

**USER'S MANUAL** 

# HC20X SERIES



www.NightOwISP.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. 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.



#### Night Owl's HC20X Series Camera Compatibility:

Night Owl's HC20X Series DVRs are compatible with most analog cameras (400-900TVL), Night Owl's Analog HD (AHD) and HD Analog (HDA) cameras:

- CM-HDA10W-BU
- CM-20XL-BU
- CM-50XL-BU

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 CL2 UL Rated 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.

| Before setting up your system, you MUST update your DVR's firmware. Please follow these steps:  |
|---|
| 1 Connect one end of the included Ethernet cable into the LAN port on the back of your DVR. Connect the other end into your Modem/Router to establish an Internet connection. |
| Next, connect the DVR to your TV/Monitor using the provided HDMI cable. If your TV/Monitor does not have an HDMI port, you may use a VGA cable (not provided).                |
| 3 Using the provided DVR power adapter, power on the DVR.   |
| 4 Once the DVR is powered on, the Startup Wizard will begin. Follow the steps within the Startup Wizard to upgrade your system's firmware.                                    |
| NOTE: Your DVR must be connected to the Internet in order to upgrade the firmware.  |

#### **Quick Setup Guide**



Use a QR Code scanner on your Smart Device to scan the QR Code. Scan the QR code to the left to access the Quick Setup Guide for assistance in configuring Night Owl Security system.

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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

# Chapter 1: FCC Warnings

### FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

### **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 in 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.
- Consult the dealer or an experienced radio/TV technician for help.



### **CAUTION!**

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

# **CHAPTER 2** SAFETY INSTRUCTIONS

# 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 reduce 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 on any hard surface, 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.

### **CAUTION!**



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

# **CHAPTER 3** SPECIFICATIONS

## Chapter 3: Specifications

### 3.1 System Requirements

#### Please be sure that your PC/MAC<sup>®</sup> complies with the following specifications:

- PC Operating System: Windows<sup>®</sup> 10 and above
- MAC Operating System: MAC OS X<sup>®</sup> 10.9 and above

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

- Android<sup>™</sup>: 4.2 and above
- iOS<sup>®</sup>: 9 and above

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### 3.2 Package Contents

DISCLAIMER: Package contents vary by model number, please refer to your Quick Setup Guide for a complete list of contents.



**NOTE:** For best results, use the included Night Owl accessories. Third party accessories may not work properly.

Once you have downloaded Night Owl Connect 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.



Images used are for reference only. Your product may vary slightly depending on your model number.

- Video Inputs Allows for the connection of BNC wired cameras. Wireless cameras connect to the DVR's built-in Wi-Fi.
- 2 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. NOTE: Preferred method.
- **3** Audio Output Allows for the connection of an amplified speaker using an RCA connector.
- 4 Audio Input Allows 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 interface. (VGA Cable not included)
- 5 VGA Output Allows for the video connection. If the TV/Monitor has a VGA input, connect the VGA cable from the VGA output port on the DVR to the VGA input port on your TV/Monitor. (VGA Cable not included. VGA Port not available on all models.)
- **USB Ports** Allows 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.
- **7 RJ-45 (Ethernet) Port** Used to connect the DVR to your router/modem via the included Ethernet cable.
- 8 **Power Input** Used to connect the included 12V DC power supply.
- **9** Hybrid DVR Antenna Mount For installation of two included antennas.



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#### 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 Right-Click Menu at the bottom of the screen. Right-clicking again will hide the Right-Click Menu.

#### 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.

# **CHAPTER 4** CAMERA INSTALLATION

## Chapter 4: Camera Installation



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



Locate an included power splitter.

### Power Splitter



- 2 Connect the power splitter to the remaining DC power connectors (red) of the cables.
- 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.





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 at their final locations.



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

#### • 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 160 ft. as the power level will drop over extended distances resulting in video degradation.

• **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 nor should the camera be placed so that the sun or bright light shines 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.

#### Follow these instructions to correctly install your cameras.

- 1 Locate a camera and choose a location where you would like to mount the camera.
- 2 Indicate screw positions by marking three holes on the surface where you plan to mount the camera, using the holes in the camera base as a guide.



- 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.
- <sup>5</sup> Line up the camera base holes with the screw anchors. Holding the base in place, insert screws and tighten until secure.



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

# CHAPTER 5 DVR INSTALLATION

# Chapter 5: DVR Installation

### 5.1 Connecting to a TV (via HDMI)





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

DVR



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



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 video cable. For 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



**NOTE:** The camera power adapter and **DVR** power adapter should never be interchanged.



2 Plug the included power adapter cable into the back of the DVR.



Plug the other end of the 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.



# **CHAPTER 6** GETTING STARTED

## Chapter 6: Getting Started

### 6.1 Startup Wizard

When your DVR is powered on it will display the Night Owl logo while initializing.



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

- Complete the basic setup of your DVR.
- Upgrade the firmware.
- Set up the Night Owl Connect app.
- Configure notifications.

- Test your cameras locally.
- Create an Admin password.
- Configure the recording settings.



#### 6.1.1 Camera Test

The Camera Test screen of the Startup Wizard serves as a reminder to test the camera connections to the DVR. If a connected camera displays a "No Signal" message, please visit <u>www.NightOwlSP.com</u> and click on the Support tab.



#### 6.1.2 Network Check

The Network Check screen of the Startup Wizard displays instructions for how to connect your DVR to the Internet. You will need the included Ethernet cable to establish connection, your DVR will not be able to wirelessly connect to your router/modem. Once you have made the required connection using the Ethernet cable, you may click Test within the Startup Wizard to confirm Internet connection.



The Advanced Network Configuration tab is recommended only for advanced users.



Once the internet connection has been established, the Startup Wizard will display a successful connection screen.



If your DVR is not able to establish Internet connectivity, a Connection Failed screen will appear. Follow the instructions on this screen to re-test the network.



If you wish to proceed with the DVR setup without a network connection, you may do so by clicking the box marked, "I do not want to connect to a network."

#### 6.1.3 Firmware Check

The Firmware Check screen of the Startup Wizard will automatically check for updated firmware for your DVR.



#### **NOTE:** If your DVR does not have a network connection, the firmware will not update.

If a firmware upgrade is detected, the startup wizard will display the screen below. Please select "Upgrade" to download and install the new upgrade to your system.



Once prompted, the DVR will begin updating and when complete the DVR will restart automatically. This process could take up to 10 minutes, please be patient.

#### **NOTE:** Do NOT turn off your DVR or disconnect it from the Internet while the system is upgrading.

When the firmware for your DVR is updated to the most current version, the Startup Wizard will display the below screen.



#### 6.1.4 Password Creation

The Password Creation screen of the Startup Wizard requires you to create an admin password for your DVR system. Night Owl strongly suggests that you write down your admin password on page 5 of the Quick Setup Guide of your DVR, as you will be required to log in any time you want to configure or adjust your system settings.

This screen will also require that you set a recovery email address in the event that your admin password is forgotten.



**NOTE:** You will not be able to complete the Startup Wizard unless a recovery email address is established. To change your recovery email address, you MUST rerun the Startup Wizard.

Simply click on the text box to open the on-screen keyboard. Use this keyboard to create your admin password and to input your recovery email address.



**NOTE:** Forgot the admin password? Click the "Forgot PWD?" tab in the Startup Wizard and a Secure Code will be sent to your recovery email address. Enter the Secure Code when prompted, then create a new password for the DVR. Your DVR MUST be connected to the Internet to receive the secure code.

|                                   |  | Password  | Creation                                   |                                    |                      |
|-----------------------------------|--|---|--|------------------------------------|----------------------|
| Admin                             |  | Secure  | Code                                       |                                    |                      |
| New A<br>New P<br>Confin<br>Passw | An email with t<br>.com, after inpu<br>and you have t<br>Secure Code | he secure was se<br>It the secure code<br>o create a new pa | nt to yournar<br>a, Your DVR v<br>issword. | ne@nightowlsp<br>will be restarted | Admin                |
| (1                                |  |   | ок   | Cancel                             | nd store<br>iet your |
| Forgot P                          | WD?  |   |  | Previous                           | Next                 |

If your DVR is not connected to the Internet, the Secure Code will not be sent to your recovery email address. In this case, the screen below will appear, please follow the instructions to contact Tech Support, an agent will assist you in creating a new password for your DVR.

| Secure Code   |  |
|---|--|
| Please enter the reset code, the DVR will reboot if the reset<br>code is correct,and you will be able to setup new password for<br>this DVR after reboot. |  |
| Secure Code   |  |
| OK Cancel   |  |

#### 6.1.5 Date and Time Setup

The Date and Time Setup screen of the Startup Wizard will allow you to set the current date and time. You may choose to use Network Time Protocol (NTP) to auto-configure the current date and time.

|                            | Date and Time Setup   |  |
|----------------------------|---|--|
| NetWork Time Protocol(NTP) |   |  |
| ServerAddress              | time.nist.gov   |  |
| Time Zone                  | [UTC-05:00]Eastern Time(U.S. and Canada)  |  |
| Date Formal                | DD/MM/YY  |  |
| System Date/System Time    | 07 • 03 • 2017 11 : 29 : 52   |  |
| Daylight Saving Time(DST)  | Enable  |  |
|                            |   |  |
| Sett<br>Prot<br>You        | he current date and time or use Network Time<br>ocol(NTP) to auto-configure.<br>must be connected to the Internet to use NTP. |  |

NOTE: In order to use Network Time Protocol (NTP), your DVR must be connected to the Internet.

#### 6.1.6 Night Owl Connect App

The Night Owl Startup Wizard gives you information on where to find the Night Owl Connect App and how it can be used to remotely view your DVR recordings and live stream.

Follow the next steps to create your Night Owl Connect account.



Once you have installed the Night Owl Connect App on your smart device and created an account, you can scan the QR code on the Startup Wizard to configure your DVR with the Night Owl Connect App!

Night Owl recommends using the same recovery email address that you previously chose in the Startup Wizard when creating your Night Owl Connect account.



**DISCLAIMER:** QR Code within this image is not active. Please scan the QR Code on your TV/Monitor within the Startup Wizard.

**NOTE:** In order to view your system remotely, your DVR must be connected to the Internet.

Please follow the next steps for creating and using your Night Owl Connect account.

#### **Download and Install Application**

1 Download the appropriate app from the *App Store* or *Google Play Store* and install the application on your device.









#### **NOTE:** Setup is the same for Smartphone and Tablet.

Create an account using an email address for the username and a password between 6–20 characters.

3 After completing the account setup and verification process, sign into the app and tap the "+" symbol to add a device.

The Night Owl Application will lead you through the rest of the setup process.

#### **Connecting and Adding your Device**

#### **NOTE:** When adding a new device, it may take 5–10 minutes before you begin receiving notifications.

A device can be added to the Night Owl Connect App by using the application's **Smart Auto Detection** or through a **QR Code Setup**. With Smart Auto Detection, your DVR will automatically be detected by the Night Owl Connect software, making connecting easy! To use this preferred method, ensure your Smart Device and DVR are both on the same network.



#### 4 Adding a Device

To begin adding a new device, first select the yellow plus sign within the Device menu. Then select your device type from the Device list and follow the on screen instructions.

#### 4 Smart Auto Detection

If your DVR and Smart Device are running Night Owl Connect on the same network, the Smart Auto Detection will find your DVR. If this method is not available, please use the QR Code Setup from step 4B below.

#### QR Code Setup

**4**B

To use the QR Code Setup, select Setup device by QR Code within the Night Owl Connect App, and hover your Smart Device camera lens over the QR Code located on the top of your DVR.





#### Login to your App

**5** On the Device Login screen, enter the login information for the DVR (Remember, the DVR login and Night Owl Connect App login are different). The DVR username is **admin** by default. If you are not the **admin**, login with your username credentials.





Manage account settings, add a shared device, and change password.

Live View Displays real-time footage of your system.

to your DVR.

#### 6.1.7 Password Verification

The Password Verification screen of the Startup Wizard will display your Admin password. Night Owl strongly recommends writing down your password within the Quick Setup Guide of your DVR.



#### 6.1.8 Camera/Channel Settings

The Camera/Channel Settings screen of the Startup Wizard serves as a reminder to mount your system's cameras in the final position so you can make accurate adjustments to positioning, detection area and channel sensitivity.



#### 6.1.9 Camera Positioning

The Camera Positioning screen of the Startup Wizard shows how you can use the Live View feature of the Night Owl Connect App to easily adjust your cameras' position and viewing angle.



**NOTE:** The "Live View" feature in the Night Owl Connect App allows you to gauge the position and viewing angle of your cameras before mounting. You still have to physically adjust the cameras.

#### 6.1.10 Channel Configuration

The Channel Configuration screen of the Startup Wizard explains in detail how you will configure your Channel Settings. Please read this screen thoroughly as the following screen will allow you to configure Channel Settings for each channel connected to a working camera.





The second Channel Configuration screen of the Startup Wizard allows you to configure the following channel settings:

- Edit channel name.
- 2 Turn on/off alarm (push notifications).
- 3 Define motion detection area.
- 4 Adjust motion sensitivity.
- 5 Configure channel recording schedule:
  - **5a 24/7 Motion** Channel records when motion is detected.
  - **24/7 Continuous** Channel records non-stop during selected times.
  - **Custom Schedule** You define the recording modes, dates and times.

NOTE: If you select Custom Schedule, but do not edit all active channels, the unedited channels will default to 24/7 recording.
# 6.1.11 Default View

The Default View screen of the Startup Wizard allows you to select the default view of the monitor connected to your DVR. You may select several viewing options from the drop-down menu:



- 1\*1 channels on-screen.
- 2\*2 channels on-screen.
- 3\*3 channels on-screen.
- 8 channels on-screen (if applicable).

#### **NOTE:** Please scan these QR Codes directly from your TV/Monitor, NOT directly from this page.



The Helpful Links and Support screen of the Startup Wizard contains QR codes linked to:

- DVR Troubleshooting Guide
- PC/MAC<sup>®</sup> software download page
- DVR Support page
- Remote Viewing Support page

For more information, visit <u>www.NightOwISP.com</u> and click the Support tab at the top of the page.

#### 6.1.13 Wizard Complete

Once you have successfully completed the Startup Wizard, click Finish to begin using your Night Owl DVR.



# 6.2 Displays and Icons

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

#### 6.2.1 Login Screen

Any time you want to configure or adjust your system settings you will be required to login 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.

| Login       |       |        |  |  |  |  |  |  |  |
|-------------|-------|--------|--|--|--|--|--|--|--|
| User Name   | admin |        |  |  |  |  |  |  |  |
| Password    |       |        |  |  |  |  |  |  |  |
|             |       |        |  |  |  |  |  |  |  |
|             |       |        |  |  |  |  |  |  |  |
| Forgot PWD? | Login | Cancel |  |  |  |  |  |  |  |

User Name: Enter the Username 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 between 6 and 20 characters.

**Forgot PWD?:** Sends a secure code to your recovery email. Once you input the secure code, you will be able to create a new password. Your DVR MUST be connected to the Internet to receive a secure code. If you do not have Internet connection, follow the instructions on your DVR to call Tech Support, an agent will assist you in creating a new password for you DVR.

# 6.2.2 Live View (All Channels)

Live View is the default screen you will see when viewing all channels on your DVR. You can customize the Live View by selecting Quad, Eight, or Nine channel configuration. In Quad and Nine view mode, double clicking on a channel will display the camera image in full screen; double click the full screen channel to revert to multiple channel view. In Eight view mode, double click on a channel to display in the larger screen within the Eight view screen; double clicking the larger screen turns that channel into full screen view. Double click again to revert to Eight view mode.



- **Date and Time:** Current date and time of the system.
- 2 Channel Name: On screen display of channel name.
- **OVR Status Recording Icon:** Indicates that your DVR is currently recording video from this camera. This icon will be the same whether the recording was scheduled, initiated manually or triggered by motion.
- **Speaker Icon:** Allows you to enable or disable audio streamed from an audio enabled camera.
- 6 Motion Detection Icon: Indicates that an alarm event such as motion detection, video loss or tampering has occurred.
- 6 **Refresh Icon:** Auto detection of camera formatting. By double clicking on this icon, you can change the format from CVI to AHD to TVI. This would allow the DVR to have different types of cameras connected at once.
- **7** Question Mark: Shown when there is no signal to that particular channel.
- **Video Loss Icon:** Indicates that the specific channel has lost the feed from the corresponding camera. This may be caused by a disconnected/damaged cable, the camera may have lost power or the camera may have been de-registered from the channel. This also appears if you do not have a camera connected to the channel.

9 Human Detection Icon: Indicates that an alarm event due to human activity has taken place.

**10** Night Owl Logo: Indicates that the coaxial transmission protocols are operating.



- **Main Menu:** Access the main menu to configure or adjust settings. Be sure to store your username and password in a safe location. You will need this information to access the main menu.
- **2** Lock Screen: Manually locks or unlocks screen. Once the screen is locked, you will need to enter your username and password to gain access.
- **Startup Wizard:** Prompts the Startup Wizard to begin Startup Configuration.
- **Quad View:** 4 channel viewing layout.
- **8-Channel View:** 8 channel viewing layout.
- **9-Channel View:** 9 channel viewing layout.
- 7 Auto Sequence: Start/Stop the slide show sequence of each channel.
- **8** Audio: Adjust the volume of the audio streaming from an audio enabled camera or audio input.
- **PTZ:** Open the Pan, Tilt, Zoom (PTZ) menu. This function will only work when a PTZ camera is connected to your DVR.
- **Playback:** Access the recording/playback menu and functions.
- **10** Light: Manage individual light control settings for each camera.

# 6.2.3 (a) Light Menu

For cameras with spotlights, use this sub menu to adjust the settings of the light.



**On - All Bubble:** Turns on the spotlight(s) for camera(s) with this feature that are connected to the DVR.

**On - Ch.1 - Ch.8 Bubble(s):** Activates the spotlight for the spotlight camera connected to the selected channel.

Off - All Bubble: Turns off the spotlight for all spotlight cameras connected to the DVR.

Off - Ch.1 - Ch.8 Bubble(s): Turns off the spotlight for the spotlight camera connected to the selected channel.

**DelayTime:** Determines the amount of time the spotlight will be on/active when manually turned on from the Light Menu.

Maximum DelayTime: The maximum DelayTime is 5 minutes, or 300 seconds.

**Minimum DelayTime:** The minimum DelayTime is 5 seconds.

Access the main menu by selecting the Menu Icon on the Live View bar.



Within the menus, you will be able to access settings and parameters for all aspects of your DVR system.



- **General Menu:** Configure display and network.
- **2 Cameras Menu:** Access channel display, color settings, encode settings and motion record settings.
- **Record Menu:** Setup or modify general recording, triggered events and recording settings. Access recordings playback.
- **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

# 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 drop-down box (Copy), then select the channel you would like to copy the information to from the second drop-down box (To). Click Copy when the proper channels have been chosen.

| General       Cameras       Record       Device       System       Advanced         Wireless       Channel       CH1       Motion Detection Enable       Light       PIR       Human Detect       Set         Settings       Sensitivity       Highest       Pirk       Human Detect       Set         Post Record       30       seconds       Push Interval       30       seconds         Write Log       Push       Record Channel       Record Channel       Record Channel       Record Channel         Copy       CH1       To       All       Copy       CH1       To       Advanced         Copy       CH1       To       All       Copy       CH1       To       Advanced         Copy       CH1       To       All       Copy       CH1       Copy       CH1       Copy         Copy       CH1       To       All       Copy       CH1       Copy   | <i>C</i> 6   | <u></u>  | Q                     |          | 5                | 2        |  |  |
|--|--|--|-----------------------|----------|------------------|----------|--|--|
| Wireless       Channel       CH1         Settings       Sensitivity       Highest       Human Detect         Encode       Post Record       30       seconds         Motion       Notification Schedule       Set       Push Interval       30       seconds         Motion       Wirte Log       Push       Push       Copy       CH1       To       All       Copy         Copy       CH1       To       All       Copy       CH1       To       All       Copy         Copy       CH1       To       All       Copy       CH1       To       All       Copy         Copy       CH1       To       All       Copy       CH1       To       All       Copy         Copy       CH1       To       All       Copy       CH1       To       All       Copy         Copy       CH1       To       All       Copy       Channel       Copy       Advanced         Wireless       Channel       CH1       To       All       Copy       Advanced         Wireless       Channel       CH1       PIR       Human Detect       Set         Settings       Sensitivity       Highest   | General  | Cameras F  | Record                | Device   | System           | Advanced |  |  |
| Settings<br>Sensitivity<br>Area<br>Post Record<br>Write Log<br>Push<br>Record Channel<br>Copy<br>Chi<br>Copy<br>CHI<br>To All<br>Cancel<br>Apply<br>Default<br>OK<br>Cancel<br>Apply<br>Default<br>OK<br>Cancel<br>Apply<br>Copy<br>CHI<br>Cancel<br>Copy<br>CHI<br>Cancel<br>Copy<br>CHI<br>Cancel<br>Copy<br>CHI<br>Cancel<br>Copy<br>CHI<br>Copy<br>CHI<br>Cancel<br>Apply<br>Copy<br>CHI<br>Cancel<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>CHI<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy<br>Copy | 🔶 Wireless   | Channel<br>Motion Detection Enab                     | CH1<br>le 📝 Light     |          | ıman Detect 🔽    |          |  |  |
| Encode   Post Record 30   Set Push Interval   Wotion Write Log   Push Push   Record Channel   A Channels   Copy   CH1   To   All   Copy   CH1   To   All   Cameras   Record   Device   System   Advanced   Wireless   Channel   Cameras   Record   Device   System   Advanced   Wireless   Channel   Channel   Channel   Channel   Channel   Channel   Channel   Cameras   Record   Device   System   Advanced   Wireless   Channel  |  | Sensitivity  | Highest               |          |                  |          |  |  |
| Motion       Notification Schedule       Set       Push Interval 30 seconds         Write Log       Push       Record Channel       Push         Image: Copy       CH1       To       All       Copy         Copy       CH1       To       All       Copy         Default       OK       Cancel       Apply         Image: Comparison of the construction of the   | 🖸 Encode   | Post Record  | 30 sec                | onds     |                  |          |  |  |
| Copy       CH1       To       All       Copy         Default       OK       Cancel       Apply         Cameras       Record       Device       System       Advanced         Settings       Cameras       Record       Device       System       Advanced         Settings       Channel       CH1       PIR       Human Detect       Advanced         Settings       Settings       Settings       Set       Push Interval       30       seconds         Motion       Write Log       Push       Record Channel       Motion       To       Advanced         Motion       Write Log       Push       Record Channel       Motion       To       Advanced   | ♀ Motion   | Notification Schedule<br>Write Log<br>Record Channel | Set<br>Push           | Pu       | sh Interval 30 s | econds   |  |  |
| Default OK Cancel Apply  |  | Сору   | CH1                   | To AI    |                  | Сору     |  |  |
| General Cameras   Cameras Record   Device System   Advanced   Wireless Channel   Motion Detection Enable Light   PIR Human Detect   Settings Sensitivity   Highest Area   Post Record 30 seconds   Notification Schedule Set   Push Interval 30 seconds   Write Log Push   Motion Channel   Channel 2 3 4 5 6 7 8 102324   |  |  |                       | Default  | OK Cance         | Apply    |  |  |
| Wireless       Channel       CH1         Settings       Sensitivity       Light       PIR         Encode       Sensitivity       Highest         Post Record       30       seconds         Notification Schedule       Set       Push Interval       30         Write Log       Push       Record Channel       12       34       6       7       8       12       23       4       6       7       8       12       23       4       5       7       8       12       23       4       5       7       8       12       2       1  | General  | Cameras F  | Record                | Device   | System           | Advanced |  |  |
| Motion Detection Enable       Light       PIR       Human Detect         Sensitivity       Highest       Image: Constraint of the sensitivity         Area       Set         Post Record       30 seconds         Notification Schedule       Set         Write Log       Push         Record Channel       Channels         12345678002314  | 🤶 Wireless   | Channel  | CH1                   |          |                  |          |  |  |
| Area Set<br>Post Record 30 seconds<br>Notification Schedule Set Push Interval 30 seconds<br>Write Log Push<br>Record Channel<br>All Channels 1234567801020304  | ☐ Settings   | Motion Detection Enab<br>Sensitivity                 | le 📝 Light<br>Highest | PIR 🗭 Hu | man Detect 🔽     |          |  |  |
| Otification Schedule     Set     Push Interval     30     seconds       Write Log     Push       Record Channel       All Channels       123456780020304   | 🖂 Encode   | Area<br>Post Record                                  | Set<br>30 sec         | onds     |                  |          |  |  |
| Copy CH1 To All Copy   | Motion Notification Schedule Set Push Interval 30 seconds<br>Write Log Push<br>Record Channel<br>All Channels 1234567801020304<br>Copy CH1 To All Copy |  |                       |          |                  |          |  |  |
| Default OK Cancel Apply  |  |  |                       | Default  | OK Cance         | Apply    |  |  |



Be sure to click "Apply" 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 and network settings for your DVR system.

# 7.1.1 Display



**Slide Show:** By default, checking the box for Slide Show activates all views. To remove a view, deselect the box and/or boxes next to the view you want removed.

**Slide Show Time:** Adjust the length of time that each channel is displayed during the 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.

View 1: This is the full screen slide show setting. Select the number of channels to include in the slide show sequence.

**View 4:** This is the Quad View slide show setting. Select the number of slides based on the number of channels you are using. One slide will show 4 channels.

**View 8:** This is the 8-View slide show setting. Select the slide based on which channel you would like to feature on the maximized view.

View 9: This is the 9-View slide show setting.

**VGA/HDMI Resolution:** Optimize the display resolution to best fit your TV/Monitor. By default the DVR will select a resolution of 1920 x 1080. **NOTE: Do NOT select a resolution size larger than your TV/Monitor can accommodate.** 

**Transparency:** Modify the menu transparency when displayed on the screen.

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 your Modem/Router and Internet connection is established. The values in this section should only be adjusted if you are an advanced user and have extensive experience in device networking.

| 4         | <b>0</b>         |           |       |        |          | 3      | <b>;</b> |
|-----------|------------------|-----------|-------|--------|----------|--------|----------|
| General   | Cameras          | Record    |       | Device | Sys      | stem   | Advanced |
| Oisplay   | DHCP Enable      | Static IP |       |        |          |        |          |
| 显 Network | Web Port         | 80        |       |        |          |        |          |
| 뤔 DDNS    |                  |           |       |        |          |        |          |
|           | IP Address       | 000 . 000 | . 000 | . 000  | ר        |        |          |
|           | Subnet Mask      | 255 . 255 | . 255 | . 0    | <u>j</u> |        |          |
|           | Gateway          | 000 . 000 | . 000 | . 0    | 5        |        |          |
|           | DNS1             | 0.0       | . 0   | . 0    |          |        |          |
|           | DNS2             | 0.0       | . 0   | . 0    |          |        |          |
|           | Wireless Channel | S         |       |        |          |        |          |
|           |                  |           |       |        | ок       | Cancel | Apply    |

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

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

**Web Port:** Allows access to your DVR with your computer through your LAN or the Internet. In most cases the default value of 80 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.

Wireless Channels: Alter wireless channel quantity and Region. This is not recommended for modification.

# 7.1.3 DDNS

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

Please visit www.NightOwIDVR.com to register for your free domain name (DNS).



Enable: Allows you to enable or disable the use of DDNS protocol.

Server: When using the Night Owl free domain name server, you must configure this setting to NIGHTOWL.

**Domain Name:** Input the domain name you created by registering your DDNS at www.NightOwIDVR.com.

User Name: Input the UserID created during the DDNS registration.

**Password:** Input the password created during the DDNS registration.

# 7.2 Cameras Menu

Adjust or modify individual camera settings connected to your DVR.

#### 7.2.1 Wireless



Wireless Device List: Set display options for each channel.

- Channel (D1 D4): Wireless channel on current device.
- Channel Name: Named channels on current device.
- **Connection Status:** Either *Connected*, *Disconnected*, or *Not Enrolled*.
- Signal Strength: Connected devices signal strength.
- IP: Internet Protocol Address.
- Version: Displays connected devices current version.

# To Add a Wireless Camera to the Hybrid:





#### 2 Click on "Next".

|       | 4                 |  |   |  |                                       |                                     | 12-2  | 21-2018 16:08:03 Fr |      |
|-------|-------------------|--|---|--|---------------------------------------|-------------------------------------|-------|---------------------|------|
| CAM01 | General           | Cameras                                    | Record  | Device   | System                                | Advanc                              | ed    |                     |      |
|       | <b>╤</b> Wireless | Wireless Devi                              | ice List  |  |                                       |                                     |       | 0.                  |      |
|       | Settings          | Channel<br>D1<br>D2                        | ChannelName<br>D1<br>D2   | Connection Status<br>Enrolled<br>Enrolled                  | Signal Strength<br>-17 dBm<br>-14 dBm | IP<br>000.00.00.00<br>000.00.00.000 | 2.7.6 |                     | N.V. |
| CAMOS | Encode            | D3<br>D4                                   | •   | Not Enrolled<br>Not Enrolled                               | •                                     | -                                   |       |                     |      |
|       | 오 Motion          | Stop! Make<br>clicking "Ne<br>- Power up   | Adding Camera Process Stop! Make sure you have completed the following steps before clicking "Next": - Power up the wireless cameras; |  |                                       |                                     |       | +                   |      |
|       |                   | a channel;<br>• Wireless o<br>hold the res | amera(s) MUST<br>et button on the   | be in pairing mode (T<br>back of the camera for<br>xt Exit | Ex                                    | it                                  |       |                     |      |

# 3 Click on "Add".

| CAMDI                     | General           | Cameras     | Record      | Device            | System          | Advance       | 12:   | 21-2018 16:07:37 Fr |        |
|---------------------------|-------------------|-------------|-------------|-------------------|-----------------|---------------|-------|---------------------|--------|
|                           | <b>?</b> ₩ireless | Wireless De | vice List   |                   |                 |               |       | 00                  |        |
|                           |                   | Channel     | ChannelName | Connection Status | Signal Strength | IP            |       |                     | 200    |
|                           | Settings          | D1          | D1          | Enrolled          | -16 dBm         | 000.00.00.00  | 2.7.6 |                     | 8-1-5- |
| A DE A                    | -                 | D2          | D2          | Enrolled          | -14 dBm         | 000.00.00.000 | 2.7.6 |                     |        |
| 14                        |                   | D3          |             | Not Enrolled      |                 |               |       | Co E A              | 1      |
| CAM05                     | Elicode           | D4          |             | Not Enrolled      |                 |               |       |                     |        |
| Contraction of the second | O Motion          |             |             |                   |                 |               |       |                     |        |
|                           | O Motion          |             | il<br>Add   | Delete            | Firmwa          | re Check      |       | +                   |        |
|                           |                   |             |             |                   |                 | Exi           | it    |                     |        |

It may take several minutes for the cameras to be found by the DVR.

|       |                   |               |  |                               | 2                          |                    | 12-21-2 | 018 16:08:11 F | Fri |
|-------|-------------------|---------------|--|-------------------------------|----------------------------|--------------------|---------|----------------|-----|
| CAM01 | General           | Cameras       | Record   | Device                        | System                     | Advance            |         |                |     |
|       | <b>∻</b> Wireless | Wireless De   | vice List  |                               |                            |                    |         | 00             | 1   |
|       | Settings          | Channel<br>D1 | ChannelName<br>D1  | Connection Status<br>Enrolled | Signal Strength<br>-16 dBm | IP<br>000.00.00.00 | 2.7.6   | MD.            | 2   |
| CAM05 | 🖸 Encode          | D3<br>D4      | •  | Not Enrolled<br>Not Enrolled  | -15 dBm                    | -                  | 2.1.0   |                |     |
|       | © Motion          | Tal           | Adding Camera Take a few moments to relax while the camera is being added. |                               |                            |                    |         | +              |     |
| DI    |                   | I             |  |                               | nwa                        | are Check          |         |                |     |
|       |                   |               |  | Exit                          |                            |                    |         |                |     |
|       |                   |               |  |                               |                            | Ex                 |         |                |     |

5 Remember, this may take several minutes.

|         |            |             |                  |                          | 2.              |               | 12-21-2018 16: | :09:03 Fri |
|---------|------------|-------------|------------------|--------------------------|-----------------|---------------|----------------|------------|
|         | <b>\$</b>  | 0           |                  |                          | 5               | 5             |                |            |
| CAM01   | General    | Cameras     | Record           | Device                   | System          | Advance       | d              |            |
|         | 중 Wireless | Wireless De | vice List        |                          |                 |               | - (+)          | 10         |
|         |            | Channel     | ChannelName      | Connection Status        | Signal Strength | IP            |                |            |
|         | Settings   | D1          | D1               | Enrolled                 | -17 dBm         | 000.00.00.00  | 2.7.6          |            |
|         |            | D2          | D2               | Enrolled                 | -14 dBm         | 000.00.00.000 | 2.7.6          |            |
|         | Encode     | D3          | D3               | Enrolled                 | -37 dBm         | 000.00.00.000 | 2.7.6          | Colla-     |
| C/AM05  |            | D4          |                  | Not Enrolled             |                 |               |                |            |
| A S AND | O Motion   |             | A                | dding Camera             |                 |               |                |            |
|         | -          | Tal         | ke a few moments | s to relax while the can | nera is         |               |                |            |
|         |            | bei         | ng added.        |                          |                 |               | +              |            |
|         |            |             |                  |                          | nwa             | re Check      |                |            |
| DI      |            |             |                  |                          |                 |               |                |            |
|         |            |             |                  |                          |                 |               |                |            |
|         |            |             |                  | Exit                     |                 |               |                |            |
|         |            |             |                  |                          |                 |               |                |            |
|         |            |             |                  |                          |                 | Ex            | it             |            |
|         |            |             |                  |                          |                 | -             |                |            |
|         |            |             |                  |                          |                 |               |                |            |

6 Click "**OK**" to continue.

| St. 32 |                   |                  | No Al       |                                       | 2      |               | 12-21-201 | 18 16:09:11 Fr | 9 |
|--------|-------------------|------------------|-------------|---------------------------------------|--------|---------------|-----------|----------------|---|
| CAM01  | General           | Cameras          | Record      | Device                                | System | Advance       |           |                |   |
| A      | <b>⇔</b> Wireless | Wireless Device  | List        |                                       |        |               |           | OF             |   |
|        | Settings          | Ct<br>Wo         | Camera Adde | n IP<br>000.00.00.00<br>000.00.00.000 | 2.7.6  |               | N.M.      |                |   |
| CAMOS  | Encode            | added. Good job! |             |                                       |        | 000.00.00.000 | 2.7.6     | 1              |   |
|        | ₩ Motion          |                  | _           | ок                                    |        |               |           | +              |   |
| DI     |                   |                  |             |                                       |        | rare Check    |           |                |   |
|        |                   |                  | E           | Exit                                  |        |               |           |                |   |
|        |                   |                  |             |                                       |        | Ex            | it        |                |   |
|        |                   |                  |             |                                       |        |               |           |                |   |

| General    | Cameras  | Record           | Device         | Sys   | stem        | Advanced |
|------------|--|------------------|----------------|-------|-------------|----------|
| 🔶 Wireless | Channel Title  | Set              |                | _     |             |          |
| Settings   | Time Display<br>Record Status                                  | Channel Alarm St | Title          |       |             |          |
| 🖸 Encode   | Channel  | CH1              |                |       |             |          |
| O Motion   | Region Cover<br>Time Display Position<br>Color Setting<br>Copy | Channel<br>Set   | Title Position | Se 50 | t<br>V Copy | 1        |
|            |  |                  |                | ок    | Cancel      | Apply    |

Channel Title: Set display options for each channel.

- **Time Display:** Time displayed on channel view.
- Channel Title: Display channel name on channel view.
- **Record Status:** Display record status on channel view.
- Alarm Status: Display alarm status on channel view.
- **Bitrate Info:** Display bitrate information on channel view.

**Channel:** Set the channel to edit.

Region Cover: Enable or Disable privacy zones on the selected channel.

**Time Display Position and Channel Title Position:** Check the boxes *Display Time* and *Channel Title* to view the time and channel title on channel view.

**Color Setting:** Click *Set* to access a sub-menu to adjust the colors of the selected channel. In this sub-menu, you can adjust the *Hue, Brightness, Contrast, Grain, Horizontal Sharpness, Vertical Sharpness* and *Saturation* of the image.

# 7.2.3 Encode

View or modify general recording settings for your DVR system.



**NOTE:** Turning on the Spotlight feature requires enabling the "Human Detection," "Motion," and "Light" settings under the Cameras>Motion Settings, within the DVR.

Channel: Select channel to edit.

**Video Compression:** Set the video compression format to optimize transmission bandwidth and storage space on your DVR.

**Resolution:** Choose between 960H (960 x 480), 720p (1280 x 720), 1080p (1920 x 1080), 3MP, 4MP, 5MP, or 8MP resolutions based on your TV or monitor capabilities.

**Frame Rate (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 Type:** 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.

**Quality:** Select the quality of video recording.

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

**I-Frame Interval:** Choose the interval between I-Frames. When the interval is shorter, the video quality is higher, however the video needs more network capacity. When intervals between I-Frames are longer, the video transmission uses less bandwidth, but the video quality is lower.

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

| General         | Cameras Ref   | Cord Device   | System           | Advanced   |
|-----------------|---|---|------------------|------------|
| 🔶 Wireless      | Channel   | СН1 🔽   |                  |            |
| □ Settings      | Motion Detection Enable<br>Sensitivity                  | <ul> <li>Light</li> <li>PIR</li> <li>Highest</li> </ul> | Human Detect 🗹   |            |
| 🖸 Encode        | Area<br>Post Record                                     | Set<br>30 seconds                                       |                  |            |
| <b>Q</b> Motion | Notification Schedule Write Log Record Channel Channels | Set<br>Push   | Push Interval 30 | seconds    |
|                 | Сору  | СН1 ▼ То  | All              | Сору       |
|                 |   | Default   | ОК Са            | ncel Apply |

Channel: Select the channel you want to configure.

**Motion Detection Enable:** When checked, the motion detection feature will be enabled on the selected channel. By default all channels have motion detection enabled.

Light: Toggle between ON and OFF to enable spotlight on the camera during motion detection.

**PIR:** Toggle between ON and OFF for passive infrared sensor (PIR) based motion detection.

Human Detection: Toggle between ON and OFF to enable human motion detection on the camera.

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

**Area:** Clicking *Set* 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 Record:** Set the amount of time to record after motion is detected (between 30 and 300 seconds). This feature also sets the amount of time the spotlight remains on after detecting motion.

Notification Schedule: Set the push notification schedule.

| 0               | set   |  |
|-----------------|---|--|
| Genei           | Wednesday T   |  |
| 🔶 Wirele        | Wednesuay       •         00:00 - 24:00       00:00 - 24:00         00:00 - 24:00       00:00 - 24:00 |  |
| Encoc           | 0 3 6 9 12 15 18 21 24<br>Sun<br>Mon  |  |
| <b>Q</b> Motior | Tue<br>Wed<br>Thu<br>Fri<br>Sat   |  |
|                 | OK Cancel   |  |
|                 | Default OK Cancel Apply   |  |

Set the push notification schedule by following the steps below:

- 1 Select the day you want to configure.
- 2 Configure up to four time spans for which you would like to receive push notifications. Checking the box next to the set time frame will activate the push notification schedule.
- 3 Continue editing by selecting different days from the dropdown menu.
- 4 Click OK, then select Apply on the menu screen to save your settings.

**Push Interval:** Set the timing between each motion detection push notification. Default parameters are configured for optimal use. Adjusting the intervals may result in missed notifications.

Write Log: If checked, this menu option will save a log of every motion detection event.

**PIR:** This option activates Night Owl Smart Detection Technology based on PIR detection. It's enabled by default, disable if you would like to use standard motion detection. To have your DVR record motion beyond the parameters of the PIR technology, you must disable the PIR sensor.

**Push:** *Enable/Disable* your DVR to send push notifications to the Night Owl Connect application when motion detection is triggered.

**Record Channel:** *Enable/Disable* your DVR to send push notifications to the Night Owl Connect application when motion detection is triggered. When motion is detected on the channel being edited, all the cameras selected under *Record Channel* would start recording at the same time.

# 7.3 Record Menu

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

#### 7.3.1 Schedule



Channel: Select the channel to edit recording settings.

**Video Length:** Enter the duration of time to record when motion is detected, between 1 and 120 minutes. When using *Continuous Recording*, the video length will be the time scheduled.

Max Pre-Record: Input the amount of time you would like the DVR to pre-record once an alarm has triggered recording. NOTE: You may choose between 0 and 30 seconds of pre-record. Keep in mind that this is an approximation.

**Record Configuration:** Click and drag to select the scheduled times of continuous and motion/alarm recording. Each square represents one hour of time within that day. Red squares indicate the DVR is set to *Motion Record*. Yellow squares represent the time in which the DVR will continuously record.

**Copy:** Copy record settings to multiple channels.

Default: Revert to factory settings.

**Save:** You must select save once a change has been made. If you do not select save, your changes will revert to previous settings.

#### 7.3.2 (a) Video 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.



**1** Playback Origin: Select the origin of the playback, *it's possible choosing two options:* 

- **Read/Write:** Reading the recording on the HDD.
- Backup Devices: Reading the recording on a external flash drive.
   The recording MUST be exported by the DVR.
- **2** Calendar: Highlighted dates indicate recordings are available for viewing on these days from the selected cameras.
- **3 Camera Selection:** Search for recordings from up to two cameras at a time.
- **Export File Mode:** Switch to export file mode.
- Video Playback Control Pane: You can perform various playback operations such as pause, slow and reverse/forward. You can also clip parts of the video recording and save to external USB storage media. When multiple cameras are being played, the control pane works for the selected camera on the video screen.
- 6 Video Screen: Video recordings are played here when you click Play from the Playback toolbar below. If you have selected more than one camera, the Video screen will appear in a multiview format. You can easily view a particular camera in full-screen by simply double-clicking on the camera's screen. To return to the multiview display, double-click on the screen again.



Right-click within the Video Playback screen and the menu bar shown above will appear. This menu bar will allow you to go back, stop playing, and set to full screen.



- **3** Start/Stop Clipping: Clip interesting parts of the recorded video by clicking *Start Clipping* at the start and *Stop Clipping* at the end.
- **Backup:** Backup video clippings to an external file drive.
- **15 Status:** Indicates the current status of the playback.
- **66** Sync Mode: Show recordings from multiple channels in a single playback timeline.
- **Type of Recording Filter:** Allows filtering based on the type of recording: *Motion* or *Continuous*.
- **18 Timeline Scale:** Modify the video timeline in time period.
- 19 Timeline: Show all the cameras playback recording video during the selected time.

# 7.3.3 Exporting Recordings

To export a Recording, once you have selected a specific date, switch to Export Recording Mode by clicking the Export File icon.



A list of all recordings will show in the navigation panel. You can play the video on the video screen before exporting. Play the video on the video screen, before exporting, by double clicking the video segment you want to watch.

After selecting the videos that you would like to export, click the Backup icon.



#### The backup Dialog:

| 1 | Name(Type)       | Remaining /Total  | Device | Refresh |
|---|------------------|-------------------|--------|---------|
| 1 | 🗹 sdb1(USB DISK) | 14.84 GB/14.90 GB | Null   |         |
|   |                  |                   |        | Backup  |
|   |                  |                   |        | Burn    |
|   |                  |                   |        | Format  |
|   |                  |                   |        |         |
|   |                  |                   |        |         |
|   |                  |                   |        |         |
|   |                  |                   |        |         |
|   |                  |                   |        |         |
|   |                  |                   |        |         |
|   | (ji              |                   |        | Cancel  |

- **Refresh:** Will search for USB storage devices plugged into the DVR.
- **Backup:** Export the recording videos.
- **Burn:** Start recording the live view video in the selected flash drive.
- **Format:** Format the selected flash drive.

**NOTE:** This option will delete all data from your flash drive.

|             |          |               | Ba         | ckup     |      |             |         |
|-------------|----------|---------------|------------|----------|------|-------------|---------|
| Recording   | All      |               | Read/Writ  | e 🔻      |      |             |         |
| Channel     | 1        |               |            |          |      |             |         |
| Start Time  | 108      | 3 - 02 - 2018 | 3 00 : 00  | 00:00    |      | Remove      |         |
| End Time    | 108      | 8 - 02 - 2018 | 3 16:26    | 5:38     |      | Add         |         |
| 1 🗌 C       | hannel   | Date          | Start Time | End Time | Туре | Stream      | Length  |
| 1 🗹 0       | 1        | 2018-08-01    | 11:41:44   | 11:42:21 | М    | Main Stream | 2.07 MB |
| Required/ A | vailable | e:2.07 MB/1.0 | 0 KB       |          |      |             |         |
|             | Pac      | kup format    |            |          | -    | Start       | Cancel  |

Recording: Recording Options: Motion Detection (MD), Manual, General, Alarm/MD, and All.

Channel: The channel to export recordings.

Start Time: Date/Time to start searching for recordings.

**End Time:** Date/Time to end the search for recordings.

Add: Shows the recordings. Prompts the menu to display video recordings within the set search parameters.

**Remove:** Delete the recording from the search.

**Backup Format:** The type of format used to backup your recordings. Standard format is MP4 and should be set to default. H26X should **ONLY** be selected if the firmware supports it. Please refer to system specifications.

# 7.4 Device Menu

#### 7.4.1 HDD

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

| General | Cam  | P    | R       | Record         | m<br>Devic | e<br>.e | System            | Advanced |
|---------|------|------|---------|----------------|------------|---------|-------------------|----------|
| 🚑 HDD   |      |      | Туре    | Total          |            | Free    | Status            |          |
|         | All  |      |         | 931.51 GB      | 0.0        | 00 MB   |                   |          |
| PTZ     | 2-1* | Read | M/Write | 931.51 GB      | 0.0        | 00 MB   | Normal            |          |
|         |      |      | F       | Format Storage | ;          | Viev    | w Recording Times | Cancel   |

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

View Recording Times: Shows recordings that are on your HDD.

**View Type and Capacity:** Shows total storage being used and available space on your HDD. Also shows the type and status of recording. Also shows the type and status of the DVR's HDD. If the status does not say Normal, please restart your DVR. If the status does not return to Normal after restarting, you may need to replace your HDD.

# 7.4.2 PTZ

## 7.4.2 (a) Using Control Method RS485

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

| General | Cameras        | Record     | Device | (  | iystem | Advanced |
|---------|----------------|------------|--------|----|--------|----------|
|         |                | PT7 Dauiga |        |    |        |          |
|         | Channel        | CH1        |        |    |        |          |
| ₽TZ     | Control method | итс        |        |    |        |          |
|         | Protocol       | PELCOD     |        |    |        |          |
|         | Address        | 1          |        |    |        |          |
|         | Baudrate       | 9600       |        |    |        |          |
|         | Data Bits      | 8          |        |    |        |          |
|         | Stop Bits      | 1          |        |    |        |          |
|         | Parity         | None       |        |    |        |          |
|         |                |            |        |    |        |          |
|         |                |            |        |    |        |          |
|         |                |            |        |    |        |          |
|         |                |            |        |    |        |          |
|         |                |            |        | ок | Cancel | Apply    |

**Channel:** Choose the channel with a PTZ enabled camera. Not all cameras are PTZ enabled.

**Protocol:** Is the type of PTZ data protocol that the DVR will use to control the PTZ cameras. The Default Value for Night Owl's PTZ camera is *PelcoD*.

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

**Baudrate:** Indicate 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.

# 7.4.2 (b) Using Control Method UTC (Up-The-Coax)

If you are connecting a PTZ camera that utilizes UTC (Up-the-Coax) technology and does not require the use of the RS-485 port, you will need to change the control method for the channel the PTZ is connected to. As the PTZ camera and DVR will communicate via the BNC Video/Power cable, you will need to change the control method to UTC. To do so, login to your DVR and the follow these steps:



- Select Device.
- 2 Select PTZ.
- 3 Select UTC from the drop-down for Control method.
- 4 Select Apply.

# 7.5 System Menu

#### 7.5.1 General

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

| General   | Cameras                      | Record             | Device   |          | Sys | .tem   | Advanced |
|-----------|------------------------------|--------------------|----------|----------|-----|--------|----------|
| 🖸 General | System Time                  | 08 - 03 - 2018     | 09:22:08 | 3        |     |        |          |
| 🕹 Users   | Date Format                  | MM/DD/YY<br>-      |          | ST<br>TP |     |        |          |
| 💿 Info    | Time Format<br>Language      | 24-HOUR<br>ENGLISH |          |          |     |        |          |
| 💾 Log     | Storage Full<br>Video Format | Overwrite<br>NTSC  |          |          |     |        |          |
|           | Menu Timeouts                | 1                  | minutes  |          |     |        |          |
|           |                              |                    |          |          |     |        |          |
|           |                              |                    |          |          |     |        |          |
|           |                              |                    |          | Oł       | (   | Cancel | Apply    |

Basic system configuration.

System Time: Manually set the date and time of your DVR.

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

Date Separator: Choose the format of date display.

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

Language: Pick between ENGLISH, SPANISH or FRENCH language preferences.

**Storage Full:** Choose Overwrite if you would like your DVR to write over old recordings when the HDD is full. Choose Stop Record if you would like your DVR to stop recording when the HDD is full.

**Video Format:** NTSC or PAL formats are available to choose from. NTSC is the standard for video in North America and is the DVR's default setting. Prior to changing the video format, make sure that your TV/Monitor is *PALL* compatible.

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

**NTP:** Select to change the NTP server.

# 7.5.1 (a) DST

Configure Daylight Savings Time settings.



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

Week Day - Date: 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.

# 7.5.1 (b) NTP

Configure National Time Protocol.



Server Address: Select the server that the DVR will use.

Create and modify user's permissions.



**Modify User:** Select an existing user from the list to change the *Username, Enable* or *Disable* password access and modify permissions.

**Modify Group:** Select an existing group from the list to change the *Group Name*, *Enable* or *Disable* password access and modify permissions.

Modify PWD: Modify password.

Add User: Add a new user.

Add Group: Add a new group.

Delete User: Remove user.

Delete Group: Remove group.

**Refresh:** Restore User/Group settings to factory default.

Modify Email: Edit the email address used for password recovery.



User Name: Create the new user's User Name.

**Password:** Set the password for the new user.

**Confirm Password:** Re-input the set password for the new user.

Memo: Optional description of the new user account.

Group: Select a group to administer authority parameters.

Authority: Customize DVR authorities for the selected Group.

# 7.5.3 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 Connect App to quickly reconfigure your mobile device via our Owl Scan feature.

| General   | Cameras              | Record          | Device            | System    | Advanced |  |  |  |
|-----------|----------------------|-----------------|-------------------|-----------|----------|--|--|--|
| 🤠 General | Hardware Version     | V4.03.R11.85099 | 921B.12202.042300 | 0.0000005 |          |  |  |  |
| 2) Users  | Device Name<br>Model | DVRH-C20X-81    |                   |           |          |  |  |  |
| 🛃 Info    | UID                  | AB0CD1E2FG3     | HIJKL456M         |           |          |  |  |  |
| Log       | SSID                 | NVR1ab2c3456    | 37de              |           | 55<br>64 |  |  |  |
|           |                      |                 |                   |           | ок       |  |  |  |

**DISCLAIMER:** The QR Code within this image is not active. Please use a QR Code Scanner on your Smart Device to scan the QR Code on your DVR's menu screen.

Hardware Version: The current hardware version of your DVR.

Firmware Version: The current software version of you DVR.

Device Name: Product model number of your DVR.

**Model:** Product model number of your DVR.

**UID:** Your DVR's unique identifier.

**SSID:** Service Set Identifier or your DVR.

Search for logs of all events and notifications on the DVR.

| General   | Cameras      | Record          | Device             | System                      | Advanced   |  |
|-----------|--------------|-----------------|--------------------|-----------------------------|------------|--|
| 🔅 General | Туре         | All             |                    |                             |            |  |
| -         | Start Time   | 09 - 08 - 2017  | 00 : 00 : 00       |                             | Pre Page   |  |
| A. Users  | End Time     | 09 - 08 - 2017  | 23 : 00 : 00       |                             | Next Page  |  |
| n Info    | 128 Log Time |                 | Туре               | Log                         |            |  |
| E0 1110   | 119 09-0     | 8-2017 10:53:02 | Alarm Stop         | Motion Detection, C         | hannel 1   |  |
| 60 ·      | 120 09-0     | 8-2017 10:54:32 | Alarm Start        | Motion Detection, C         | hannel 1   |  |
| Log       | 121 09-0     | 8-2017 10:54:32 | Alarm Stop         | Motion Detection, Channel 1 |            |  |
|           | 122 09-0     | 8-2017 10:54:41 | Log Out            | admin <gui></gui>           |            |  |
|           | 123 09-0     | 8-2017 10:54:41 | Log In             | admin <gui></gui>           |            |  |
|           | 124 09-0     | 8-2017 10:54:42 | Set Time           | 2017-08-09 10:54:42         |            |  |
|           | 125 09-0     | 8-2017 10:55:03 | Alarm Start        | Motion Detection, C         | hannel 1   |  |
|           | 126 09-0     | 8-2017 10:55:04 | Alarm Stop         | Motion Detection, C         | hannel 1   |  |
|           | 127 09-0     | 8-2017 10:55:15 | Save Configuration | Tour                        |            |  |
|           | 128 09-0     | 8-2017 11:06:45 | Alarm Start        | Motion Detection, C         | hannel 1   |  |
|           |              |                 | lli                |                             | =          |  |
|           |              |                 |                    | Search Cle                  | ear Cancel |  |

**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.

Start Time: Choose the initial date of your log search period.

**End Time:** Choose the end date of your log search period.

Previous Page: Select to move backward through the search log.

Next Page: Select to move forward through the search log.
#### 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.

| 4              | 0              | 2               |           |    |        | <b>;;;</b> |
|----------------|----------------|-----------------|-----------|----|--------|------------|
| General        | Cameras        | Record          | Device    | s  | System | Advanced   |
| 을 Maintain     | Reboot Every S | aturday 🔽 at    | 00:00     |    |        |            |
| ≟ Events       | Load D         | efault Shutdowr | Load/Save |    |        |            |
| 📑 Auto Upgrade |                |                 |           |    |        |            |
|                |                |                 |           |    |        |            |
|                |                |                 |           |    |        |            |
|                |                |                 |           |    |        |            |
|                |                |                 |           |    |        |            |
|                |                |                 |           |    |        |            |
|                |                |                 |           | ок | Cancel | Apply      |

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

**Auto Delete Old Files:** Set whether you would like the DVR to automatically delete old files. This option is like the Overwrite option, however this allows you to customize the time period in which the HDD will automatically delete old recordings.

Load Default: Revert to the standard reboot schedule.

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

**Load/Save:** Load previously saved settings from a USB flash drive. Export logs and DVR configuration settings to a USB flash drive for future use.

Within the Load Default menu, you may select which settings you would like to restore to default.

| 4              | , 👩 🛃 🔄  | <u>_</u> |
|----------------|--|----------|
|                | Restore  |          |
| Genei          | Select your default settings.  | anced    |
| 😫 Mainta       | Select All   |          |
| <u>≜</u> Event | General Encode   |          |
|                | Natwork NatSarvica   |          |
| 📑 Auto L       | Settings Users   |          |
|                | R\$232   |          |
|                | Video Related Alarm, Network Related Alarm, Storage Equipment Related Alarm,<br>PTZ/Comm Related Alarm |          |
|                | OK Cancel  |          |
|                | OK Cancel  | Apply    |

#### 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. These events will be added to the Alarm Status window.

| <b>4</b>       | 0                    |            |        |     | 3      |          |
|----------------|----------------------|------------|--------|-----|--------|----------|
| General        | Cameras              | Record     | Device | Sys | stem   | Advanced |
| 😂 Maintain     | Event Type           | No Storage | Enable |     |        |          |
| ≜ Events       | Channer              |            |        |     |        |          |
| C Auto Upgrade | Show Message<br>Push |            |        |     |        |          |
|                |                      |            |        | ок  | Cancel | Apply    |

| General         | Cameras               | Record     | Device   | Sys | tem    | Advanced |
|-----------------|-----------------------|------------|----------|-----|--------|----------|
| 😌 Maintain      | Event Type<br>Channel | No Storage | Enable 🕅 |     |        |          |
| <u>≜</u> Events |                       |            |          |     |        |          |
| C Auto Upgrade  | Show Message<br>Push  |            |          |     |        |          |
|                 |                       |            |          | ок  | Cancel | Apply    |

**Event Type:** Choose the type of event notification that you would like to appear on the Alarm Status window.

- No Storage: The HDD is full.
- **Storage Device Error:** Refers to the status of the HDD and will notify you if it crashes or has become corrupt.
- Storage: No Space: This event setting allows you to set a percentage of available HDD space alarm so that when the available storage space is less than the percentage it is set to, the notification will appear on the Alarm Status window.
- Net Disconnection: The DVR lost Internet connectivity.
- **IP Conflict:** Another device is attempting to use the same IP Address of your DVR.
- **Illegal Login:** Unauthorized access was attempted on your DVR.
- Video Loss: The absence of video due to power loss disconnection.

**Enable:** Select channel then turn notifications on or off for the selected Event type.

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

**Buzzer:** Turn an audible buzzer on for a duration of time to alert you when this *Event Type* happens. Deselect to disable this feature.

**Push:** select this option to send a notification to your Night Owl Connect App when this *Event Type* happens. **NOTE:** This option is not available for Event Types: Net Disconnected or IP Conflict.

Auto Reboot: Enable or Disable the automatic reboot feature. NOTE: This is only available when Event Type or Storage Device Error is selected.

**Less Than:** Select the percentage of available HDD space to set the, *Storage: No Space, Event Type* notification. **NOTE: This is only available for HDD space.** 

#### 7.6.3 Alarm Status

The Alarm Status notification message shows each camera's alarm status. To prompt the Alarm Status message, you should enable the "Show Message" check mark on the **Camera>Motion** or the **Advanced>Events** menus. By default, this message is disabled.

|   | Alar | m S | tatu | s   |   |   |    |   |
|---|------|-----|------|-----|---|---|----|---|
| Index   | 1    | 2   | 3    | 4   | 5 | 6 | 7  | 8 |
| Video Loss<br>Motion Detection<br>Video Obstruction |      |     |      |     |   |   |    |   |
|   |      | Ac  | Ivan | ced |   |   | ок |   |

Index: Represents each camera.

#### Type of Alarms:

- Video Loss: Video loss is regarded as an alarm event and occurs any time the DVR does not receive an active video signal on any of its inputs.
- Motion Detection: Video motion detection occurs when there is movement in front of your camera.
- Video Obstruction: Flags scenarios in which someone may cover the camera's field of view or if they are attempting to tamper with the video signal.

#### **Notifications Check:**

- **Empty:** No trigger detected.
- Green Check Mark: Unchecked alarm that already finished.
- **Red Check Mark:** The alarm is happening.

Advanced: Provides information about this window and allows you to adjust alarm notification settings.

**OK:** Hide the alarm status and verify that the alarm was noticed.



Red Check: The alarm is happening.

**Green Check:** Unchecked alarm that already finished.

Empty Box: No trigger detected.

#### Clear Alarm State In Time: 0 Seconds:

- **0 Seconds:** Clear alarm after 0 seconds.
- 5 Seconds: Clear alarm after 5 seconds.
- **30 Seconds:** Clear alarm after 30 seconds.
- **5 minutes:** Clear alarm after 5 minutes.
- **30 minutes:** Clear alarm after 30 minutes.
- After Confirmation: Clear alarm after confirmation.
- **Never:** Never clear alarm.

Control settings for auto upgrades of the DVR software.

| General         | Cameras  | Record          | Device | System  | Advanced |
|-----------------|--|-----------------|--------|---------|----------|
| 😌 Maintain      | Upgrade from USB   |                 |        |         |          |
| A Fuenda        | Upgrade Position   | /dev/sdb1       |        |         | <b>V</b> |
| Events          | Upgrade file   | DVR8-XHD50_     |        |         |          |
| Co Auto Upgrade | Auto Upgrade<br>Check For updates<br>Camera Upgrade<br>1 2 3 4 6 6 | Enable<br>Check |        |         |          |
|                 | Upgrade Position   | /dev/sdb1       |        | Upgrade | 1        |
|                 | Upgrade file   | player.zip      |        | Cancel  |          |
|                 |  |                 |        |         | Cancel   |

**Upgrade from USB:** Upgrade the DVR firmware from a USB flash drive. To upgrade DVR firmware, insert a USB flash drive containing the DVR upgrade file into the USB port on the back of your DVR. Then select the correct file from the "Upgrade File" drop-down menu and select "Upgrade".

**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".

**NOTE:** If the Auto Upgrade is enabled, the user will not be able to manually check for updates. While if the Auto Upgrade is disabled, the system will never check for an update and will only update if the user selects "Check For Updates", which is only available if Auto Upgrade is disabled.

**Check For Updates:** Click on "Check" button to manually check for updated software versions. If an upgrade is detected, click "OK" button on the pop-up window to download and install the new version.

**Camera Upgrade:** To upgrade camera firmware, insert a USB flash drive containing the camera upgrade file into the USB port on the back of your DVR. Then select the correct file from the "Upgrade File" drop-down menu and select "Upgrade".

# **CHAPTER 8** GLOSSARY

### Chapter 8: 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.

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

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

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

**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.

**UTC (Up-the-Coax):** This new technology allows for PTZ functions to be sent back and forth between the DVR and camera using a standard BNC (Video/Power) cable without the need for a separate port.

HC20X: Hybrid system that works with wired and wireless cameras.

# **CHAPTER 9** WARRANTY

## Chapter 9: 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 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 as otherwise prohibited by law, this warranty is in lieu of other warranties, express or implied and Night Owl neither assumes no 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 re-installation 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.NightOwISP.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 and Windows 10 are registered trademarks of Microsoft Corporation in the United States and/or other countries.

# **CHAPTER 10** TROUBLESHOOTING

## Chapter 10: 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  |  |
|--|---|--|--|
|  | Cable from power adapter is<br>loose or is unplugged.                     | <ol> <li>Confirm that all cables are<br/>connected correctly.</li> <li>Confirm that the power<br/>adapter is securely connected<br/>to the back of the unit.</li> </ol>  |  |
| System is not receiving power or is not powering up.         | Cables are connected, but<br>system is not receiving sufficient<br>power. | <ol> <li>Confirm that the system is<br/>powered ON (LED indicators<br/>on the front should be ON).</li> <li>If the unit is connected<br/>through a power bar or surge<br/>protector, try bypassing the<br/>bar and connecting the power<br/>directly to the wall outlet.</li> <li>Confirm that there is power at<br/>the outlet.</li> <li>Connecting the power cable<br/>to another outlet.</li> <li>Test the outlet with another<br/>plugged device (such as a<br/>phone charger).</li> </ol> |  |
| Hard drive is full (0%) and the unit is no longer recording. | Overwrite is not enabled.   | Go to the Device Menu > HDD<br>and ensure that <b>Overwrite</b> is set<br>to <b>Auto</b> .   |  |
|  | Mouse cable is not firmly connected to the system.                        | Firmly connect the mouse cable   |  |
|  | Mouse is not connected to the system.                                     | to the USB Mouse port on the front panel.  |  |
| Mouse not detected by system.                                | System needs to be reset.   | Power off the system<br>(disconnect power cable). Firmly<br>connect a USB mouse to the<br>USB Mouse port on the front<br>panel of the system. Reconnect<br>the power cable to the DC 19V<br>port on the real panel.  |  |

| Error   | Possible Causes   | Solutions  |
|---|---|--|
| There is no picture on selected<br>channels/camera picture is not<br>being displayed. | Camera cables are loose or have become disconnected.            | <ol> <li>Check the camera video cable<br/>and connections.</li> <li>Disconnect and reconnect the<br/>cable at the system and at<br/>the camera.</li> <li>Try moving the camera to<br/>another channel or use<br/>another cable.</li> </ol> |
|   | Audio cables are loose or have been disconnected.               | Check the AUDIO connection to the DVR.   |
| The image on the DVR appears,<br>but does not have sound.                             | Audio channels are disabled.                                    | Left click in Live View to bring<br>up the <b>Volume</b> control and<br>ensure that the channel(s) are<br>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 normally.   |
| The system beeps at startup.  |   | The beep at startup is normal.   |
| The system beeps during motion detection.   | Motion detection is enabled, but the alarm buzzer is activated. | Go to Right-Click Menu > Main<br>Menu > Cameras > Motion ><br>Select the Channel and<br>un-check the Buzzer check box.   |

## CHAPTER 11 USER INFORMATION

## Chapter 11: User Information

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

#### **General DVR Information**

| <b>NOTE:</b> This information can be fe | ound on page 70 |
|---|-----------------|
|---|-----------------|

| Admin Password: |
|-----------------|
| Jser Password:  |
| Nodel Number:   |
| JID:            |

#### **Internet Login Information**

| NOTE: This information can be found within the General Menu tab under Network in your DVR's Main Menu. |
|--|
| Web Port:  |
| IP Address:  |
| Subnet Mask:   |
| Gateway:   |
| DNS1:  |
| DNS2:  |

### NIGHT OWL®



#### Need Help?

#### For system manuals, troubleshooting guides, FAQs, video tutorials and more:

Please refer to the sticker located on top of the device for steps on how to access your product's support material.



### **CONTACT US**

**PHONE** (English, Spanish & French) Sales / Technical Support 1.866.390.1303 Live Chat 24/7, 365 days a year

EMAIL Sales Support Sales@NightOwlSP.com

Technical Support Support@NightOwlSP.com WEBSITE 24/7 Product Support • How-To Videos

Manuals

### www.NightOwISP.com

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