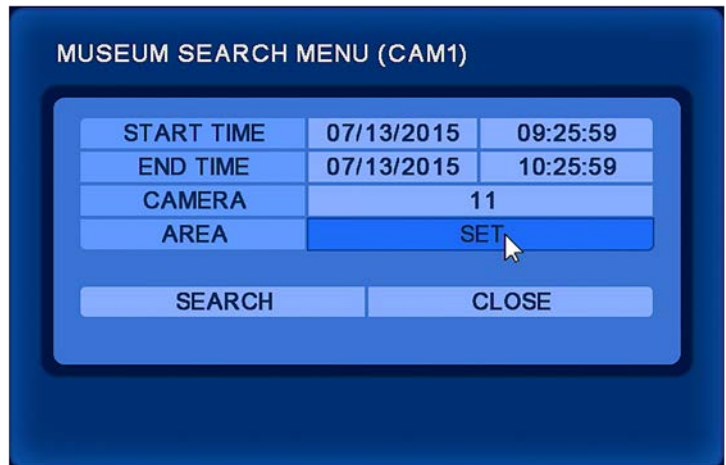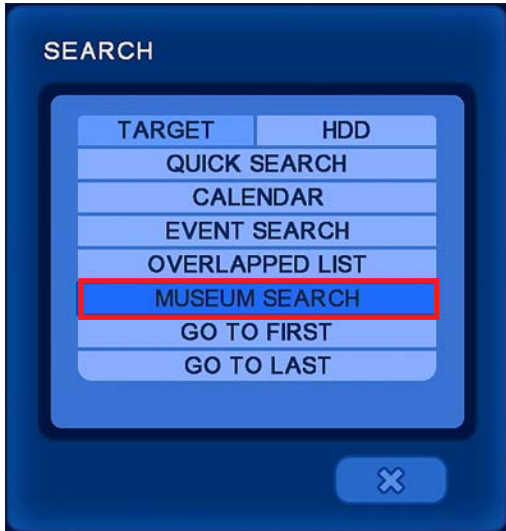
START TIME: Enter the Date & Time info to start the search from.

END TIME: Enter the Date & Time info to stop the search.

CAMERA: Select the desired camera to search for motion.

AREA: Select a motion search area-
1. Press SET.
2. Move the mouse cursor to the desired start point.
3. Click & hold the left mouse button on a square to set the corner.
4. While holding the mouse button down, drag the highlighted box to the desired size.
5. Clicking off/releasing the mouse button sets the search grid.

SEARCH: Search the selected Area for motion. Depending on the Start & End Times this could take several minutes to complete.

CLOSE: Exits from the Museum Search menu.

Draw a motion area to search.
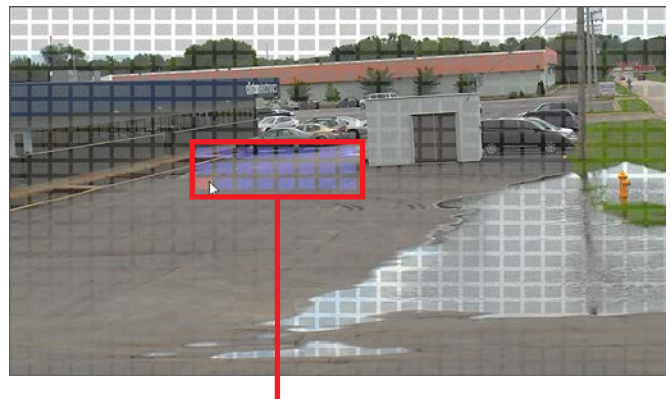
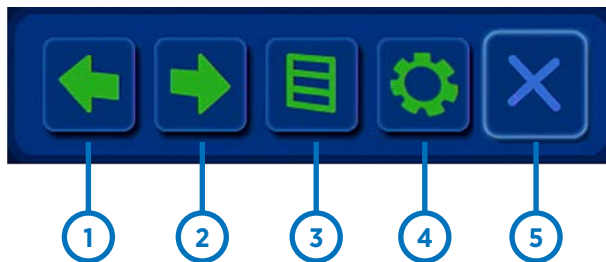Only motion in this grid will be searched.

Museum Search continued...

The Museum Search results will only display motion that took place in the previously defined search area.
Red boxes shown to indicate where the search area was. They do not display on the DVR.

Move the mouse cursor to the bottom of the screen to display the Museum Search control panel.

1. Page Left through search results

2. Page Right through search results

3. View Search results in list form

4. Display Museum Search settings. Clicking the STOP button will stop the search if it is taking too long.

5. Exit the Museum Search results preview.

The time to complete the Museum Search will vary depending on the Start & End Times. The longer the time frame to search, the longer the search will take to complete.

Museum Search can be quickly accessed from any search method by clicking on the Museum Search icon (running man icon) from the Search control panel at the bottom of the screen.
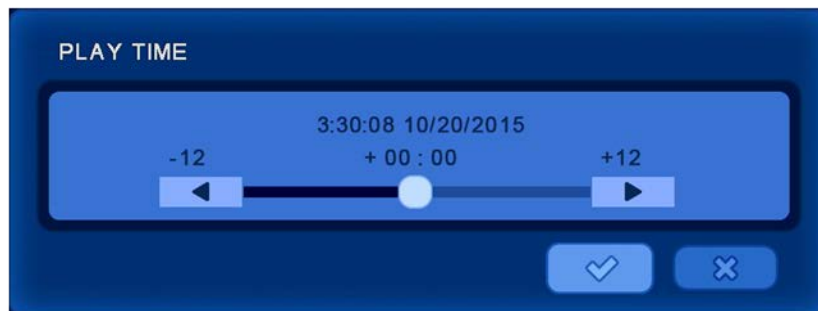
GO TO FIRST: Quickly jumps to the earliest/oldest recorded video on the DVR.

**GO TO LAST:** Quickly jumps to the latest/most recent recorded video on the DVR.

GO TO JUMP: Only selectable when actively searching video. Quickly change the playback time by as much as 12 hours. To access move the mouse cursor to the top of the screen and click on the Search icon for a second time. GO TO JUMP will now be displayed at the bottom of the menu.

GO TO JUMP menu. Quickly jump forwards or backwards up to 12 hours.

CAMEO MENU CH6

LIVE CHANGE
PLAY CHANGE
PANORAMA
PREVIEW
MUSEUM SEARCH
ZOOM
JPEG EXPORT
AUDIO ON
MAIN MENU
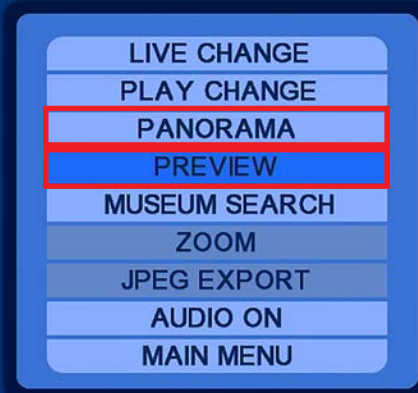
To access Panorama & Preview search options, you must be viewing a single channel. Right click on the video area to bring up the CAMEO MENU for that channel.

PANORAMA: Display up to 16 consecutive still frames of a selected channel during playback. Each window of the selected multiplex view (4 / 9 / 16) represents 1 frame of video. The higher the recorded frame rate (FPS) the faster the still frames will refresh.

PREVIEW: Displays video from the selected channel as a still image from every 4 minutes of video.

PANORAMA ▶

Displays video frame by frame in a multiplex view (4/9/16).

PREVIEW ▶

Each frame is a still image taken every 4 minutes.

PREVIEW can be quickly accessed from any search method by clicking on the Preview icon (checkerboard icon) from the Search control panel at the bottom of the screen, or right clicking, then selecting PREVIEW.

BACKUP

Top Menu

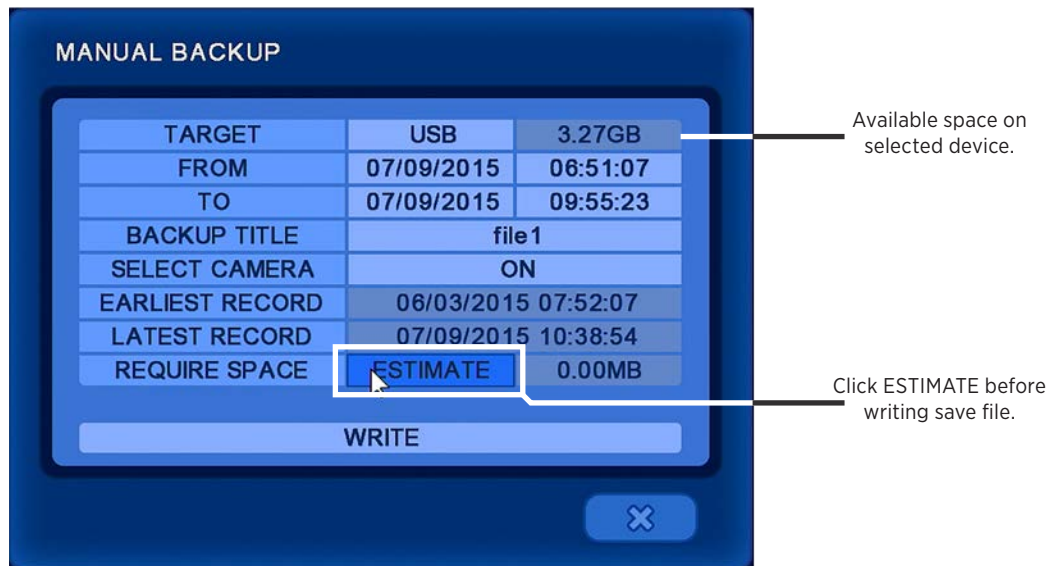Search   **BACKUP**   Info   Settings   Log-Out
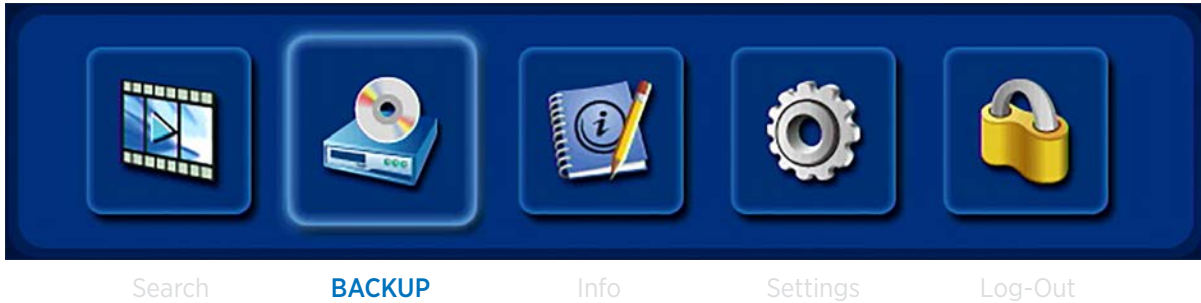
A blank CD-R, DVD-R, or a formatted USB drive is required for video backup. (USB drives up to 32GB and must be formatted to FAT32) For formatting information refer to: SETUP MENU > Disk > Check/USB > USB Format.

Press BACKUP to display menu screen

BACKUP

Available space on selected device.

Click ESTIMATE before writing save file.

TO BACKUP RECORDED VIDEO:

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.

4. Select which device to use.

5. Set From (start) & To (stop) Dates & Time. *The longer the time frame, the longer it will take to backup video.*

6. Name the file if desired by clicking [**backup**] in the BACKUP TITLE row.

7. Click the [**ON**] button next to SELECT CAMERA to select which cameras will be saved. The more cameras selected-the larger the file size.

8. 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 lower the file size either shorten the amount of time to be saved or select fewer cameras.*

9. Click [**WRITE**] to start the backup process. A progress bar displays the percentage of completion.

10. Once the video is backed up, the DVR will beep. It is now safe to remove the USB device or disc from the DVR.


Select the desired drive/device

Click STOP to cancel the backup

Click HIDE to return to regular DVR operation

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).

USB device with saved video

Open DVR Player

Folders containing saved video
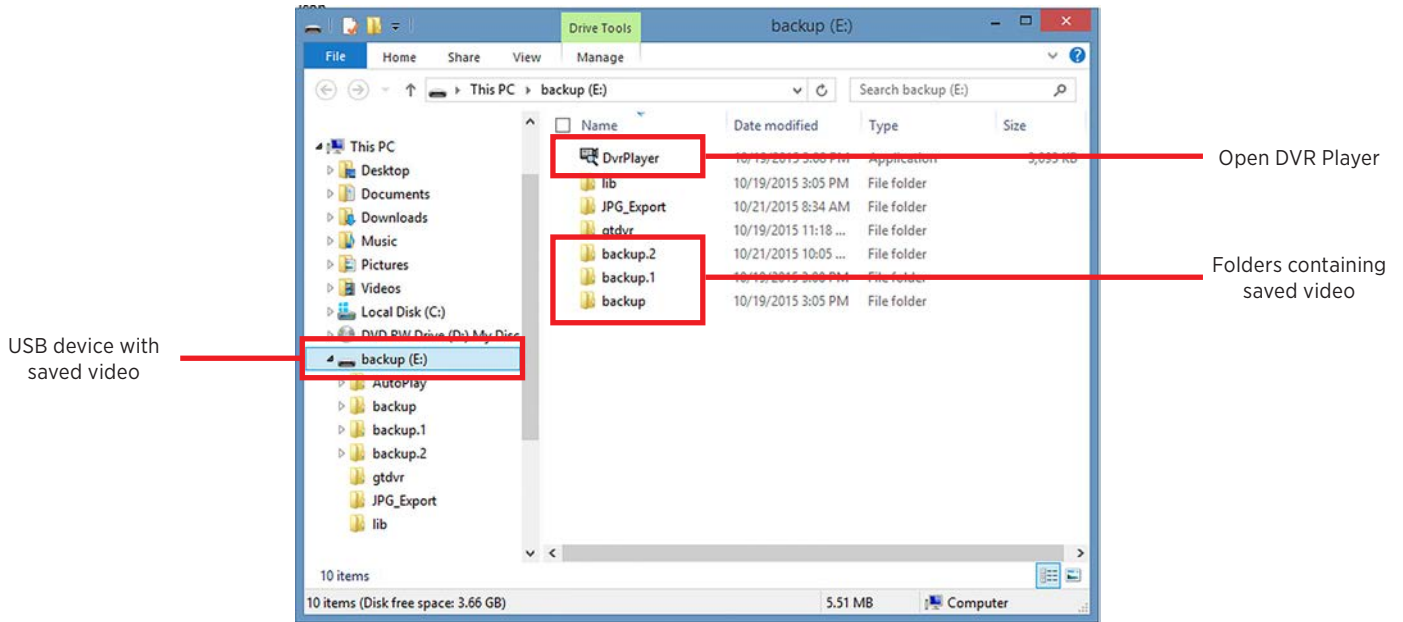
TO VIEW SAVED VIDEO FROM BACKUP:

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.*
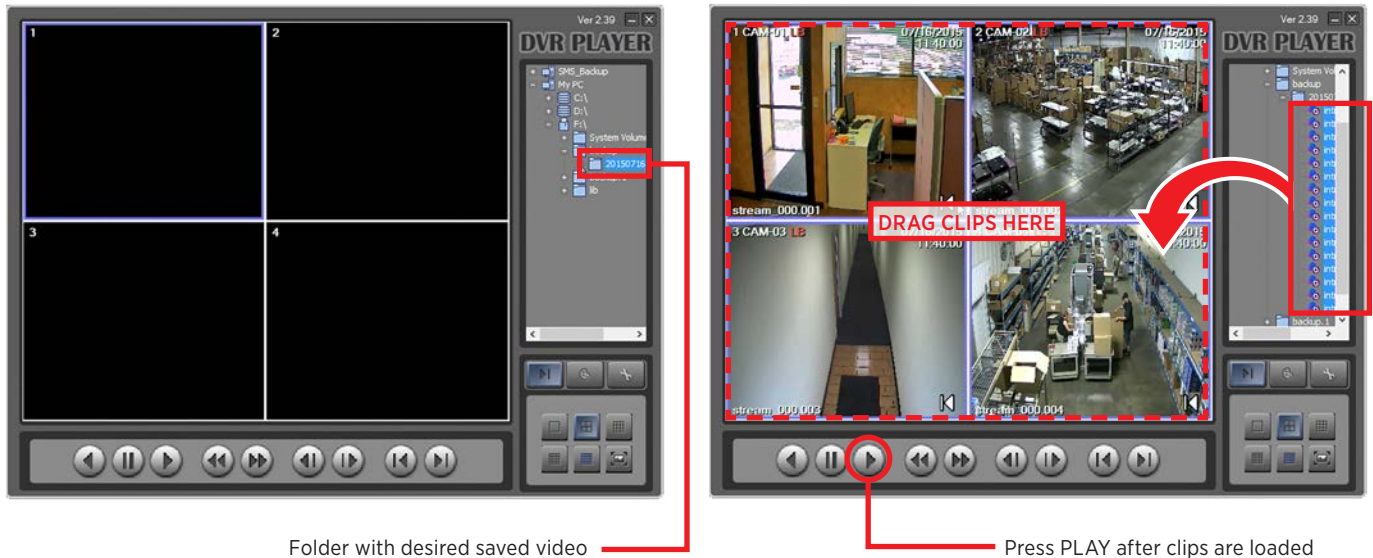
DRAG CLIPS HERE

Folder with desired saved video

Press PLAY after clips are loaded

Clinton Shadow, Pro, HD & Hybrid Series DVRs can be accessed on a local network or remotely with Internet Explorer, Firefox or Safari. Functionality is varied depending on the type of browser.

DVR network settings must be properly set up for the Web Viewer to function. To access the DVR via the internet, port forwarding must be configured in the router according to the WEB and SMS port settings in the DVR. The default port settings are 80 for WEB and 7000 for SMS.
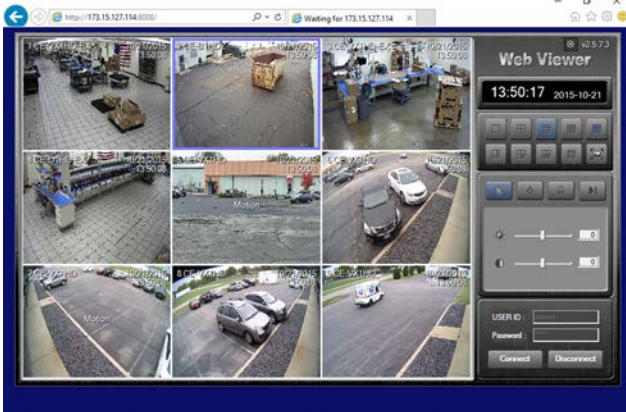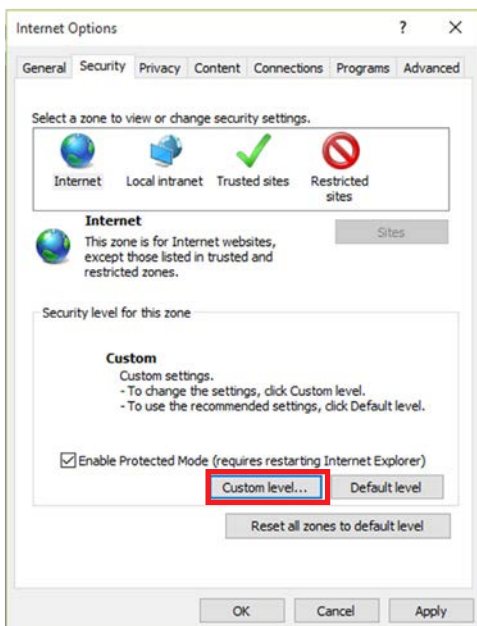

Internet Explorer
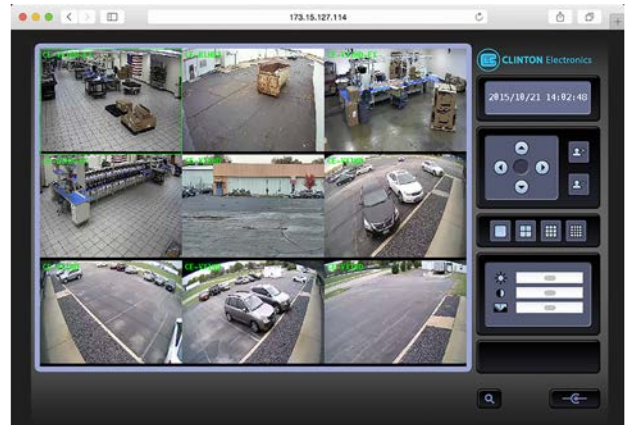
Safari & Firefox

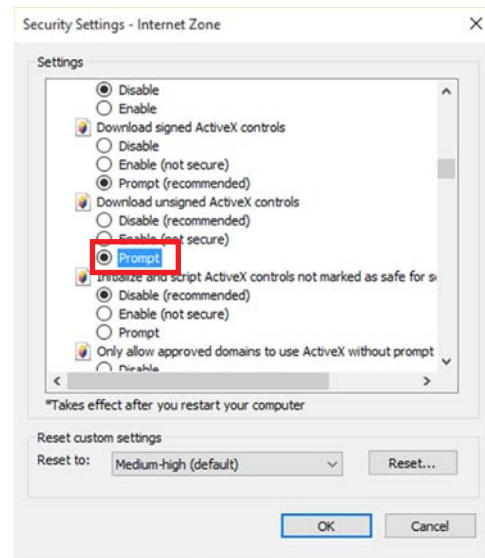**WEB VIEWER ON INTERNET EXPLORER:**

1 Open Internet Explorer.

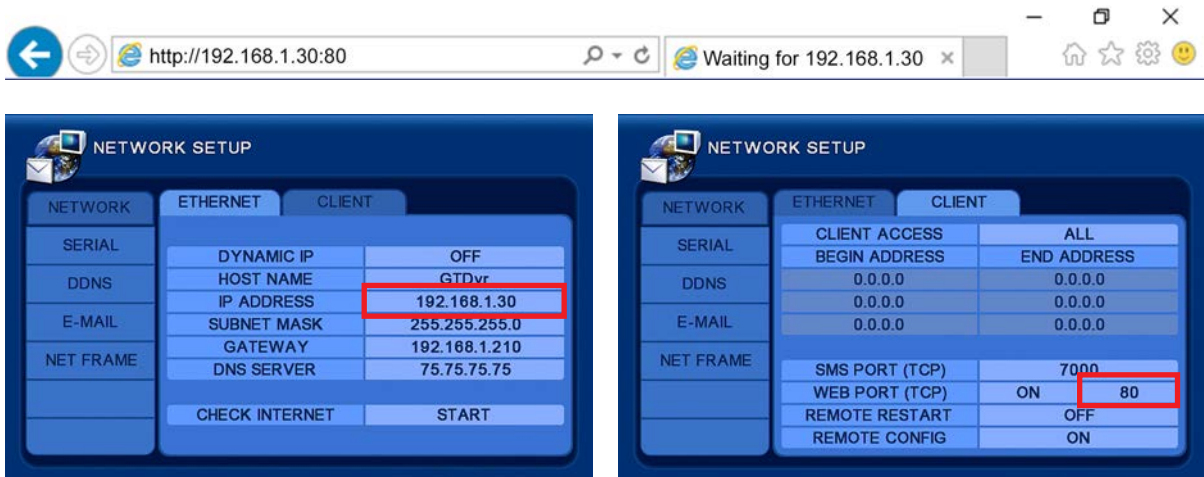**2** Go to: Tools > Internet Options > Security > Custom Level

3 Scroll down to **Download Unsigned ActiveX Controls**.

Select **Prompt**, then click OK to save settings.

4 Enter the IP Address of the DVR followed by the WEB port number in the address area of the browser. (this can be found in: NETWORK > Network Settings > Ethernet/Client)
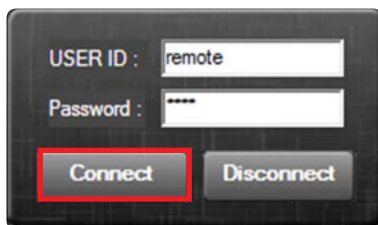

**5** Click *Install* when prompted for ActiveX control.

6 Login in using the Client ID & Password. To edit login information: SETTINGS > Account > Client. Default login ID is *remote* & password is *1111*.

Then click the *Connect* button.

7 "Success to login" will display briefly if the login information was correct.

After successful connection the video from the DVR will load into the multiplex window.
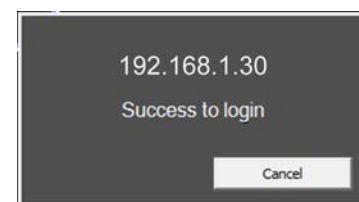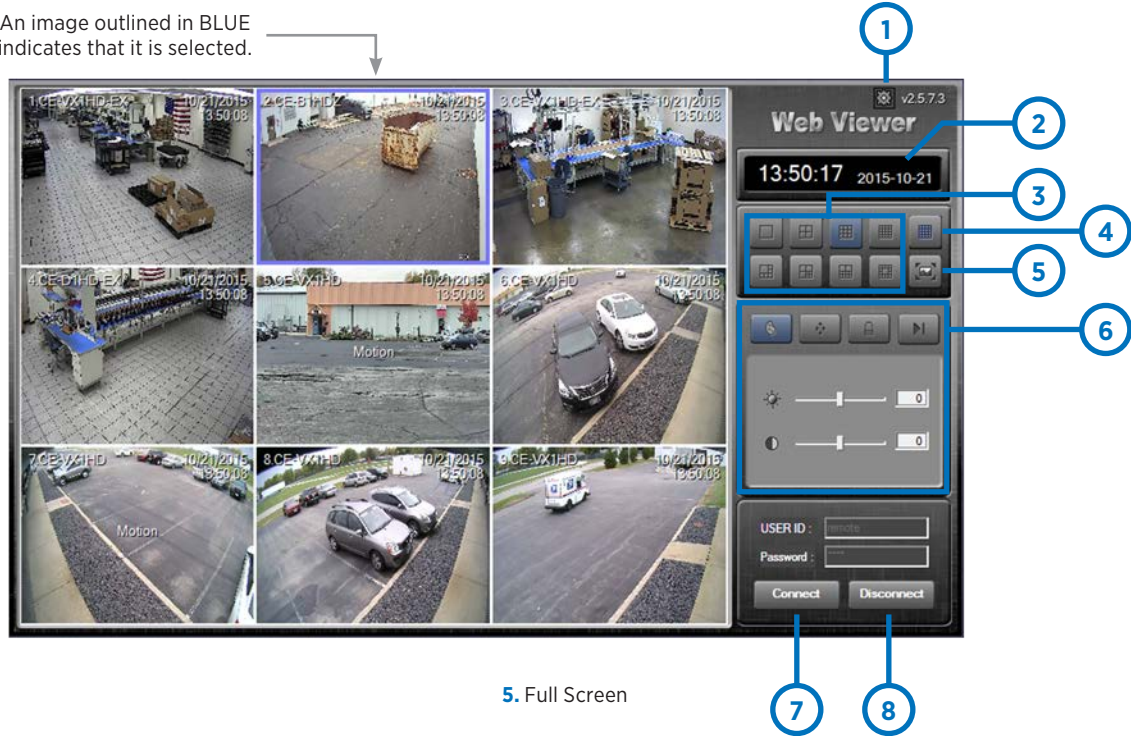

NOTICE

- *Web Viewer does not work on the Google Chrome or Microsoft Edge browser.*
- *Call Clinton Tech Support for help with router port forwarding.*

Click on an image to select that camera to make adjustments. Double click the selected image to fill the player window.

An image outlined in BLUE
indicates that it is selected.

1. DDNS Settings

2. Current Date & Time Info

3. Multiplex Views

4. Select All Cameras

5. Full Screen

6. Control Options

7. Connect

8. Disconnect

Image Adjustment

Frame Rate
Brightness
Contrast
Filter

PTZ Adjustment
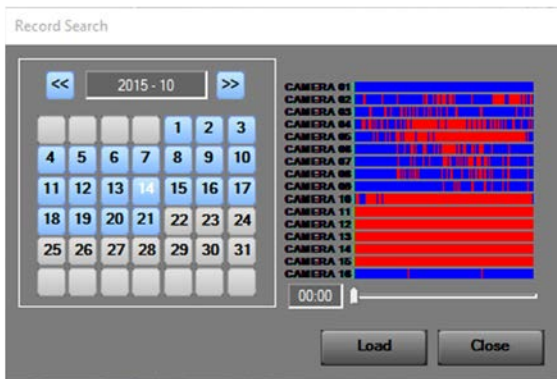
Move PTZ
Zoom IN
Zoom OUT

Alarm

Alarm Out
On/Off

SEARCH

Open Search
Exit Search

- *The adjustments made to the camera image (Brightness/Contrast) only apply to the Web Viewer image. They do not change the image brightness/contrast on the DVR.*
- *The Frame Rate can not play higher than what the Net Frame is set to on the DVR. (NETWORK > Net Frame)*

SEARCH: Click the **Open** button to display the Record Search window. This window is similar to CALENDAR SEARCH on the DVR.

1. Click on the calendar date to search video.

2. Move the slider on the bottom of the timeline to the desired time.

3. Click the **Load** button to playback selected video.

4. Click **Exit** when done to return to Live View.

Right Click in the player window to display additional options.

View Single: Display the selected camera full screen in the player window.

Zoom In: Zoom in (digital zoom) on selected video. When zoomed in- click and drag around in the window to view more of the image. Right click again to zoom in further or to zoom out.

Live Audio: Listen to audio from the selected camera. Audio must be set up and connected to the DVR to function.

OSD Setup: Turn On/Off the On Screen Display information; Camera Name, Date, Time, Event & Channel Number. Click OSD Color to change the color of the OSD text.

Use DirectX: Leave this checked.

Freeze: Pauses the selected live video.

Sequencing: Cycle through live attached camera channels. *Note: All screens except the 16 Camera screen will sequence any channel selected with cameras not shown on screen if more cameras are connected than are shown on the screen.*

Print & Save: Takes a snapshot of the video and saves it as a .BMP or offers the option to print the image.

REMOTE ACCESS > CEC Connect App

Clinton Shadow, Pro, HD & Hybrid Series DVRs can be accessed from an iOS or Android device using the CEC Connect App.

DVR network settings must be properly setup for the CEC Connect App to function. To access the DVR via the app; port forwarding must be configured in the router according to the SMS port settings in the DVR. The default port settings are 7000 for SMS.

CEC Connect
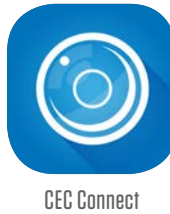
Compatible with iPhone, iPod touch, and iPad. Requires iOS 5.1.1 or later. View more info on the iTunes App Store.

Compatible with most Android devices. Requires Android 2.1 or later. View more info on Google Play.

Screen images from iOS ver9.1

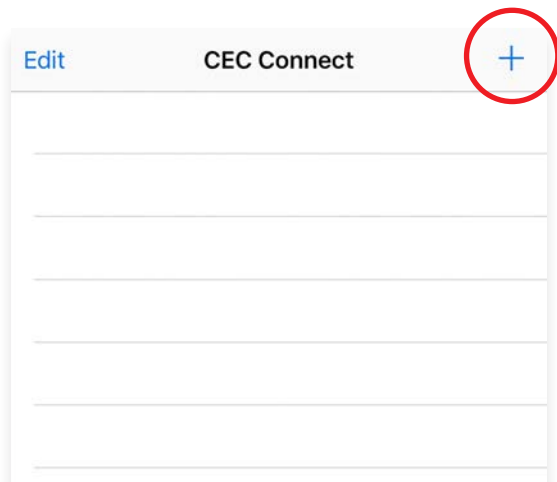**1** Open the App Store or Google Play Store. Search for *CEC Connect* or *Clinton Electronics*.

cec connect

3 Install the CEC Connect app.
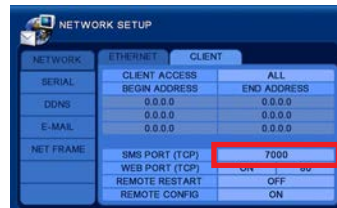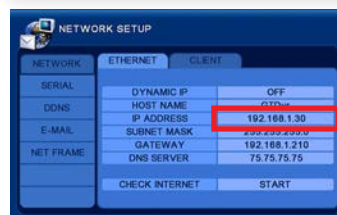
CEC-Connect
CLINTON Electronics

GET

3 Open the app after installation.

4 Click the + icon to add a new DVR.

Edit   CEC Connect   +

Multiple DVRs can be saved and quickly accessed, edited and deleted from this main menu.

5 Enter the IP Address from the Ethernet tab and the SMS Port number from the Client tab (NETWORK > Network Setup > Ethernet > Client). *The Name option can be different from the DVR Host Name.*

Cancel   New DVR   Save

DVR INFO

Name : GTDvr

Address : 192.168.1.30

Port : 7000

If using a Host Name (DDNS), enter that info in place of the IP Address.

81

6 Enter the Client login information. Default User is *remote* and password *1111*.

7 After the IP Address, Port Number & Login information has been entered, press **Save**.

8 DVR names & addresses are stored here. Press the desired DVR to display live video.

Press the ⓘ to display and edit the DVR information.

9 To delete a DVR listing, press EDIT, press the red circle next to the DVR to delete.

The DVR will slide over to reveal a DELETE button. Press to confirm DELETE.

Screen images from iOS ver9.1

10 To change the order of the DVR listing; press EDIT, then press and hold the 3 horizontal lines and move to the desired location

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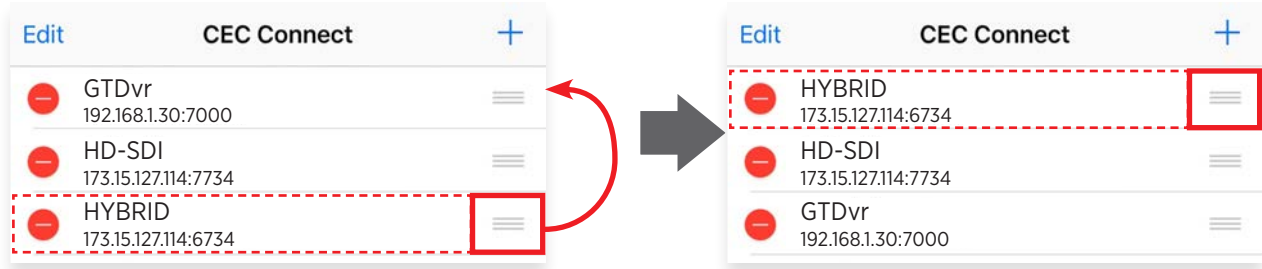
LIVE VIEW MENU SCREEN:

CEC Connect can be viewed either in Portrait (vertical) or Landscape (horizontal) mode. Rotate the phone to change between the two viewing options.
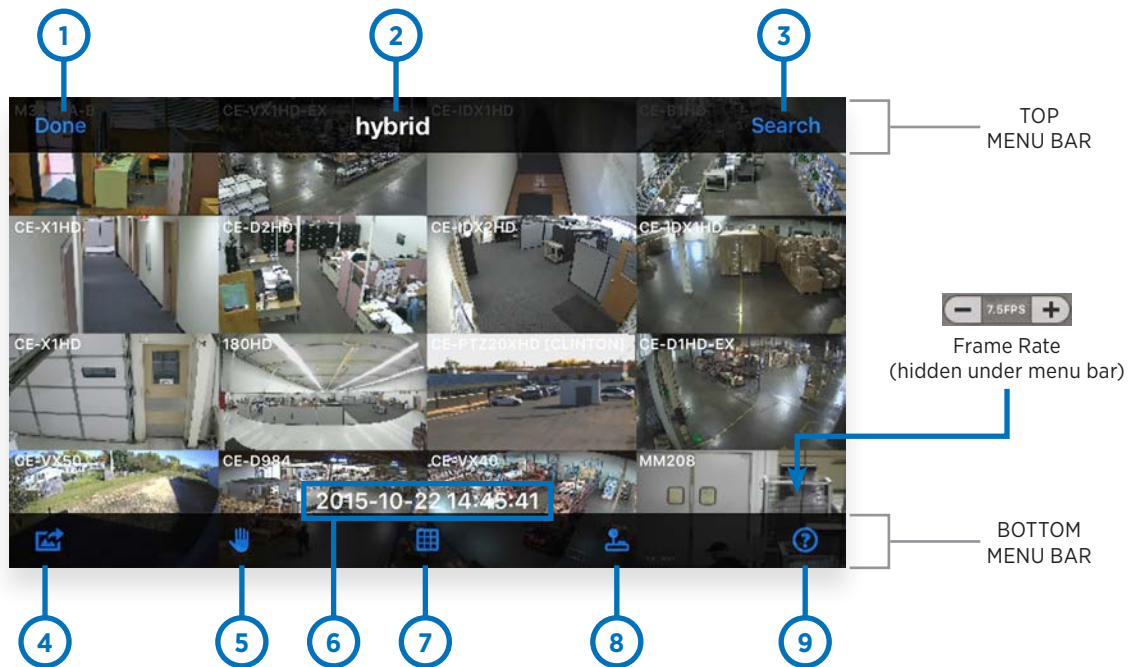
1. Exit to Main Menu (DVR Address Menu)

2. DVR Name

3. Search Recorded Video

4. PNG (Image) Export

5. Freeze Live Video

6. Date & Time Info

7. Multiplex Views (1 / 4 / 9 / 16)

8. PTZ Control

9. Help

Screen images from iOS ver9.1

HIDE MENU BARS:

Tap ONCE on the screen to hide the menu bars. Tap ONCE again to display the menu bars.
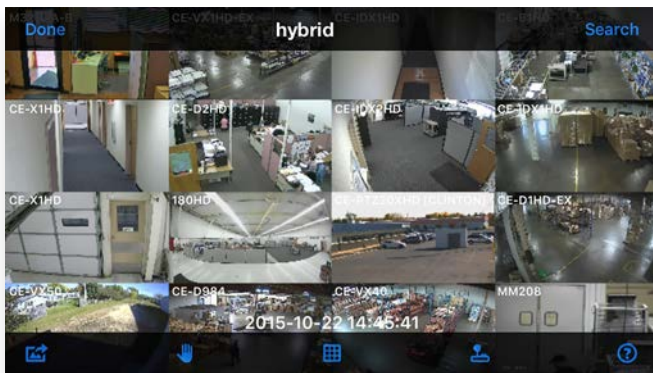
CHANGE MULTIPLEX VIEW:

Tap the MULTIPLEX icon to change how many cameras are displayed on the screen.

Default is
16 Camera View
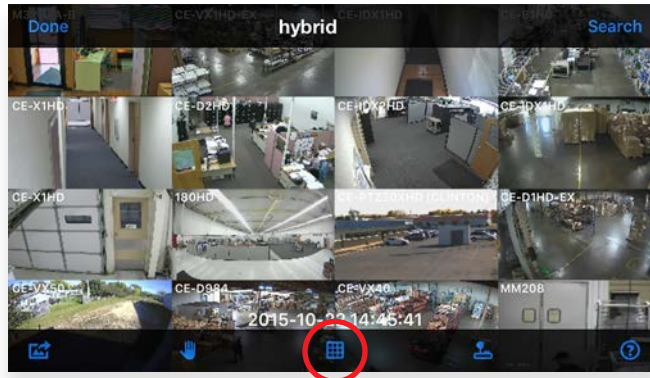
**Double Tap a camera
to view full screen.**

9 Camera View   4 Camera View   Single Camera View
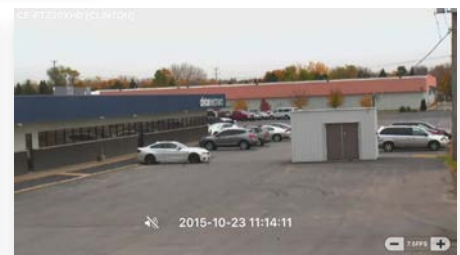
CHANGE CAMERA DISPLAYED:

Swipe LEFT /RIGHT / UP / DOWN to cycle through different camera views. *Does not change when viewing 16 cameras.*

Swipe   Swipe   Swipe

Screen images from iOS ver9.1

SEARCH RECORDED VIDEO:

Tap the SEARCH button to view recorded video. Enter the desired date & time to search recorded video. Once in SEARCH mode Multiplex camera views and full screen viewing function the same as in Live View.

1. Exit to Main Menu (DVR Address Menu)

2. Hi-speed Scrubbing

3. Search Date & Time Menu

4. Return to Live View

5. Date & Time Info

6. PNG (Image) Export

7. Jump Backward 15 Seconds

8. Fast Rewind (up to 32x)

9. Rewind

10. Pause

11. Play

12. Fast Forward (up to 32x)

13. Jump Forward 15 Seconds

14. Change Multiplex View

15. Search Speed

Screen images from iOS ver9.1

PTZ CAMERA CONTROL:

After selecting a PTZ camera; tap the PTZ icon to make adjustments to the camera's position and zoom.

Preset Position

Focus Near / Far

Zoom In / Out

PTZ Joystick
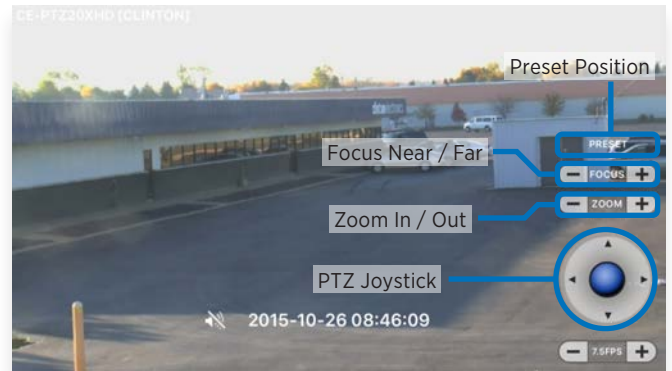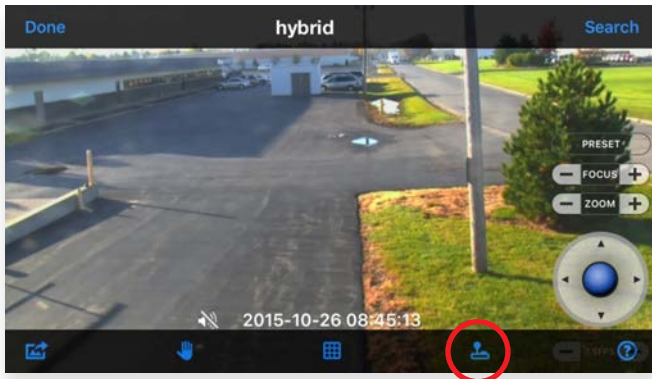
The PTZ camera must be correctly setup on DVR to function.
Depending on network connection speed, adjustments may take a second to display .

IMAGE EXPORT:

To export an image of a selected camera, tap the PNG Export icon. This image can be found in the Photo Album.
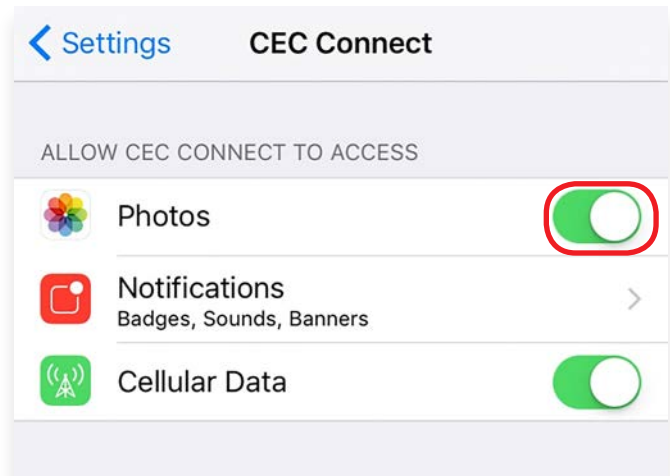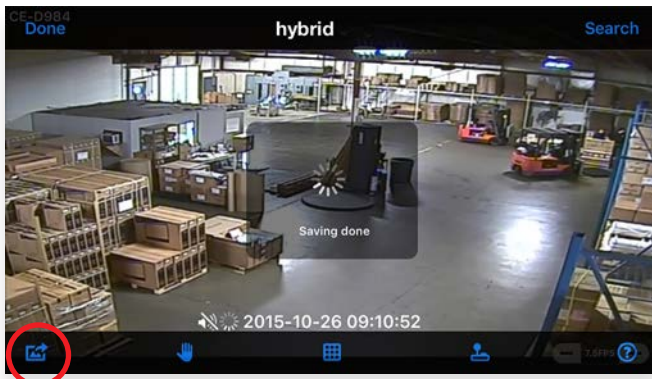
CEC Connect must have access to the Photo Album for images to save. To turn On/Off, go to iOS Settings, then scroll down to find CEC Connect.

Screen images from iOS ver9.1

PORT FORWARDING BASICS

- *Router IP addresses and configuration pages vary by manufacturer. Use the following 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.*

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 IP address of the DVR (found in NETWORK > Network Setup > Ethernet > IP Address).

9. Click **OK** or **SAVE**.

These steps will need to be repeated to open the SMS Port (default 7000). Instead of entering 80 for the Starting and Ending Ports, you will enter 7000.

DDNS Setup

DDNS (Dynamic Domain Name System) is a system that monitors changes in the user's IP Address. Most small business or residential users have a dynamic IP address that can change periodically. When the IP address changes any devices that were using that older IP address will be unable to connect to the DVR. When DDNS is setup, the DVR will detect changes in the IP address and send that new info to the DDNS service. The DDNS service will update the IP address (numbers) but the Host Name will remain unchanged, allowing uninterrupted remote connection to the DVR.

ISP — 192.168.8.7

ISP changes the users Public IP Address (dynamic IP Address)

192.168.1.2 — OLD IP Address

192.168.8.7

DVR detects changed IP Address & sends NEW info to DDNS Service

DDNS

~~192.168.1.2~~

192.168.8.7

DDNS Service changes the IP Address associated with the Host Name

DDNS Host Name

GTDvr01.cedyn.com

WWW

GTDvr01.cedyn.com

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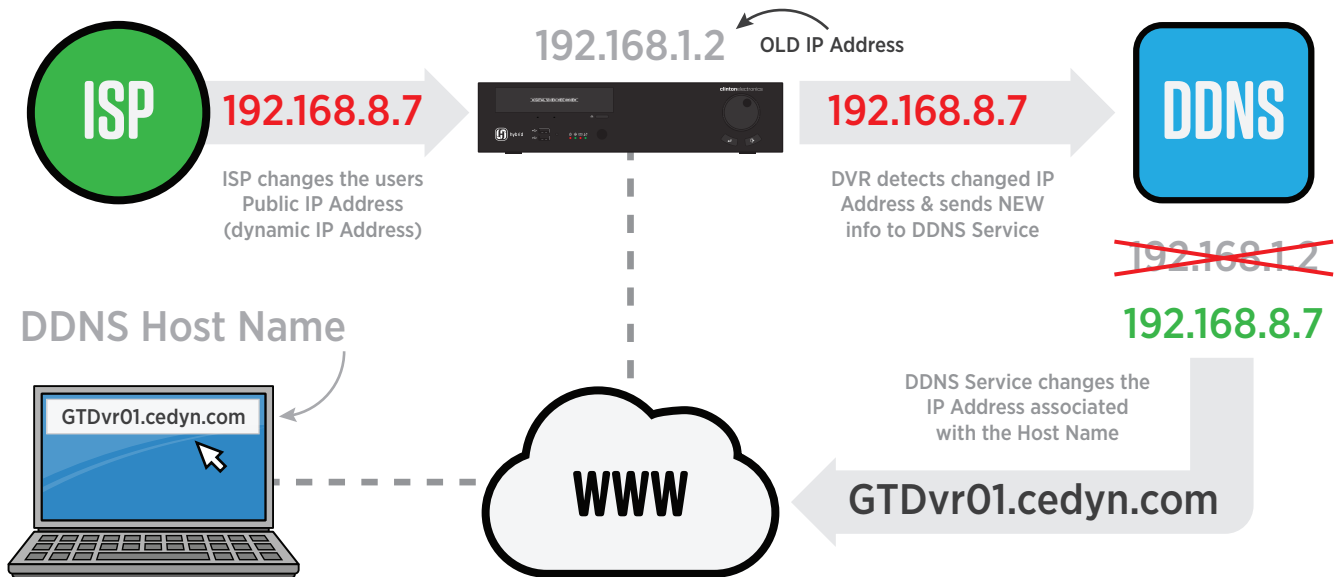
1 After logging onto the DVR using Internet Explorer, click on the DDNS Settings icon located next to the Web Viewer version number in the upper right hand corner of the Web Viewer screen.

---

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

DDNS Setup ✕

DDNS Information

DDNS Select : no-ip.com ▼ | Home
DDNS User Name : | Create Account
DDNS Password :
DDNS Host Name :
☐ Router-IP Mode

Apply | Clear

3 Create a User Name & Password, followed by contact information. Click the check box to agree to the TOS. (Terms Of Service available at http://www.no-ip.com)

No-IP Setting : Create Account ✕

Account Information

User Name : GTDvr01 | Check | Email : yourname@emailadd
Minimum of 4 characters in length.
Password : ****** | First Name : John
Minimum of 6 characters in length.
Confirm Password : ****** | Last Name : Smith
Postal Code : 61111
☑ You agree to the TOS | Next

Click to check availability of chosen User Name.

Click *Next* to proceed.

DDNS Setup

4 Create a desired Host Name. Select **cedyn.com** from the Dropdown Menu (this is the free service offered by Clinton Electronics, other options may involve mothly fees). Enter the public IP Address that the DVR is connected to. This is different than the IP Address of the DVR. If you are unsure of the public IP, visit: **http://whatsmyip.org**

No-IP Setting : Add Host ✕

Host Information

Host Name : GTDvr01   cedyn.com ▼

IP Address : 173 . 15 . 127 . 113

Next

Your IP Address is 173.15.127.113

$0.32/Mbps IP Transit
IPv6+IPv4 and BGP For Your Network in North America and Europe

Networking Tools
More Info About You
Port Scanners
Traceroute
HTTP Compression
Ping
WHOIS & DNS
Website Rankings
IP Location
HTTP Headers
Text Related Tools
Short URL Machine

Home

Host Name & User Agent
Your Host Name:
office.clintonelectronics.com

Your User Agent:
Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_5) AppleWebKit/601.2.7 (KHTML, like Gecko) Version/9.0.1 Safari/601.2.7

For even more information, visit the More Info About You page.

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

No-IP Setting : Finish ✕

Account Information

User Name : GTDvr01

E-Mail : yourname@emailaddress.com

First Name : John

Last Name : Smith

Postal Code : 61111

Account Information

Host Name : GTDvr01.cedyn.com

IP Address : 173.15.127.113

Ok

6 The DDNS account info will be displayed automatically. Click the check for Router-IP Mode. Click Apply.

DDNS Setup ✕

DDNS Information

DDNS Select : no-ip.com ▼   Home

DDNS User Name : GTDvr01   Create Account

DDNS Password : ******

DDNS Host Name : GTDvr01.cedyn.com

☑ Router-IP Mode

Apply   Clear

This DDNS info will be pushed to the DVR after Apply is clicked.

DDNS SETUP

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

- **If the DVR is connected to a router, the Web and SMS ports used in the DVR must be forwarded in the router to the DVR's IP address using TCP and UDP protocol.**
- **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**

FIRMWARE UPDATE

Latest DVR firmware can be found online at www.ClintonElectronics.com/support.html.

Follow the procedure below to install the firmware onto your DVR.

1. Insert a USB device (Formated to FAT32) into a computer.
2. Download the appropriate DVR firmware from www.ClintonElectronics.com/support.html
3. Save the firmware update to the USB. Do Not open the contents of the firmware update or rename the file. Opening, modifying or renaming the firmware update will make it unreadable by the DVR.
4. Remove the USB device from the computer.
5. Insert the USB device into the DVR.
6. Restart the DVR. To restart: SETUP MENU > Shutdown > Restart
7. Confirm the firmware update during the DVR restart. Once the update starts do not remove the USB device from the DVR. The firmware update can take several minutes to complete depending on the size of the update.
8. After successfully updating the firmware; remove the USB device when prompted then click the ✓ mark.
9. The DVR will perform a self-restart. This can take several minutes.
10. After this second restart an "Upgrade Completed" window will be displayed. Click the ✓ mark to return to regular DVR functions.
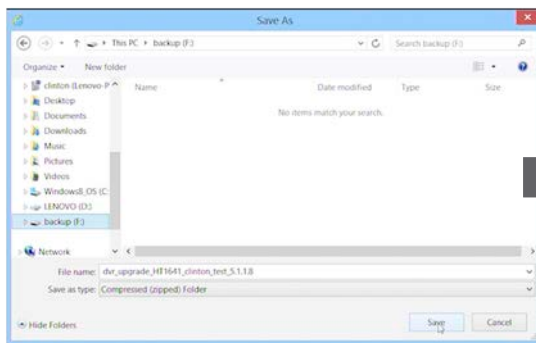
Download & Save firmware update from ClintonElectronics.com/support.html onto USB

Insert USB with firmware update into DVR & Restart

Confirm the firmware update by clicking the ✓ button, do not remove USB from DVR or power down

Remove USB from DVR when prompted

NOTICE

- **Do Not remove the USB device from the DVR until the firmware has successfully been installed.**
- **If the USB device is not removed after prompted, the DVR will initiate the firmware update again after restart.**

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DVR User Manual

Shadow · Pro · HD-SDI · Hybrid