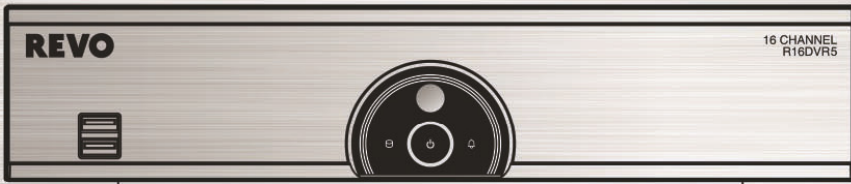


# REVO

**GO MOBILE.  
STAY ALERT.**

New Picture Alerts,  
Push Notifications,  
System Status  
Updates & More!

## Digital Video Recorder **SET UP GUIDE**



**DVR Model R16DVR5**



**pentaplex**  
TECHNOLOGY

Revo's exclusive PentaPlex® Technology allows you to View Live Video and Record/Playback/Backup/View Video remotely -- **ALL AT THE SAME TIME!**

**REVO**  
**EZLINK**

REVO's EZLink is a revolutionary new technology that automatically sets up your DVR to work seamlessly for remote viewing via your network internet connection. Simply connect the DVR to your network router and you'll be networking in no time. **REVO's EZLink - Smart. Easy. Installed!**

(Full Operating Manual available on enclosed CD ROM or at [www.revoamerica.com](http://www.revoamerica.com))

**REVO**™ **OUT OF SIGHT  
PEACE OF MIND**



## About This Document

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This document contains instructions for DVR configuration and operation.

## Package Contents

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The package contains the following:

- Digital Video Recorder
- Power Adaptors and Power Cords (DVR, Camera)
- Quick User Guide (This Document)
- Software CD (User's Manual included)
- LAN Cable
- USB Mouse
- Infrared Remote Control

## Notice

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Specifications are subject to change without prior notice.

The information contained herein is to be considered for reference only.

The software included in this product contains some Open Sources. You may obtain the complete corresponding source code from us. See the Open Source Guide on the software CD (*OpenSourceGuide\OpenSourceGuide.pdf*).

## Warning

---

	<b>WARNING</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<b>WARNING:</b> 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 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.



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.

## 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. Placement and 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.

This equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.

Do not place this equipment on a closed space. Sufficient amount of ventilation air is necessary to avoid increase of ambient temperature which can cause improper operation or the risk of fire.

### 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 TNV 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 antenna or 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.

## Disposal

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### WEEE (Waste Electrical & Electronic Equipment)

#### Correct Disposal of This Product

(Applicable in the European Union and other European countries with separate collection systems)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

## Specifications

### Video

Signal Format	NTSC
Video Input	Composite: 12 RJ-12 and 4 BNC inputs, 1 Vp-p, auto-terminating, 75 Ohms
Monitor Outputs	HDMI: 1 HDMI VGA: 1
Video Resolution	HDMI: 1920x1080, 1440x900, 1280x1024 VGA: 1920x1080, 1440x900, 1280x1024
Record Speed	480ips (NTSC), 400ips (PAL) @ D1 (Real-time)
Playback Speed	480ips (NTSC), 400ips (PAL) @ CIF (Full Duplex)

### Inputs/Outputs

Alarm Input	16 terminal, programmable as NC or NO, 2.4V (NC) or 0.3V (NO) threshold, 5VDC
Alarm Output	2 relay output, terminal blocks, 1A@30VDC (NO)
Internal Buzzer	80dB at 10cm
Network Connectivity	10/100Mbps, 1Gbps Ethernet (RJ-45)
Audio Input	RJ-12 Input: 12 Line In
Audio Output	RCA Output: 1, Line Out
Text Input	POS Interface, ATM Interface

### Connectors

Video Input	12 RJ-12 (12V $\frac{1}{2}$ , Max. 310mA) and 4 BNC
Monitor Output	HDMI: 1 HDMI VGA: 1 VGA
Audio In	12 RJ-12 connector
Audio Out	1 RCA connector
Alarm Input/Output	Terminal Blocks
Ethernet Port	RJ-45
RS485 Serial Port	Two-connector terminal block
IR Port	1 Remote Control
USB Port	2 (USB 2.0)

### Storage

Primary Storage	SATA hard disk drive
Secondary Storage	USB flash drive

### General

Dimensions	11.8" (W) x 2.4" (H) x 9.1" (D) (300mm x 62mm x 232mm)
Unit Weight	6.83 lbs. (3.1kg)
Shipping Weight	11.46 lbs. (5.2kg)
Shipping Dimensions	15.4" (W) x 4.4" (H) x 14.2" (D) (390mm x 113mm x 360mm)
Operating Temperature	41°F to 104°F (5°C to 40°C)
Operating Humidity	0% to 90%
Power	DVR: 12V $\frac{1}{2}$ , 1.9A (Adaptor: 100-240V~, 50/60Hz, 1.5A, 12V $\frac{1}{2}$ , 5A) Camera: 12V $\frac{1}{2}$ , 2.5A (Adaptor: 100-240 V~, 50/60Hz, 1.5A, 12V $\frac{1}{2}$ , 5A)
Power Consumption	DVR: Max. 25W Camera: Max. 40W
Approvals	FCC

# Table of Contents

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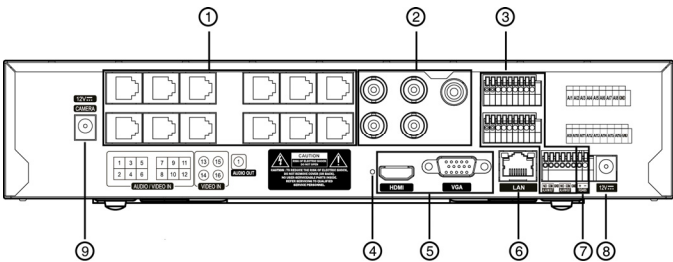
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# Installation

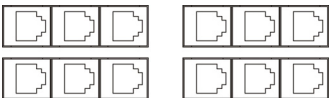
No special tools are required to install the DVR. Refer to the installation manuals for the other items that make up part of your system.



< DVR rear panel >

- |                               |                            |                      |
|-------------------------------|----------------------------|----------------------|
| ① Video Input                 | ② Audio Out                | ③ Alarm Input/Output |
| ④ Factory Reset Switch        | ⑤ Video Out                | ⑥ Network Port       |
| ⑦ RS485 Port                  | ⑧ DVR Power Cord Connector |                      |
| ⑨ Camera Power Cord Connector |                            |                      |

## Video Input



Connect the RJ-12 cables from the observation cameras to the modular RJ-12 VIDEO IN connectors.



Connect the coaxial cables from the video sources to the BNC VIDEO IN connectors.

## Audio Out



Connect Audio Out to your amplifier using the RCA jack. If supported, connect the audio sources to the audio input connector of the observation cameras that are connected to the modular RJ-12 connectors of the DVR. Refer to the observation camera manual for configuring the Audio In connection. Your DVR can record audio from up to 12 sources.

**NOTE:** It is the user's responsibility to determine if local laws and regulations permit recording audio. The DVR does not have amplified audio output, so you will need a speaker with an amplifier. The DVR does not have a pre-amplifier for audio input, so the audio input should be from an amplified source, not directly from a microphone.

## Alarm Input/Output



**NOTE:** To make connections on the Alarm Connector Strip, press and hold the button and insert the wire in the hole below the button. After releasing the button, tug gently on the wire to make certain it is connected. To disconnect a wire, press and hold the button above the wire and pull out the wire.

**AI 1 to 16 (Alarm-In):** You can use external devices to signal the DVR to react to events. Mechanical or electrical switches can be wired to the AI (Alarm-In) and GND (Ground) connectors. The threshold voltage of electrical switches for NC (Normally Closed) is above 2.4V and for NO (Normally Open) is below 0.3V, and should be stable at least 0.5 seconds to be detected. The voltage range of alarm input is from 0V to 5V.

**GND (Ground):** Connect the ground side of the Alarm input and/or alarm output to the GND connector.

**NOTE:** All the connectors marked GND are common.

**NO (Normally Open):** Connect the device to the COM and NO (Normally Open) connector. NO is a relay output which sinks 1A@30VDC.

## Factory Reset Switch



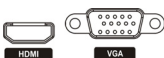
The DVR has a **Factory Reset** switch to the left of the HDMI connector on the rear panel. This switch will only be used on the rare occasions that you want to return all the settings to the original factory settings.

**CAUTION:** When using the **Factory Reset**, you will lose any settings you have saved.

To reset the unit, you will need a straightened paperclip:

1. Turn the DVR off.
2. Turn it on again.
3. While the DVR is initializing, the front panel LEDs will blink. When the front panel LEDs blink, poke the straightened paperclip into the unlabeled hole to the left of the HDMI connector.
4. Hold the switch until the DVR's internal buzzer sounds twice.
5. Release the reset switch. All of the DVR's settings are now at the original settings it had when it left the factory.

## Video Out



**NOTE:** Connect the monitor before the DVR boots so that video can be displayed on the monitor with the resolution you have set during system setup. If you want to use both the HDMI and VGA Monitor connectors, one of the monitors should be connected before the DVR boots, and the other monitor should be connected after the DVR boots.

An HDMI (High-Definition Multimedia Interface) connector is provided so that you can use an HDMI monitor as your main monitor.

A VGA connector is provided so that you can use a standard, multi-sync computer monitor as your main monitor. Use the cable supplied with your monitor to connect it to the DVR.

## Network Port



The DVR can be networked using the 10Mb/100Mb/1Gb Ethernet connector. Connect a Cat5 cable with an RJ-45 jack to the DVR connector. The DVR can be networked with a computer for remote monitoring, searching, configuration and software upgrades.

**CAUTION:** The network connector is not designed to be connected directly with cable or wire intended for outdoor use.

## RS485 Port



The DVR can be controlled remotely by an external device or control system, such as a suitable control keyboard, using RS485 half-duplex serial communications signals. The RS485 connector can also be used to control PTZ (pan, tilt, zoom) cameras. Connect RX+/TX+ and RX-/TX- of the control system to the + and – (respectively) of the DVR.

## Power Cord Connector



Connect the connector of the adaptor to the DVR, and connect the AC power cord to the adaptor and then to the wall outlet.

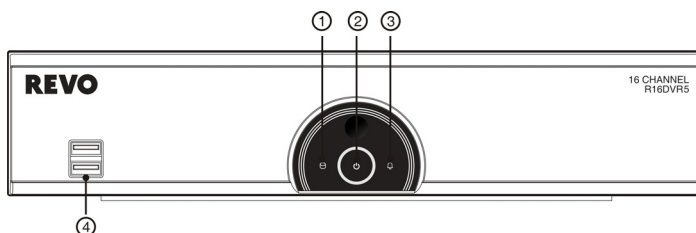


The CAMERA power connector is provided to supply power to the observation cameras. Connect the connector of the adaptor to the DVR, and connect the AC power cord to the adaptor and then to the wall outlet.

**WARNING: ROUTE POWER CORDS SO THAT THEY ARE NOT A TRIPPING HAZARD. MAKE CERTAIN THE POWER CORD WILL NOT BE PINCHED OR ABRADED BY FURNITURE. DO NOT INSTALL POWER CORDS UNDER RUGS OR CARPET. THE POWER CORD HAS A GROUNDING PIN. IF YOUR POWER OUTLET DOES NOT HAVE A GROUNDING PIN RECEPTACLE, DO NOT MODIFY THE PLUG. DO NOT OVERLOAD THE CIRCUIT BY PLUGGING TOO MANY DEVICES IN TO ONE CIRCUIT.**

# Configuration

## Front Panel Controls



< DVR front panel >

- ① HDD LED      ② Power LED      ③ Alarm LED      ④ USB Connector

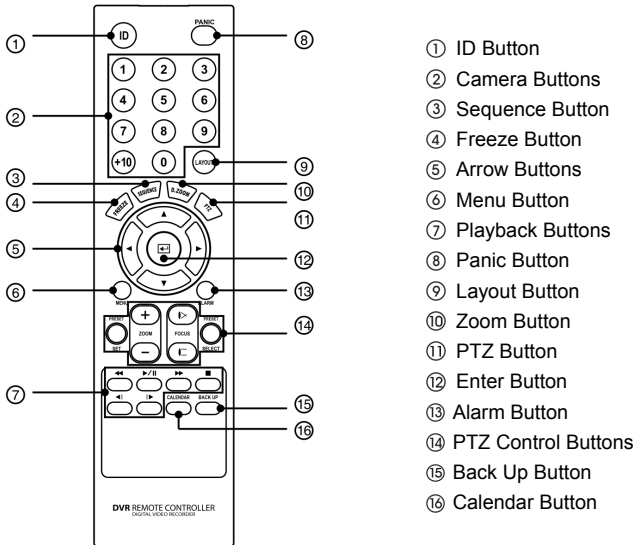
**NOTE:** The infrared sensor on the DVR is just to the top of the Power LED. Make certain that nothing blocks the sensor, or the remote control will not function properly.

When you use wireless communication devices (such as Wi-Fi or Bluetooth) near the DVR, the remote control might not function properly.

You can also use a USB mouse to navigate through the screens and menus much like you would on a computer.

HDD LED	The HDD LED flickers when the DVR is recording or searching video on the hard disk drive.
Power LED	The power LED is lit when the unit is On.
Alarm LED	The Alarm LED is lit when alarm output or internal buzzer is activated.
USB Connector	Connect the supplied USB mouse to one of the ports. The USB mouse will be used to access many of the DVR's functions. A USB flash drive can be connected for backup or system upgrades.

## IR Remote Control



ID Button	If a DVR System ID is set to 0, the infrared remote control will control that DVR without any additional operations. If the system ID is 1 to 16, you must to press the <b>ID</b> button and then press the number button (1 to 16 (+10 & 6)) in order to control that DVR. If the System ID of two or more DVRs is set to 0, those DVRs will react to the infrared remote control at the same time.
Camera Buttons	Pressing the individual camera buttons will cause the selected camera to display full screen. Buttons are also used to enter passwords.
Sequence Button	When in the Live Monitoring mode, pressing the <b>SEQUENCE</b> button displays live channels sequentially.
Freeze Button	Pressing the <b>FREEZE</b> button freezes the current live screen.
Arrow Buttons	<p>These buttons are used to navigate through menus and GUI. You can also use them to change numbers by highlighting a number in the menu and using the <b>Up</b> and <b>Down</b> arrow buttons to increase or decrease the number's value. These buttons are also used to control Pan and Tilt when in the PTZ mode.</p> <p>When in the PIP display format, pressing the <b>Up</b> and <b>Down</b> arrow buttons moves the position of the small screen counter-clockwise and clockwise.</p> <p>Pressing the <b>Left</b> and <b>Right</b> buttons moves through screen pages in the Live Monitoring mode and Search mode.</p>

Menu Button	In the Live Monitoring mode and Search mode, pressing the <b>MENU</b> button displays the menu icons on the right edge of the screen. Pressing the button again hides the menu icons. During menu setup, pressing the button closes the current menu or setup dialog box.
Playback Buttons	<p><b>Rewind:</b> Pressing the <b>◀◀</b> button plays video backward at high speed. Pressing the button again toggles the playback speed from <b>◀◀</b>, <b>◀◀◀</b> and <b>◀◀◀◀</b>.</p> <p><b>Play/Pause:</b> Pressing the <b>▶</b> button plays back video at regular speed and pressing the button again pauses video.</p> <p><b>Fast Forward:</b> Pressing the <b>▶▶</b> button plays video forward at high speed. Pressing the button again toggles the playback speed from <b>▶▶</b>, <b>▶▶▶</b> and <b>▶▶▶▶</b>.</p> <p><b>Stop:</b> Pressing the <b>■</b> button stops playback and enters the Live Monitoring mode.</p> <p><b>Backward:</b> When in the pause mode, pressing the <b>◀</b> button moves to the previous image.</p> <p><b>Forward:</b> When in the pause mode, pressing the <b>▶</b> button moves to the next image.</p> <p>In the Live Monitoring mode, pressing any playback button enters to the Search mode.</p>
Panic Button	Pressing the <b>PANIC</b> button starts panic recoding of all camera channels, and displays <b>!</b> on the screen. Pressing the button again will stop panic recording.
Layout Button	Pressing the <b>LAYOUT</b> button toggles between different display formats. The available formats are: PIP, 2x2, 1+5, 1+7, 3x3 and 4x4.
Zoom Button	Pressing the <b>ZOOM</b> button zooms the current image on the screen. A PIP with a rectangle temporarily displays showing what area of the screen has been enlarged. You can use the arrow buttons to move the rectangle to another area.
PTZ Button	Pressing the <b>PTZ</b> button enters the PTZ (Pan/Tilt/Zoom) mode which allows you to control properly configured cameras.
Enter Button	The <b>↵</b> button selects a highlighted item or completes an entry that you have made during system setup. This button is also used to enter the Cameo mode in the Live Monitoring mode or Search mode.
Alarm Button	Pressing the <b>ALARM</b> button resets the DVR's outputs including the internal buzzer during an alarm.
PTZ Control Buttons	While in the PTZ mode, the <b>PRESET</b> buttons are used to save Presets and load a Preset View, the <b>ZOOM</b> buttons are used to Zoom In and Zoom Out, and the <b>FOCUS</b> buttons are used for Near Focus and Far Focus.
Back Up Button	Pressing the <b>BACK UP</b> button allows you to copy video clips.
Calendar Button	In the search mode, pressing the <b>CALENDAR</b> button displays the Calendar Search screen.

## Turning on the Power

Connecting the power cord to the DVR turns on the unit. The unit takes approximately 50 seconds to initialize.

## Shutting down the System

Select the **System** menu → **General** → **System Shutdown** and press the **↵** button on the remote control. The Shutdown screen displays asking you to confirm whether or not you want to shut the system down. After selecting **Shutdown** in the screen and pressing the **↵** button, a screen will appear telling you when it is safe to disconnect power.

# Initial Unit Setup

Before using your DVR for the first time, you will want to establish the initial settings. This includes items such as time and date, display language, camera, remote control, record mode, network and password. Your DVR can be set up using various screens and dialog boxes.

Press the **MENU** button on the remote control or move the mouse pointer on the right edge of the screen and then select **Ⓛ** (Login) in the Live Monitoring menu to enter the setup screens. The Login screen appears.

Login

User

admin

Password

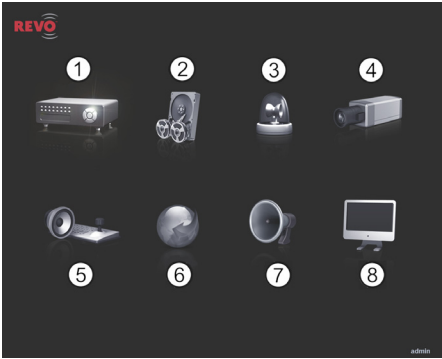
?

OK

Cancel

Select a User and enter the password by pressing the appropriate combination of Camera number buttons and then the **Ⓛ** button. There is no default password when logging in the admin user for the first time. If you do not know the password, click the **?** button for guidance.

Press the **MENU** button or move the mouse pointer on the right edge of the screen and then select **⚙** (Setup) in the Live Monitoring menu.



- Ⓛ System

Ⓜ Record

Ⓝ Event

Ⓞ Camera
- Ⓟ Device

Ⓠ Network


Ⓡ Notification

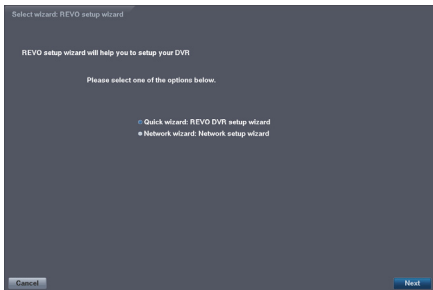
Ⓢ Display

<div>System Setup</div> <div><div>General</div><div>Date/Time</div><div>User</div><div>Storage</div><div>System Event</div></div>	<div>Record Setup</div> <div><div>General</div><div>Schedule</div><div>Pre-Event</div></div>	<div>Event Setup</div> <div><div>Motion</div><div>Alarm-In</div><div>Video Loss</div><div>Video Blind</div><div>Text-In</div></div>	<div>Camera Setup</div> <div><div>General</div><div>PTZ</div></div>
<div>Device Setup</div> <div><div>Alarm-Out</div></div>	<div>Network Setup</div> <div><div>General</div><div>LAN</div><div>Connection</div><div>RTSP</div><div>REVO Remote</div></div>	<div>Notification Setup</div> <div><div>Callback</div><div>Push</div><div>Mail</div><div>SNS</div><div>Schedule</div></div>	<div>Display Setup</div> <div><div>OSD</div><div>Main Monitor</div></div>

**NOTE:** For detailed descriptions of the system setup, refer to the User's Manual on the software CD.

## Setup Wizard

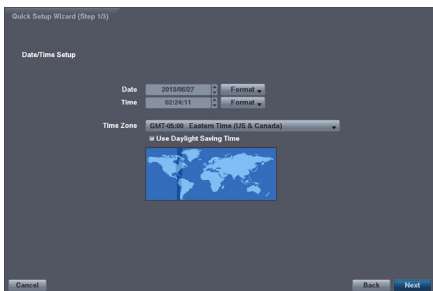
Select the **System** menu → **General** → **Wizard** and press the  button. The Wizard setup screen appears. The Wizard setup guides you through configuring the system for basic operation.



Select either **Quick wizard** or **Network wizard** and select the **Next** button to start the selected setup wizard.

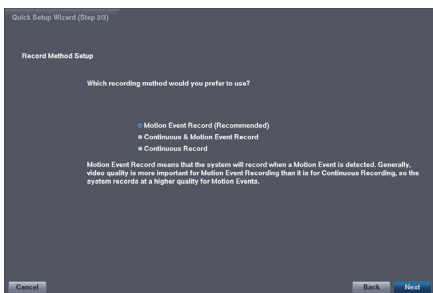


If you selected the **Quick wizard**, selecting the **Next** button starts the Quick Setup Wizard.



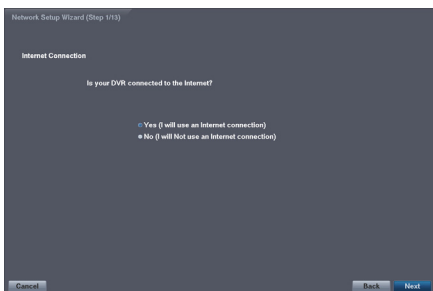
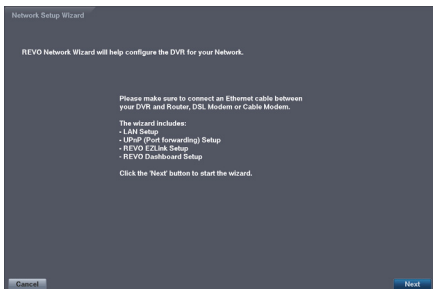
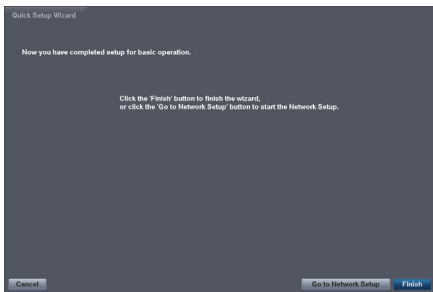
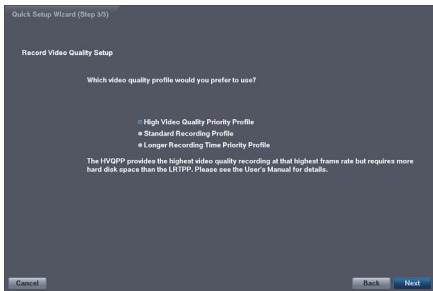
### Date/Time Setup

- **Date:** Set the system date and select the date format.
- **Time:** Set the system time and select the time format.
- **Time Zone:** Select your time zone. The Time Zone can be selected on the map.
- **Use Daylight Saving Time:** Selecting the box sets the system to use daylight saving time.



### Record Method Setup

- Select the desired recording mode from:
  - Motion Event Record (Recommended)
  - Continuous & Motion Event Record
  - Continuous Record



## Record Video Quality Setup

- Select the desired video quality profile from:
  - Higher Video Quality Priority Profile
  - Standard Recording Profile
  - Longer Recording Time Priority Profile

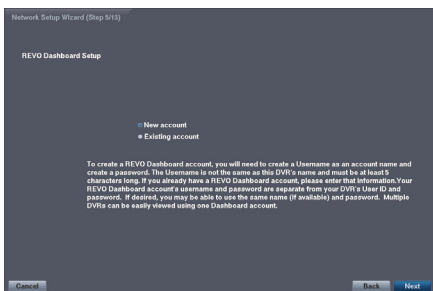
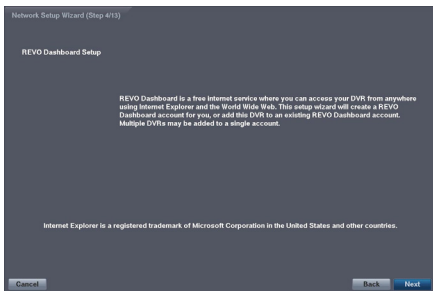
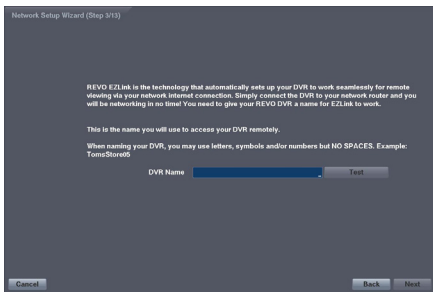
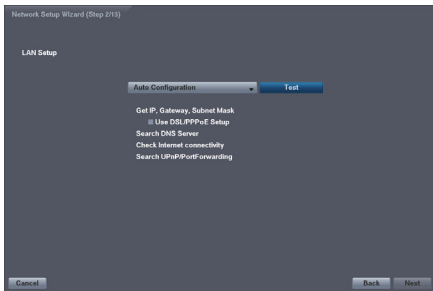
Select the Finish button to finish the Quick Setup Wizard and select the Go to Network Setup button to start the Network Setup.

If you selected the Go to Network Setup, select the Next button to start the Network Setup Wizard.

## Internet Connection

Select whether or not your DVR is connected to the Internet.





## LAN Setup

Select between Auto Configuration and Manual Configuration for network configuration, and then select the Test button to test the network configuration you selected.

- **Use DSL/PPPoE Setup:** Selecting the box allows you to set up the DSL network. Entering the ID and password for DSL connection is required.

## EZLink Setup

- **DVR Name:** Enter the DVR name to be registered on the DVRNS (DVR Name Service) server. The DVR Name you entered should be checked by selecting Test, otherwise the EZLink changes will not be saved.

## REVO Dashboard Setup I

Select the Next button to start the Dashboard Setup.

## REVO Dashboard Setup II

Select **New account** if you want to create a new Dashboard account, and select **Existing account** if you want to use your existing Dashboard account.

Network Setup Wizard (Step 6/13)

REVO Dashboard Setup <http://dashboard.revamerica.com>

User ID

New Password

Confirm

DVR Name

[Register/Add a new DVR](#)

[Cancel](#) [Back](#) [Next](#)

Network Setup Wizard (Step 7/13) REMOTE CONNECTIVITY

REVO Mobile

REVO DVRs are compatible with Android and iOS platforms.


For more information visit REVO AMERICA website:  
<http://www.revamerica.com/Support/Mobile/Viewing/tabid/134/Default.aspx>

Please follow the below instructions to install the REVO Mobile app on your Smartphone or tablet:

[Cancel](#) [Back](#) [Next](#)


Network Setup Wizard (Step 8/13) Remote Connectivity

Android Platform: Go to the Google Play Store



The REVO Mobile icon will appear on your mobile device screen.

Type REVO Mobile in the search box. Click install to download the app.



Tap the icon to load the app

1. Enter a description for your DVR. If distinct, this can be different from your DVR's name or IP address
2. Click "Use DVRMS" unless you are connecting to your DVR directly via its IP address
3. Enter your DVR's DVRMS name or its IP address
4. Enter your DVR's User ID. (admin in the factory default)
5. Enter your DVR's password. (There is no password by default.)

[Cancel](#) [Back](#) [Next](#)

Network Setup Wizard

You have now completed your network setup and created your REVO Dashboard account and/or added this DVR to an existing account!

FOR A NEW ACCOUNT, please make sure to visit us at <http://dashboard.revamerica.com> to complete activation of your new REVO Dashboard account. Once activated, you will be able to access your DVR(s) anytime/anywhere using the Internet. Internet Explorer must be used for remote viewing.

Click Finish to complete the setup wizard

[Cancel](#) [Finish](#)


## REVO Dashboard Setup III

Enter the User ID and Password for your Dashboard account. And then register the DVR you want to access by entering the DVR name and selecting the **Register/Add a new DVR** button.

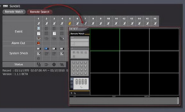
## REVO Mobile

Select the **Next** button to see the instructions to install the REVO Mobile app on your Smartphone or tablet.

Network Setup Wizard (Step 13/13) Remote Connectivity



Enter your username and password. Click "login" to access the Dashboard account.



Click "Remote Watch" to monitor live cameras. Click "Remote Search" to search any recorded video for past events.

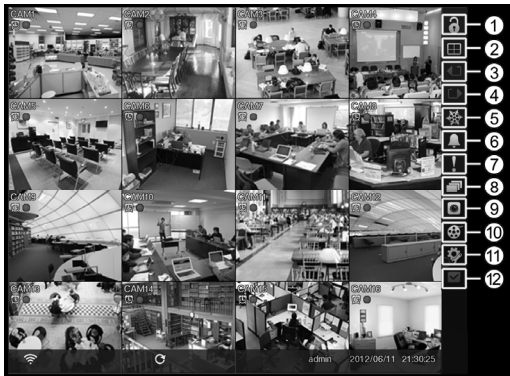
[Cancel](#) [Back](#) [Next](#)

Select the **Finish** button to finish the Setup Wizard.

# Operation





## Live Monitoring

While in the live monitoring mode, pressing the **MENU** button displays the following Live Monitoring menu on the right edge of the screen. Pressing the **MENU** button again hides the menu. You can navigate through menus and items by pressing the arrow buttons.



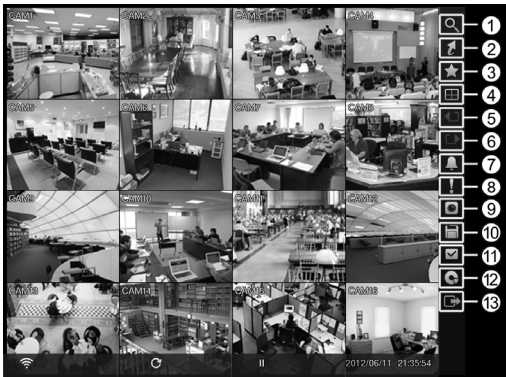
- ① Login/Logout
- ② Display
- ③ Previous Group
- ④ Next Group
- ⑤ Freeze
- ⑥ Alarm
- ⑦ Panic
- ⑧ Sequence
- ⑨ Camera Menu
- ⑩ Search
- ⑪ Setup
- ⑫ Status

<b>Login/Logout</b>	Selecting ⑥ accesses the Login screen, and you will be asked to select a User and enter the password to log into the system. Selecting ⑧ displays the Logout screen asking you to confirm whether or not you want to log out the current user.
<b>Display</b>	Selecting ② displays the Display Menu. <ul style="list-style-type: none"><li>• Full Screen: Selecting ② and choosing the camera number button displays the selected camera full screen.</li><li>• PIP, 2x2, 1+5, 1+7, 3x3, 4x4: Selecting ②, ③, ④, ⑤, ⑥ or ⑦ displays the cameras in the selected multiview screen mode.</li><li>• Camera/Status OSD: Selecting Camera OSD or Status OSD toggles Camera OSD or Status OSD On and Off.</li></ul>
<b>Previous/Next Group</b>	Selecting ③ or ④ moves to the previous or next page.
<b>Freeze</b>	Selecting ⑤ will freeze the current image on the screen until you select ⑤ again.
<b>Alarm</b>	Selecting ⑥ resets the DVR's outputs including the internal buzzer during an alarm.
<b>Panic</b>	Selecting ⑦ starts panic recording of all cameras, and selecting ⑦ again stops panic recording.
<b>Sequence</b>	Selecting ⑧ causes the cameras to display sequentially, and selecting ⑧ again exits the Sequence mode.




<b>Camera Menu</b>	<p>Selecting  displays the Camera Menu.</p> <ul style="list-style-type: none"> <li>• <b>PTZ:</b> Selecting PTZ and choosing the camera number allows you to control the selected camera as long as it has Pan, Tilt and Zoom capabilities.</li> <li>• <b>Zoom:</b> Selecting Zoom and choosing the camera number zooms the current image of the selected camera on the screen.</li> <li>• <b>Audio:</b> Selecting Audio toggles audio output On and Off.</li> <li>• <b>Color Control:</b> Selecting Color Control and choosing the camera number allows you to control brightness, contrast, hue and saturation for each camera for the selected camera.</li> <li>• <b>Edit Group:</b> Selecting Edit Group enters to the Active Cameo mode.</li> </ul>
<b>Search</b>	Selecting  exits the live monitoring mode and enters the search mode.
<b>Setup</b>	Selecting  enters the Main Setup screen.
<b>Status</b>	Selecting  will allow you to check the status of the DVR's system, inputs and storage.



















## Searching Video

While in the search mode, pressing the **MENU** button displays the following Search menu on the right edge of the screen. Pressing the **MENU** button again hides the menu. You can navigate through menus and items by pressing the arrow buttons.



- ① Search
- ② Go To
- ③ Bookmark
- ④ Display
- ⑤ Previous Group
- ⑥ Next Group
- ⑦ Alarm
- ⑧ Panic
- ⑨ Camera Menu
- ⑩ Export
- ⑪ Status
- ⑫ Data Source
- ⑬ Exit

<b>Search</b>	<p>Selecting  displays the Search menu.</p> <ul style="list-style-type: none"> <li>• <b>Event Log Search:</b> Selecting Event Log Search selects video from the event log.</li> <li>• <b>Record Table Search:</b> Selecting Record Table Search selects using a recording table.</li> <li>• <b>Motion Search:</b> Selecting Motion Search selects motion events.</li> <li>• <b>Text-In Search:</b> Selecting Text-In Search selects text input strings.</li> </ul>
<b>Go To</b>	<p>Selecting  displays the Go to menu.</p> <ul style="list-style-type: none"> <li>• <b>Go to the First:</b> Selecting Go to the First displays the first recorded image.</li> <li>• <b>Go to the Last:</b> Selecting Go to the Last displays the last recorded image.</li> <li>• <b>Go to the Date/Time:</b> Selecting Go to the Date/Time allows you to set the date and time you want to search for video.</li> </ul>
<b>Bookmark</b>	Selecting  adds the current playback point to the bookmark list.

<b>Display</b>	<p>Selecting  displays the Display Menu.</p> <ul style="list-style-type: none"> <li>• <b>Full Screen:</b> Selecting  and choosing the camera number button displays the selected camera full screen.</li> <li>• <b>2x2, 1+5, 1+7, 3x3, 4x4:</b> Selecting , , ,  or  displays the cameras in the selected multiview screen mode.</li> <li>• <b>Camera/Status OSD:</b> Selecting <b>Camera OSD</b> or <b>Status OSD</b> toggles Camera OSD or Status OSD On and Off.</li> </ul>
<b>Previous/Next Group</b>	Selecting  or  moves to the previous or next page.
<b>Alarm</b>	Selecting  resets the DVR's outputs including the internal buzzer during an alarm.
<b>Panic</b>	Selecting  starts panic recording of all cameras, and selecting  again stops panic recording.
<b>Camera Menu</b>	<p>Selecting  displays the Camera Menu.</p> <ul style="list-style-type: none"> <li>• <b>Zoom:</b> Selecting <b>Zoom</b> and choosing the camera number zooms the current playback image of the selected camera on the screen.</li> <li>• <b>Audio:</b> Selecting <b>Audio</b> toggles audio playback On and Off.</li> <li>• <b>Show/Hide Text-In:</b> Selecting <b>Show Text-In</b> or <b>Hide Text-In</b> shows or hides the text-in data on the screen if the video was recorded with text-in data.</li> <li>• <b>Edit Group:</b> Selecting <b>Edit Group</b> enters to the Active Cameo mode.</li> </ul>
<b>Export</b>	<p>Selecting  displays the Export menu.</p> <ul style="list-style-type: none"> <li>• <b>A-B Backup:</b> Selecting <b>A-B Backup</b> will set the starting point of the video to be clip copied, and the  icon displays at the bottom-left corner of the screen. Selecting <b>A-B Backup</b> again will set the ending point of the video to be clip copied and displays the Clip-Copy screen.</li> <li>• <b>Backup:</b> Select <b>Backup</b>, and the <b>Backup</b> screen appears to allow clip copy setup.</li> </ul>
<b>Status</b>	Selecting  will allow you to check the status of the DVR's system, inputs and storage.
<b>Data Source</b>	Selecting  allows you to select the data source to be searched.
<b>Exit</b>	Selecting  exits the search mode and enters the live monitoring mode.

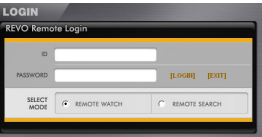
# Remote Program

## REVO Remote

REVO Remote allows you to access a remote DVR, monitor live video images and search recorded video using Internet Explorer web browser anytime from virtually anywhere.

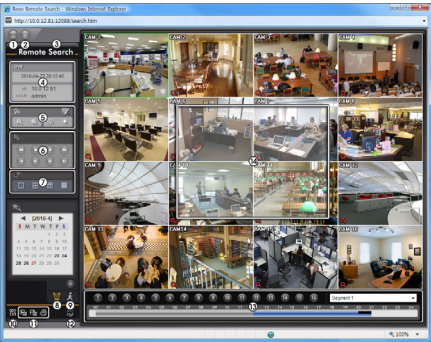
Start Internet Explorer on your local PC. You can run the REVO Remote program by entering the following information in the address field.

- “http://IP address:port number” (The DVR IP address and the REVO Remote port number (default: 12088) set in the Network setup screen (REVO Remote tab))
- Or, “http://www.revodvr.com/DVR name” (The DVR name registered on the DVRNS server)

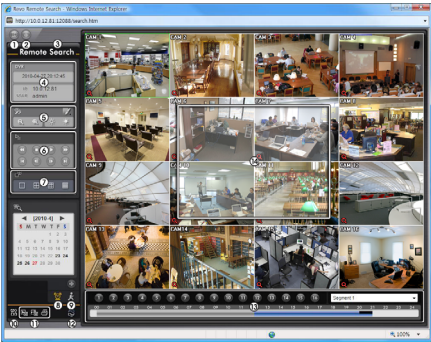


Select between the **REMOTE WATCH** (Web monitoring) and **REMOTE SEARCH** (Web search) modes. Entering ID and PASSWORD and clicking the [LOGIN] button logs in using the selected mode.

You will need to enter the DVR IP address in the DVR ADDRESS field when running the REVO Remote program by entering <http://www.revodvr.com>. Selecting the Use DVRNS option allows you to enter the DVR name registered on the DVRNS server instead of the IP address. You must enter the DVRNS server address and port number in the SETUP setting when selecting the Use DVRNS option.



Web Monitoring



Web Search

**NOTE:** For detailed instructions on operating the REVO Remote program, refer to the User's Manual on the software CD.

## REVO Remote Pro

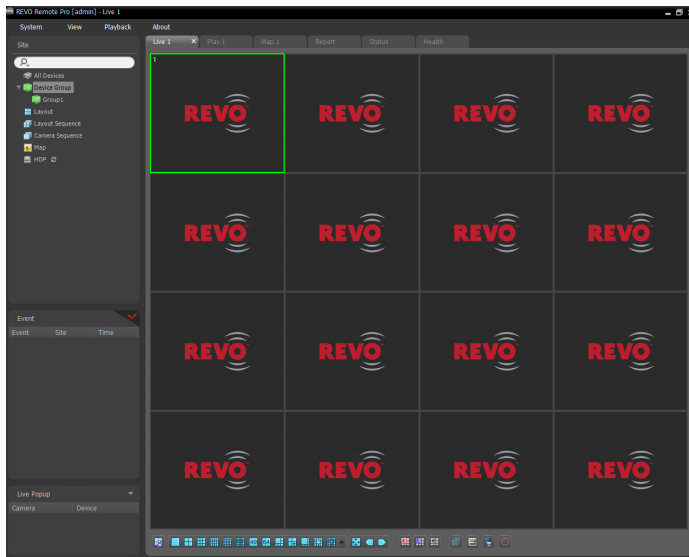
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REVO Remote Pro program, which is designed to be used with remote digital video recorder, is an integrated software program that controls system management, video monitoring, video recording and image playback of multiple remote sites.

**CAUTION:** If an older version of REVO Remote Pro software is installed on your computer, a screen appears asking you to upgrade the software. In this case, you are required to upgrade the software according to the instructions in the screen.

Insert the installation CD and install the REVO Remote Pro software following the instructions.

After installing the REVO Remote Pro software, run the REVO Remote Pro program as follows: Go to the Start menu on the PC → Click REVO Remote Pro → Enter login information.




**NOTE:** For detailed instructions on operating the REVO Remote Pro program, refer to the User's Manual on the software CD.

REVO Mobile allows you to access remote sites and monitor live video using mobile devices anytime from virtually anywhere.

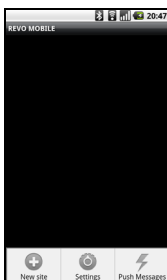
**CAUTION: This program uses large amounts of data and you are responsible for all data charges. Please contact your service provider's customer service to confirm or add an unlimited data plan.**

### Android-based mobile devices

1. Run the  Play Store (Google Play) application in the device.
2. Enter REVO Mobile in the search field of the Play Store (Google Play) application.
3. Install the REVO Mobile program and run the program.



4. Run the REVO Mobile program. Push the Menu button of the device and the following default menu is displayed.



- New site: Tap to register DVRs.
- Delete site: Tap to delete a DVR. This menu will be available only when there are DVRs registered.
- Settings: Tap to edit the settings or check the information about the REVO Mobile program.
- Push Messages: Tap to display the Push messages.

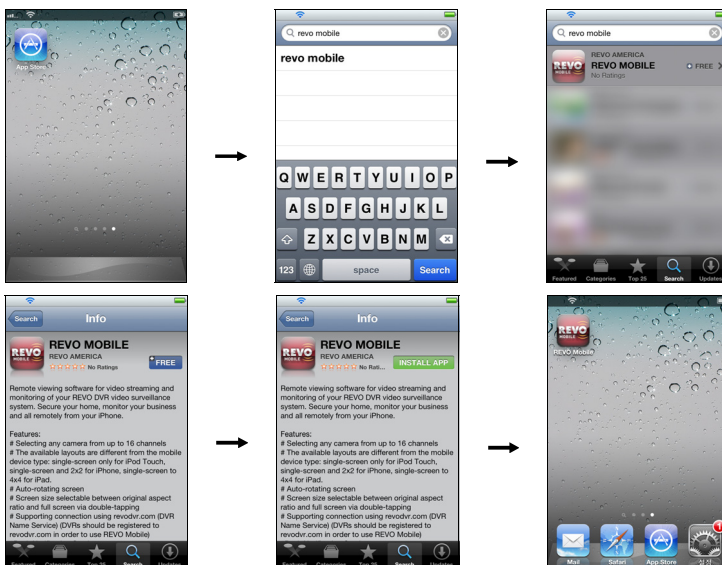
5. Tap the New site button and enter the DVR information to register the DVR.



- **Description:** Enter the DVR name to use in the REVO Mobile program.
- **Use DVRNS:** If the DVR uses the EZLink function, enable the Use DVRNS option. You can set up the information for the DVRNS server by tapping the Settings button in the default menu.
- **Address, Watch Port, Search Port, Audio Port:** Enter the IP address and port number of the DVR. If the DVR uses the EZLink function, check that the Use DVRNS option is enabled and enter the DVR name registered on the DVRNS server instead of the IP address. The name you enter should match the name set during the EZLink setup on the DVR.
- **User ID, Password:** Enter the user ID and password. The user ID and password you enter should match the user ID and password used to log on to the DVR.

## iOS-based mobile devices

1. Run the App Store application in the device.
2. Enter REVO Mobile in the search field of the App Store application.
3. Install the REVO Mobile program and run the program.



4. Tap the + button and enter the DVR information to register the DVR.

- **General:** Enter the DVR name to use in the REVO Mobile program.
- **Connection Info:** Enter the IP address and port number of the DVR. If the DVR uses the EZLink function, enable the DVRNS option and enter the DVR name registered on the DVRNS server instead of the IP address. The name you enter should match the name set during the EZLink setup on the DVR.
- **Login Info:** Enter the user ID and password set on the DVR. The user ID and password you enter should match the user ID and password used to log on to the DVR.