

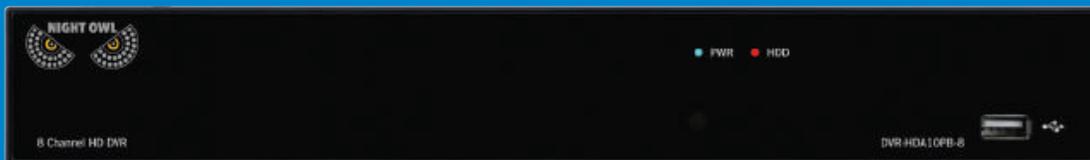
NIGHT OWL



USERS MANUAL

HDA SERIES

8/16 CHANNEL



www.NightOwlSP.com



Thank you for choosing Night Owl Security Products!

By purchasing a Night Owl product, you receive a one (1) year warranty covering manufacturing defects in material and workmanship. Make the most of your warranty by completing the registration form online. In addition to warranty and technical support benefits, you will have access to our multitude of free instructional “How to Videos”. You can also view our instructional videos by clicking the “How to Videos” tab within your product’s page on our website.



Register at www.NightOwlSP.com!

Night Owl’s HDA Series Camera Compatibility:

Night Owl’s HD Analog DVRs are compatible with most analog cameras (400-900TVL), Night Owl’s Analog HD (AHD), and HD Analog (HDA) cameras. If the camera’s video quality either day or night is degraded, you may need to change the cable run from the camera to the DVR. This system is designed to work with 24 AWG cabling or better.

Please see the warranty section of this manual for exclusions and additional details. Not all features and capabilities are shared across all models so you may see features which are not applicable. In addition you may see screen images that do not exactly match those on your display. This manual was accurate at the time it was completed. Due to our ongoing effort to constantly improve our products, functions may have been added or changed.

Night Owl highly recommends installing the most current firmware version available for your system. Verify your firmware version (V7.1.0-20160624) on the Info screen of the System menu tab.

Scan or click the QR codes below to access our instructional videos that can assist you in configuring your Night Owl Security system.

**DVR
CONNECTIVITY**



<http://nightowlsp.com/dvr-qsg>

**STARTUP
WIZARD**



<http://nightowlsp.com/startup-wizard-qsg>

**MOBILE APP
SETUP**



<http://nightowlsp.com/mobile-app-qsg>

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SUPPORT VIDEOS

For your reference, we have created an instructional video that explains the menu structure and functionality of your Night Owl recorder in detail. Click on the icon at any time to view Night Owl's instructional videos at www.youtube.com/user/NightOwlISP



ADVANCED

Night Owl's DVRs are manufactured for quality and ease of use. As such, our DVRs contain menus designed for advanced users that should not be adjusted without having enhanced knowledge regarding the menu. In most cases the default settings allow for optimal functionality. The menus that should maintain the default settings are indicated with this icon.

CHAPTER 1

FCC WARNINGS



SUPPORT VIDEOS

Chapter 1: FCC Warnings

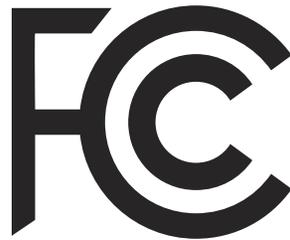
FCC

This equipment has been tested and found to comply within limits for Class B digital devices pursuant to Part 15 of Federal Communication Commission (FCC) rules.

FCC Compliance Statement

These limits are designed to provide reasonable protection against frequency interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed or used accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in television reception, which can be determined by turning the equipment off and on. The user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected



CAUTION

The Federal Communications Commission warns the user that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CHAPTER 2

SAFETY INSTRUCTIONS



SUPPORT VIDEOS

Chapter 2: Safety Instructions

Use the provided power adapter.

Do not use this product with a power source that applies more than the specified voltage

Never insert metal into the DVR case or its openings. Inserting metal into the DVR case may cause electric shock.

Do not operate in wet or dusty areas.

Avoid placing the DVR in areas such as a damp basement or dusty attic.

Do not expose the DVR to rain or use near water. If the DVR accidentally gets wet, unplug it and contact technical support immediately.

Keep product surfaces clean and dry.

To clean the outside case of the DVR, use a lightly dampened cloth. Do not use cleaning solutions or solvents.

Do not install near any heat sources.

Do not install the DVR near any heat sources such as stoves, heat registers, radiators, or electronics (including amplifiers) that produce heat.

Unplug the DVR when moving it.

Make sure that the DVR is unplugged before you move it. When moving this device, be sure to handle it with care.

Make sure there is good air circulation around the DVR.

This DVR uses an internal hard drive, which generates heat during operation for video storage. Do not block vents on the DVR, as these vents disperse the generated heat while the system is running. Place this product in well-ventilated area.

Do not attempt to remove the top cover.

If you observe any abnormal operation, unplug the DVR immediately and contact technical support. Do not attempt to open the DVR to diagnose the cause of the problem.

Handle the DVR carefully.

If you drop the DVR, it may damage the device. If the DVR doesn't work properly due to physical damage, contact an authorized dealer for repair.

It is recommended to use your DVR with an uninterruptible power supply (UPS).

Connecting your DVR and cameras to a UPS allows continuous operation even during power outages. The run-time duration will depend on the rating of the UPS used.



You may be subjected to severe electrical shock if you remove the cover of the DVR.

CHAPTER 3

SPECIFICATIONS



SUPPORT VIDEOS

Chapter 3: Specifications

3.1 System Requirements

Please be sure that your PC/MAC complies with the following specifications

- PC Operating System: Windows® 7, Windows® 8/8.1, and Windows® 10
- PC Browser: IE® 8 and above, Edge®, Google Chrome™ and Firefox®
- MAC Operating System: MAC OS X® 10.7 and above
- MAC Browser: Safari® 7.1 and above

Please be sure that your mobile device complies with the following specifications:

- Android™: 4.0 and above
- iOS®: 7.1 and above

3.2 Package Contents

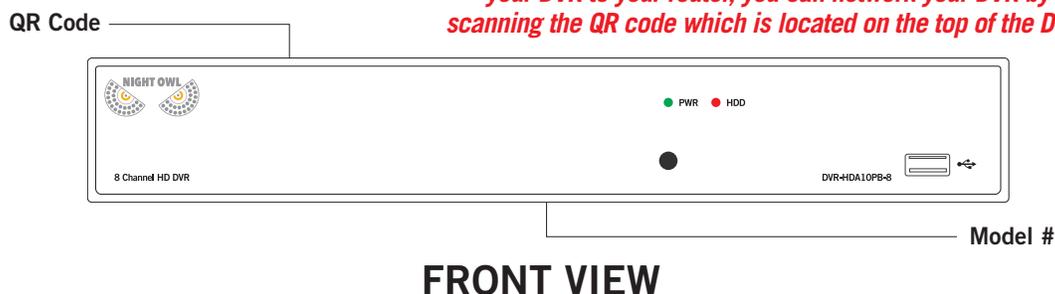
- 1 x HDA DVR
- Indoor/Outdoor Cameras*
- Bundles of Camera Cable*
- Mounting Hardware and Screws*
- HDMI Cable
- 1 x RJ-45 Cable (Ethernet)
- 1 x USB Mouse
- 1 x Remote Control (Includes Batteries)
- 1 x Software CD
- 1 x Support Material Packet
- 1 x Camera Power Adapter*
- 1 x DC 12V DVR Power Adapter
- Camera Power Splitters*
- 3 x Night Owl Security Stickers

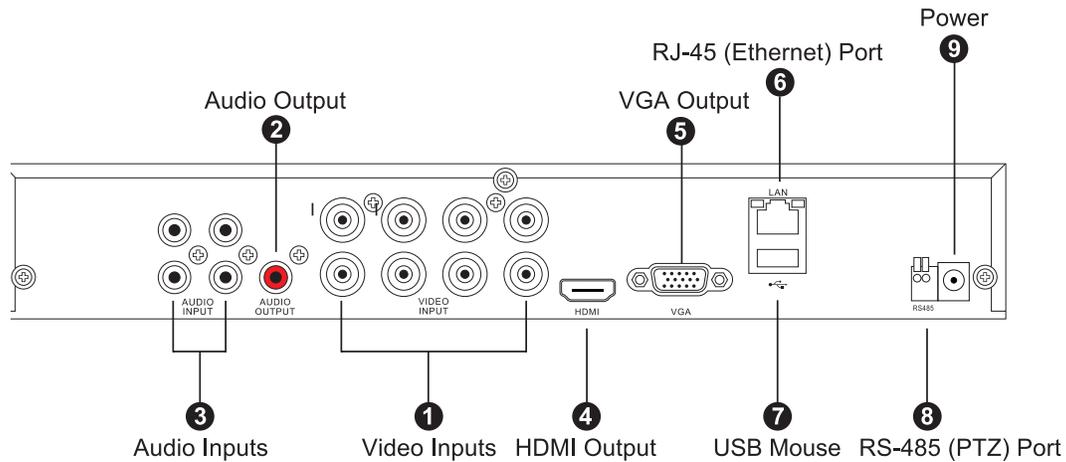


* Cameras, additional cables, power adapters, mounting hardware and splitters only included in certain security kits. Check the product packaging for detailed kit contents.

3.2.1 DVR Diagram

Once you have downloaded Night Owl HD and connected your DVR to your router, you can network your DVR by scanning the QR code which is located on the top of the DVR.



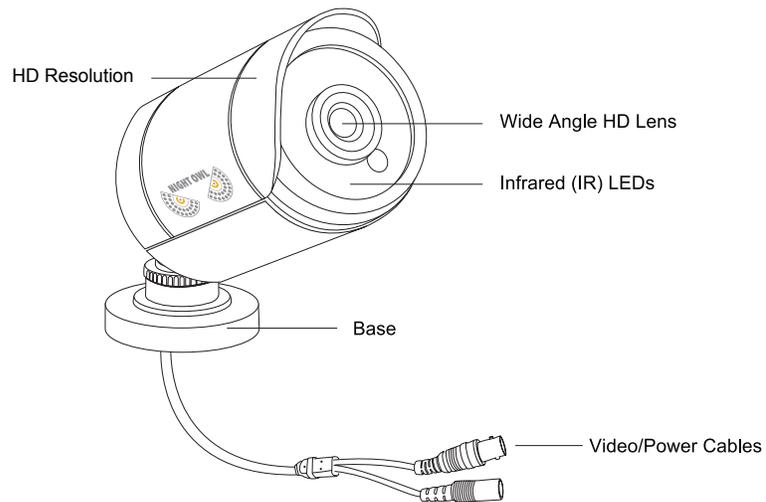


REAR VIEW

*Images used are for reference only. Your product may vary slightly.
An 8 channel model is displayed above.*

1. **Video Inputs** – video inputs allow for the connection of BNC cameras.
2. **Audio Output** – audio output allows for the connection of an amplified speaker.
3. **Audio Inputs** – audio inputs allow for the connection of audio-enabled cameras by connecting the white RCA plug to one of the audio inputs. After making the audio input connection, be sure to enable the audio function in the DVR’s menu. Please ensure the audio input port number directly corresponds to the channel port number. For example, audio input port 1 provides audio to channel port 1.
4. **HDMI Output** – HDMI output allows for the video connection. If the TV / Monitor has an HDMI input, connect the HDMI cable from the HDMI output port on the DVR to the HDMI input port on your TV / Monitor.
5. **VGA Output** – VGA output also allows for video connection. While HDMI provides a higher quality video, you may connect a VGA cable from the VGA output port on the DVR to the VGA input port on your TV / Monitor if your TV / Monitor does not have an HDMI port.
6. **RJ-45 (Ethernet) Port** – RJ-45 port will be used to connect the DVR to your router/modem via the included Ethernet cable. Keep in mind, you can quickly network your DVR to begin viewing your cameras remotely right from your mobile device by completing the DVR’s Startup Wizard once you have connected the DVR to your router and powered on the DVR.
7. **USB Ports** – USB ports allow for the connections of a USB mouse and / or a USB flash drive. You will connect the included USB mouse to assist you in navigating the DVRs menu interface. You will connect a USB flash drive to download video files from the DVR and save them to your USB flash drive.
8. **RS-485 (PTZ) Port** – RS-485 port allows for the connection of a Pan-Tilt-Zoom camera.
9. **Power Input** – power input to connect the included 12V DC power supply.

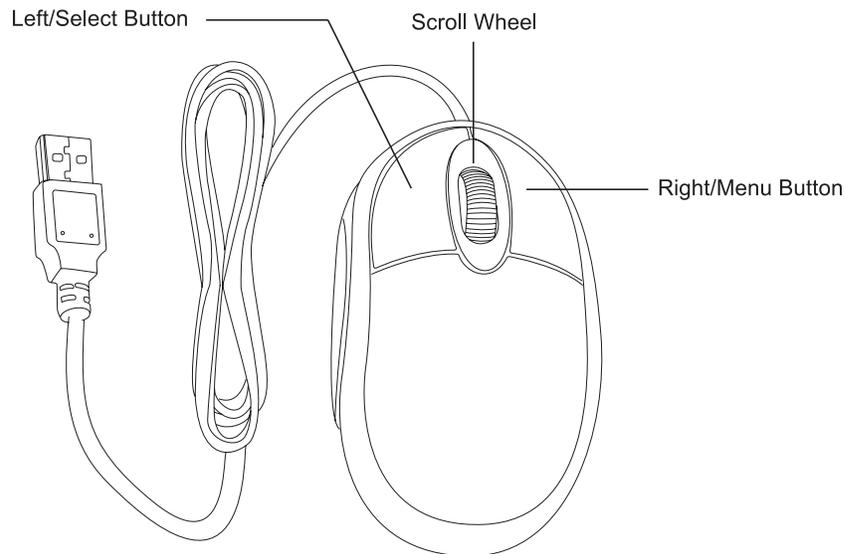
3.2.2 Camera Diagram



CAMERA

NOTE: To ensure all the cameras are functioning properly, please test each one before installing them. To test: attach the camera side of a BNC cable to each camera while the DVR side is connected to the DVR and camera power adapter.

3.2.3 Mouse and Remote Diagram



MOUSE

Live Viewing:

Double-click the left button on any camera view in split-screen mode to bring it to full screen display.

Double-click again to return to split-screen mode.

Right-click to show the control bar at the bottom of the screen.

Right-clicking again will hide the control bar.

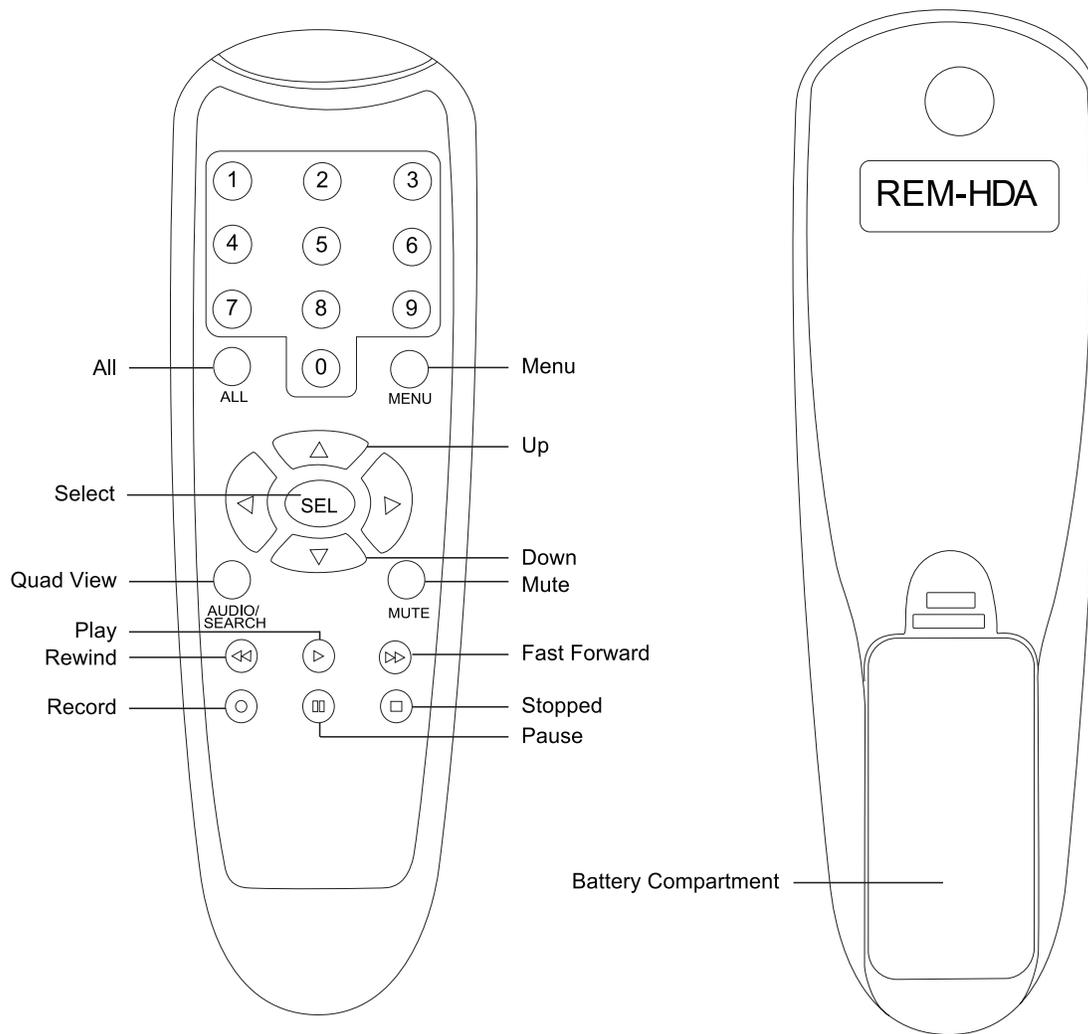
In Setup:

Left-click to make a selection.

Right-click to cancel setup or return to previous screen.

To Enter Values:

Move the cursor to a blank field and click the mouse. A virtual keyboard will appear which supports numbers, letters and symbols. The Shift function will access symbols in addition to upper case letters.



REMOTE

CHAPTER 4

CAMERA INSTALLATION



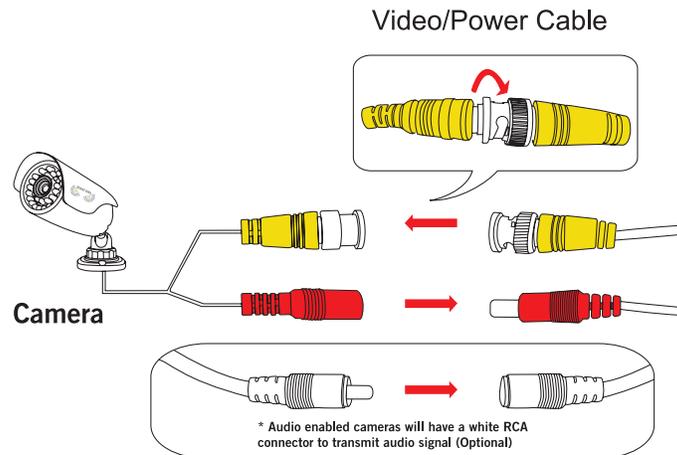
SUPPORT VIDEOS

Chapter 4: Camera Installation

4.1 Video/Audio

NOTE: To ensure all the cameras are functioning properly, please test each one before installing them. To test: attach the camera side of a BNC cable to each camera while the DVR side is connected to the DVR and camera power adapter.

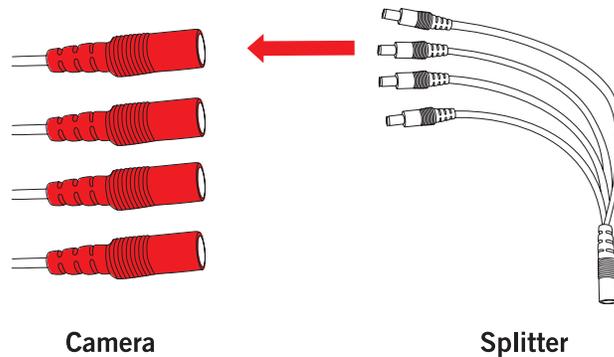
1. Locate an included 60 ft. camera cable.
2. Connect a camera to one end of the cable by matching the BNC connectors (yellow) and DC power connectors (red).
3. Audio enabled cameras will have an additional (white) RCA connection which will transmit the audio signal and will connect to an audio input port on the back of your DVR.



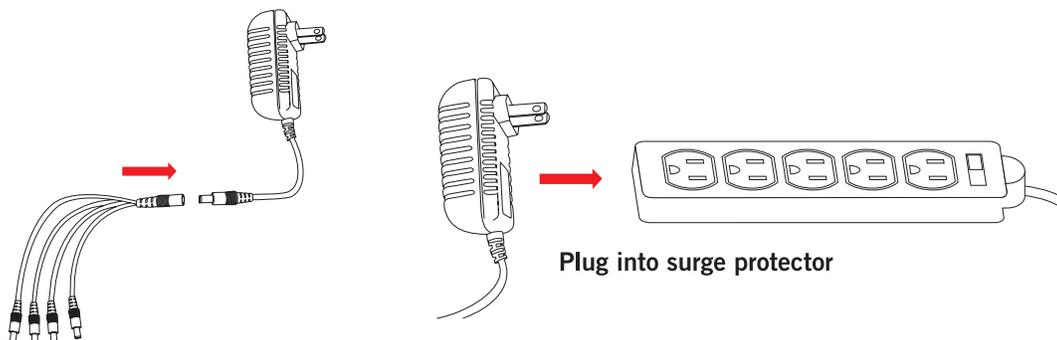
4. Plug BNC connectors on the other end of the cable into a Video input port on the back panel of the DVR.
5. Repeat for each camera, noting the channel number each camera is plugged into.

4.2 Power

1. Locate the included power splitter.
2. Connect the power splitter to the remaining DC power connectors (red) of the cables.



3. Plug the power splitter into the labeled camera power supply, then plug the camera power supply into an available wall outlet or UPS. Keep in mind, Night Owl always recommends utilizing a surge protector to minimize the risk of damage caused to your DVR in the event of a power surge.



*** Cameras, additional cables, power adapters and splitters only included in certain security kits. Check the product packaging for detailed kit contents.**

Make sure all cameras are working prior to mounting by connecting them as described in the section above. Once all cameras are confirmed to be fully operational, you can run the cables and mount the cameras to their final locations.

4.3 Mounting the Cameras

Camera distance from DVR.

The further the camera is from the DVR or monitor, the higher the chances of signal degradation. The camera's power supply should be located as near to the camera as possible when the distance exceeds 200 ft. as the power level will drop over extended distances resulting in video degradation.



Connect all cameras locally before final placement to ensure that all components function properly.

Do not place near high voltage wires or other sources of electrical interference.

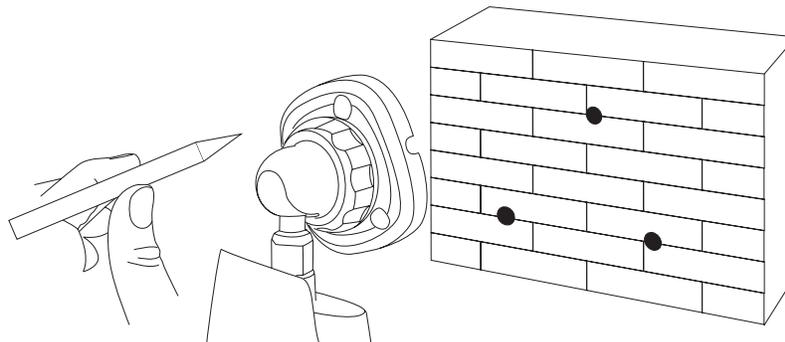
Electrical interference will degrade the quality of the signal.

Place camera out of reach to avoid vandalism.

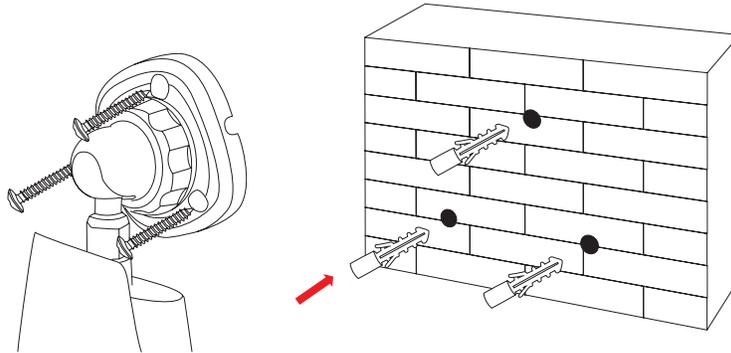
Avoid direct exposure to weather. Do not place the camera where rain or snow will hit the lens directly. Additionally, do not place the camera where the sun or bright lights will shine directly into the lens. Your camera is weatherproof, but it will not work when submerged in water. Ensure that all power and video connections are not directly exposed to water and are protected from the elements.

Mounting surface. The mounting surface must hold at least four times the camera's total weight.

1. Locate a camera and choose a location where you would like to mount the camera.
2. Mark the screw positions by using a pencil or pen.



3. Using a drill bit slightly smaller than the included screw anchors, drill into the mounting surface using the guide marks you placed in the previous step.
4. Insert the screw anchors.
5. Line up the camera base holes with the screw anchors. Holding the base in place, insert screws and tighten until secure.



6. Once the base is screwed in place, make sure that the camera is securely mounted by placing gentle pressure on the mount.
7. Adjust the camera housing to point in the direction of the area you would like to monitor.



Don't feel like installing the system yourself? Let InstallerNet™ do the work for you! Contact us at 1-800-806-5513 or visit us at www.NightOwISP.com.

CHAPTER 5

DVR INSTALLATION



SUPPORT VIDEOS

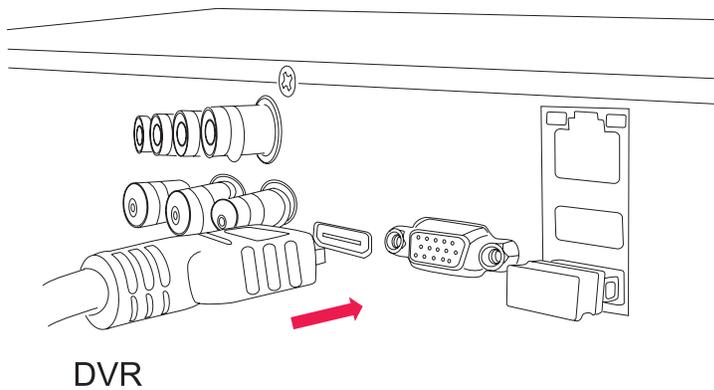
Chapter 5: DVR Installation

5.1 Connecting to a TV (via HDMI)

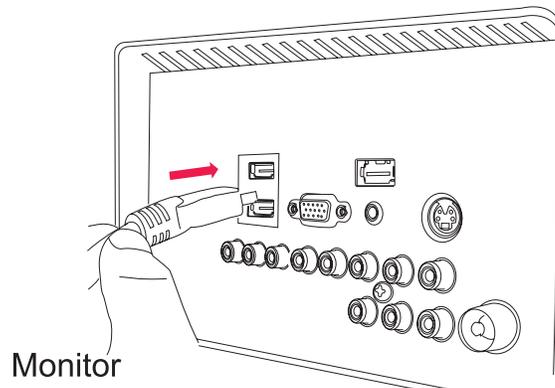
1. Locate the included HDMI cable.



2. Plug one end of the cable into the HDMI port on the back of the DVR.



3. Connect the other end of the cable to an available HDMI input on your TV or monitor.



4. Select the appropriate video input channel on your TV or monitor to view the DVR.

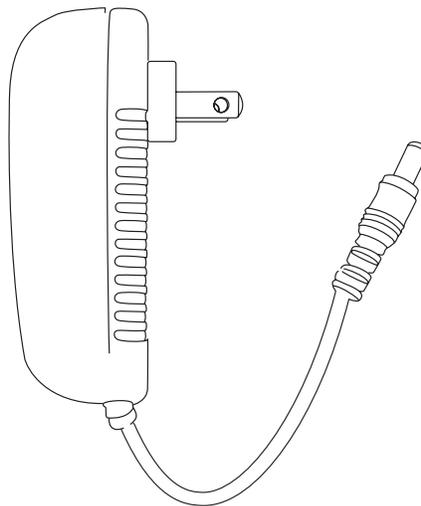


If your TV does not have an HDMI port, you will need to purchase a VGA cable.

For a VGA connection, attach one end of the VGA cable to the DVR VGA port and the other end to your TV VGA port.

5.2 Power

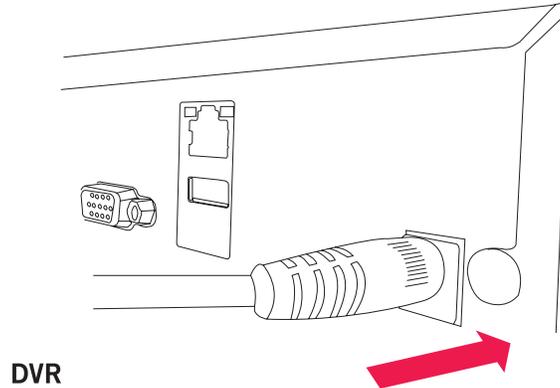
1. Locate the labeled DVR power adapter; **the camera power adapter and DVR power adapter should never be interchanged.**



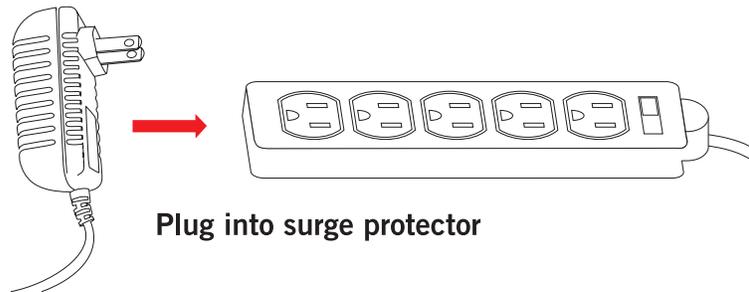
DVR Power Adapter

DVR power adapter may vary slightly.

2. Plug the DVR power adapter into the power input on the rear of the DVR.



3. Plug the other end of the DVR power adapter cable into an available wall outlet. If you are using an uninterruptible power supply (UPS), plug the adapter cable into one of its output sockets. Keep in mind, Night Owl always recommends utilizing a surge protector to minimize the risk of damage caused to your DVR in the event of a power surge.



Pictured above: Night Owl's revolutionary battery backup designed for security DVR's. We recommend all customers utilize the battery backup with your DVR. <http://nightowlsp.com/products/cables-accessories/accessories/bb-86ah.html>

CHAPTER 6

GETTING STARTED



SUPPORT VIDEOS

Chapter 6: Getting Started



6.1 Startup Wizard

When your DVR is powered on it will display the Night Owl logo while initializing. Scan or click the QR code to view our Startup Wizard video which shows the quick and easy steps in detail.



After initialization, you will be prompted to use the Startup Wizard. Follow the on-screen instructions to:

- Create a system user name and password.
- Connect your DVR to a router that is hard wired. The DVR cannot connect wirelessly to a router.
- Follow the Startup Wizard instructions to add your DVR to your mobile device.



You can prevent the Startup Wizard from appearing each time the unit is rebooted by checking “Don’t display this wizard again.”



6.2 Night Owl HD Mobile App

The Night Owl HD Mobile App allows you to access your DVR remotely on an Apple or Android smart device. You can easily configure motion activated push notifications to alert you when one of your cameras detects motion. Additionally, you can live view your cameras from within the app.



Once you have downloaded Night Owl HD and connected your DVR to your router, you can network your DVR by scanning the QR code which is located on the top of the DVR.

6.3 Displays and Icons

The following sections will describe the 3 main screens you will access for login, playback, recording, and configuration

6.3.1 Login Screen

The screenshot shows a login screen with a dark background. At the top, the word "Login" is centered. Below it, there are three input fields: "Device ID" with the value "000000" and a small "(000000)" to its right; "User" with the value "admin"; and "Password" which is currently empty. At the bottom, there are two buttons: "Login" and "Cancel".

Any time you want to configure or adjust your system settings you will be required to log in by entering your user name and password. It's important you save your login info or you won't be able to access your DVR. Be sure to store your user name and password in a safe location. You will need this information to access the main menu.

Device ID: the value in the field should match the value in the parentheses on the right. These numbers verify which device you are currently viewing.

User: enter the User name you created in the Startup Wizard or User Menu.

Password: enter the Password you created in the Startup Wizard or User Menu. If the password is incorrect you will be prompted to try again. Keep in mind the password is case sensitive and must be 8 characters long.

6.3.2 Live View (All Channels)

Live View is the default screen you will see when viewing all channels on your DVR. Right-click anywhere on-screen to bring up the icon menu to change viewing options or access the main menu. Rearrange the channel order by left clicking and dragging individual channels to other locations in the on-screen layout.

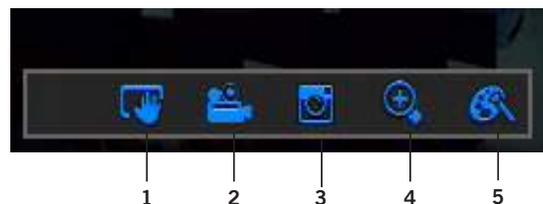


1. **Date and Time:** current date and time of the system.
2. **Channel Name and Number:** channel name and number.
3. **Menu:** access the main menu to configure or adjust settings
Be sure to store your user name and password in a safe location.
You will need this information to access the main menu.
4. **Lock Screen:** manually locks or unlocks screen. Once the screen is locked, you will need to enter your user name and password to gain access.
5. **Quad View:** 4 channel viewing layout.
6. **9-Channel View:** 9 channel viewing layout.

7. **Recording:** indicates when a camera is currently recording.
8. **Multi-view:** various layout options for viewing multiple channels at once.
9. **Auto Sequence:** start/stop the slideshow sequence of each channel.
10. **Volume:** mute or adjust the system volume.
11. **PTZ:** open up the Pan, Tilt, Zoom (PTZ) menu. This function will only work when a PTZ camera is connected to your DVR.
12. **Cruise:** starts /stops the cruise function of your PTZ camera.
13. **Picture-in-Picture 1:** view channel 1 with an inset window showing another channel.
14. **Playback:** access the recording/playback menu and functions.

6.3.3 Live View (Single Channel)

When in Live View, select a single channel to bring up additional controls and playback options. By double-clicking on the channel you can also view that channel in full screen mode.



1. **Manual SnapShot:** click to snapshot a single still image.
2. **Manual Record:** click to begin recording the selected channel.
3. **Instant Playback:** replay video footage stored on the HDD.
4. **Zoom:** click and drag an area to zoom in and enhance. Right-click to return to the normal view.
5. **Color Setting:** adjust the channel hue, contrast, brightness, and saturation.

6.3.4 Menu Screen

Access the main menu by right-clicking anywhere while in Live View and then selecting the menu icon.



From within the main menu you will be able to access settings and parameters for all aspects of your DVR system.



1. **General Menu:** configure display, network, and alarm settings.
2. **Cameras Menu:** access channel display and color settings.
3. **Record Menu:** setup or modify general recording, triggered events, and recording settings.
4. **Device Menu:** monitor available HDD space and access PTZ settings.
5. **System Menu:** access general settings such as timestamp displays, user access, system info, and access logs.
6. **Advanced Menu:** view and change maintenance settings, upgrades, and HDD alerts.

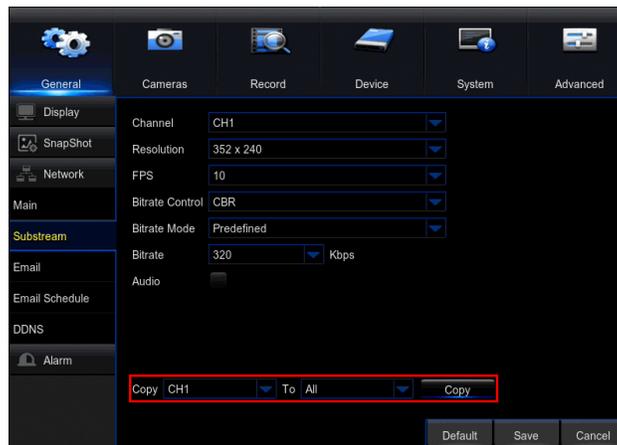
CHAPTER 7

MENUS AND SETTINGS

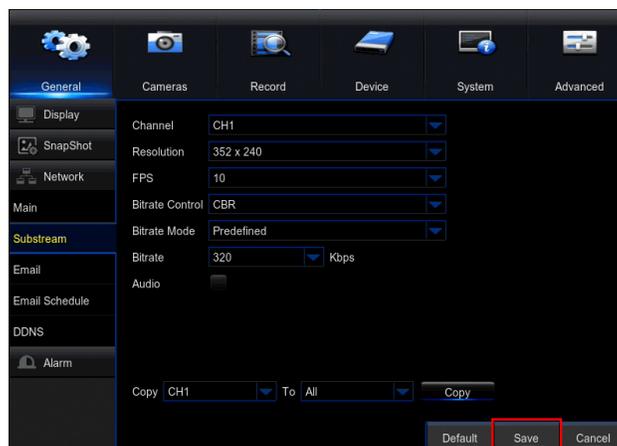


SUPPORT VIDEOS

Chapter 7: Menus and Settings



Some menu screens will allow you to copy similar settings to multiple channels. Choose the channel you would like to copy information from in the first dropdown box (Copy), then select the channel you would like to copy the information to from the second dropdown box (To). Click Copy when the proper channels have been chosen.



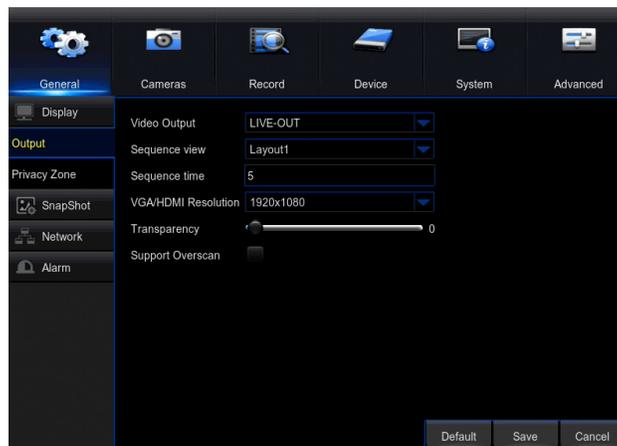
Be sure to Save all changes you make in the menus. If you do not save the changes, they will not be applied. You can also select the Default button on any page to restore default settings for those parameters.

7.1 General Menu

The general menu will allow you to access display, network, and alarm settings for your DVR system.

7.1.1 Display

a. Output: adjust the display resolution on your TV or monitor.



Video Output: defaulted to LIVE-OUT.

Sequence View: set the channel order when viewing in sequential mode.

Sequence Time: adjust the duration each channel is displayed during a sequential view. You can select between 1 and 300 seconds per channel. To begin the auto sequence feature, click on the Auto Sequence icon which is located on the quick access bar.

VGA/HDMI Resolution: optimize the display resolution to best fit your TV/monitor. By default, the optimal resolution option will be selected automatically by the DVR.

Transparency: modify the menu transparency when displayed on screen.

Support Overscan: select this option if using a TV or monitor that overscans (crops) the camera footage

b. Privacy Zone: create or modify up to 4 privacy zones per channel. These zones will not be visible to the cameras in Live View or during any recording.



Channel: choose which channel to apply a privacy zone to.

Privacy Zone: *Enable* or *Disable* privacy zones on the selected channel.

Area Setup: select the number of masks you would like to create or modify.

Mask Area: a single Live View of the selected channel will be displayed with the number of Areas selected in the previous line. Select, drag, and resize each area by left clicking the mouse to mask areas on camera that you do not want visible while recording or monitoring. Once the area(s) are selected, right-click to return to the menu.



7.1.2 SnapShot



a. SnapShot: turn channel SnapShot capabilities on or off.

Channel: Select channel to edit.

Auto SnapShot: Enable/disable snapshot feature on selected channel.

Stream Mode: Select mode of streaming: Mainstream = native resolution and frame rate; Substream = optimal resolution and frame rate equal to bandwidth available

Normal Interval: Time in between snapshots in seconds for normal recording.

Alarm (Motion) Interval: Time in between captures in seconds for motion recording.

Manual SnapShot: Enable/disable ability to snapshot a still image manually.



b. SnapShot Schedule: set parameters for snapshot situations. For example, from this menu you can configure your camera on channel one to snapshot from 1pm-9pm(Scheduled) and the remaining cameras to begin capturing only when motion is detected (Motion).

7.1.3 Network

a. Main: find network values and optimize connectivity based on your Internet connection. In most cases the values should populate automatically once your DVR is connected to the Internet. The values in this section should only be adjusted if you are an advanced user and have extensive experience in device networking.



PPPOE: for broadband dial-up network users only. You will need to contact your ISP to retrieve the User Name and Password needed to complete this type of connection.

DHCP: the most common network connection type. These values will be gathered automatically from your ISP when connected.

Static: modify these values if you are using a static IP address. Information can be obtained from your router and ISP.

Media Port: allows access to your DVR from a mobile device. The default value of 9000 should generally be used for most cases.

Web Port: allows access to your DVR with your computer through your LAN or the Internet. In most cases the default value of 2049 or 2051 will provide the most optimal connectivity.

IP Address: network address of the connected DVR.

Subnet Mask: the range of IP addresses that can be found in the network. This should always be set to the default address 255.255.255.000.

Gateway: the connection between two networks. This should always be the IP address of the connected router.

DNS1: primary Domain Name System server address.

DNS2: secondary Domain Name System server address.

UPNP: *Enable* or *Disable* Universal Plug and Play abilities depending on your network device capabilities.

b. Substream: configure or optimize the video quality of your Live View.



Channel: select the channel to edit.

Resolution: choose your desired resolution for the selected channel.

FPS: increase or decrease the frames per second of the streaming video depending on your connection speed. A higher FPS will result in more data transfer but smoother video. A lower FPS will eliminate most lag but at the expense of video quality.

Bitrate (Control/Mode): adjust the amount of data transferred while streaming. The default settings are sufficient for most networks.

Audio: click the tick box to record sound if your camera is audio enabled. Not all cameras are audio enabled; audio enabled cameras will have a white RCA connector to transmit the audio signal.

c. Email: *Enable* or *Disable* email alerts based on your alarm settings.



SSL: *Enable* or *Disable* to send encrypted email alerts.

SMTP Port: the access point for your email determined by your email service provider.

SMTP Server: this is the mail server address of your email provider. This information is determined by your email provider.

Sender: the email address that will send email alerts.

Sender: the email address that will send email alerts.

Sender Password: the password for the email address provided in *Sender*.

Receiver: the email address that will receive the email alerts.

Interval: set the duration between sending emails for multiple alerts.

d. Email Schedule: choose when alert emails can be sent. Select Motion or *Exception* above the calendar and click the corresponding green or red boxes; you can highlight multiple boxes by left clicking and dragging. Highlighted boxes represent days and times in which emails will be sent. Motion refers to alerts sent when cameras are triggered by motion and Exception refers to events such as video loss or memory conflicts



e. DDNS: *Enable or Disable* DDNS service to view your DVR from a computer.



Server: set to the *NIGHTOWL* server when using the Night Owl free domain name server.

Domain: set to the domain name you created when registering your DDNS.

User: the UserID created during the DDNS registration process.

Password: the password created during the DDNS registration process.

7.1.4 Alarm

a. **Motion:** configure the motion alarm settings for your DVR system



Channel: select the channel to configure motion alarm settings.

Motion: enable motion alarms.

Buzzer: enable audible alarm.

Sensitivity: adjust the level of motion detection. A lower setting will require more movement in the camera range to begin recording.

Motion Area: clicking Setup will allow you to configure areas which will and will not detect motion. Red boxes denote areas that will detect motion and uncolored boxes show areas that will not. When finished, right click to go back to menu.

Post Recording: set the amount of time to record after the motion is detected. You can select between 30 and 300 seconds.

Show Message: check the tick box to enable the display of a red “M” on-screen while in Live View mode. “M” means motion is occurring.

Send Email: check the tick box to send an email alert when motion is detected. See section 7.1.2. for email setup and configuration.

Full Screen: when this tick box is checked, the selected channel will go to full screen when motion is detected.

Push: selecting this tick box will enable push notifications to your mobile device when motion is detected in the selected channel. The default setting is on.

Record Channel: this option gives you the ability to start recording on the channels you select/highlight as soon as motion has been detected on the Channel selected above within the Channel field

b. Setting Detection Area

When it comes to protecting your loved ones, why not go with the best?

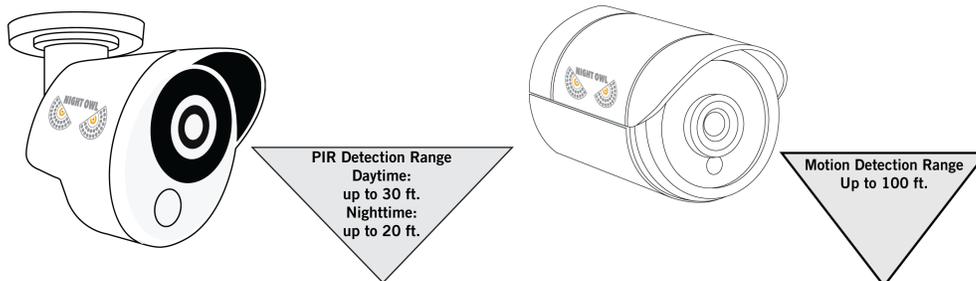
Night Owl's Smart Detection Security System uses both motion sensors and infrared sensors to ensure the number of false alerts produced are minimal. Current motion detection technology allows your system to begin recording when a pixel change is detected by your unit. With the incorporation of infrared sensors, now your system must detect both a pixel change and a change in heat in order for your system to record when set to motion. Night Owl utilizes high tech UTC cabling which sends a signal from the camera to the DVR. If configured, the DVR will then send a push notification out to your Smart Device which will contain an embedded video clip of the object triggering the motion and infrared sensors.

In order to set the PIR Detection Area for your PIR camera, first log in to your DVR's Main Menu then navigate to **General > Alarm**. Choose the channel you want to configure from the drop down menu labeled **Channel** and then click the **Setup** button. You will be directed to the detection area screen.

By default, all squares should be red, indicating the entire field of view is set to detect heat change.

If there is an area within the camera's field of view that you do not want detection to be active, follow the steps below:

1. Click on a square in one corner of the area you don't want to be detected
2. Click and drag the mouse over the area you want to block
3. Release the mouse and verify you have selected your desired area
4. Right click the mouse and select Save



7.2 Cameras Menu

Adjust or modify individual camera settings connected to your DVR.

7.2.1 Settings



Channel: select the channel you want to configure a camera for.

Channel Name: create a name for the selected channel; this name will be displayed on-screen during Live View and playback.

Show Name: display the channel's name on screen.

Record Time: Enable or Disable the recording time display on-screen during playback mode.

Position: change the position of Channel Name while viewing in Live View.

Color: click Setup to access a sub-menu to adjust the colors of the selected channel. In this sub-menu you can adjust the Hue, Brightness, Contrast, and Saturation of the image.

Covert: Enable or Disable the display of this channel. Enabling the Covert mode will not affect the channel's recording functions; only block the channel while viewing in live view mode.

Show Time: Enable or Disable the on-screen time stamp during live view mode.

7.3 Record Menu

From this menu you can enable recording, set video settings, and adjust streaming options.

7.3.1 General (Playback)

Search and playback all recorded video from this menu. Choose your desired date and times from the options below, then click *Play* to view recorded video. Right-click to exit back to the menu screen.



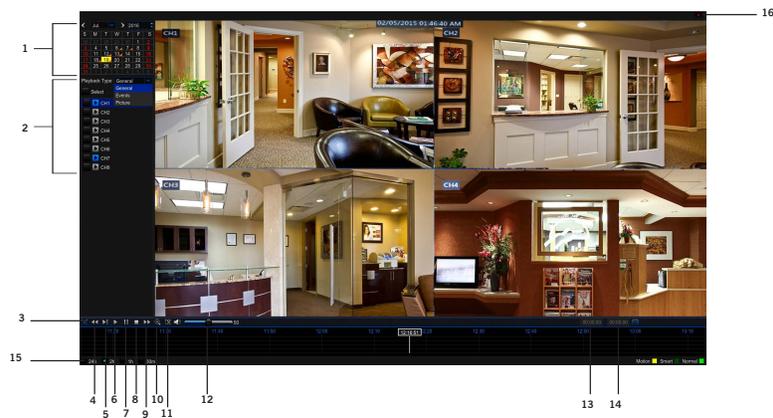
Channel: select the channel you would like to playback footage from.

Type: search *All*, *Normal* or *Motion* video to playback.

Playback Channel: choose the desired channel to view footage from.

Start Time: set the initial time parameter for your video search.

End Time: set the end time parameter for your video search.

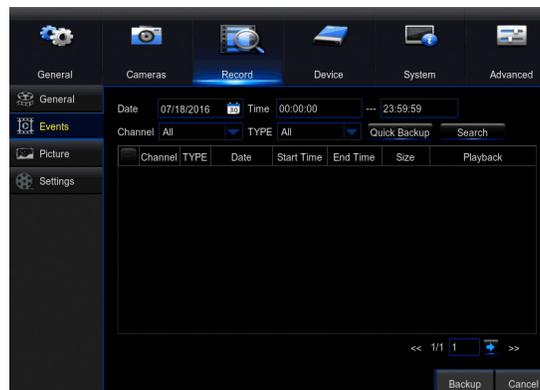


1. **Calendar:** indicate the date to playback video.
2. **Channel Selection:** choose the channels to display on-screen.
3. **Full Screen:** hides the Calendar and Channel Selection panels.
4. **Rewind:** rewinds the recorded video.

5. **Slow Forward:** forwards the video at a slower speed.
6. **Play:** plays video starting at the indicator on the timeline.
7. **Pause:** pause the recorded video.
8. **Stop:** stop the recorded video.
9. **Fast Forward:** fast forward frame-by-frame of the recorded event.
10. **Zoom:** click the icon and select the area on-screen to zoom in.
11. **Clip/Save:** click once to set the start point of the video you would like to save. Press the icon again to select the end point of the video you would like to save then choose whether you would like to save as an *H.264* or *AVI* format.
12. **Volume Scale:** adjust the volume of the video in the selected channel(s).
13. **Start Time:** indicates the beginning of the timeline on the selected Calendar date.
14. **End Time:** indicates the end of the timeline.
15. **Timeline Length (24h, 2h, 1h, 30m):** select the duration of the on-screen display of the timeline.
16. **Exit:** double right click the mouse or click on the X to exit the playback screen.

7.3.2 Events and Pictures

Search for video from triggered events and quickly backup the video files for future reference. You can select either *All*, *Normal*, *Motion*, or *Manual*.



Date: select the date to search for event.

Time: choose a start and end time that the event happened.

Channel: pick the channel(s) with the desired event.

Type: select from All, Normal, or Motion event. (Picture menu also has a Manual option)

Quick Backup: check the boxes to the left of the found videos clip(s) and click this button to save that file to a USB Flash Drive. ou can also Playback by right clicking on the icon located in the playback section.

Search: once the parameters are set, click this button to retrieve manual event from the specified time period. You can choose to save your video as an AVI, MP4, or H.264 format.

7.3.3 Settings (Recordings)

View or modify general recording settings for your DVR system.



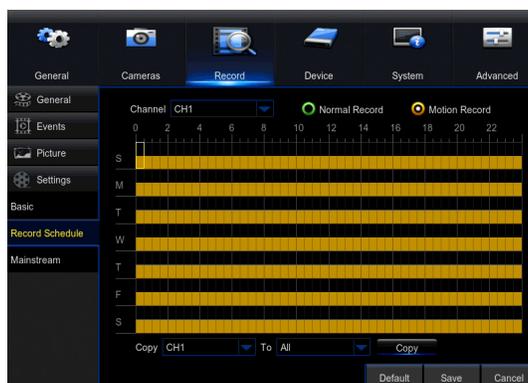
a. Basic: turn channel recording capabilities on or off.

Channel: select the channel you would like to configure.

Record: Enable or Disable recording capabilities for this channel.

Pre-Record: Enable or Disable pre-recording for this channel. Pre-recording is the amount of video captured prior to an alarm being triggered.

Stream Mode: select either Mainstream (high resolution) or Substream (low resolution).



NOTE: By default, the DVR is configured to begin recording when motion is detected.

b. Record Schedule: set parameters for recording situations. For example, from this menu you can configure your camera on channel one to record from 1pm-9pm (Scheduled) and the remaining cameras to begin recording only when motion is detected (Motion).

Channel: select the channel to configure the recording schedule

Normal Record: select this option to set the schedule for continuous recording. Once selected, highlight the boxes corresponding to the day and times that the channel should be recording. Click and drag to highlight multiple boxes green.

Motion Record: select this option to set the schedule for motion-activated recording. Once selected, highlight the boxes corresponding to the day and times that the DVR should record when motion is detected. By default, motion recording is always on.



c. Mainstream: configure or adjust the video settings to best optimize your connection

Channel: select channel to edit

Resolution: choose between 960H (960 x 480), 720p (1280 x 720) or 1080p (1920 x 1080) resolutions based on your TV or monitor capabilities.

FPS: increase or decrease the frames per second of the streaming video depending on your connection speed. Higher FPS equals better video quality. If experiencing lag or stutter, lower the FPS.

Bitrate Control: select CBR (constant bit rate, or a fixed encoding speed) or VB (variable bit rate, or an average encoding speed); if using VBR, you must select the desired quality of video.

Bitrate Mode: select Predefined to auto-select bitrate or User-Defined to set bitrate manually.

Bitrate: adjust the amount of data transferred while streaming. The default setting is sufficient for most networks

Audio: click the box to record sound if your camera is audio enabled. Audio enabled cameras are only included in certain kit models.

7.4 Device Menu

7.4.1 HDD

Check available memory on your DVR HDD and set recording parameters to optimize storage.



Select: if multiple drives are installed, choose the HDD you would like to customize.

Overwrite: by default, the *Auto* setting will overwrite the earliest footage once the HDD is full. Choose one of the other options to overwrite footage at the end of the desired time duration, starting with the earliest data. *Off* will record until the HDD has reached capacity.

Format HDD: click this button to format the selected drive. Keep in mind, formatting the HDD will erase all video files from the HDD.

7.4.2 PTZ

Configure settings on your DVR to control a PTZ-enabled camera



Channel: choose the channel with a PTZ-enabled camera. Not all cameras are PTZ enabled.

Protocol: select *Pelco-D* or *Pelco-P* depending on the camera protocol. Both the DVR and camera should be set to the same setting.

Baudrate: indicates the frequency of communication to the PTZ camera. We recommend leaving the default setting which is 9600.

DataBit: select the amount of data to send during each transmission. 8 bits is standard for all modern data transmissions.

StopBit: select the amount of extra data to send each time a direction is sent to the camera. The stopbit serves as a buffer between commands and should be 1 (by default) when utilizing Night Owl's AHD PTZ camera.

Parity: detects corrupt commands sent to and from the PTZ camera. This should generally be left Disabled.

Cruise: *Enable* or *Disable* the PTZ cruise function, which allows the camera to automatically scan the area periodically with no manual input.

Address: enter an ID number for the PTZ camera, greater than 0. If using multiple PTZ cameras, ID numbers cannot be the same.

7.5 System Menu

7.5.1 General

Set or adjust basic DVR settings such as the time, date, and language.



a. Settings: basic system configuration

Date: manually set the date by left clicking on the calendar icon

Time: manually set the time by left clicking inside the time field

Date Format: choose the display format for the date. You can select Month/Day/Year, Year/Month/Day or Day/Month/Year.

Time Format: select between a *12Hour* or *24Hour* display.

Language: pick between *ENGLISH*, *SPANISH* or *FRENCH* language preferences.

Video Format: *NTSC* or *PAL* formats are available to choose from. *NTSC* is the standard for video in North America.

Menu Timeouts: select the duration of time for an inactive menu to be displayed on-screen.

Show Wizard: check the tick box to display the Startup Wizard each time the DVR is powered on.

Mobile Wizard: click the mobile icon to launch mobile application setup portion of the Startup Wizard.

b. DST: configure Daylight Savings Time settings.

DST: *Enable* or *Disable* the Daylight Savings Time feature.

Time Offset: choose the amount of time (*1Hour* or *2Hours*) to offset if DST is enabled.

Daylight Saving Time: indicate whether you would like this feature to be applied the week of or an exact date.

Start Time: select the date and time to apply the DST offset.

End Time: select the date and time to remove the DST offset.

c. NTP: sync your DVR to the Network Time Protocol standard time and date.

NTP: *Enable* or *Disable* the NTP sync feature.

Server Address: choose the NTP server in which to sync the date and time with.

Time Zone: indicate your current or desired time zone.

Update Now: after selecting the above options, click this button to apply the settings.

7.5.2 Users

Create and modify user's permissions.



Edit: select an existing user from the list to change the *User Name*, *Enable* or *Disable* password access, or create a new *Password*.



Permission: select a user profile (e.g. user1) and press the *Permission* button to select which menus, settings, and playback/recording functions are available to that specific user and on which channels. *All* will give that user basic admin settings.



7.5.3 Info

a. Info: View your DVR system's information and specifications at a glance
This menu will provide crucial device and network information to allow manual reconfiguration of your mobile application if needed. Keep in mind you can also scan the QR code on this screen using your Night Owl HD mobile application to quickly reconfigure your mobile device via our Owl Scan feature



Device ID: create a unique device ID number if you are using multiple DVRs.

Device Name: create a unique device name for easy reference.

Device Type: product model number.

Hardware Version: the current hardware version.

Software Version: your current software version.

IE Client Version: the current IE client version.

IP Address: the current DVR network address.

MAC Address: the DVR media access control address on the network.

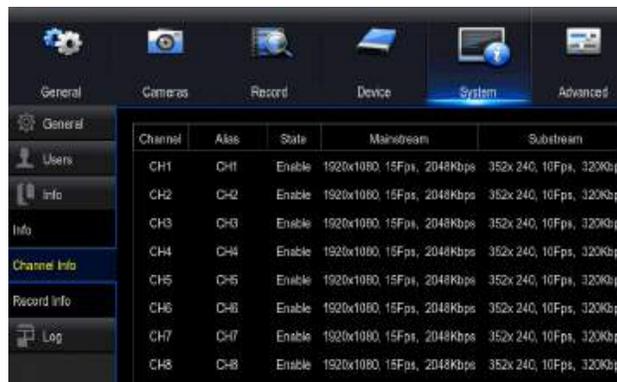
HDD Capacity: the max capacity of installed hard drives.

Video Format: the current video recording format.

Media Port: by default should be left at 9000.

Web Port: by default should be left at 2049 or 2051.

P2P: the ID of your Peer to Peer (P2P) connection.



The screenshot shows the 'Channel Info' menu in a DVR interface. The left sidebar has options: General, Users, Info, Channel Info, Record Info, and Log. The main area displays a table with the following columns: Channel, Alias, State, Mainstream, and Substream.

Channel	Alias	State	Mainstream	Substream
CH1	CH1	Enable	1920x1080, 15Fps, 2048Kbps	352x 240, 10Fps, 320Kbp
CH2	CH2	Enable	1920x1080, 15Fps, 2048Kbps	352x 240, 10Fps, 320Kbp
CH3	CH3	Enable	1920x1080, 15Fps, 2048Kbps	352x 240, 10Fps, 320Kbp
CH4	CH4	Enable	1920x1080, 15Fps, 2048Kbps	352x 240, 10Fps, 320Kbp
CH5	CH5	Enable	1920x1080, 15Fps, 2048Kbps	352x 240, 10Fps, 320Kbp
CH6	CH6	Enable	1920x1080, 15Fps, 2048Kbps	352x 240, 10Fps, 320Kbp
CH7	CH7	Enable	1920x1080, 15Fps, 2048Kbps	352x 240, 10Fps, 320Kbp
CH8	CH8	Enable	1920x1080, 15Fps, 2048Kbps	352x 240, 10Fps, 320Kbp

b. Channel Info: Displays an overview of the current video settings for all channels. View alias, state, mainstream/substream playback information, mobile support, motion detection, and privacy zone information. The settings on this page cannot be edited.



c. Record Info: Displays an overview of the current record settings for each available channel. View record state, stream type, frames per second (FPS), bitrate, and resolution information. The settings on the page cannot be edited.

7.5.4 Log

Search for logs of all events and notifications on the DVR to playback or backup file



Start Date: choose the initial date of your log search period.

End Date: choose the end date of your log search period.

Start Time: choose the initial time of your log search period.

End Time: choose the end time of your log search period.

Log Type: select the type of event log that you would like to *Search* for. Each choice corresponds to an action or event that was triggered and noted within the system. For example, *System* logs are recorded when the DVR time is synced with NTP (if enabled) or if the system is turned on or off.



Backup: in order to save a log, a USB flash drive must be inserted into one of the available USB ports on the back of the DVR. Select the log(s) you would like to save, and then select the drive to save to.

7.6 Advanced Menu

Configure additional settings related to maintenance, hard drive space, and upgrades.

7.6.1 Maintain

Adjust settings related to default user access and reboot schedules.



Default User: select the default user account.

Auto Reboot: *Enable* or *Disable* the automatic reboot feature.

Reboot: set the frequency of reboots if this feature is enabled.

Update: if any of the above settings were changed, click this button to save the new parameters.

Load Default: revert back to the standard reboot schedule.

Save Settings: save reboot settings to a USB flash drive

Load Settings: load previously saved settings from a USB flash drive

Shutdown: display the power menu (Shutdown, Reboot, Cancel).

7.6.2 Events

Configure notification settings for other triggered events not related to motion detection such as disk error, disk full or and/or video loss.



Event Type: choose the type of event you would like to create a notification for. *Disk Full* means you will receive a notification if the HDD is full. *Disk Error* refers to the status of the HDD and will notify you if it crashes or has become corrupt. *Video Loss* is the absence of video due to power loss.

Enable: turn notifications on or off for the selected Event type.

Show Message: enable an icon to be displayed in Live View when the Event Type is triggered.

Send Email: send an email notification when the Event type is detected.

Buzzer: turn an audible buzzer on for a duration of time to alert you when this *Event Type* happens. Choose *OFF* to disable this feature. You can select between 10 and 60 seconds.

7.6.3 Auto Upgrade

Control settings for auto upgrades of the DVR software.



Auto Upgrade: Enable or Disable the auto upgrade feature. Firmware updates will be detected automatically when this feature is enabled. The default selection for the auto upgrade feature is enable.

Check For Updates: check this box to periodically search for updated software versions.

Detect: click this button to check if you have the most current software version installed.

Upgrade: if an upgrade is detected, click this button to download and install the new version.

CHAPTER 8

REMOTE ACCESS



SUPPORT VIDEOS

Chapter 8: Remote Access

This chapter will show you how to connect your DVR to the Internet. You will learn how to properly connect your DVR to your router/modem, complete DDNS registration, and setup port forwarding, Internet, and mobile configurations

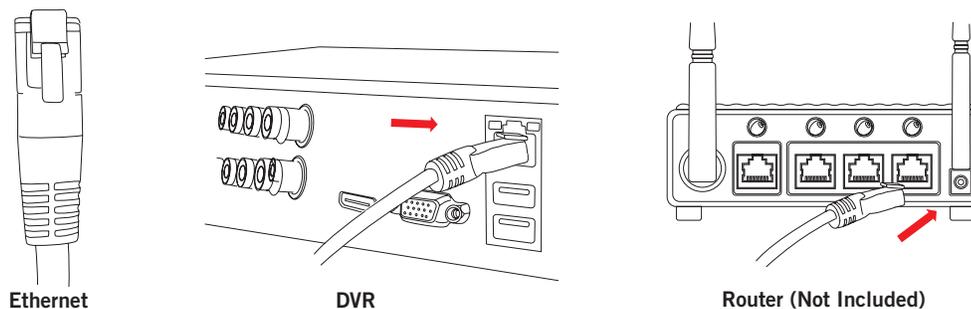
8.1 System Requirements

You will need to have the following in order to be able to successfully connect the DVR to the Internet.

- High-speed Internet connection
- Router or modem with two open Ethernet ports
- MAC (OS X® 10.7 and above) or PC (Windows® XP and above) with Safari®, Internet Explorer® (7 and above), Edge®, Google Chrome™, or Firefox® installed
- 2x Ethernet cables (1x included with the system; see image below)

8.2 Setup

Learn how to connect the DVR to your router/modem.



NOTE: Do not connect the DVR to a wireless router.

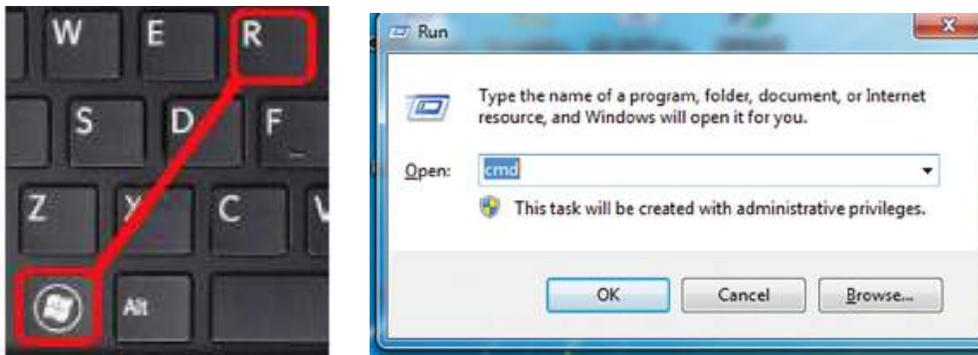
8.3 Network Configuration

8.3.1 Windows® Operating Systems

Make sure that the DVR is properly connected to the router/modem and that you have a computer that works with Windows and connected to the same router.

Follow these steps to determine basic information about your network:

1. Press the *Windows* and *R* key at the same time on your computer's keyboard to bring up the Run window. Type "*cmd*" and press the *Enter* key.



2. In the command prompt window, type "*ipconfig*" and press *Enter*. Find the section named "Ethernet adapter Ethernet" or "Wireless LAN adapter Wi-Fi" and locate the "IPv4 Address" and write this address down e.g. 192.168.1.123.

```
C:\windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\Jennifer>ipconfig
```

3. Change the last three digits of the address to 150 and write this address down as well e.g. 192.168.1.150. This will become the IP address of your DVR at a later time.
4. Find "Default Gateway" in the same section and write this number down as well e.g. 192.168.1.1. You will need to enter this in the DVR network settings.

For the following steps, use the information that you just wrote down. To access the network settings on your DVR, go to the General Menu, then to Network > Main and choose the Static option.



1. Manually enter the IP address into the *IP Address* field; this is the number that ends with 150. You may have to add placeholder zeros for any sections that do not contain three digits e.g. 192.168.1.150 → 192.168.001.150.



2. Confirm that the *Subnet Mask* is set to 255.255.255.000.



3. Enter the “Default Gateway” number from the prior section into the *Gateway* field. Again you will need to add placeholder zeros in any sections that do not contain three digits e.g. 192.168.1.1 → 192.168.001.001.



4. *DNS1* and *DNS2* fields are auto-populated in most cases, if they are not the need to be set as follows: *DNS1*: [Gateway] *DNS2*: 8.8.8.8.
5. Click the *Save* button to apply all changes.
6. Reboot or power cycle the DVR.

NOTE: Write these addresses down in the User Information section at the end of the manual for future reference.

8.3.2 Mac® Operating Systems

Make sure that the DVR is properly connected to the router/modem.

Follow these steps to determine basic information about your network:

1. Click the Apple logo in the top left of your screen, select System Preferences, then select Network.
2. Choose *Ethernet* and select the *Advanced* button in the lower right corner.
3. Select the *TCP/IP* tab at the top to display your computer's network information.
4. Write down the "IPv4 address."
5. Change the last three digits of the address to 150 and write this address down as well e.g. 192.168.1.150. This will become the IP address of your DVR at a later time.
6. Make note of the IP address listed for Default Gateway. You will need to enter this into the DVR network settings.

For the following steps, use the information that you just wrote down. To access the network settings on your DVR, go to the General Menu, then to Network > Main and choose the Static option.



1. Manually enter the IP address into the *IP Address* field; this is the number that ends with 150. You may have to add placeholder zeros for any sections that do not contain three digits e.g. 192.168.1.150 → 192.168.001.150.



2. Confirm that the *Subnet Mask* is set to 255.255.255.000.



3. Enter the “Default Gateway” number from the prior section into the *Gateway* field. Again you will need to add placeholder zeros in any sections that do not contain three digits e.g. 192.168.1.1 → 192.168.001.001.



4. *DNS1* and *DNS2* fields are auto-populated in most cases, if they are not the need to be set as follows: *DNS1*: [Gateway] *DNS2*: 8.8.8.8.
5. Click the *Save* button to apply all changes.
6. Reboot or power cycle the DVR.

NOTE: Write these addresses down in the User Information section at the end of the manual for future reference.

8.3.3 Port Configuration

After you have configured the network settings, you will need to forward the necessary ports to be able to view the DVR over the Internet.

Refer to your router's documentation to see how port forwarding works for your device. This process may be referred to as "Port Forwarding," "Port Mapping," or "Virtual Server."

Below are some general considerations to keep in mind to make sure that the appropriate ports are forwarded:

1. Go to <http://whatismyip.org>. Your public IP address will appear at the top of the page; write this number down.
2. Open a browser window and type in your IP address in the URL bar.
3. Log in to your router using your user name and password. If you do not know your router's user name and password you will need to contact your ISP or the router manual/support documentation to retrieve that information.

4. Once logged in to your router, go to the settings related to port forwarding.
5. You will need to enter a new port forwarding entry for each port that your DVR uses: Media Port (9000), Web Port (2049 or 2051). Repeat the steps below for each entry.
6. When entering the port numbers and IP address into your router's port forwarding section, you will need to remove any leading zeros e.g. 09000 → 9000, 192.168.000.150 → 192.168.0.150, etc.
7. Additionally most router menus will ask you to enter the following information in order to forward a port; the language and naming on your particular router may be different than below but the same principles will apply:
 - **Application Name:** create a unique name for your DVR system.
 - **Public Port:** select the port to forward: Media Port (9000), Web Port (2049 or 2051), or Server Port (2050).
 - **Private Port:** set to the same number you entered for the Public Port.
 - **Port Type/Protocol:** if your router has an option for both, use TCP and UDP. If your router allows either TCP or UDP port types, use TCP.
 - **Host IP Address:** set to your DVR IP address ending in 150 that you wrote down earlier.

Once you have forwarded the necessary ports on your router, you should check to make sure they have been correctly forwarded.

1. Go to <http://www.yougetsignal.com/tools/open-ports/>.
2. Type in port 9000 and select the *Check* button to see if the port is open or closed.
3. Type in port 2049 or 2051 and select the *Check* button to see if the port is open or closed.
4. All ports should be open. If any ports test as closed, that port is not forwarded correctly.

NOTE: Write your external address in the User Information section at the end of the manual.

8.3.4 DDNS Registration

This option allows you to set up a free website address that will point back to the DVR, regardless of whether or not the IP address changes. If you do not have a static IP address, you should use this option.

Follow the steps below to register a free domain name/DDNS.

1. Go to <http://www.nightowldvr.com>.
2. Select the *Registration* button located at the top left corner of the page.



The screenshot shows the 'NEW USER REGISTRATION' form on the Night Owl DDNS website. The form includes fields for USERNAME, EMAIL, PASSWORD, PASSWORD REPEAT, FIRST NAME, LAST NAME, SECURITY QUESTION (with a dropdown menu), and ADDRESS. There is a CAPTCHA field with a 'New Captcha' button and a 'Take the captcha above' link. The form has 'Submit' and 'Cancel' buttons at the bottom.

3. Complete the New User Registration form. Write down the UserID and Password information.



The screenshot shows the 'My Domains' page on the Night Owl DDNS website. It features a search bar with 'Search by Domain' and 'Search' buttons. Below the search bar is a table with columns for NAME, STATUS, and DOMAIN. The table contains one entry: NAME: 123456, STATUS: (green checkmark), DOMAIN: www.nightowl.com. Below the table, it says 'Last Update: Nov 21, 2007 12:45:13 PM' and 'Create additional domain names: 1/1'. At the bottom, there are links for 'Download our automatic IP update software for Windows' and 'Download 4096bit a Free Trial version of password for Linux/Free software'.

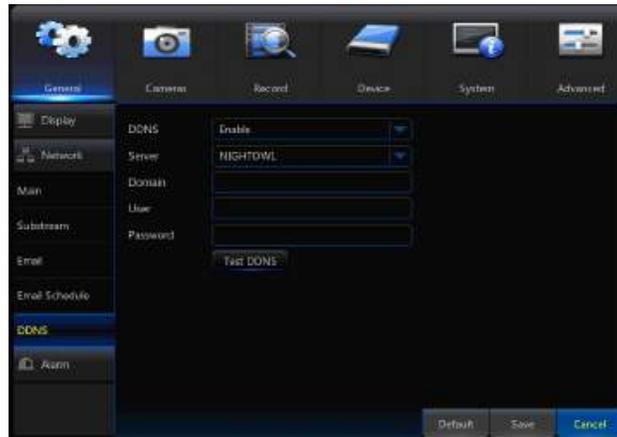
4. Create a domain name. If the domain name that you have chosen is available, you will see a window that tells you that your domain was successfully created. If the domain name is taken, try again until you find an available name

NOTE: Write the registered domain name down in the User Information section at the end of the manual.

8.3.5 Adding the DDNS to Your DVR

Once you have registered for your free DDNS account, you need to setup your DVR.

Log in to the DVR, go to the General tab and click on Network, and then click DDNS.



1. Set the *DDNS* field to *Enable*.
2. Verify that the *Server* field is still set to *NIGHTOWL*.
3. In the *Domain* field, input the domain name that you created during the DDN registration.
4. Input the UserID and Password you created at registration into the *User* and *Password* fields respectively .
5. Click Save to apply the changes.

CHAPTER 9

GLOSSARY



SUPPORT VIDEOS

Chapter 9: Glossary

DDNS: Dynamic Domain Naming System. Method for automatically updating hostnames, address, or other information like a URL on a given name server.

DHCP: Dynamic Host Configuration Protocol. A network protocol that allows a server to automatically assign a device and IP address.

FPS: Frames Per Second.

ISP: Internet Service Provider. An organization that provides services for accessing or using the Internet.

IP: Internet Protocol. Protocol for standard communications across the Internet.

PPPOE: Point-to-Point Protocol Over Ethernet. Specifications needed to connect multiple addresses on a local network to a remote site.

SSL: Secure Sockets Layer. Provides a secure connection between web browsers and websites.

SMTP: Simple Mail Transfer Protocol. Standards used for email transmission.

UPS: Uninterrupted Power Supply. Device used to keep the DVR and cameras powered when the main power supply is lost or disconnected.

PIR: Passive Infrared. Heat-based sensors eliminate most false alarms and only delivers alerts when people, animals, or vehicles are detected.

HDA: Hi-Definition Analog. Delivering crisp and clear HD images over coaxial cable.

CHAPTER 10

WARRANTY



SUPPORT VIDEOS

Chapter 10: Warranty

NIGHT OWL, LLC (“Night Owl”) provides the following warranty to the original retail purchaser only (the “Purchaser”) with respect to this product (the “Product”):

For a period of one (1) year after the date of sale, the Product shall be free from manufacturing defects in material and workmanship. In the event that the Product is defective, the Purchaser must return the Product at Purchaser’s cost (no CODs) to the address below, with the original proof of purchase receipt. In its sole discretion, Night Owl will either repair or replace the Product at no additional cost to the Purchaser. Any replacement Product (or parts) will be covered by the same warranty as the original Product through the expiration date of the original warranty period.

Exclusions

This warranty does not apply to the following parts or upon the following events:

1. Bulbs, LEDs and batteries;
2. The Product was not used or installed in the manner described in the installation instructions;
3. Negligent use of the Product, or misuse or abuse of the Product;
4. Electrical short circuits or power surges;
5. Use of replacement parts not supplied by Night Owl;
6. Product is either tampered with, modified, or repaired by another service provider;
7. Product has not been maintained in accordance;
8. Accident, fire, flood or other acts of God;
9. Failure to use Night Owl approved accessories;
10. Defects or damages arising by use of the Product in other than normal conditions (including normal atmospheric, moisture and humidity conditions).

Except where otherwise prohibited by law, this warranty is in lieu of other warranties, express or implied, and Night Owl neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with the sale or service of the Product.

In no event shall Night Owl be liable for any special or consequential damages arising from the use of the Product or arising from the malfunctioning or non-functioning of the Product, or for any delay in the performance of this warranty due to any cause beyond its control. This warranty shall not apply to installation or the removal and reinstallation of products after repair.

Night Owl does not make any claims or warranties of any kind whatsoever regarding the Product's potential, ability or effectiveness to prevent, minimize, or in any way affect personal or property damage or injury. Night Owl is not responsible for any personal damage, loss or theft related to the Product or to its use for any harm, whether physical or mental related thereto. Any and all claims or statements, whether written or verbal, by salespeople, retailers, dealers or distributors to the contrary are not authorized by Night Owl, and do not affect this provision of this warranty.

Returns Under this Warranty

In order to obtain service, please make sure that you have registered your product on-line no later than thirty (30) days after purchase at www.NightOwlISP.com in the warranty registration section or in any other manner described in the instructions.

Disclaimer

Certain uses, publication, and/or distribution of video/audio recordings from security cameras and/or, audio devices are prohibited or restricted by federal, state and local laws. When enabling and/or using audio recording features with your hidden security camera, be sure to comply with the laws in your country, state and locality.

Mac and Mac OS X are registered trademarks of Apple Inc. Windows, Windows XP, Windows Vista, Windows 7, Windows 8/8.1, and Windows 10 are registered trademarks of Microsoft Corporation in the United States and/or other countries.

CHAPTER 11

TROUBLESHOOTING



SUPPORT VIDEOS

Chapter 11: Troubleshooting

If a problem occurs, you may be able to easily correct it yourself. The following table describes some common issues and their most likely solutions. Please refer to the table before calling technical support.

Error	Possible Causes	Solutions
System is not receiving power, or is not powering up.	Cable from power adapter is loose or is unplugged.	<ol style="list-style-type: none"> 1. Confirm that all cables are connected correctly. 2. Confirm that the power adapter is securely connected to the back of the unit.
	Cables are connected, but system is not receiving sufficient power.	<ol style="list-style-type: none"> 1. Confirm that the system is powered ON (LED indicators on the front should be ON). 2. If the unit is connected through a power bar or surge protector, try bypassing the bar and connecting the power directly to the wall outlet. 3. Confirm that there is power at the outlet. 4. Connect the power cable to another outlet. 5. Test the outlet with another device (such as a phone charger).
Remote control is not detected by the system.	Battery in the remote control is drained.	Install two fresh AAA alkaline batteries in the remote control.
	There are no batteries in the remote control.	
Hard drive is not detected by the system.	Hard drive cables are loose or not properly connected.	Remove the cover and check that the hard drive cables are firmly connected.
	There is no hard drive in the system.	Open the cover and install a 3.5" SATA hard drive.
Hard drive is full (0%) and the unit is no longer recording.	Overwrite is not enabled.	Go to the Device Menu > HDD and ensure that Overwrite is set to Auto .
Mouse not detected by system.	Mouse cable is not firmly connected to the system.	Firmly connect the mouse cable to the USB Mouse port on the front panel.
	Mouse is not connected to the system.	
	System needs to be reset.	Power off the system (disconnect power cable). Firmly connect a USB mouse to the USB Mouse port on the front panel of the system. Reconnect the power cable to the DC 19V port on the rear panel.

Error	Possible Causes	Solutions
There is no picture on selected channels/camera picture is not being displayed.	Camera cables are loose or have become disconnected.	<ol style="list-style-type: none"> 1. Check the camera video cable and connections. 2. Disconnect and reconnect the cable at the system and at the camera. 3. Try moving the camera to another channel or use another cable.
The image on the DVR appears, but does not have sound.	Audio cables are loose or have been disconnected.	Check the AUDIO connection to the DVR.
	Audio channels are disabled.	Left click in Live View to bring up the Volume control and ensure that the channel(s) are not low or muted.
	Volume on external speakers (not included) is low or off.	Increase volume on external speakers (not included).
A “whirring” noise is coming from the system.	Fan is active.	The noise means the exhaust fan is working normal.
The system beeps at startup.		The beep at startup is normal.
The system beeps during motion detection.	Motion detection is enabled, and the alarm buzzer is activated.	Go to the General Menu > Alarm, select the channel and turn Buzzer to OFF .
I am not receiving email notifications	Email notification is disabled	See section 7.1.3. for details on email configuration
	Default setting is disabled, but you have not entered your own SMTP information.	

CHAPTER 12

CUSTOMER SUPPORT



SUPPORT VIDEOS

Chapter 12: Customer Support

Please contact Night Owl Support before returning your product to the store.
We'll save you the trip.

ONLINE

- www.NightOwlSP.com
- 24/7 Product Support
- How To Videos
- Manuals
- Firmware Updates, etc.

EMAIL

- **Technical Support:** support@NightOwlSP.com
- **Sales Support:** sales@NightOwlSP.com

PHONE (English & Spanish)

- Technical Support: register at www.NightOwlSP.com to receive technical phone support.
- Professional Installation: 1.800.806.5513

CHAPTER 13

USER INFORMATION



SUPPORT VIDEOS

Chapter 13: User Information

Be sure to write down all the important information below and place it in a secure location.

General DVR Information

Admin Password: _____

User Password: _____

Mac Address: _____

Serial Number: _____

Internet Login Information

Internal IP Address: _____

Public IP Address: _____

DDNS Name: _____

DDNS UserID: _____

DDNS Password: _____

Media Port: _____

Web Port: _____

NIGHT OWL



www.NightOwlSP.com

