



USER'S MANUAL

DP2 / DP8 Series



DP2 Series

DVR Component Model #: DVR-DP2-16
Firmware Version: T2889N
Camera Component Model #: CM-DP2L-B



DP8 Series

DVR Component Model #: DVR-DP8-12
Firmware Version: T2889N
Camera Component Model #: CM-DP8L-B

Support.NightOwlSP.com



Thank you for choosing Night Owl Security

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 have access to our vast library of free instructional How to Videos. For all Support Videos, go to www.youtube.com/nightowlsp to access Night Owl's YouTube page.



Night Owl's DP2 / DP8 Series Camera Compatibility

Night Owl's DP2 / DP8 Series DVRs are compatible with the following cameras:

DP2	DP8	
CM-DP2L-BU	CM-C20XL-BU	CM-C50XL-BU
CM-TA2L-BU	CM-TA2L-BU	CM-TA5L-BU
CM-C20XL-BU	CM-DP2L-B	CM-C80XL-BU
CM-DP2BK-B	CM-DP2BK-B	CM-DP8L-B

NOTE: Not all features will work with all compatible cameras. You must use preferred cameras to access all features.

This system is designed to work with CL2 UL Rated cabling or better. 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.

Please see the warranty section of this manual for exclusions and additional details. Not all features and capabilities are shared across all models. You may see features which are not applicable. Additionally, this manual contains screen images that may not exactly match those on your TV/Monitor/Smart Device.

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.

System Requirements

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

- **PC Operating System:** Windows® 10 and above
- **MAC Operating System:** MAC OS X® 10.9 and above
- Please be sure that your mobile device complies with the following specifications:
- **Android™:** 8.0 and above
- **iOS®:** 12.4 and above

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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 party responsible for compliance could void the user's authority to operate the equipment.

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, that generates heat during operation for video storage. Do not block the vents on the DVR as these vents reduce the generated heat while the system is running. Place this product in a 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. Removing the cover will void your warranty.

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.

Initial Setup

Night Owl strongly recommends that you complete the following sections in the order that they are listed to quickly and easily set up your system:

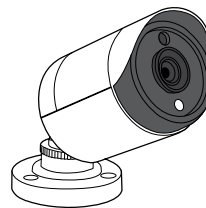
- Step 1. Verify Your Package Contents
- Step 2. Download the Night Owl Protect App and Create Your Account
- Step 3. Connect Your System
- Step 4. Set Up Your DVR
- Step 5. Install the Cameras

Step 1. Verify Your Package Contents

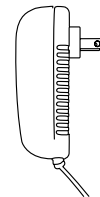
Before you begin to install your system, ensure you can identify all of the parts listed in this section. Images may vary slightly based on your model number.



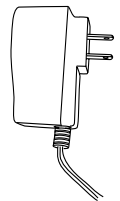
DVR



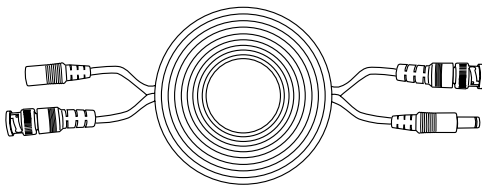
Camera(s)



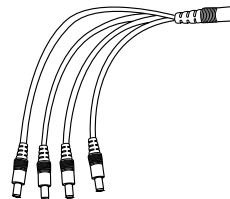
DVR Power Adapter (x1)



Camera Power Adapter(s)
(1 per 4 cameras)



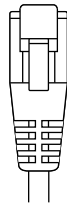
60 ft. Video/Power Cables
(1 cable per camera)



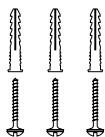
Power Splitter(s)
(1 per 4 cameras)



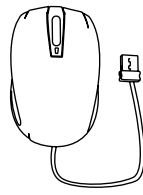
6 ft. HDMI (x1)



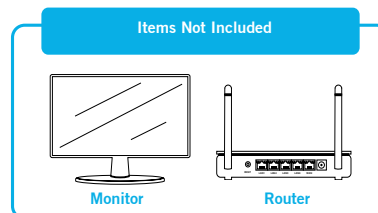
6 ft. Ethernet (x1)



Mounting Hardware



USB Mouse (x1)

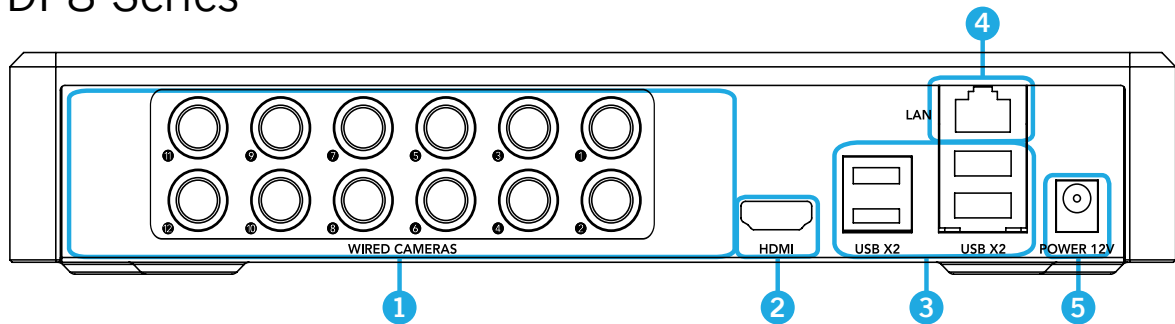


NOTE: Internet access is **STRONGLY** recommended for this initial setup. A TV or monitor with a minimum 1080p HD resolution and an HDMI input is required for the initial setup.

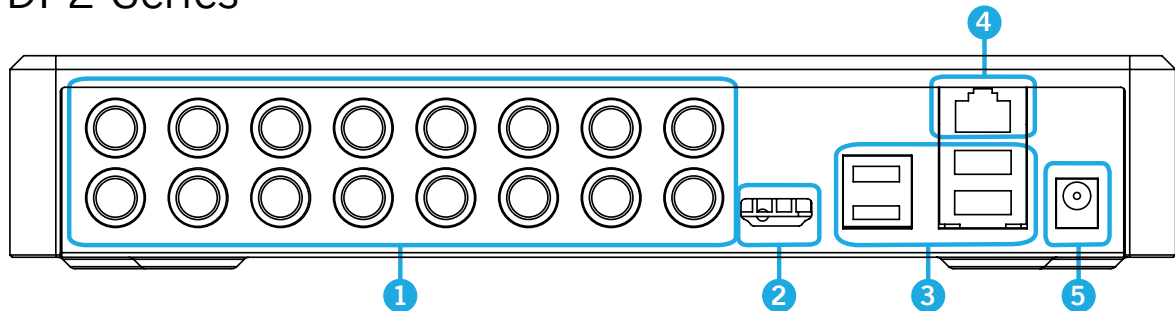
NOTE: For best results use Night Owl accessories. Third party accessories or products under a different brand may not work as well.

DVR Component Description

DP8 Series



DP2 Series



1. **Video In:** Connect your cameras to one of these 12 (DP8 Series) or 16 (DP2 Series) ports.

NOTE: The DVR automatically detects the camera. Before turning the DVR on, make sure the cameras are connected to the DVR and a power source.

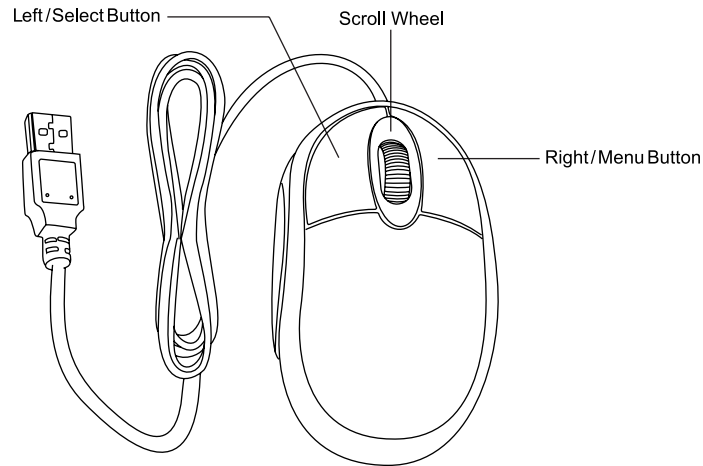
2. **HDMI (Recommended):** Connect your TV or monitor to this HDMI port using an HDMI cable.
3. **USB Ports:** Connect a USB mouse or a USB flash drive to this USB port for video backup.

NOTE: DO NOT CONNECT two USB mice or two USB flash drives to the DVR.

4. **LAN (Strongly Recommended):** Connect your DVR to the Internet using an Ethernet cable.
5. **Power Input:** Connect the DVR power adapter to this port to power the DVR.

NOTE: Connect and test all cameras locally before you install in their final location to ensure that all components function properly.

Mouse Description



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 Tool Bar at the bottom of the screen. Left click on the Tool Bar or Menu to access the device's features.

In Setup:

Left-click to make a selection. Right-click to cancel setup or return to the 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.

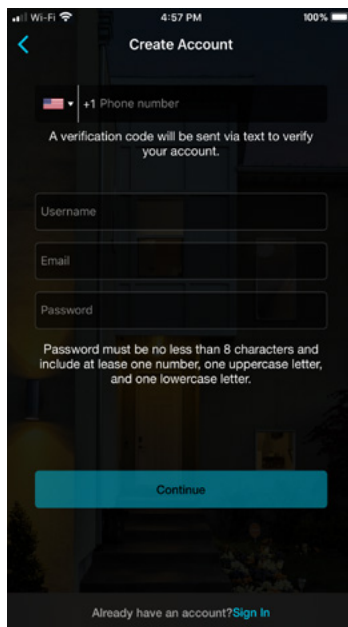
Step 2. Download the Night Owl Protect App and Create Your Account

IMPORTANT: Night Owl **STRONGLY** recommends that you create an account via the Night Owl Protect App. This app is the preferred method for password resets since you cannot reset your password from the DVR. You can choose not to use the app later if you wish.

1. Download the Night Owl Protect App from the Apple App or Google Play Store. If you already have a Night Owl Protect account and connected device, proceed to *Step 3 – Connect Your System*.



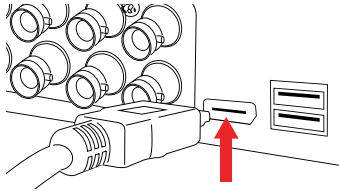
2. Follow the prompts on the Night Owl Protect App to create your account. For security purposes, a verification code will be sent to your phone to verify the account being created.



3. Finish creating your account and create a personal PIN number that you will enter upon each login to the app. For more information on the Night Owl Protect App, click here: <https://support.nightowlsp.com/hc/en-us/articles/360044127354-Night-Owl-Protect-Mobile-App-CMS>
4. When finished, proceed to *Step 3 – Connect Your System* to begin connecting the components of your system.

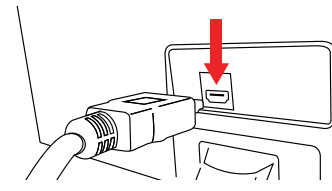
Step 3. Connect Your System

1



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

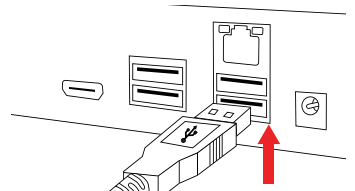
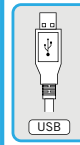
2



Plug the other end of the HDMI cable into the back of your TV or Monitor.

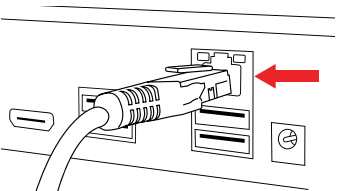
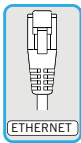
NOTE: To view cameras, TV or Monitor must be tuned to the same input the HDMI is plugged into.

3



Plug the USB mouse into the USB port on the back of the DVR.

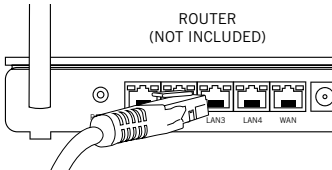
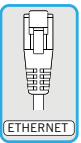
4



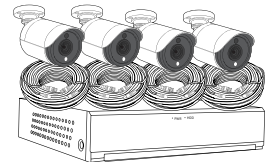
Plug one end of the included Ethernet cable into the LAN port on the back of the DVR.

NOTE: Night Owl recommends connecting to the Internet for the best user experience.

5

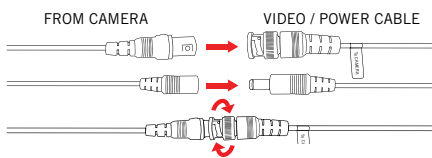


Plug the other end of the Ethernet cable into a port on the back of your router or modem.



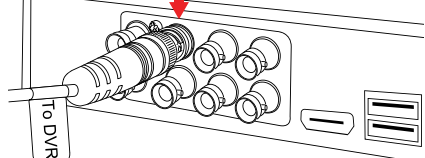
STOP: BEFORE installing, connect and test each camera locally to confirm they function properly.

6



Connect the end of the camera's cable to the end of a video / power cable labeled TO CAMERA ONLY.

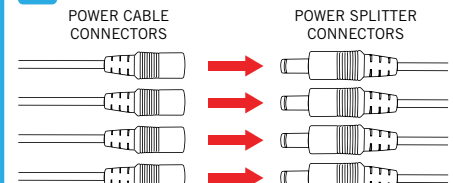
7



Connect the video / power cable labeled TO DVR ONLY to an open video input on the DVR.

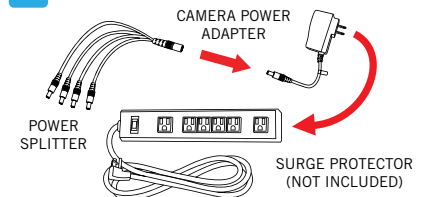
NOTE: Make sure you twist and lock BNC connectors.

8



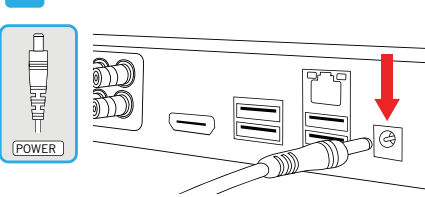
Connect the red female power leads of the video / power cables to the male power splitter ends.

9



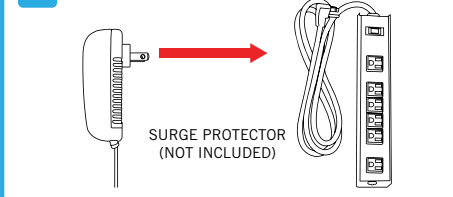
Connect the power splitter to the camera power adapter and plug the adapter into a surge protector or Uninterruptible Power Supply (UPS).

10



Connect the DVR power adapter to the Power Input on the rear of the DVR.

11



Plug the DVR power adapter into a surge protector or Uninterruptible Power Supply (UPS). Some systems beep upon booting up.

NOTE: Make sure the UPS or surge protector is switched ON.

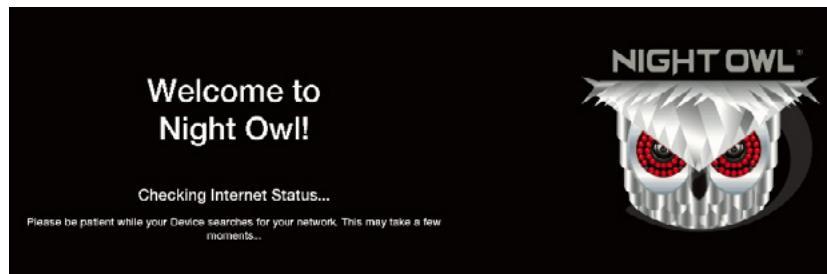
Step 4. Set Up Your DVR

IMPORTANT: Night Owl STRONGLY recommends that you have the DVR connected to the Internet for initial setup. This connection allows the DVR to easily download the latest firmware and run through the Set Up Wizard quickly. You can disconnect your DVR from the Internet after your system is setup and running, if you wish. Note that if you do disconnect from the Internet, you will not receive automatic firmware updates that include system upgrades and you will be unable to get help from our Technical Support Team without the latest firmware running.

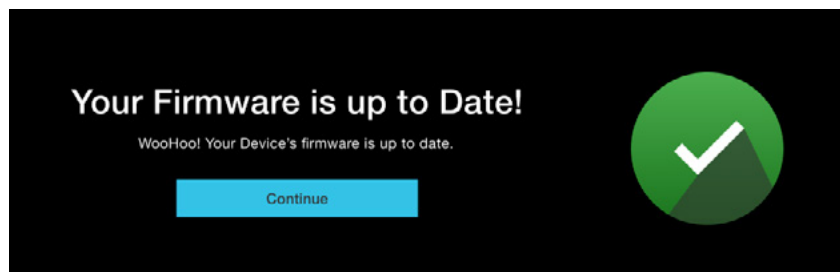
If you still do not wish to connect to the Internet, follow the steps in *Disconnected from the Internet*.

Connected to the Internet (Strongly Recommended Method)

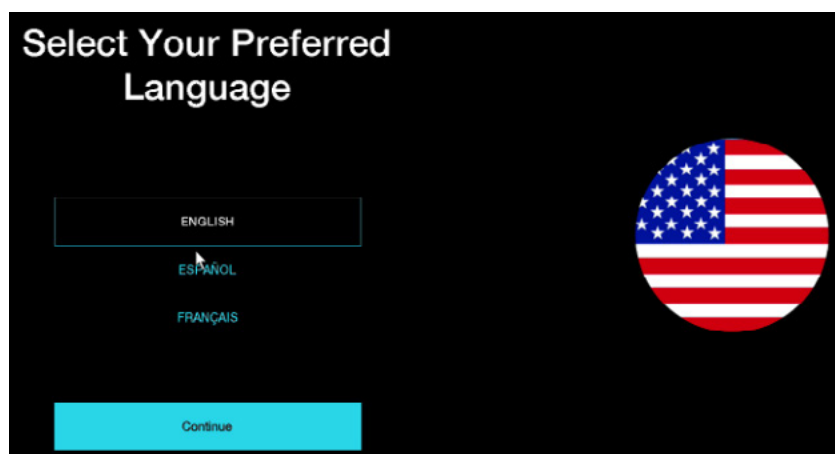
1. Once your DVR is connected to a power source, the DVR immediately begins to boot up and checks for the latest firmware. This process may take several minutes.



2. Click **Continue** on the Your Firmware is up to Date screen.

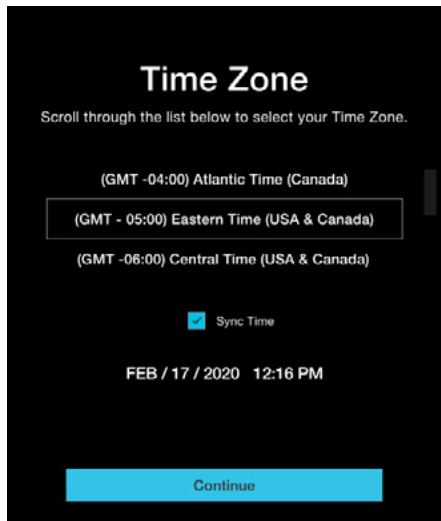


3. Select your preferred language and click **Continue**.

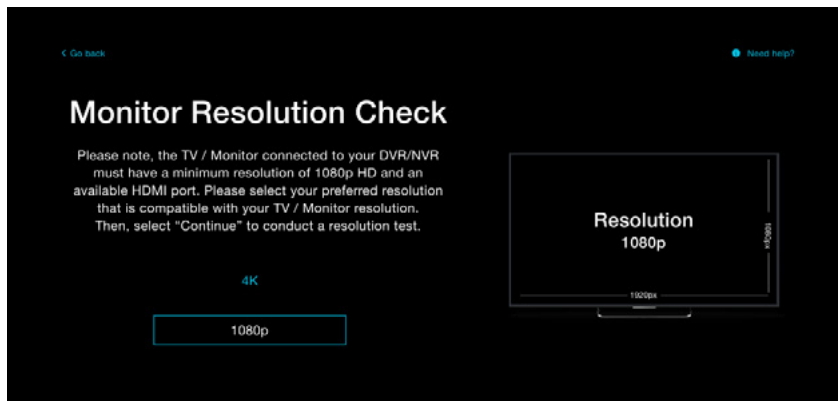


4. Set your Time Zone and click **Continue**.

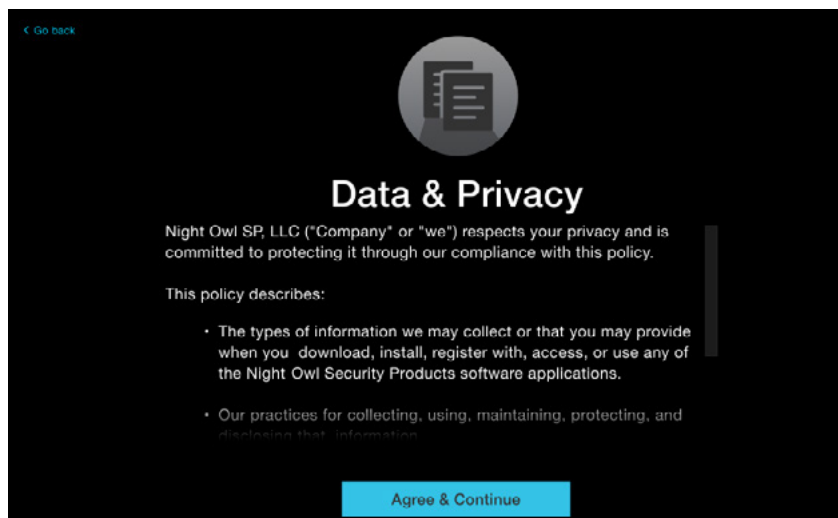
If your recorder is connected to the Internet, Sync Time should be automatically selected and will work to keep your system's date and time up to date automatically.



5. Select your monitor resolution and then click **Continue**.

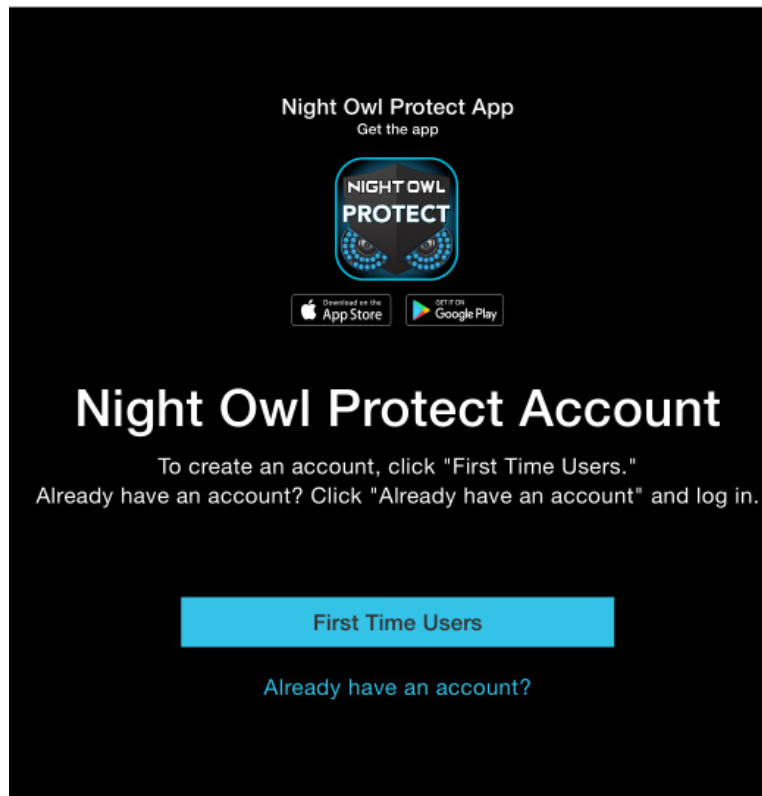


6. Click **Agree & Continue** at the Data & Privacy screen.

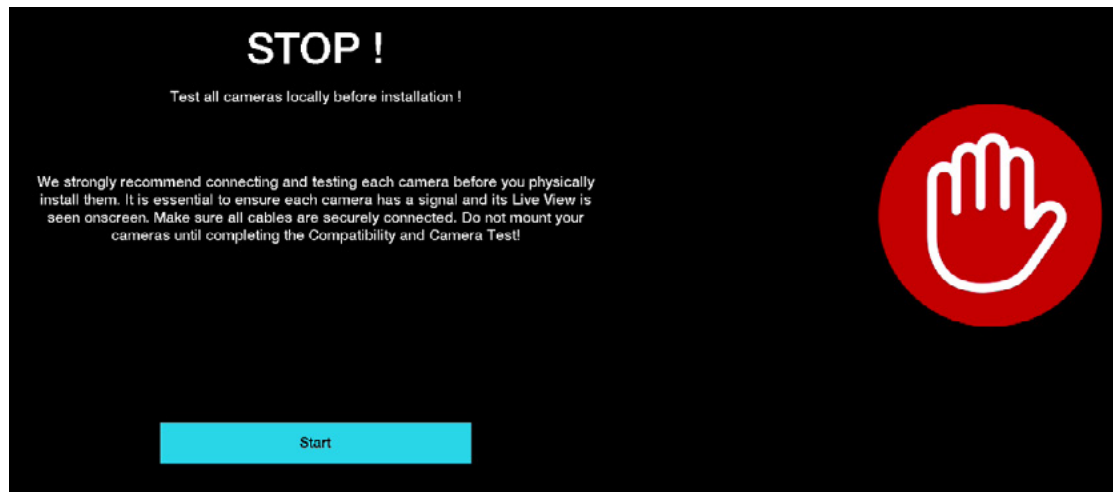


7. If you have already created an account using the Night Owl Protect App, click **Already have an account** and login using your Username and Password.

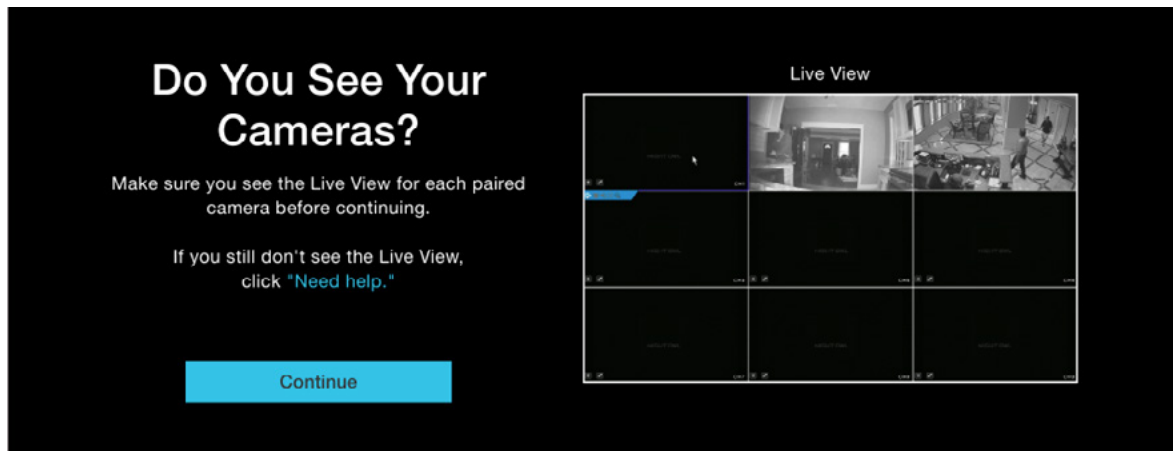
If you have not set up an account, it is **STRONGLY** encouraged that you do that now following *Step 2 – Download the Night Owl Protect App and Create Your Account* above. Alternatively, you can set up your account on the Night Owl website at www.no-protect.com.



8. After you have successfully logged in, the system prompts you to test your cameras. Click **Start**.



9. Verify that you can see your cameras and click **Continue**.



10. Click **Complete Setup**. Your DVR goes to the Live View screen. Proceed to *Step 5 - Install the Cameras*.

Disconnected from the Internet

IMPORTANT: Night Owl **STRONGLY RECOMMENDS** connecting the DVR to the Internet for this initial setup.

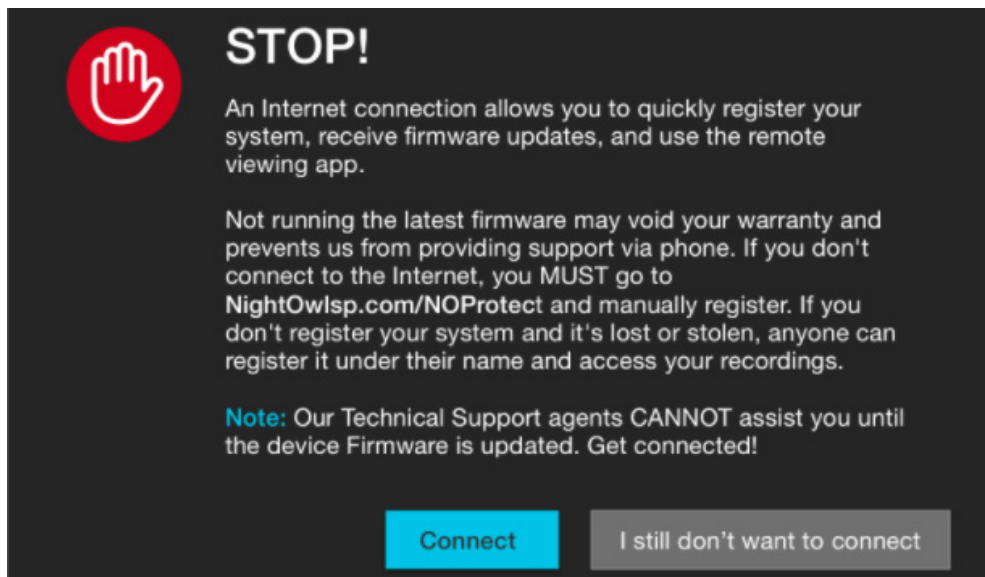
Please note the following limitations if you choose to NOT connect the DVR to the Internet:

- You must manually update the DVR firmware to the latest version to receive Technical Phone Support. Go to <https://support.nightowlsp.com/> and type “**DP2**” or “**DP8**” (see the support label on your DVR to confirm) in the search field to access the latest firmware. Follow the instructions that are provided with the download.
- You cannot view your system remotely on a Smart Device.
- Resetting your password is a much longer process to ensure security.

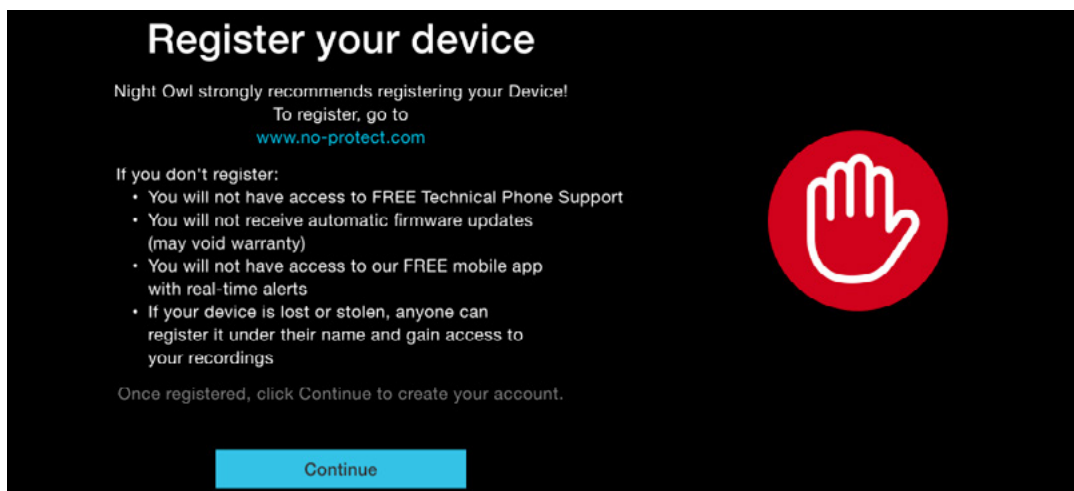
BEFORE YOU BEGIN THIS PROCEDURE:

You must have a USB flash drive or External Hard Drive that is formatted to FAT32. Refer to the *Format a USB Flash Drive or External Hard Drive* section of the Back Up/Export Videos chapter for further instructions.

1. Plug your DVR into a power source.
2. After ensuring you have a formatted USB flash drive or External Hard Drive, click **I do not want to connect to the Internet**.
3. At the STOP prompt, after reading the advisory message, click **I still don't want to connect it**.

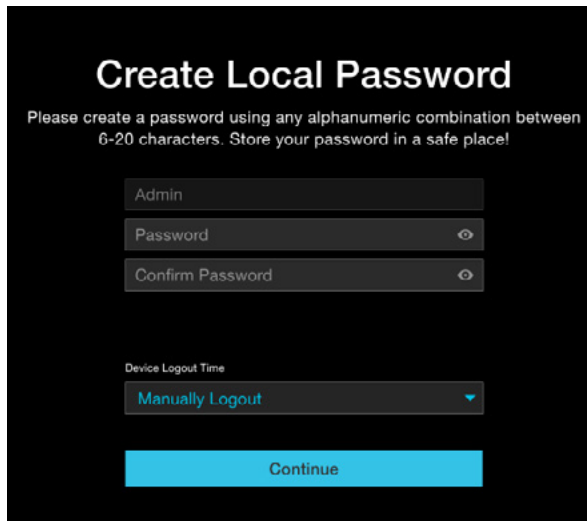


4. Select your preferred language and click **Continue**.
5. Select your Time Zone and then use the scroll to select the current date and time. Then click **Continue**.
6. Select your monitor resolution and then click **Continue**.
7. Click **Agree & Continue** at the Data & Privacy screen.
8. Go to www.no-protect.com to register the DVR. Use the information found on the DVR's support sticker to complete registration.
9. After the DVR is registered, click **Continue**.



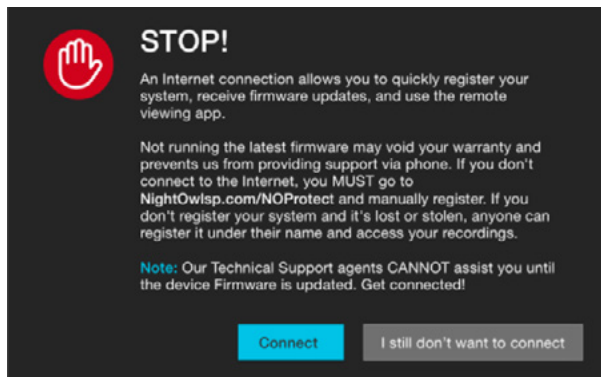
10. Create a local password:

- The default username is “admin”.
- Create a password (any alphanumeric combo with a minimum of 6 - 20 characters; **MUST** include a number, a lowercase letter, and an uppercase letter).
- Click **Continue**.



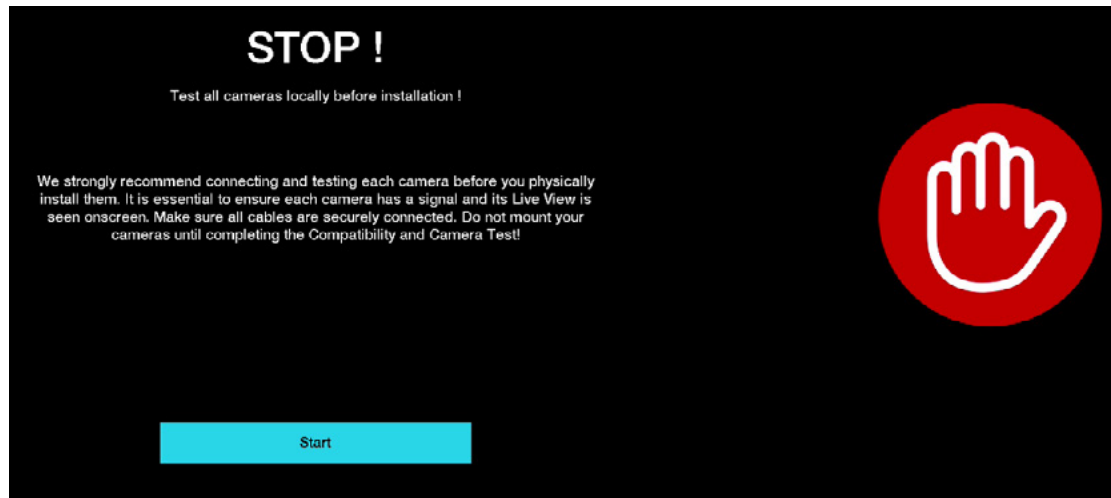
The screenshot shows a 'Create Local Password' screen with a dark background. At the top, the title 'Create Local Password' is in white. Below it, a message reads: 'Please create a password using any alphanumeric combination between 6-20 characters. Store your password in a safe place!'. There are three input fields: 'Admin' (pre-filled), 'Password', and 'Confirm Password', each with a toggle icon. Below these is a 'Device Logout Time' dropdown menu set to 'Manually Logout'. At the bottom is a blue 'Continue' button.

11. Click **I still do not want to connect**. Alternatively, you can click **Connect** to connect to the Internet and follow the steps in the *Connected to the Internet* section above.

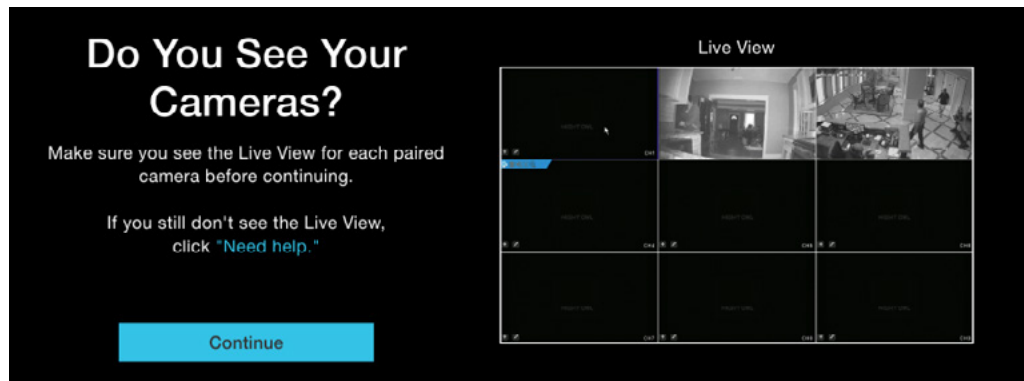


The screenshot shows a 'STOP!' screen with a dark background. On the left is a red hand icon. The text reads: 'An Internet connection allows you to quickly register your system, receive firmware updates, and use the remote viewing app. Not running the latest firmware may void your warranty and prevents us from providing support via phone. If you don't connect to the Internet, you **MUST** go to NightOwlsp.com/NOProtect and manually register. If you don't register your system and it's lost or stolen, anyone can register it under their name and access your recordings. **Note:** Our Technical Support agents **CANNOT** assist you until the device Firmware is updated. Get connected!'. At the bottom are two buttons: 'Connect' (blue) and 'I still don't want to connect' (grey).

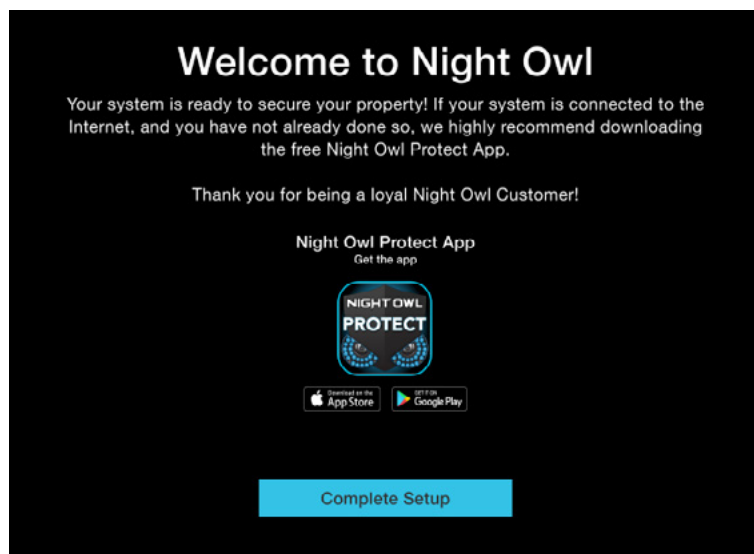
12. Click **Start** to complete the camera compatibility test.



13. Verify that you can see your cameras and click **Continue**.



14. Click **Complete Setup**.



15. Go to <https://support.nightowlsp.com/> and type "DP2" or "DP8" (see the support label on your DVR to confirm) in the search field to access the latest firmware. Follow the instructions that are provided with the download.
16. Proceed to *Step 5 – Install the Cameras*.

Step 5. Install the Cameras

IMPORTANT: Before you begin this step, if you have not already done so, ensure all cameras work before final installation.

Plan Your Installation

When planning your installation, keep the following pointers in mind:

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

Electrical Interference: Do NOT place the cameras near high voltage wires or other sources of electrical interference. Electrical interference degrades the quality of the signal.

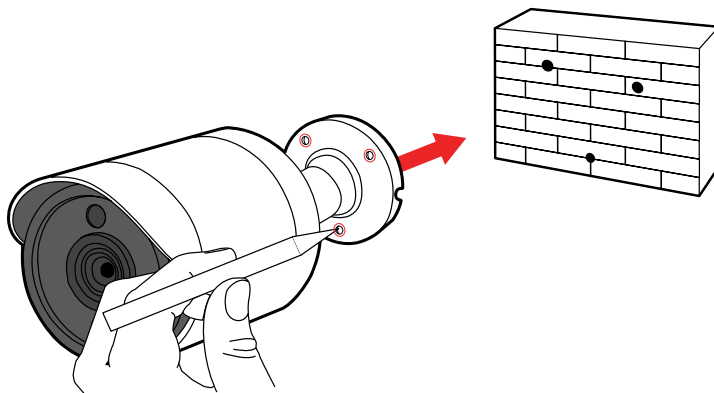
Outside Elements: Avoid direct exposure to weather. Do not place the camera where rain or snow will hit the lens directly. Do not place the camera so that the sun or bright light shines directly into the lens. Your camera is weatherproof, but it will not work when submerged in water. Ensure that all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

Mounting Surface: Ensure your mounting surface holds at least four times the camera's total weight.

Camera Angles: Use the Live View on your DVR to verify that your camera will be at an ideal angle before permanently installing.

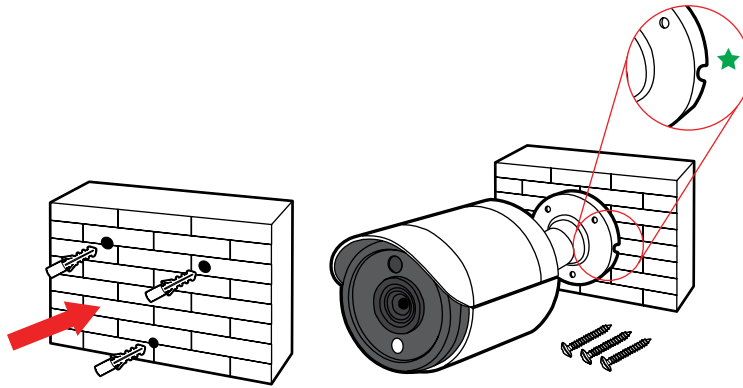
Install the Cameras

1. Use the holes in the base of each camera as a template to mark the screw positions on the surface where you plan to mount the camera.



2. Using a drill bit slightly smaller than the included screw anchors, drill into the mounting surface using the guide marks.

3. Insert the screw anchors. Line up the camera base holes with the screw anchors, insert the screws through the base, and tighten to secure the camera in place. Ensure you feed the camera wire through the indent in the base as indicated by the green star in the following illustration.



Add Additional Cameras

You can add additional cameras to your system at any time by following steps 6 - 9 in *Step 3 – Connect Your System* and repeating the steps in this section.

Night Owl's DP2 / DP8 Series DVRs are compatible with the following cameras:

DP2	DP8	
CM-DP2L-BU	CM-C20XL-BU	CM-C50XL-BU
CM-TA2L-BU	CM-TA2L-BU	CM-TA5L-BU
CM-C20XL-BU	CM-DP2L-B	CM-C80XL-BU
CM-DP2BK-B	CM-DP2BK-B	CM-DP8L-B

Congratulations

You are ready to start using your system! Refer to the *View Live Videos and Detected Events* chapter of this manual for more information on how Night Owl works and how to utilize all of its monitoring features.

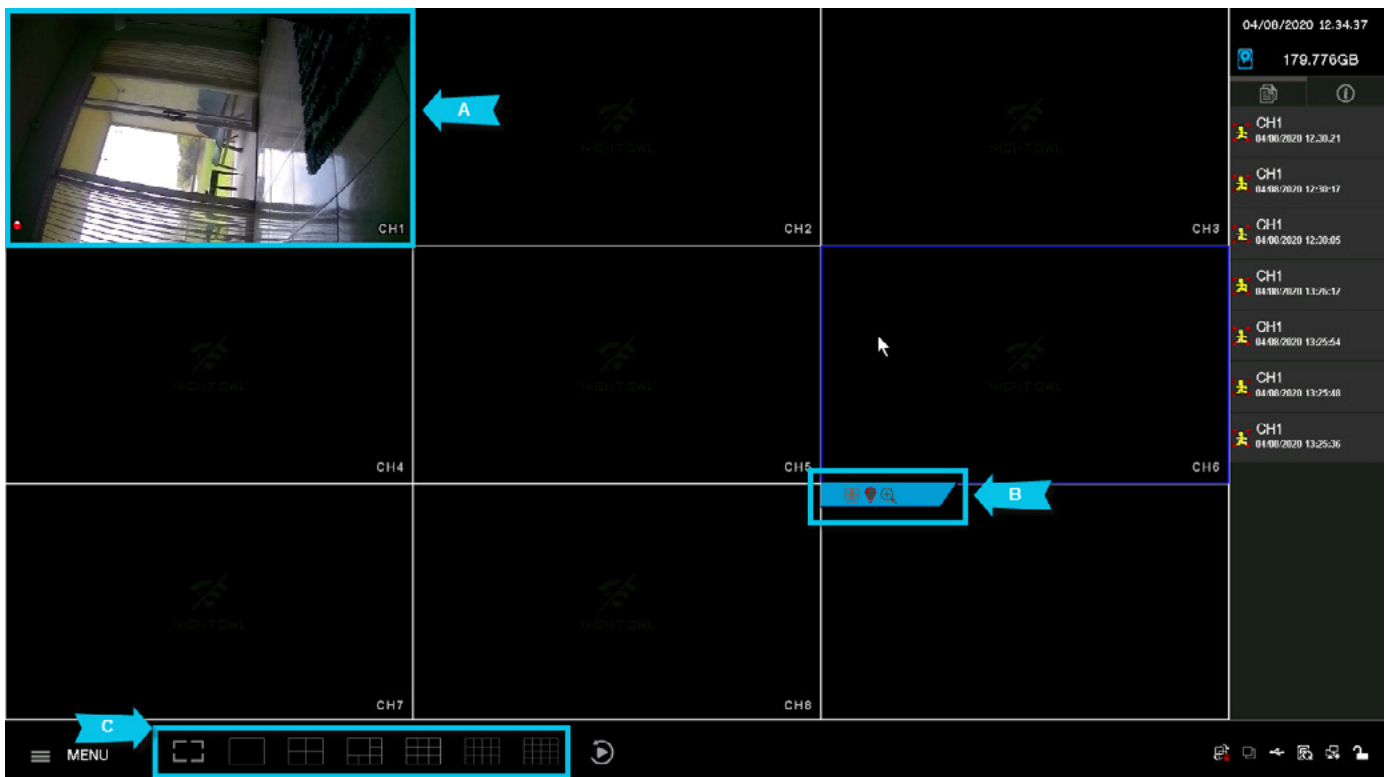
View Live Videos and Detected Events

View Live Videos

The default DVR home screen is the Live View. From the Live View screen you can see current live feeds of all connected cameras. Additionally, you can:

Callout	Function
A	Click any channel (camera) to view the live feed for that specific channel.
B	Click the channel toolbar for each channel to: - Switch between original size or fit to screen. - Turn a camera light on or off. - Place a channel in full screen mode.
C	Click the various channel display buttons to adjust the number of channels that display on the screen.

To return to Live View at any time, right-mouse click.

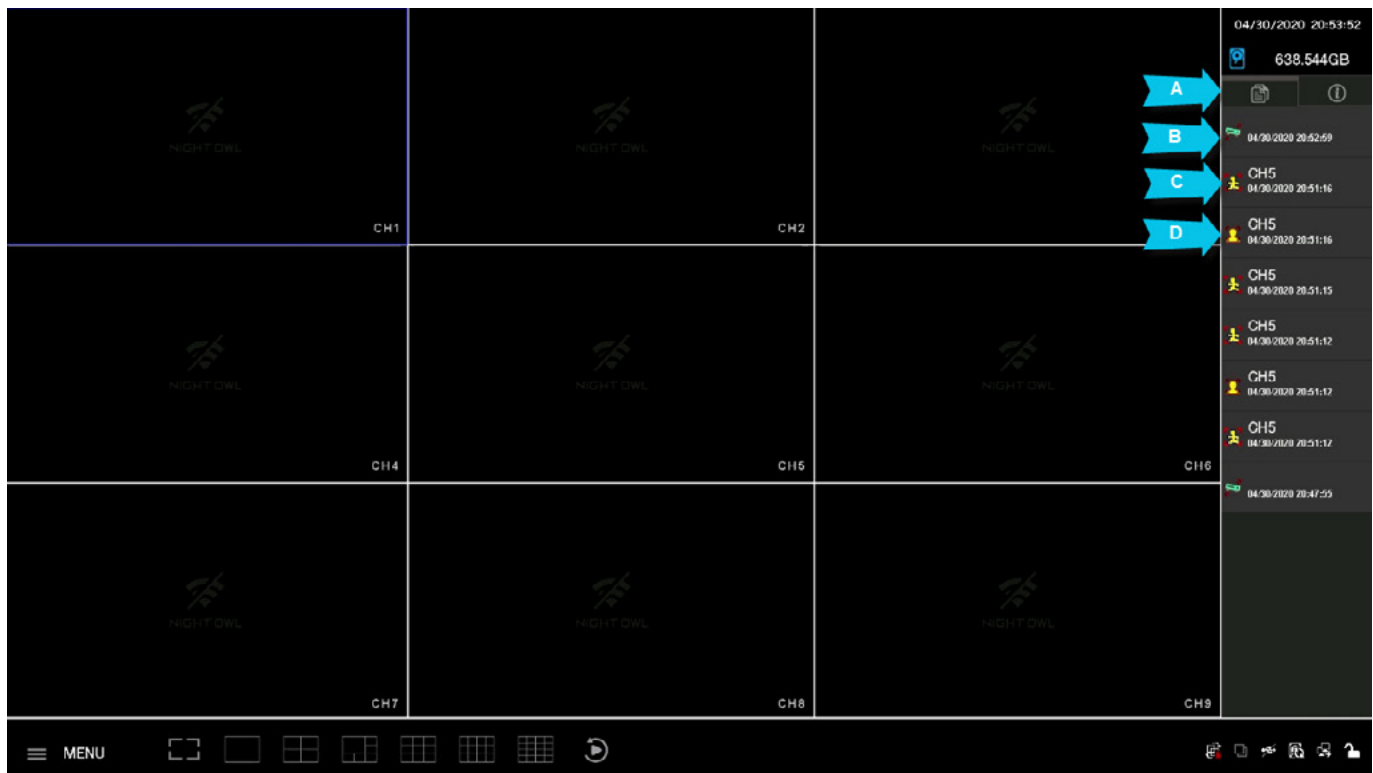


View Detected Events

Detected events are logged under the Event List tab **(A)** located on the right sidebar of the Live View screen. There are three types of detected events:

Callout	Icon	Name	Function
B		Anti-theft Notification	Indicates the device has been moved.
C		Human Detection Event	Indicates the device has detected a Human shape on a specific channel.
D		Face Detection Event	Indicates the device detected a Face on a specific channel.

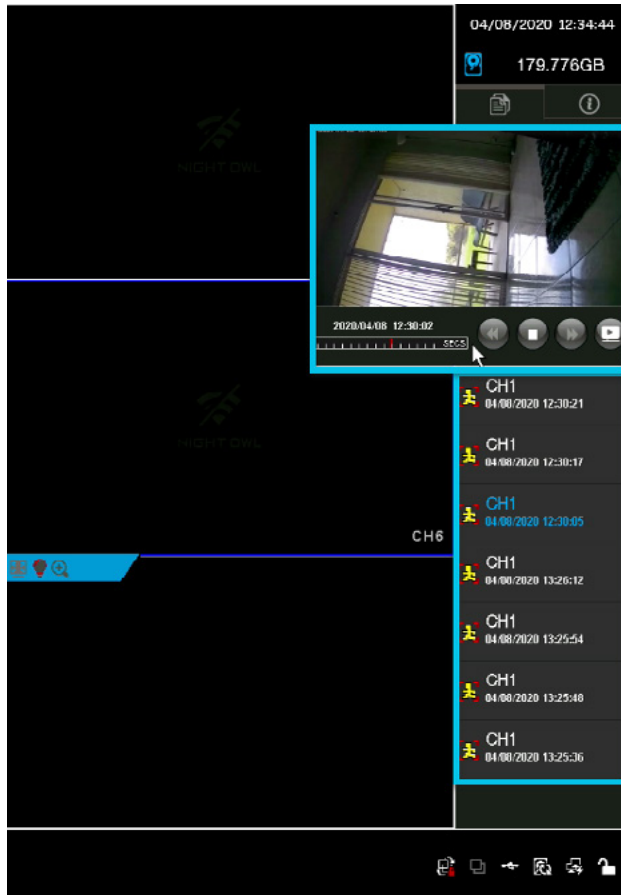
NOTE: You must be connected to the Internet and add the DVR to the Night Owl Protect App to receive real-time alerts for these event types.



View Currently Detected Events

Click on any listed Human or Face Detection event to view its recording. From this recording, you can:

- Scroll second-by-second using the SECS toolbar.
- Click to rewind, stop, fast forward or go to the full Playback screen.



Review Previously Detected Events using the Playback Feature

Use the Playback feature to replay recorded events. To access the Playback feature, click the Playback button on the bottom of the Live View screen:



From the Playback screen, you can:

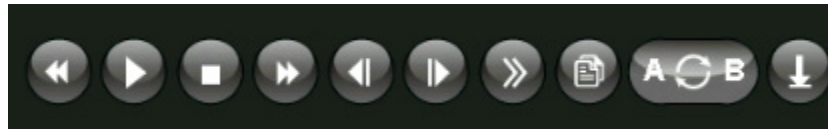
- A. Search Detected Events by Date:** Use the calendar under DATE to select the date(s) that have video footage from the selected channel(s). Dates marked in blue have recordings.
- B. Search Detected Events by Channel:** From the CHANNEL list, select the channel(s) you want to search for recordings.
- C. Search Detected Events by Event Type:** Use the EVENT feature to search event type(s) to narrow down the search results.
- D. Replay Detected Events:** Press and hold the left-mouse button to slide the timeline to search the time segments that have video footage. To expand or narrow your search, click the HR, MIN, or SEC buttons to switch the timeline between hours, minutes, or seconds. When you reach the time segment you want to watch, Playback starts automatically.

Time segments are marked:

- Red for Motion Recordings
- Green for Human Detection Recordings
- Blue for Facial Capture Recordings

This table details the additional functionality of the Playback toolbar:

	Fast Forward	Increase the speed for fast forwarding.
	Rewind	Increase the speed for rewinding.
	Play/Pause	Click to play the latest recorded video clip immediately. Click again to pause. When paused, click Fast Forward once to advance one frame forward, and click Rewind to rewind one frame.
	Stop	Click to stop the video playback.
	Slow Playback	Click for 1/4 x speed playback. Click twice for 1/8 x speed playback.
	Previous/Next Hour	Click to jump to the next/previous time interval within the selected hour. For example, 11:00 ~ 12:00 or 4:00 ~ 5:00. The earliest video clip recorded during this whole hour automatically plays.
	Event List	Click to access the quick search menu for a specific event search or select FULL to show all event logs.
	Repeat	Click to set point A and point B in a video clip. The system only plays the specified range of that clip.
	Backup	Click to access the backup menu for video backup.



Backing Up/Exporting Videos

IMPORTANT: Before you can back up or export recorded videos stored on the DVR Hard Disk Drive, you must first format your USB flash drive or External Hard Drive (HDD) to FAT32/ExFat as detailed in the *Formatting a USB or External Hard Drive* section below.

As your DVR accumulates recordings, it eventually becomes full. When this happens, the oldest recordings stored are overwritten by the latest recordings. If there are recordings that you want to save long-term, you need to export them to a USB flash drive or external HDD.

Formatting a USB Flash Drive or External Hard Drive

WARNING

Formatting erases ALL data on the USB flash drive or external HDD.

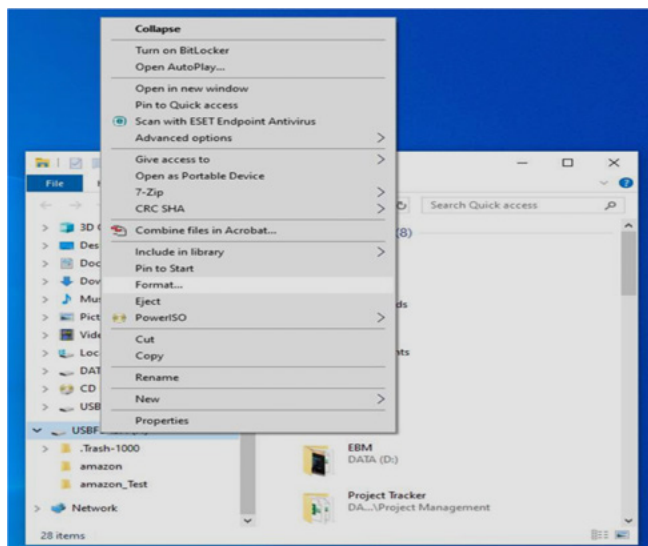
IMPORTANT: DO NOT connect the DVR's hard disk drive to your PC or Mac.

This section provides formatting instructions for:

- Windows OS
- Mac

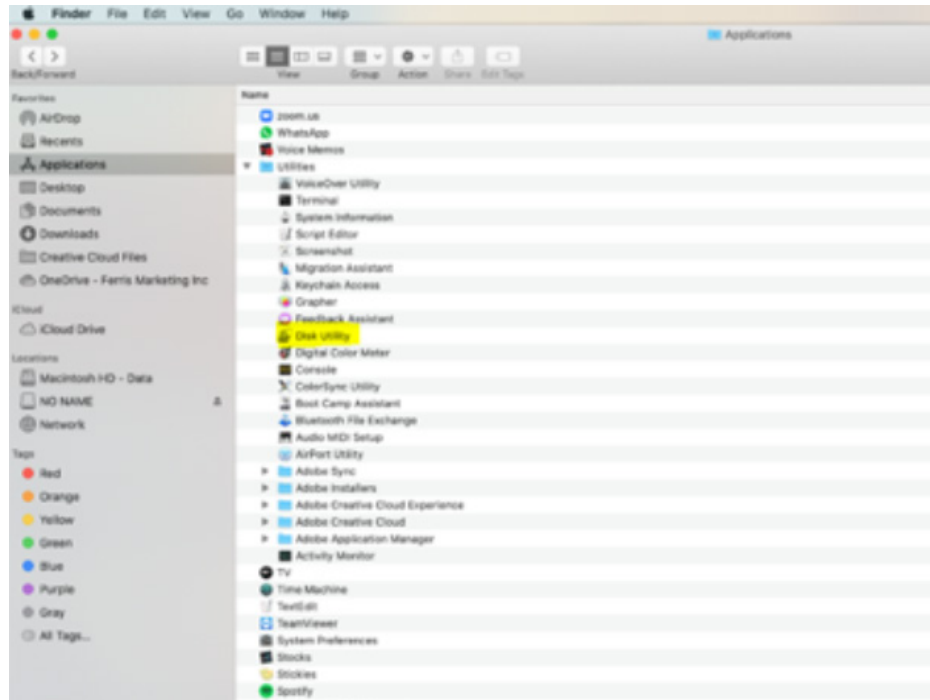
Format for Windows OS

1. Insert an empty USB flash drive or connect an external HDD into a USB port on your PC.
2. Press and hold the **Window key + E** and release when File Explorer appears.
3. Right-click on your USB flash drive or external HDD on the left side of the File Explorer and select **Format**.
4. In the File System field select **FAT32** and click **Start**.
5. Do not unplug the USB flash drive or external HDD until formatting is complete.

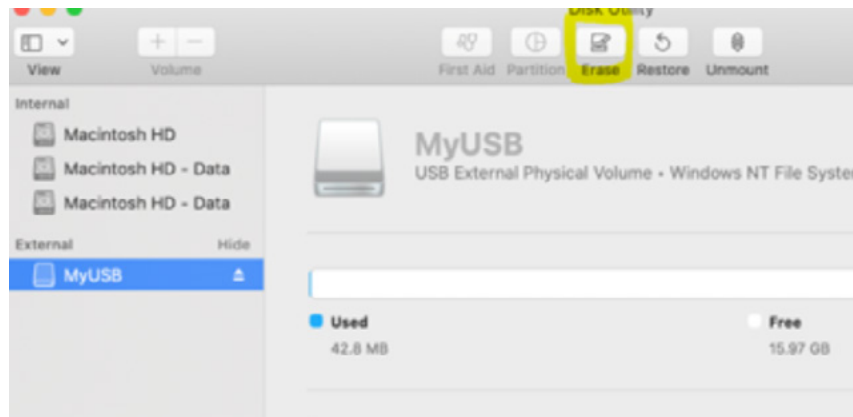


Format for Mac

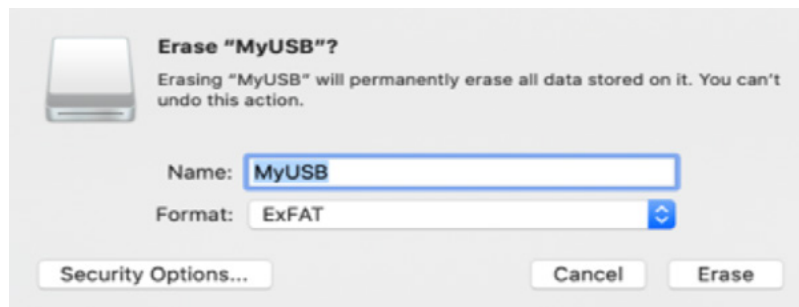
1. Insert the USB flash drive or connect the external HDD into your Mac.
2. Select **Applications > Utilities** and launch **Disk Utility**.



3. Select the USB flash drive or external HDD in the sidebar in Disk Utility and click **Erase** in the Disk Utility Bar.



4. Create a name, click on the **Format** dropdown menu, and choose either MS-DOS (FAT32) or ExFAT. Then click **Erase**.



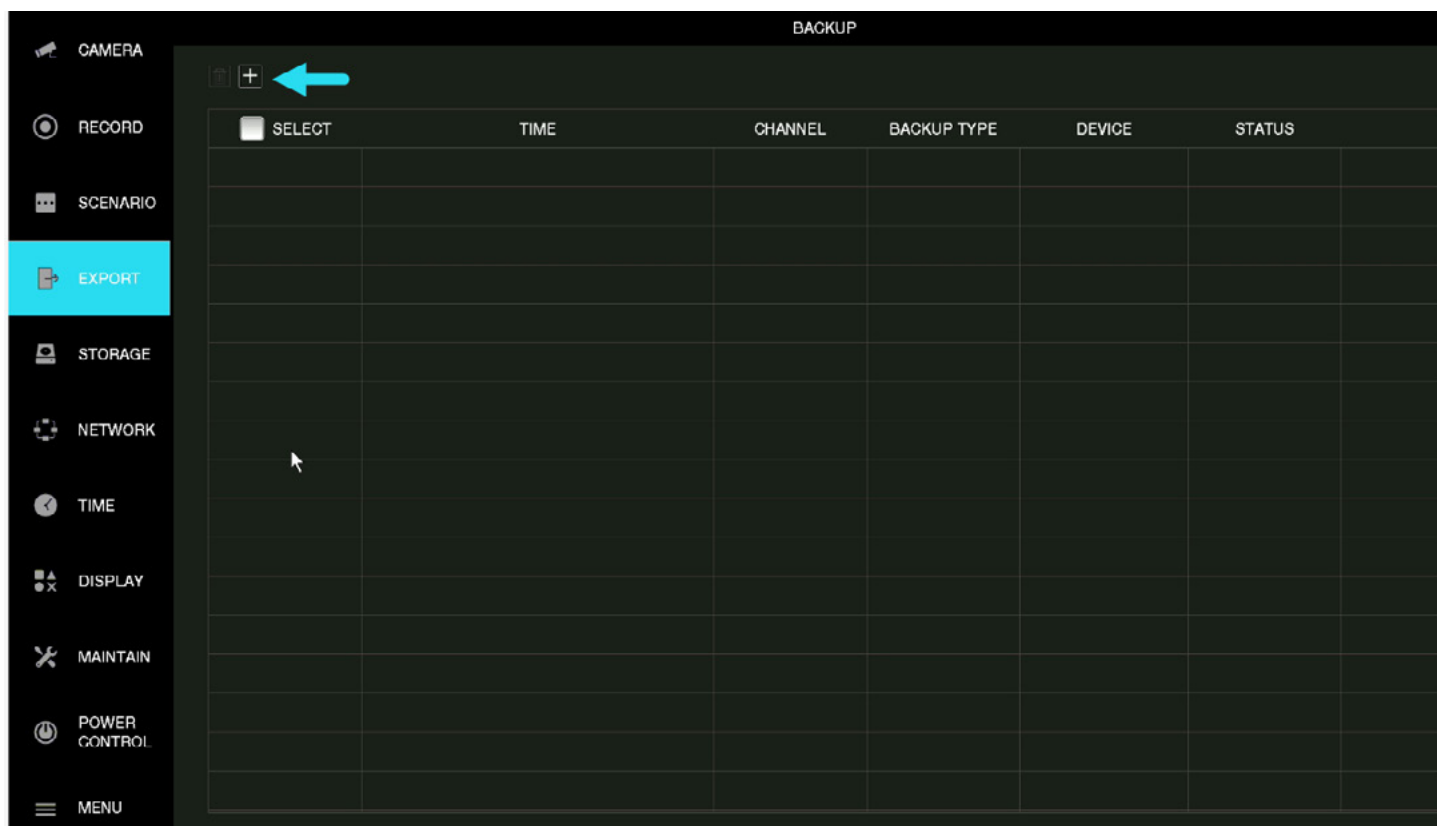
Back Up Videos to a USB Flash Drive

There are two ways to access the BACKUP screen to start your USB flash drive backup:

- From Live View, click the **Playback** button at the bottom of the screen and then click the **Backup** button at the bottom of the PLAYBACK screen.



- Click **MENU > EXPORT** and click the Plus symbol (+) from the BACKUP screen.



When you access the Backup screen using one of the two methods listed above, complete these steps to back up your videos to a USB flash drive:

- Under **SOURCE**, choose the data type:
 - Choose **VIDEO** if you wish to back up a video of the recorded event.
 - Choose **LOG** if you want to back up a log of the events. The log shows different event types, including: motion, alarm, system, timer, and human detection. This allows you to see a detailed activity history. When backed up, it is exported as a .CSV file and broken down by Date, Time, Kind of Event, and Channel.

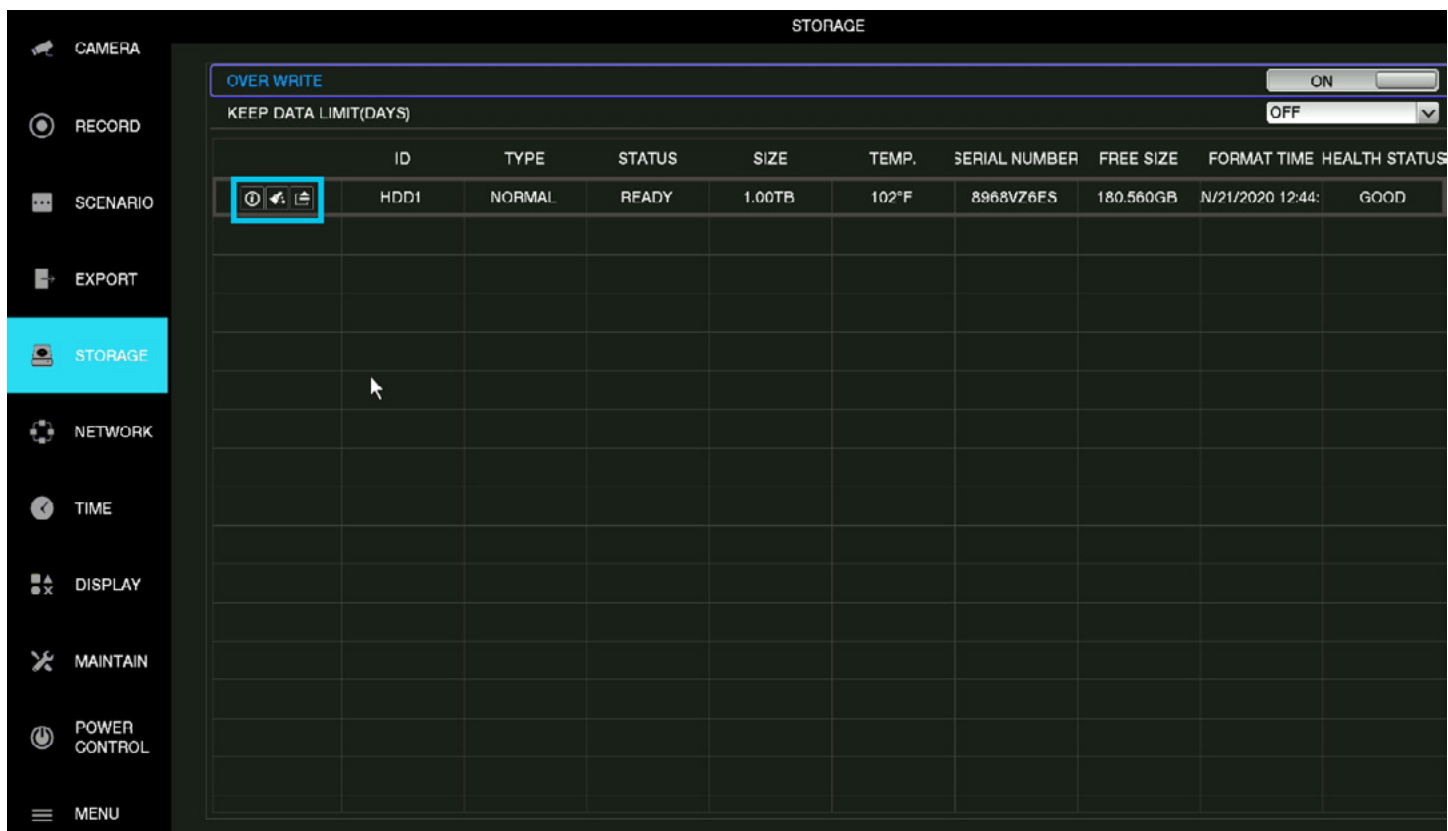
2. Use the **CALENDAR** to select the time range and date you want to copy. Dates with video recordings are highlighted in blue.
3. Select the **CHANNEL(s)** to copy.
4. Under DESTINATION, use the **TARGET** dropdown to save the data on a USB flash drive (USB DEVICE).
5. (Optional) When **USB DEVICE** is chosen, specify a directory in USB PATH, if needed.
6. Click **BACKUP** to start copying. The DVR returns you to the main BACKUP screen once completed. You can now safely remove your USB flash drive. The backup video is in .MOV format.

Back Up Videos to an External Hard Drive

If you wish to use an External Hard Drive (HDD) to back up and store videos, simply plug the External HDD into a USB port on the back of the DVR. Your External HDD **MUST** be formatted to FAT32 before you do this. Refer to the *Format a USB Flash Drive or External Hard Drive* section of Back Up/Export Videos.

Once your External HDD is connected to the DVR, you can manage your External HDD storage settings by clicking **MENU > STORAGE**. From the STORAGE screen, you can:

Icon	Name	Function
	External HDD Details	Click the External HDD Details icon to view transfer data of the selected hard disk drive and pixel data for each channel (camera).
	External HDD Format	Click the External HDD Format icon to format the selected hard disk drive and erase all data. When adding a new hard disk drive to the DVR, it MUST be formatted to FAT32 to work properly.
	Mount External HDD/Unmount External HDD	Click the Mount External HDD icon or the Unmount External HDD icon to add and remove External HDDs from the DVR. HDD hot-swapping is supported for this DVR. There is no need to power off the DVR first to install or remove a hard disk drive. However, Night Owl recommends turning the power off as a safety precaution before removing or swapping a HDD.



Configuring the System Settings

Verify the Camera Connection and Configure Device Settings

1. Click **MENU > CAMERA**.
2. Click **CONNECTION** and verify the following:
 - a. Verify that each channel is enabled.
 - b. Verify the **INTERFACE** is set to **COAXIAL** (the default).

 CAMERA

 RECORD

 SCENARIO

 EXPORT

 STORAGE

 NETWORK

CONNECTION

DEVICE

IMAGE

DETECTION

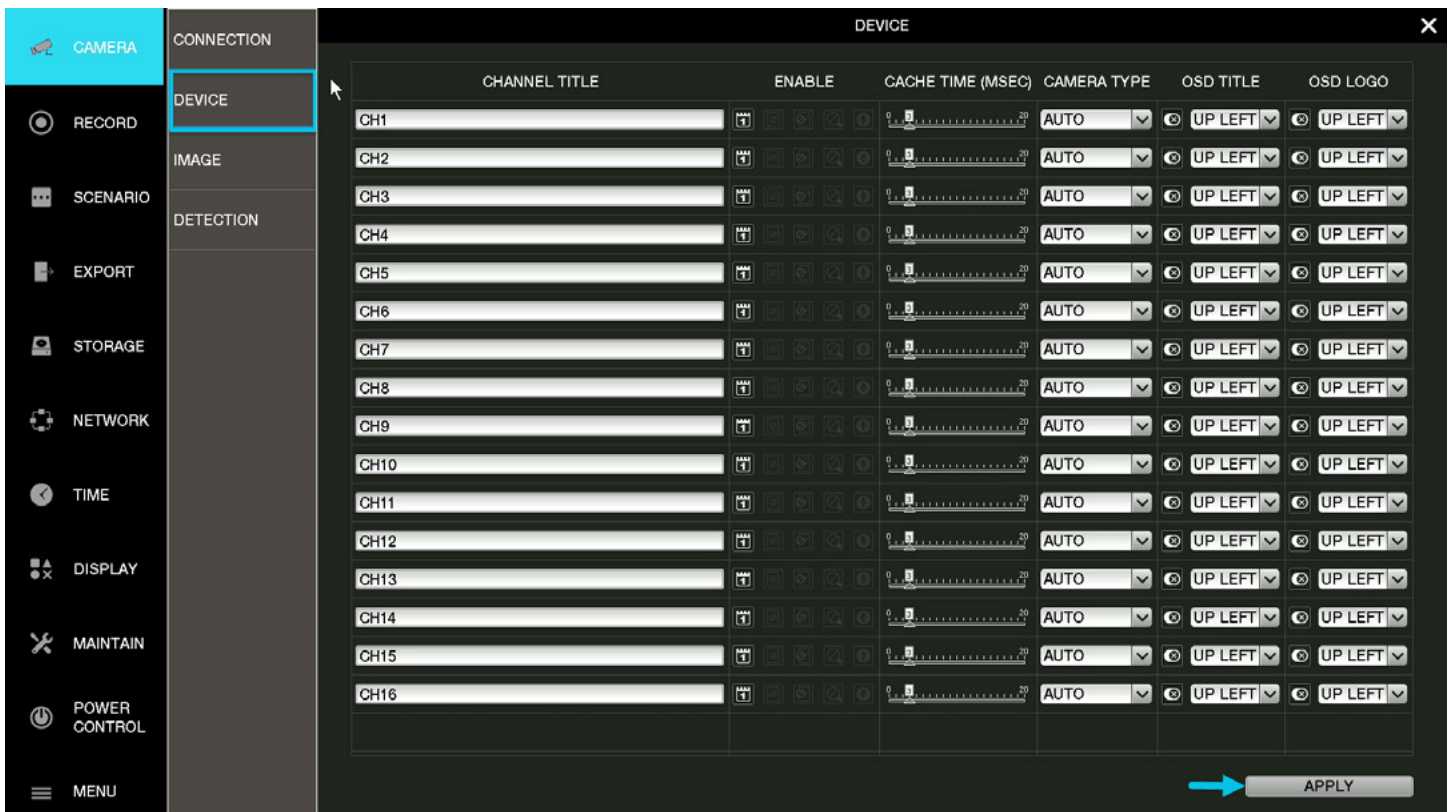
CONNECTION

CHANNEL TITLE	INTERFACE	EDIT	☐ ENABLE	URI	PORT	DEVICE TYPE	VENDOR	MODEL	STREAM
CH1	COAXIAL	 	☒						
CH2	COAXIAL	 	☒						
CH3	COAXIAL	 	☒						
CH4	COAXIAL	 	☒						
CH5	COAXIAL	 	☒						
CH6	COAXIAL	 	☒						
CH7	COAXIAL	 	☒						
CH8	COAXIAL	 	☒						

3. To configure the device settings, click **DEVICE**. From the DEVICE screen you can:

Function	Description
CHANNEL TITLE	Click a CHANNEL TITLE to name the channel (for example, "Front Door", name can contain up to 63 characters). The default name is the channel number.
ENABLE	Click ENABLE on a channel to enable or disable the Time Stamp. When enabled, the recording time displays on the channel's Live View.
CACHE TIME (MSEC)	The CACHE TIME (MSEC) determines the buffering time for playbacks. Buffering is the pre-loading of data to ensure videos do not lag during playback. This helps provide a smooth playback of recordings. This is set by default.
CAMERA TYPE	The CAMERA TYPE is detected automatically. We recommend you do not touch this setting.
OSD TITLE	Click the OSD TITLE dropdown to choose where you want a channel name to appear on the Live View screen. The options are UP LEFT / UP MIDDLE / UP RIGHT / DOWN LEFT / DOWN MIDDLE / DOWN RIGHT. When selected, the title displays in footage that is exported.
OSD LOGO	Click the OSD LOGO dropdown to choose where you want the logo to appear on the Live View screen. The options are UP LEFT / UP MIDDLE / UP RIGHT / DOWN LEFT / DOWN MIDDLE / DOWN RIGHT.

4. Click **APPLY** at the bottom of the screen when you are finished.



Configure the Image and Video Quality Settings

Adjust a Camera's Brightness, Contrast, Saturation, and Hue

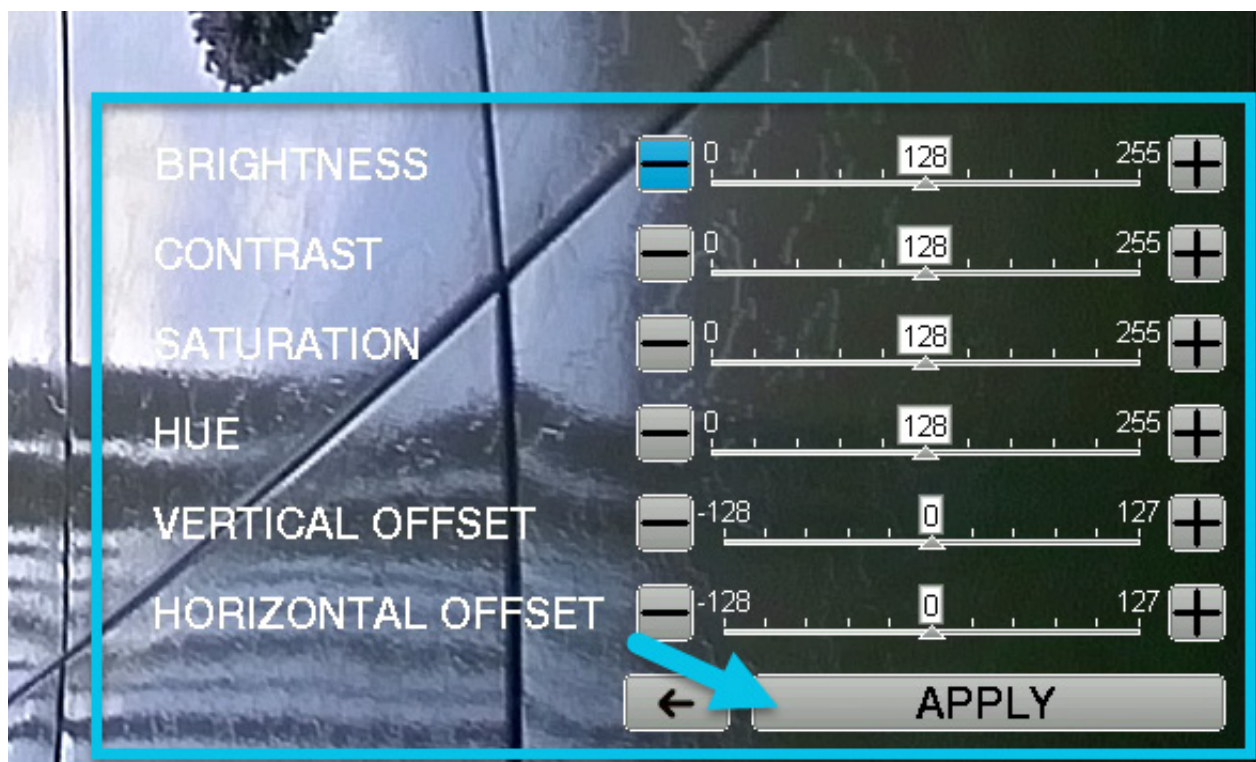
These settings are automatically set by default. However, the camera image quality can be affected by where the camera is mounted. If the image quality is dark or fuzzy, you can access this menu to adjust the image settings of the camera to provide optimal recordings.

1. Click **MENU > CAMERA > IMAGE**.
2. Click the **EDIT** icon for a channel (camera) to adjust that camera's Brightness, Contrast, Saturation, Hue, Vertical and Horizontal Offset.

The screenshot shows the 'CAMERA' application interface. The 'CAMERA' menu is open, and the 'IMAGE' option is selected. The 'IMAGE' menu is displayed, showing a table with columns: CHANNEL TITLE, BRIGHTNESS, CONTRAST, SATURATION, HUE, VERTICAL OFFSET, and HORIZONTAL OFFSET. The table lists channels CH1 through CH8, all with values of 128 for brightness, contrast, saturation, and hue, and 0 for vertical and horizontal offsets. The 'EDIT' button is highlighted in the top left of the table.

EDIT	CHANNEL TITLE	BRIGHTNESS	CONTRAST	SATURATION	HUE	VERTICAL OFFSET	HORIZONTAL OFFSET
	CH1	128	128	128	128	0	0
	CH2	128	128	128	128	0	0
	CH3	128	128	128	128	0	0
	CH4	128	128	128	128	0	0
	CH5	128	128	128	128	0	0
	CH6	128	128	128	128	0	0
	CH7	128	128	128	128	0	0
	CH8	128	128	128	128	0	0

3. Click **APPLY** when you are finished.



Adjust the Video Quality Settings

NOTE: These are advanced settings. Night Owl **STRONGLY** recommends that you keep these default settings as is.

1. Select **MENU > RECORD**. From the VIDEO SOURCE CONFIG screen, you can:

Callout	Function	Description
A	IMAGE SIZE	Click the IMAGE SIZE dropdown to select the image size for each channel (camera). The choices are CIF, FRAME, and 960H.
B	QUALITY	Click the QUALITY dropdown to select the video quality for each channel. The higher the value, the better the image quality. The choices are NORMAL, HIGH, BEST, and SUPER BEST.
C	I.P.S.	Click the I.P.S. dropdown to set the image per second. The higher the value, the smoother the video. The choices are 1.56, 3.12, 6.25, and 12.5.
D	BITRATE	Click the BITRATE (kbps) field to enter how much data to process per unit of time, for each channel. The higher the value, the better the video quality.
E	BITRATE CONTROL	The BITRATE CONTROL field shows the upper bit rate limit for the selected channel. For VBR, when the bit rate of the camera exceeds the value set, the video fluency may be affected. For CBR, when the bit rate of the camera exceeds the value set, the image quality may be affected.
F	G.O.V.	The G.O.V. (Group of VOPs) field shows the length of G.O.V. The greater the value, the poorer the image quality.

2. Click **APPLY** at the bottom of the screen when finished.



Adjust the Camera Light and Recording Settings

NOTE: The pre-defined scenarios are created for you to quickly enable the recording functions that are used frequently.

To adjust the camera light and recording settings, click **MENU > SCENARIO**. From the SCENARIO screen, you can perform the following actions:

- A. Enable/Disable the Camera Light
- B. Set the Recording Area
- C. Set the Recording Sensitivity

Set each channel's recording mode(s) by clicking the pencil icon. If you have a Night Owl Spotlight camera connected to your device, you can set it to turn the light ON when it detects human motion by clicking the checkbox in the Light Control Detection column.

CHANNEL	RECORDING BY	PUSH	LIGHT	RECORDING AREA	RECORDING SENSITIVITY
1. Pool	TIMELAPSE, HUMAN DETECTION, FACE	☐	☒	SET AREA	Medium
2. CH2	TIMELAPSE, HUMAN DETECTION, FACE	☐	☒	SET AREA	Medium
3. CH3	TIMELAPSE, HUMAN DETECTION, FACE	☐	☒	SET AREA	Medium
4. CH4	TIMELAPSE, HUMAN DETECTION, FACE	☐	☒	SET AREA	Medium
5. CH5	TIMELAPSE, HUMAN DETECTION, FACE	☐	☒	SET AREA	Medium
6. CH6	TIMELAPSE, HUMAN DETECTION, FACE	☐	☒	SET AREA	Medium
7. CH7	TIMELAPSE, HUMAN DETECTION, FACE	☐	☒	SET AREA	Medium
8. CH8	TIMELAPSE, HUMAN DETECTION, FACE	☐	☒	SET AREA	Medium
9. CH9	TIMELAPSE, HUMAN DETECTION, FACE	☐	☒	SET AREA	Medium
10. CH10	TIMELAPSE, HUMAN DETECTION, FACE	☐	☒	SET AREA	Medium
11. CH11	TIMELAPSE, HUMAN DETECTION, FACE	☐	☒	SET AREA	Medium
12. CH12	TIMELAPSE, HUMAN DETECTION, FACE	☐	☒	SET AREA	Medium

A. Enable/Disable the Camera Light

Enabled by default on all channels. If **LIGHT** is selected, the camera light is enabled and turns on when a Human Event is detected. You can customize your system if you choose to turn off the lights for specific cameras.

B. Set the Recording Area

Use this feature to block out certain areas within the camera frame from recording.

Click **SET AREA** for a channel to set the Recording Area. Left-mouse click to create your desired grid area:

- Area without the red or yellow grid is the area the DVR records.
- Area with the red or yellow grid is the area the DVR will NOT record.

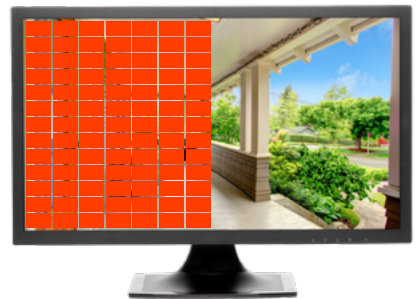
By default, the DVR is set to record the full screen (no grid).



Set to record Full Screen



Set to not record any event



Only right section of the screen will record

C. Set the Recording Sensitivity

Click the **RECORDING SENSITIVITY** dropdown to adjust the motion sensitivity needed to trigger a recording. The higher the sensitivity, the more recordings. The sensitivity ranges are low, medium, and high.

Enable the Timelapse, Detection, and Push Notification Settings

NOTE: The pre-defined scenarios are created for you to quickly enable the notification functions that are used frequently.

To enable the timelapse, detection and push notification settings:

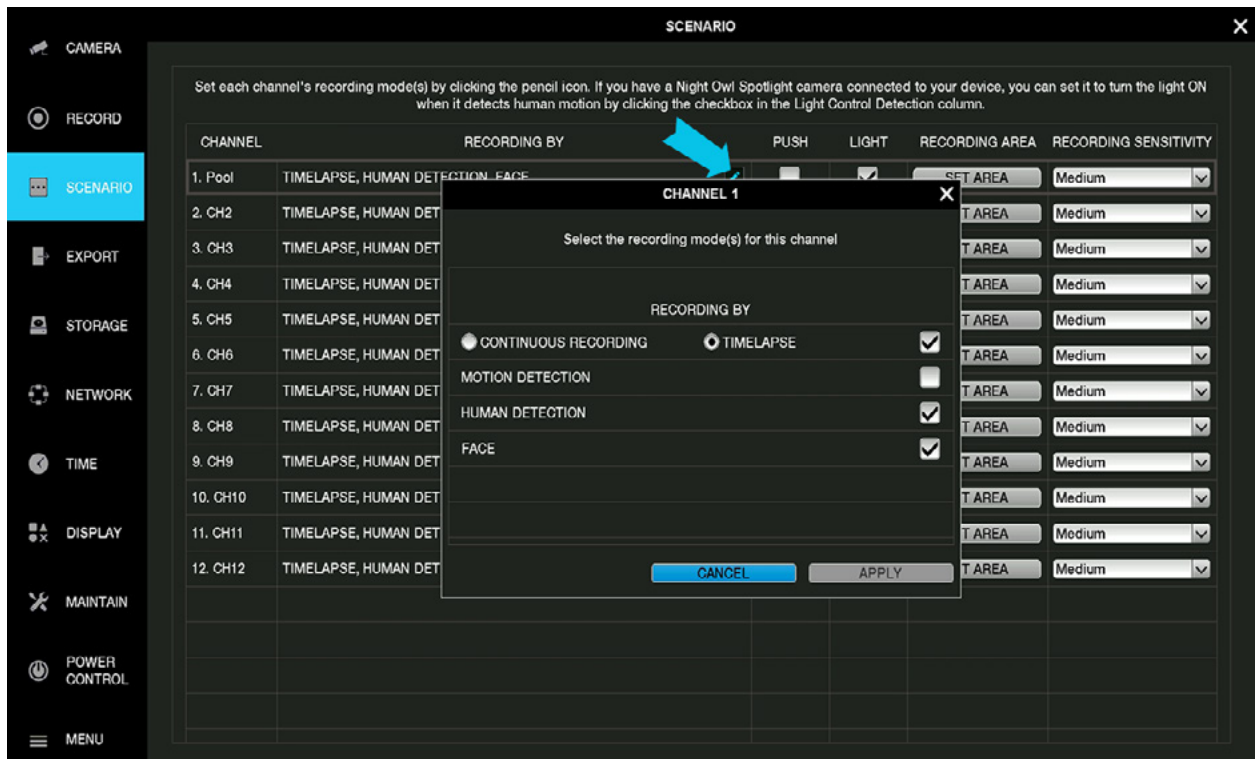
1. Select **MENU > SCENARIO**.

- Click the **EDIT** button  for a specific channel in the **RECORDING BY** section. From the CHANNEL window that appears, you can perform the following actions:

Function	Description
TIMELAPSE	Select TIMELAPSE to enable recording by timelapse. This is the default setting for all channels. Timelapse recordings are set at a reduced quality in order to take up less space on the DVR. The DVR records 24/7 at a reduced image quality so that you do not miss any events. When motion is detected, image quality increases.
MOTION DETECTION	Select to enable MOTION DETECTION . When selected, the DVR records at full frame rate when motion (pixel change) is detected.
HUMAN DETECTION	Select to enable HUMAN DETECTION . When selected, the DVR will record at full frame rate (high quality) when human motion is detected by one of the cameras.
FACE DETECTION	Select to enable FACE DETECTION . When selected, the DVR will capture a person's face when they are up to 10 ft. away from a camera.

- Click **APPLY** when finished.
- Click to enable **PUSH** for each channel. This feature is disabled by default. When enabled, the DVR sends push notifications to your Night Owl Protect App when triggered by an event.

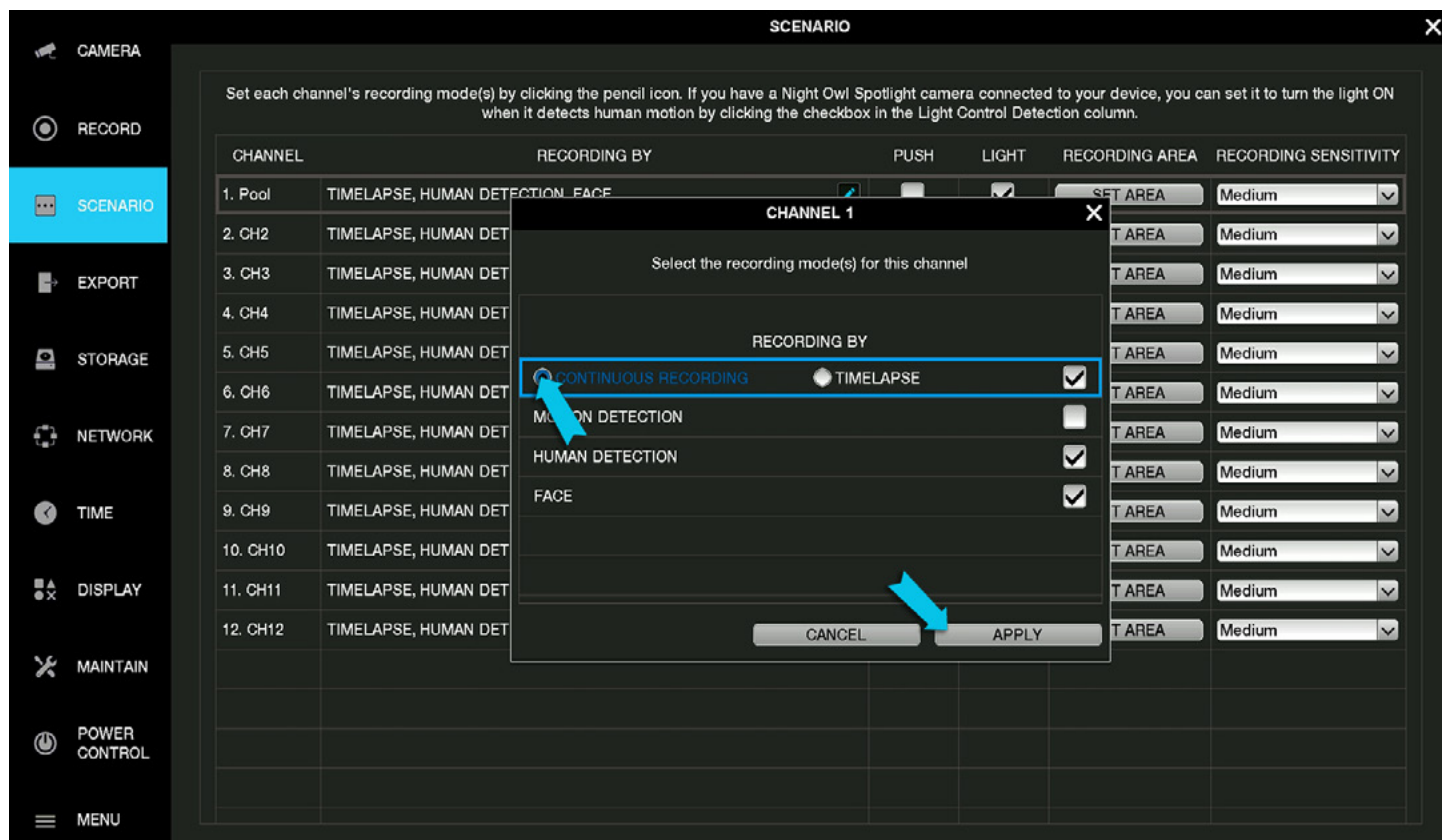
NOTE: To receive push notifications, the DVR MUST be connected to the Internet and added to your Night Owl Protect account.



Configure Continuous Recording

If you would like your camera to record continuously (without buffering) during detected events, complete these steps:

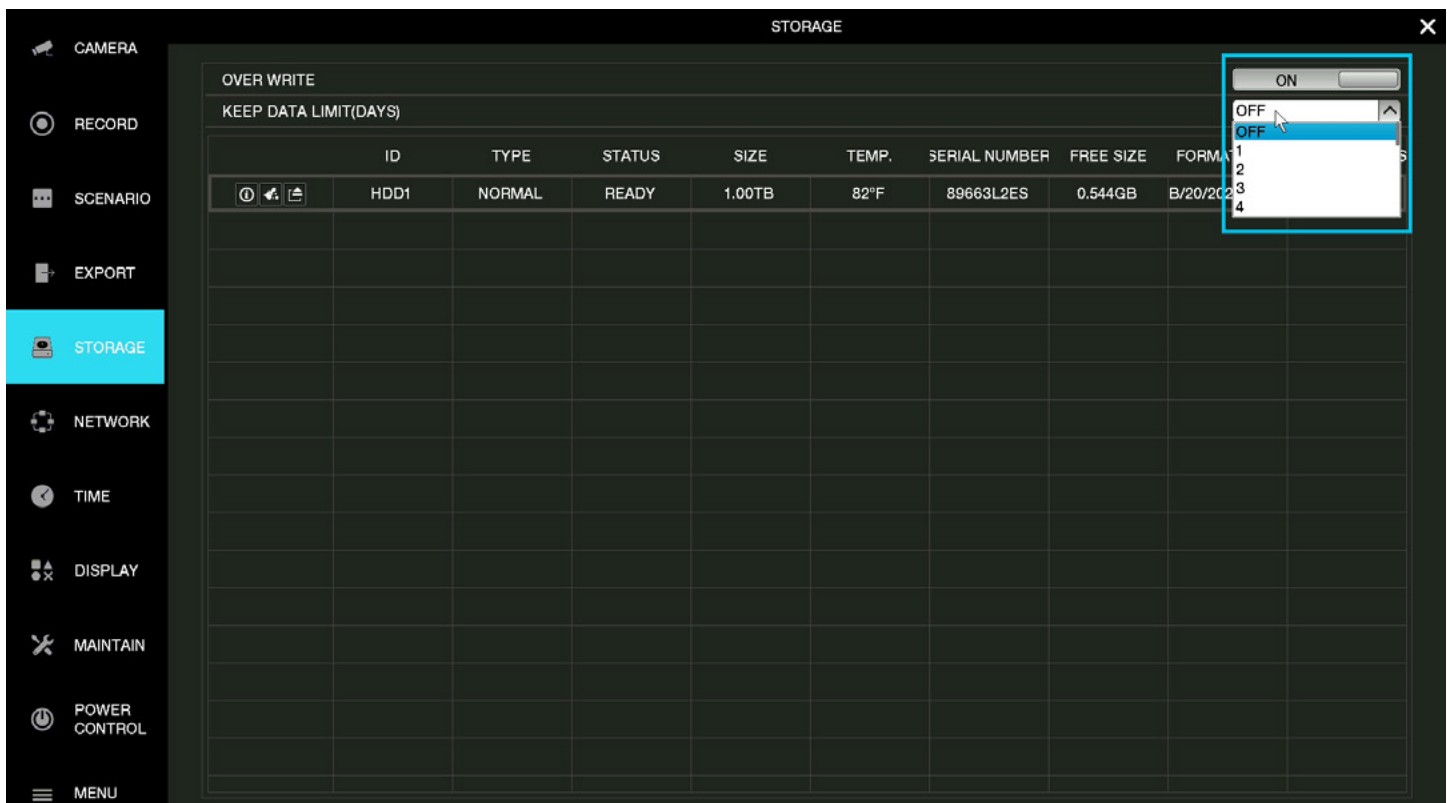
1. Click **MENU > SCENARIO**.
2. Click the **EDIT** button  for the channel (camera) you wish to configure.
3. Select or de-select **CONTINUOUS RECORDING** based on whether or not you want the camera to continuously record.
4. Click **APPLY** to save your settings.



Adjust the Storage Settings

To adjust the storage settings on the HDD, click **MENU > STORAGE**. From the STORAGE screen you can:

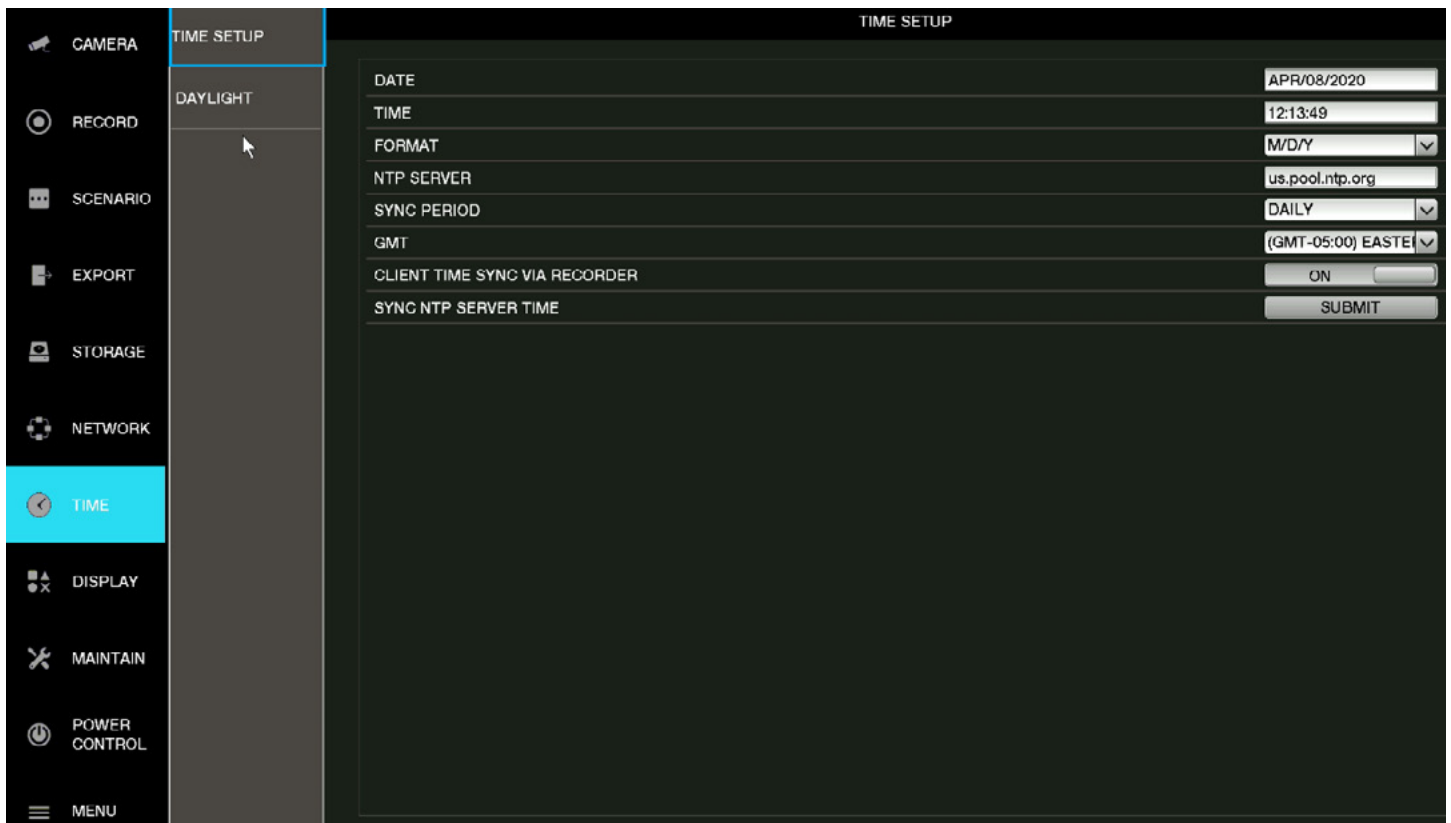
Function	Description
OVERWRITE	From the OVERWRITE field click to select OFF to turn this feature off. By default, HDD Overwrite is set to ON . When on, the  icon appears on the Live View screen. It is recommended that you keep this setting ON . If turned off, once the HDD is full, you will only be able to use the Live View feature. Videos will no longer be stored. Keep this setting ON to prevent the HDD from filling up.
KEEP DATA LIMITS (DAYS)	Click the KEEP DATA LIMITS (DAYS) dropdown to select how many days to save videos stored on the HDD, from 1 to 31 days. Once the assigned amount of days is reached, the video is removed to free up space for current video recordings when OVERWRITE is set to ON . Select OFF to disable this function.



Adjust the Date, Time, and Daylight Savings Settings

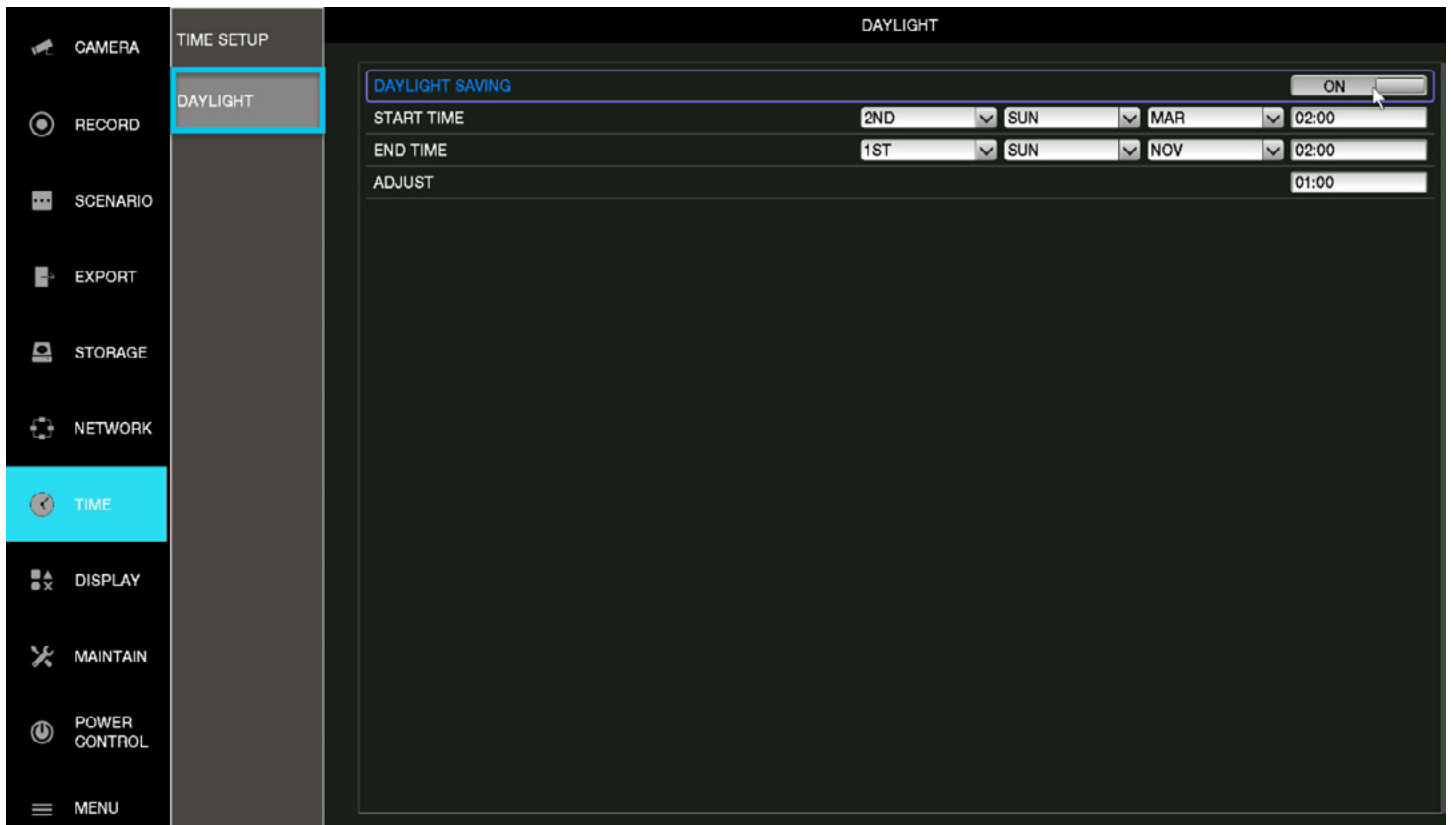
To adjust any of the date and time settings on the DVR, click **MENU > TIME > TIME SETUP**. From the Time Setup screen, you can:

Function	Description
DATE	Click in the DATE field to set the current date. The default display format is MONTH/DATE/YEAR (M/D/Y).
TIME	Click in the TIME field to set the current time in HOUR : MIN : SEC.
FORMAT	Click the FORMAT dropdown to set the time display. The format is Y/M/D, M/D/Y, or D/M/Y.
NTP SERVER	Click in the NTP SERVER field to change the default NTP server to another server you are familiar with or keep the default NTP server.
SYNC PERIOD	Click the SYNC PERIOD dropdown to select to synchronize the device's time every day (DAILY), or turn this function off (OFF). This setting ensures the DVR date and time remains current.
GMT	Click the GMT dropdown to select your Time Zone. Make sure you choose the correct Time Zone. If connected to the Internet, the DVR detects this automatically.
CLIENT TIME SYNC VIA RECORDER	Click to turn the CLIENT TIME SYNC VIA RECORDER ON or OFF . When the DVR is connected to the Internet and this is set to ON , this setting ensures the DVR is using the correct time zone.
SYNC NTP SERVER TIME	Click SUBMIT next to SYNC NTP SERVER TIME to synchronize the DVR's time with the NTP server, pre-defined in NTP SERVER. THIS ACTION IS NOT RECOMMENDED.



To adjust for Daylight Savings, click **MENU > TIME > DAYLIGHT**. From the DAYLIGHT screen, you can:

Function	Description
DAYLIGHT SAVINGS	Click ON or OFF for DAYLIGHT SAVINGS to enable (ON) or disable (OFF). When OFF, the time will not adjust when Daylight Savings is in effect.
START TIME/END TIME	Click the START TIME / END TIME dropdowns to set the start time and end time for Daylight Savings.
ADJUST	Click in the ADJUST field to set the time in HOUR : MIN.



Adjust the Monitor Display Settings

Click **MENU > DISPLAY**. From the DISPLAY screen, you can adjust the following monitor display settings:

Function	Description
CHANNEL TITLE	From the CHANNEL TITLE field, select ON or OFF to choose if you want to display the channel title in Live View.
EVENT STATUS	From the EVENT STATUS field, select ON or OFF to choose if you want to display the Event Icons in Live View (Human, Motion Detection, Face Detection, and Anti-theft).
AUTO KEY LOCK(S)	Click the AUTO KEY LOCK(S) dropdown to set the display's time-out, after which the DVR display locks and you must log back in. The available settings are NEVER, 30 sec, 60 sec, and 120 sec.
HDD DISPLAY MODE	Click the HDD DISPLAY MODE dropdown to select REMAINING SIZE to show the remaining HDD capacity for recording, or REMAINING TIME to show the remaining recording time on the Live View screen.
DISPLAY OUTPUT	Click the DISPLAY OUTPUT dropdown to select the display resolution. The default value is AUTO. This is used for the main display output. Ensure your TV or Monitor has a minimum 1080p resolution. Night Owl recommends that you leave this setting as is.
LANGUAGE	Click the LANGUAGE dropdown to select your language.
CALL SCREEN DURATION	Click the CALL SCREEN DURATION dropdown to select the duration time in seconds (03 / 05 / 10 / 15) when the channel display mode shows a 1-panel channel display and  (Sequence) is selected.
QUAD SCREEN DURATION	Click the QUAD SCREEN DURATION dropdown to select the duration time in seconds (03 / 05 / 10 / 15) when the channel display mode shows a 4-channel panel display and  (Sequence) is selected.

NOTE: To have the best image quality on your monitor, ensure:

- The selected output resolution is supported by your TV / Monitor.
- The output settings on both the TV / Monitor and the DVR are consistent. If the image is not positioned or scaled properly, refer to your TV / Monitor's menu for adjustment. For details, refer to the TV / Monitor's User Manual.

DISPLAY

CHANNEL TITLE

ON

EVENT STATUS

ON

AUTO KEY LOCK(S)

NEVER

HDD DISPLAY MODE

REMAINING SIZE

DISPLAY OUTPUT

1920x1080

LANGUAGE

ENGLISH

CALL SCREEN DURATION

03

QUAD SCREEN DURATION

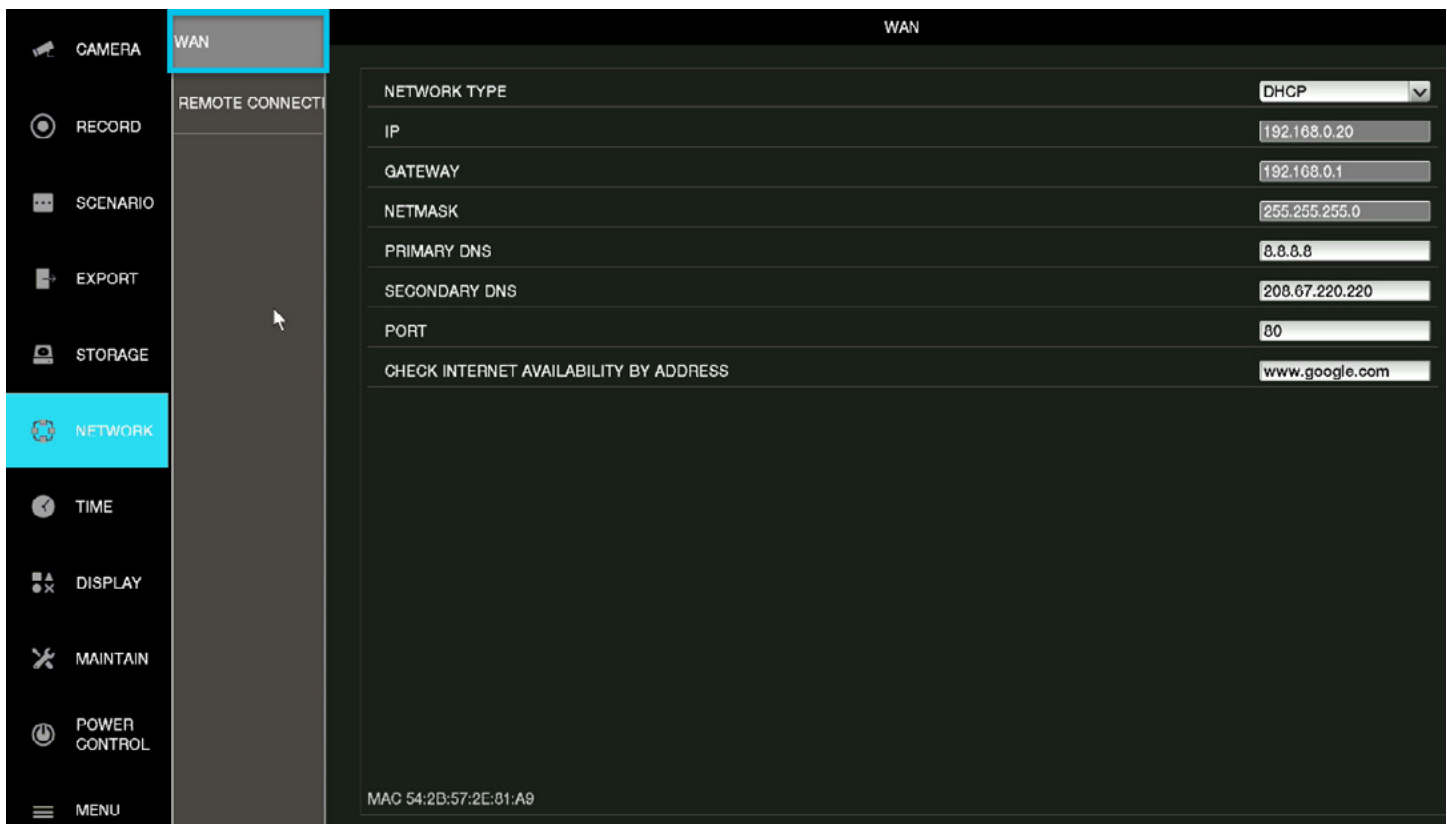
03

View Network Settings

IMPORTANT: STOP! Night Owl **STRONGLY** recommends not adjusting these settings. These are for advanced users and installers.

To view your network settings, click **MENU > NETWORK**. From the WAN screen, you can review the following settings:

Function	Description
NETWORK TYPE	DHCP Network configuration mode that gathers the network values automatically from the DHCP server. If unchecked, this value can be set manually.
IP	Network address of the connected DVR.
GATEWAY	The connection between two networks. This should always be the IP address of the connected router.
NETMASK	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.
PRIMARY DNS	Domain Name System server address.
SECONDARY DNS	The secondary Domain Name System server address.
PORT	Allows a computer to access the DVR through your LAN or the Internet. The default value is 80.
CHECK INTERNET AVAILABILITY BY ADDRESS	This field uses the URL on the field as a reference to check the Internet status.



Back Up or Restore Current DVR Configuration, and Restore Factory Defaults

Click **MENU > MAINTAIN > SYSTEM**. From the SYSTEM screen, you can perform the following actions:

Back Up or Restore DVR Configurations

To save the DVR's current configurations for later use:

1. Insert a compatible USB flash drive into the USB port on the back of the DVR.
2. Click **SUBMIT** in the **BACKUP CONFIG** field to copy the current DVR configurations to a file "System. bin" and save to your USB flash drive.

To restore the DVR configurations:

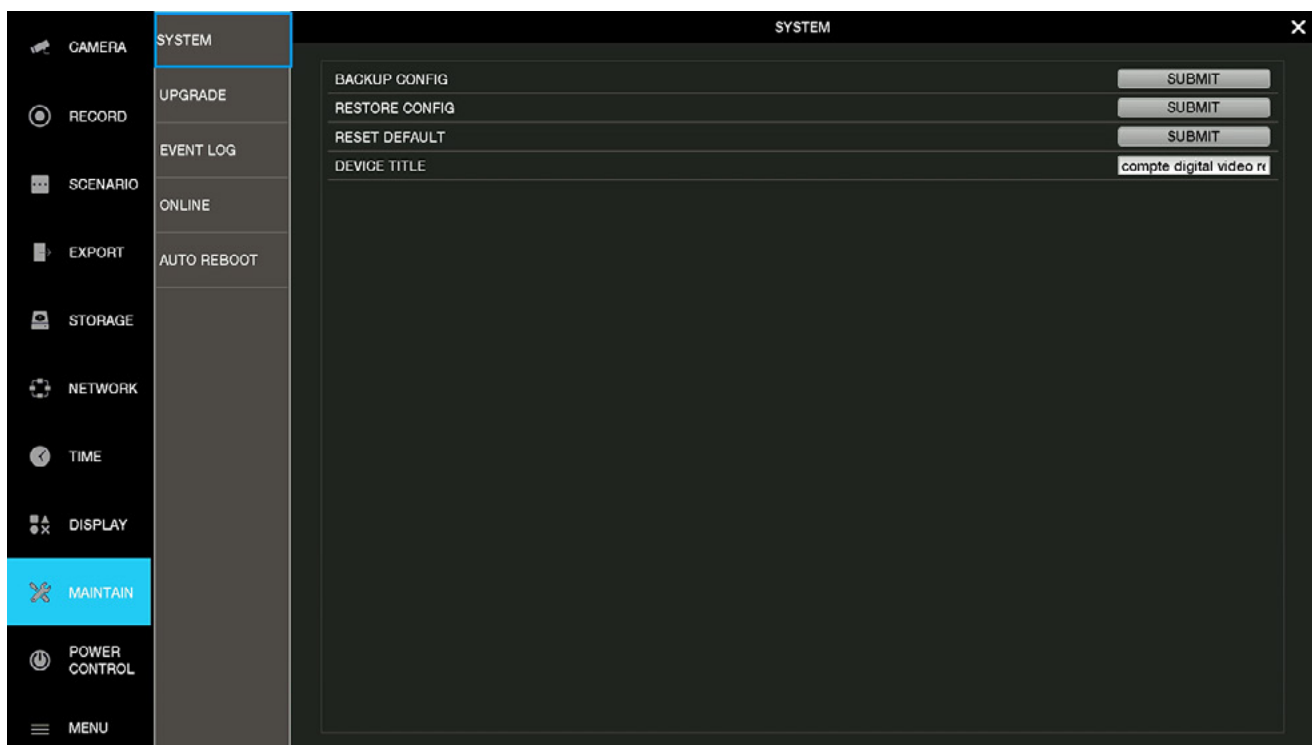
1. Insert the USB flash drive with the file "System.bin" into the USB port.
2. Click **SUBMIT** in the **RESTORE CONFIG** field.

Reset the DVR to Factory Defaults

IMPORTANT: If you complete this procedure, you will lose all modified changes and settings that you made, as well as any saved recordings.

To reset the DVR to factory default:

1. Click **SUBMIT** in the **RESET DEFAULT** field to reset all settings or partial settings to their factory default values.
2. Select **YES** to confirm or **NO** to cancel. The system reboots after reset.



Periodically Upgrade Your DVR Firmware

NOTE: Your DVR firmware automatically updates once a week (Saturday after midnight) when connected to the Internet.

Select **MAINTAIN > UPGRADE > LOCAL**. From the UPGRADE screen, there are two options for manually upgrading your DVR firmware:

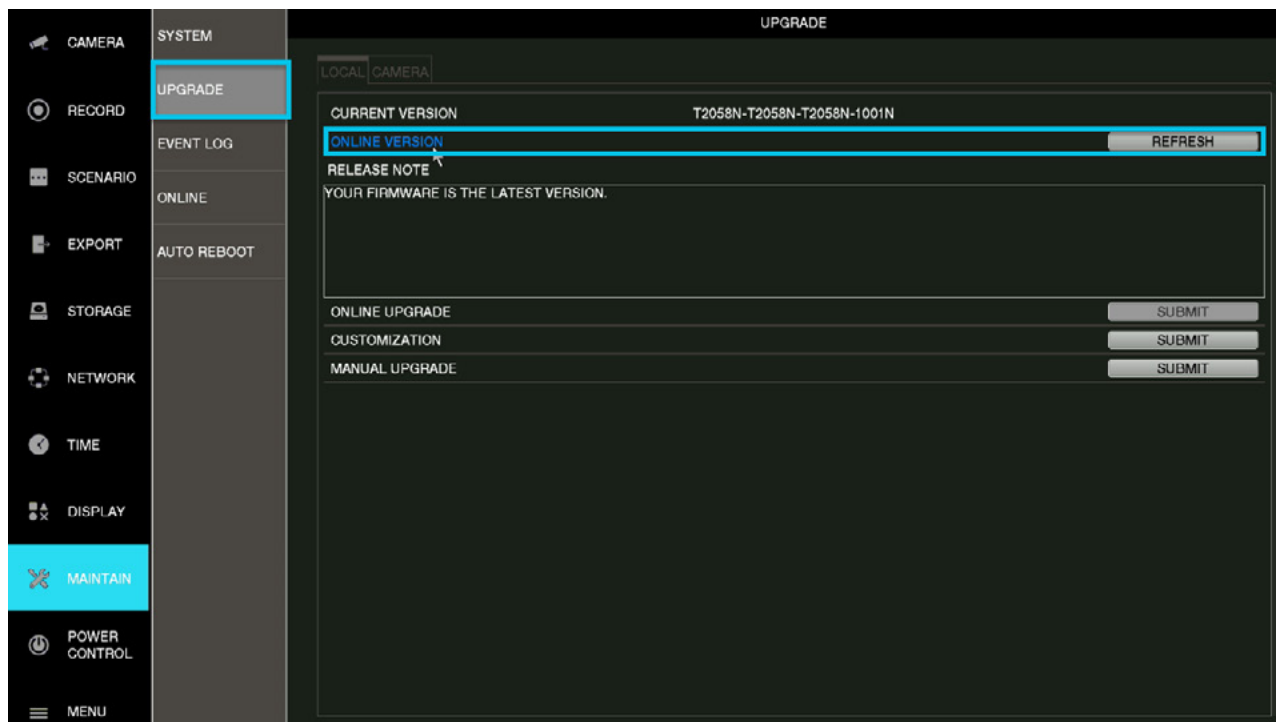
- Online (recommended)
- Download upgrade to USB flash drive

Online Upgrade

NOTE: Your DVR must be connected to the Internet to perform an online upgrade.

Check the RELEASE NOTE section of the screen. If it says “Your Firmware is the latest version.”, you do not require an upgrade at this time. If you do require an upgrade:

1. Click **REFRESH** for **ONLINE VERSION** to display the latest DVR firmware version.
2. Click **SUBMIT** for **ONLINE UPGRADE** to download and install a new firmware version.



USB Flash Drive Upgrade

NOTE: Ensure your USB flash drive is formatted to FAT32 before you complete this upgrade. Refer to *Format a USB Flash Drive or External Hard Drive*.

Take note of the current DVR firmware version on your DVR (click **MENU > MAINTAIN > UPGRADE**). Then go to <https://support.nightowlsp.com/> and type “DP2” or “DP8” (see the support label on your DVR to confirm) in the search field to access the latest firmware. Follow the instructions that are provided with the download.

View and Clear Event Logs

Event logs are a record of all actions taken on the DVR. Event logs show things like each time someone logs into the DVR, each time the DVR is powered on, if a camera has experienced video loss, and so forth. Event logs are simply a written record that can be viewed and cleared at your discretion.

To view Event Logs, click **MENU > MAINTAIN > EVENT LOG**. From the EVENT LOG screen you can:

Function	Description
PREV or NEXT	Click PREV or NEXT to scroll through and view your event logs.
CLEAN	Click CLEAN to clear all of your event logs.

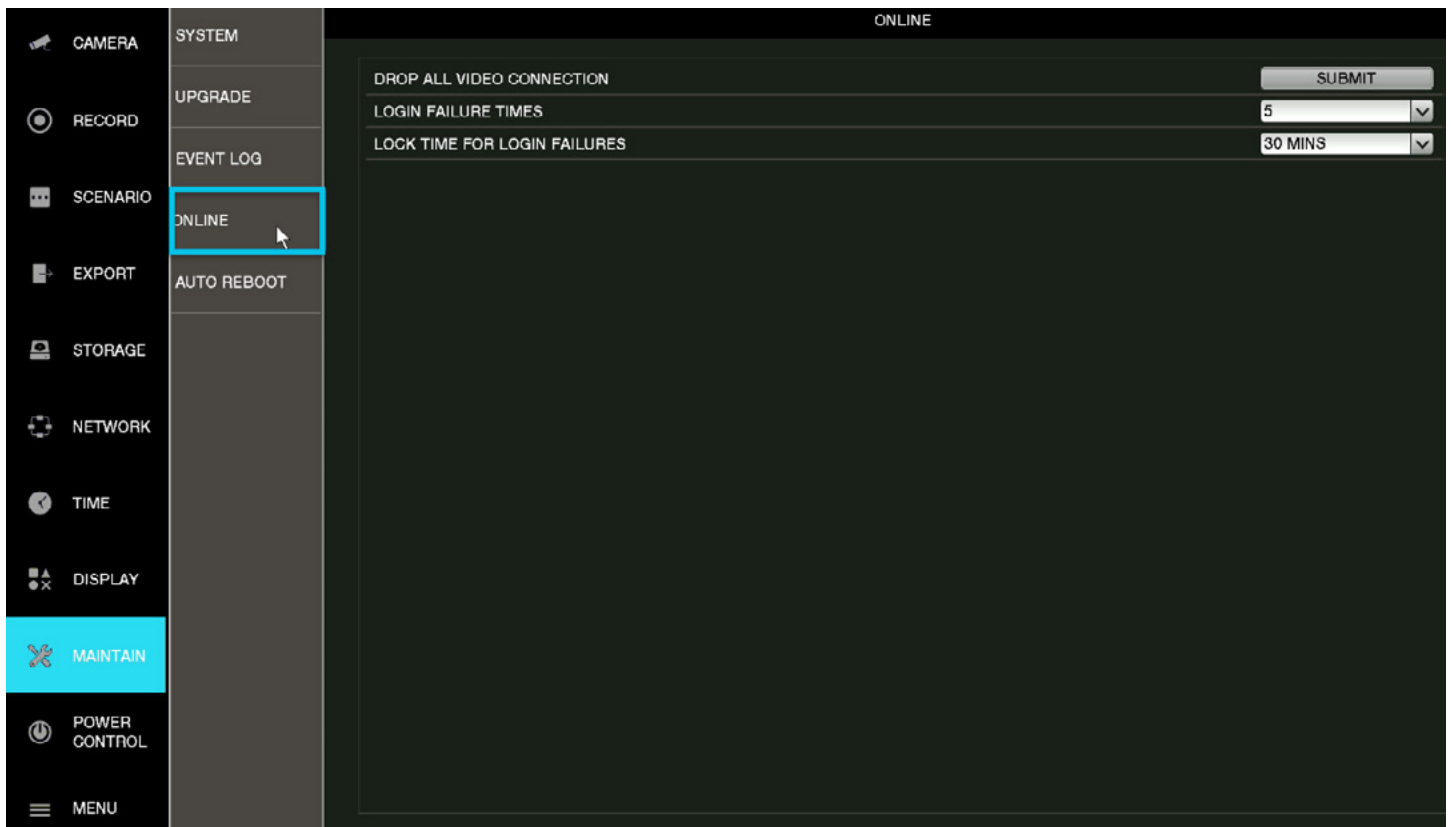
The screenshot shows the DVR's interface with the **EVENT LOG** screen active. The left sidebar has a **MAINTAIN** menu with **EVENT LOG** highlighted. The main screen displays a table of event logs with columns for **EVENT**, **TIME**, and **COMMENT**. The table lists various events like **VIDEO LOSS** and **POWER ON** with their corresponding timestamps and comment numbers. At the bottom, there are buttons for **PREV**, **NEXT**, and **CLEAN**.

EVENT	TIME	COMMENT
VIDEO LOSS	APR/08/2020 13:23:15	08
VIDEO LOSS	APR/08/2020 13:23:15	07
VIDEO LOSS	APR/08/2020 13:23:14	06
VIDEO LOSS	APR/08/2020 13:23:14	05
VIDEO LOSS	APR/08/2020 13:23:14	04
VIDEO LOSS	APR/08/2020 13:23:14	03
VIDEO LOSS	APR/08/2020 13:23:14	02
POWER ON	APR/08/2020 13:23:04	
VIDEO LOSS	APR/08/2020 13:20:17	08
VIDEO LOSS	APR/08/2020 13:20:17	07
VIDEO LOSS	APR/08/2020 13:20:16	06
VIDEO LOSS	APR/08/2020 13:20:16	05
VIDEO LOSS	APR/08/2020 13:20:16	04
VIDEO LOSS	APR/08/2020 13:20:16	03
VIDEO LOSS	APR/08/2020 13:20:16	02
POWER ON	APR/08/2020 13:20:05	
VIDEO LOSS	APR/08/2020 12:55:12	08
VIDEO LOSS	APR/08/2020 12:55:12	07
VIDEO LOSS	APR/08/2020 12:55:12	06
VIDEO LOSS	APR/08/2020 12:55:11	05
VIDEO LOSS	APR/08/2020 12:55:11	04
VIDEO LOSS	APR/08/2020 12:55:11	03

Configure Attempted Login Settings

To configure the system's login settings, select **MENU > MAINTAIN > ONLINE**. From the ONLINE screen you can:

Function	Description
DROP ALL VIDEO CONNECTION	Click SUBMIT in the DROP ALL VIDEO CONNECTION field to revoke access from anyone who has access to your DVR from their smart device.
LOGIN FAILURE TIMES	Click the LOGIN FAILURE TIMES dropdown to select how many times a user can enter an incorrect password before they are locked out of the system.
LOCK TIME FOR LOGIN FAILURES	Click the LOCK TIME FOR LOGIN FAILURES dropdown to select how long to lock the IP address after login failures limit is reached (1 MIN / 2 MINS / 3 MINS / 5 MINS / 10 MINS / 30 MINS / 1 HOUR).

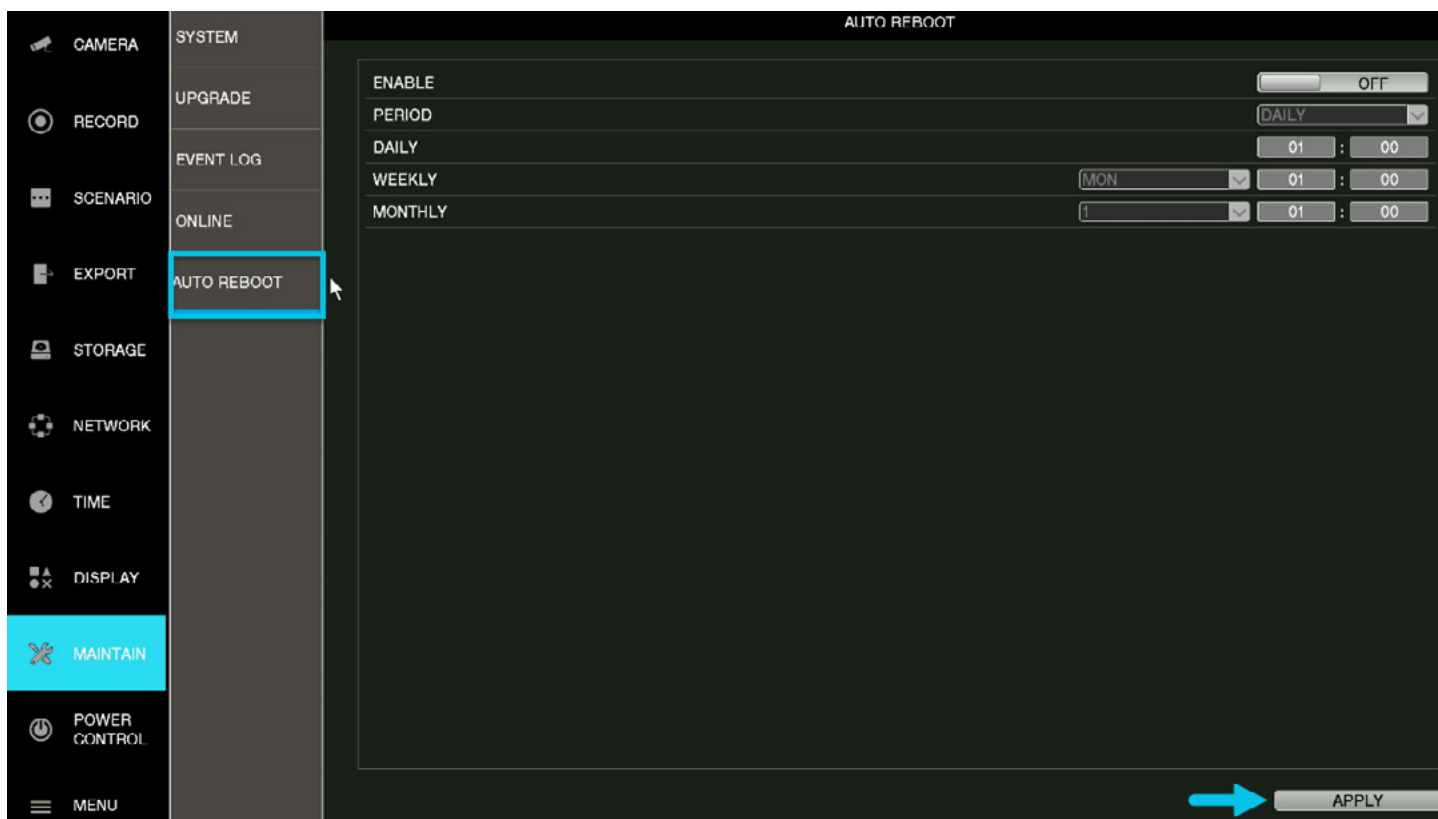


Configure Your DVR's Auto Reboot Settings

1. To enable or disable your DVR's auto reboot settings and set the timeframe for the reboot, click **MENU > MAINTAIN > AUTO REBOOT**. From the AUTO REBOOT screen, you can:

Function	Description
ENABLE	From the ENABLE field, select ON or OFF to enable or disable the Automatic Reboot feature.
PERIOD	From the PERIOD field, select if you want your DVR to reboot on a daily, weekly, or monthly basis. Rebooting the DVR allows it to search for new firmware updates that are released periodically to address system issues and improve features. It is recommended that the DVR be rebooted a minimum of once weekly.
DAILY	From the DAILY field, select the time of day for the DVR reboot. This setting is used if you set your DVR to reboot daily so that you can then set what time of day for the reboot. Hours are in a 24-hour format from 00 – 23.
WEEKLY	From the WEEKLY field, select the day and time you want your DVR to reboot. This setting is used if you set your DVR to reboot weekly so that you can set what day of the week and time of day for the reboot.
MONTHLY	From the MONTHLY field, select the date and time of day you want your DVR to reboot. This setting is used if you set your DVR to reboot monthly so that you can set what day of the month and time of day for the reboot.

2. Click **APPLY** at the bottom of the screen when finished.



Resetting/Forgot Your Password

NOTE: You are unable to reset your password from the DVR. You must either reset your password from the Night Owl Protect App or the Night Owl Web Portal.

Reset Your Password from the Night Owl Protect App

(Highly Recommended) The quickest and easiest way to reset your password is through the Night Owl Protect App. Your DVR must be powered on and connected to the Internet before you complete these steps. To change your password:

1. Tap **Account** > *your name* > **Change Password**.
2. Enter your current password in the **Current Password** field, enter your new password in the **New Password** field, and then re-enter your new password in the **Confirm Password** field.
3. Tap **Done** when you are finished.

If you forgot your password:

Tap **Forgot my password** from the app and directions for resetting will be sent to your registered email address.

NOTE: If you were logged into the app using the FaceID or PIN, you will need to log out to use Forgot my password. Do this by clicking **Account** then **Log Out**.

Reset Your Password from the Web Portal

1. Go to <https://www.no-protect.com/>.
2. Enter your username, email, or phone number in the **Username, email, or phone number** field at the top of the screen. Then enter your password in the **Password** field at the top of the screen. Click **Log In**.
3. From the top-right of the screen, click the dropdown next to your account name and select **Manage my Account**.
4. Click **Change Password**.
5. Enter your current password in the **Current Password** field, enter your new password in the **New Password** field, and then re-enter your new password in the **Confirm Password** field. Click **Change Password**.

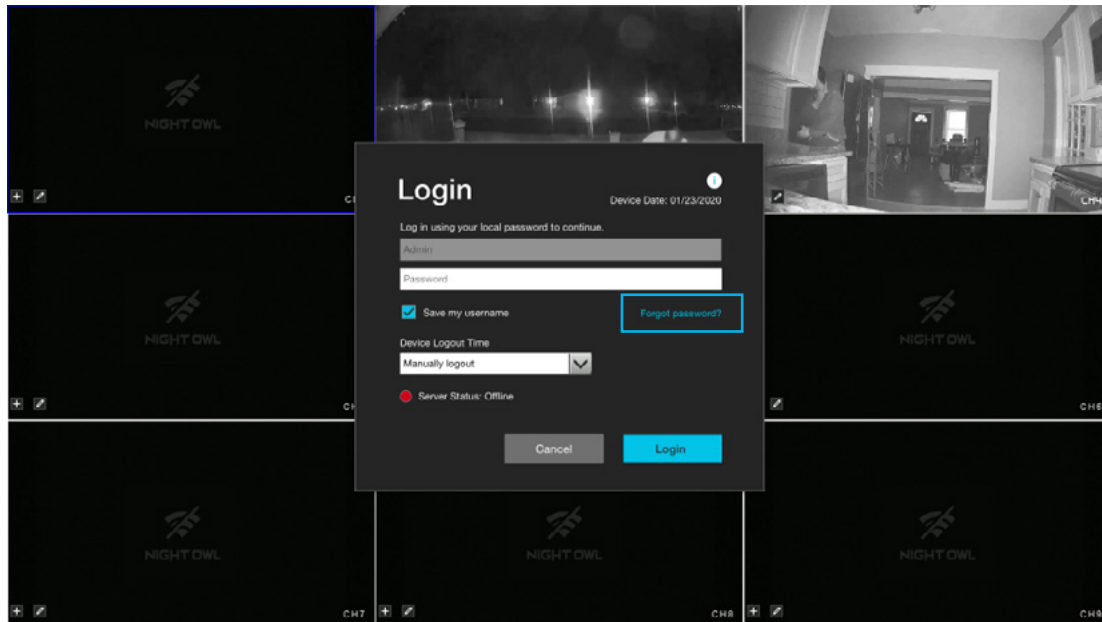
If you forgot your password:

Go to <https://www.no-protect.com/> and enter your phone number, username or email. Then click **Forgot password?**. A temporary access code will be sent to your registered email. Use the code to log in to the web portal and then update the password, as this code is only good for 24 hours.

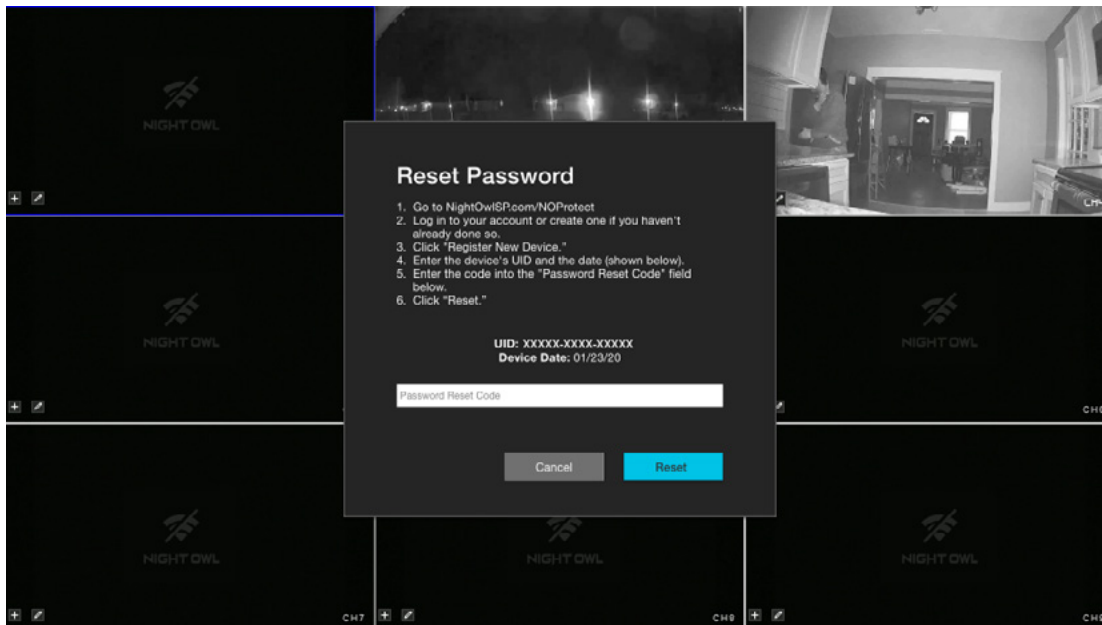
Forgot Your Local Password (DVR Not Connected to the Internet)

NOTE: If you did not connect your DVR to the Internet during the initial setup and instead chose to create a local password or your device is offline, follow the steps below.

1. With your DVR connected to a TV / Monitor, access the Login screen and click **Forgot password?.**



2. Follow the instructions listed on the Reset Password screen.



3. Go to <https://www.no-protect.com/>
4. If you already created a Night Owl Protect account, simply log in. If not, create an account.
5. If the device is showing Offline, but has already been registered, proceed to step 6. If the device has not been registered, click **Register New Device** and follow the prompts.

NOTE: The 1st 6 digits of the UID and the date can be found on the Reset Password screen on your TV / Monitor.

6. Once the device has been added to your My Devices page, click on **View Details** followed by **Reset Code**.
7. Enter the date from the Reset Password screen (TV / Monitor) and then click **Get Code**.
8. You will be provided a temporary access code. Return to your TV / Monitor and enter this code to gain entry.

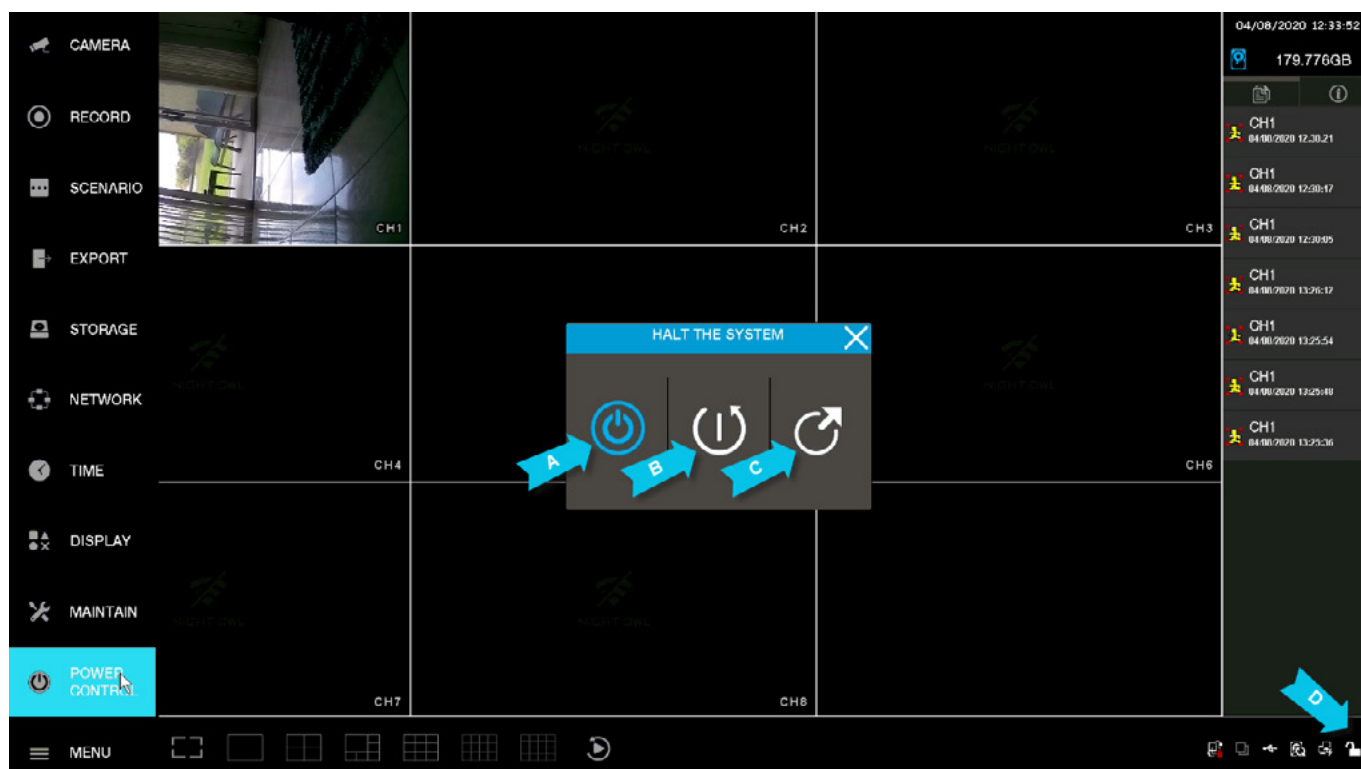
NOTE: If the UID and date you entered into the web portal were not correct, the temporary access code will not work and you will need to remove the device and re-register it.

Shut Down, Reboot, and Logout of the System

To shut down, reboot, or logout of the DVR at any time, click **MENU > POWER CONTROL**. From here, you can:

- A. Click the **System Halt** button to turn off the system and remove the power adapter. This is the safest way to shut down the system.
- B. Click the **System Reboot** button to reboot the system.
- C. Click the **System Logout** button to logout and/or login with another account. You can also click the  icon (D) located on the bottom-right of this screen.

NOTE: When logging back in, the default username and password for offline or unregistered DVR's is "admin". To log back into DVR's that are online and registered, enter your Night Owl Protect credentials.



Troubleshooting

Problem	Possible Cause	Solution
The logo freezes at initial setup.	The initial startup can take several minutes.	If the logo remains frozen after several minutes, disconnect from the Internet and then unplug the DVR and plug it back in.
I am experiencing video loss or degradation.	Camera cables are loose or have become disconnected.	Check the camera video cable and connections. Disconnect and reconnect the cable at the system and at the camera. Move the camera to another channel or use another cable.
	The camera is too far from the DVR.	The further the camera is from the DVR or monitor, the higher the chances of signal degradation. Locate the camera's power supply as near to the camera as possible when the distance exceeds 200 ft. as the power level will drop over extended distances resulting in video degradation.
	The camera cable is not compatible with the system.	This system is designed to work with CL2 UL Rated cabling or better. Night Owl cables are strongly recommended.
The system is not receiving power or is not powering up.	The power adapter cable is loose or unplugged.	Confirm that all cables are correctly connected. Confirm that the power adapter is securely connected to the back of the unit.
	The cables are connected but the system is not receiving sufficient power.	Confirm that the system is powered ON. If the unit is connected through a power bar or surge protector, try bypassing the bar and connecting the power directly to the wall outlet. Confirm that there is power at the outlet. Connect the power cable to another outlet. Test the outlet with another plugged device (such as a phone charger).
The DVR's hard drive is full (0%) and no longer recording.	Overwrite is not enabled.	Click MENU > STORAGE and ensure that Overwrite is set to ON .
The system does not detect the mouse.	The mouse cable is not firmly connected to the system.	Firmly connect the mouse cable to the USB mouse port on the back panel.
	The mouse is disconnected from the system.	
	The system needs to be reset.	Power off the system (disconnect power cable). Firmly connect a USB mouse to the USB Mouse port on the back panel of the system. Reconnect the power cable to the DC 19V.
There is no picture on selected channels/camera picture is not being displayed.	Camera cables are loose or disconnected.	Check the camera video cable and connections. Disconnect and reconnect the cable at the system and at the camera. Move the camera to another channel or use another cable.
The system beeps at startup.	This is normal.	The beep at startup is normal.

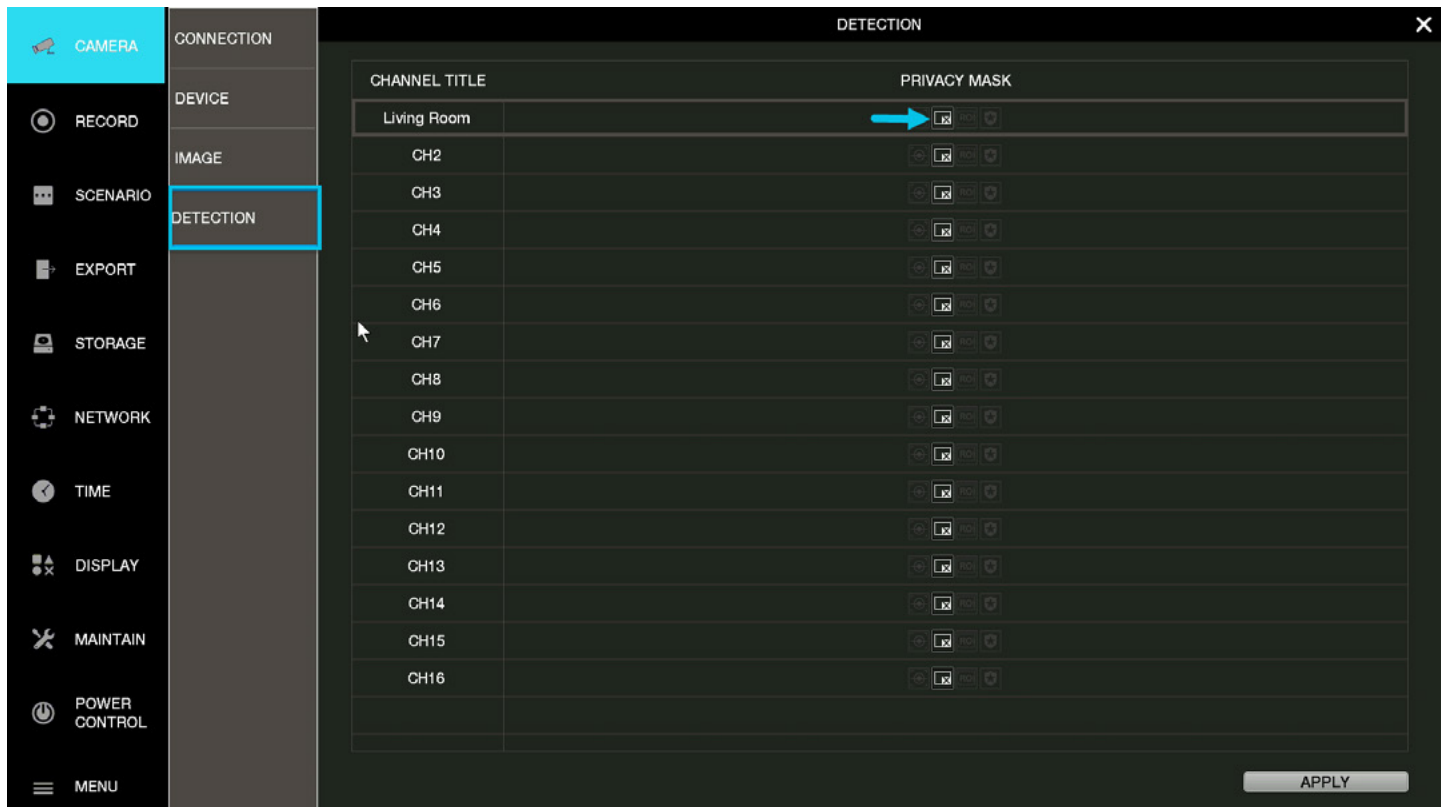
Advanced Configurations

STOP: Please do not adjust the Advanced Configuration Settings unless you are familiar with and understand the changes you are making.

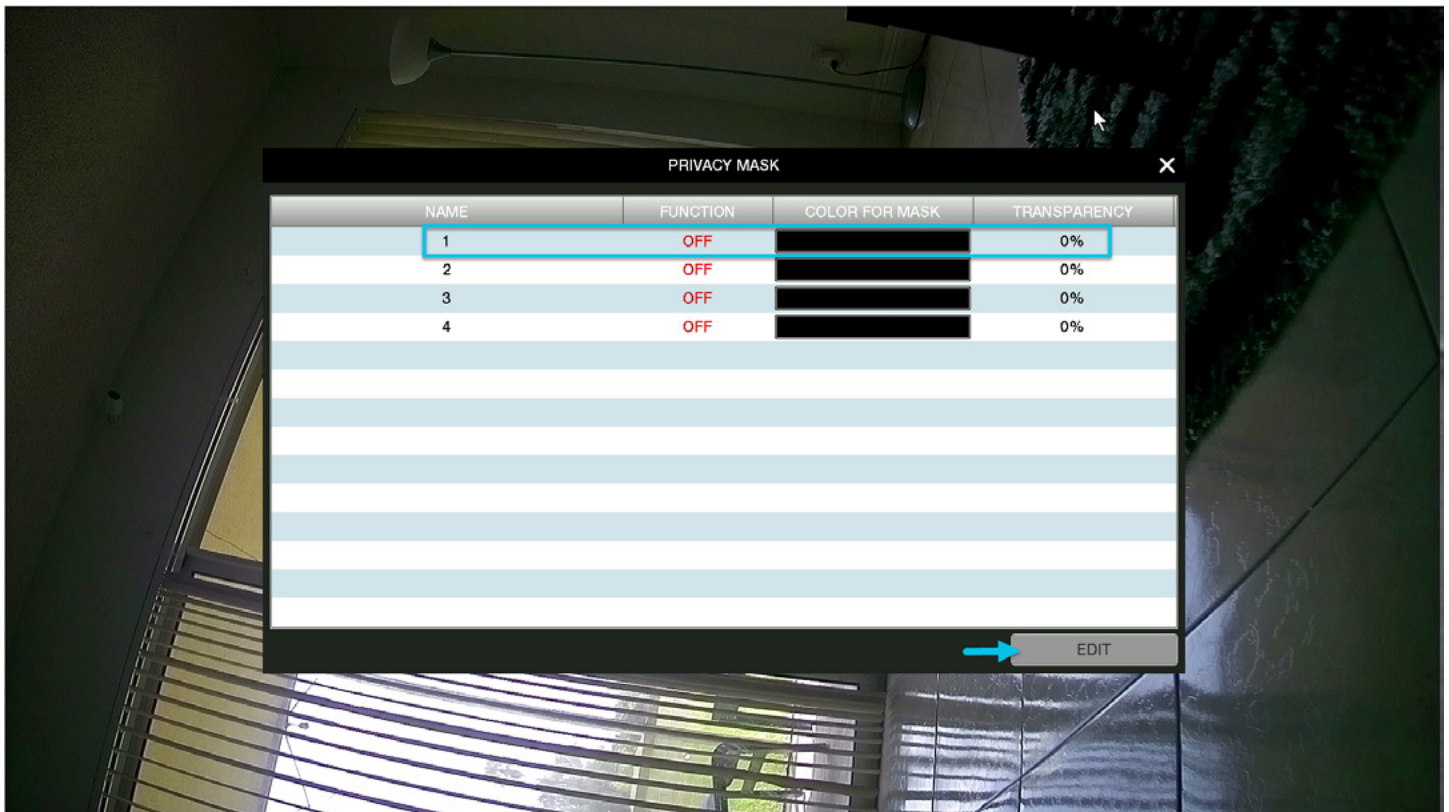
Adjust the Privacy Mask

You can cover certain areas on the camera image with privacy masks. You can add up to four areas.

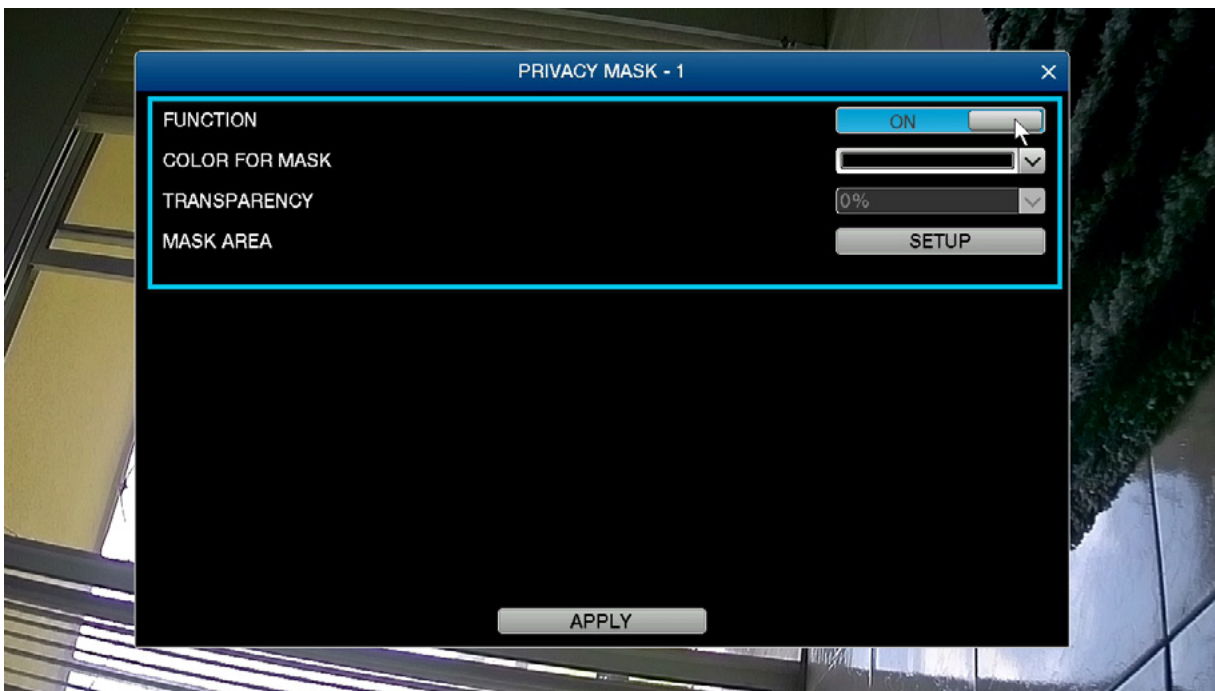
1. Click **MENU > CAMERA > DETECTION**.
2. Under **PRIVACY MASK**, click the Privacy Mask icon.



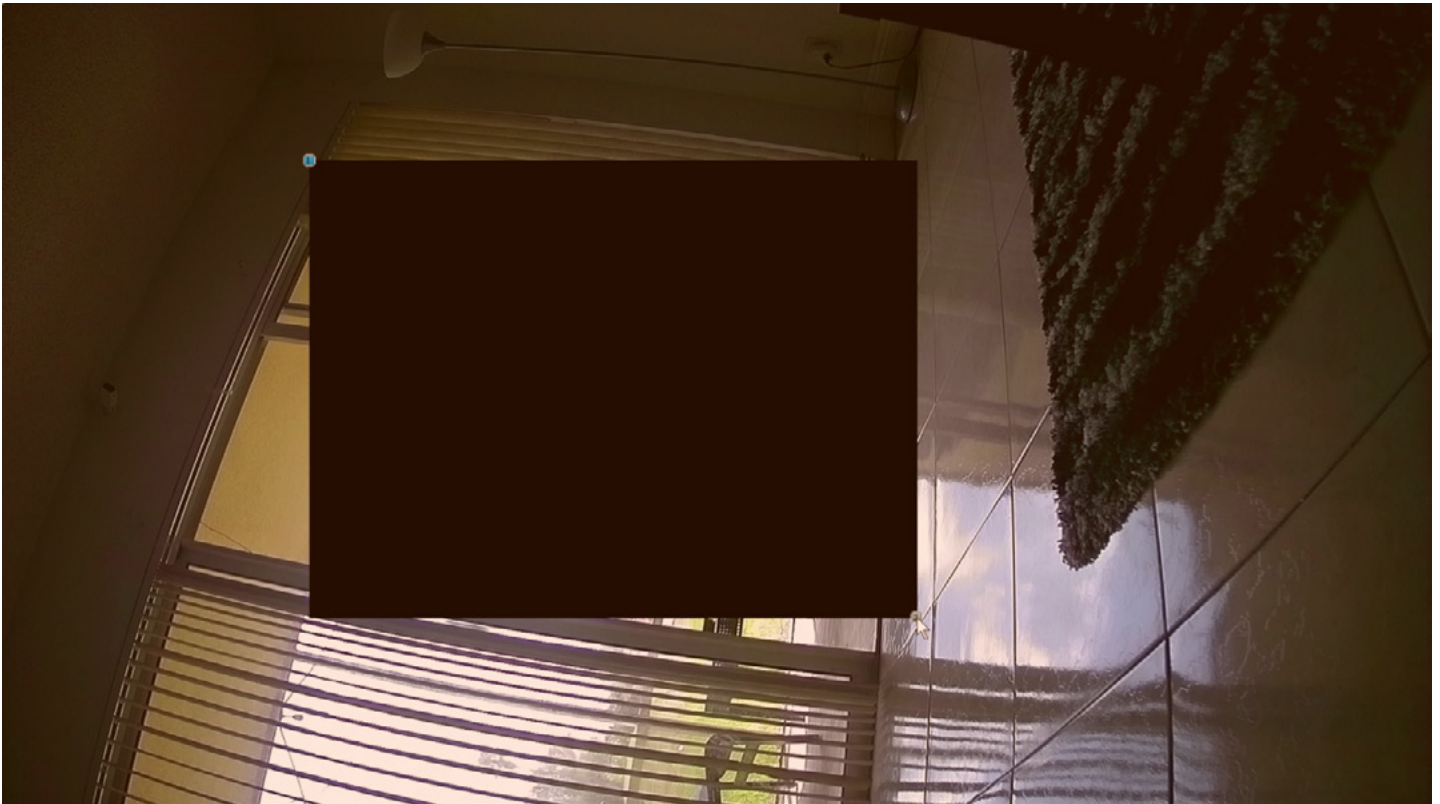
3. Select one of the four mask profiles available and click **EDIT** to modify the setting.



4. For **FUNCTION**, select **ON** to enable the privacy mask function.
5. Click **COLOR FOR MASK** to select the color for the privacy mask.
6. Click **TRANSPARENCY** to select the transparency for your privacy mask. The options are: **0%**, **25%**, **50%**, and **100%**. When 100% is chosen, no color is shown but only the mosaic effect for the mask area.
7. For MASK AREA click **SETUP** to enter the area selection page.



8. Click and drag the area you want to mask.



9. Right-mouse click to return to the PRIVACY MASK screen and click **APPLY** when you are finished.

10. Click **X** to exit the PRIVACY MASK screen and return to the DETECTION screen.



Appendix

Device Status Icon Definitions

The icons below keep you up to date on the DVR and its Channel's statuses.

	Key Lock		Key unlock
	USB flash drive/device connected		No USB device connected
	Timer record on		Timer record off
	Overwrite on		Overwrite off
	Sequence mode on		Sequence mode off
	USB backup in progress		USB flash drive full
	USB backup failed		
Network Status:			
	(WAN) Internet connected		(WAN) Internet disconnected
	(WAN) Local connection		
	(LAN) DHCP/Static IP mode		(LAN) camera disconnected

Channel Status Icon Definitions

	Audio on		Audio off		Original size		Fit to screen
	Light controller (connected camera does not support the light control)		Light controller (camera light is ON, click to OFF)		Light controller (camera light is OFF, click to ON)		Digital Zoom
	Human event detected		Motion event detected		Face event detected		Recording

Glossary

DP2: 1080p (2MP) HD Analog System with Human Detection Technology and Built-in Motion-Activated Spotlights.

DP8: 4K (8MP) Ultra HD Analog System with Human Detection Technology and Built-in Motion-Activated Spotlights.

DDNS: Dynamic Domain Naming System. Method for automatically updating hostnames, addresses, URLs or other information 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.

Human Detection: Technology that uses advanced algorithms to detect human motion, reducing false alerts to your Smart Device.

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.

User Information

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

General DVR Information

Username: _____

Password: _____

Model Number: _____

UID: _____

NOTE: The UID is located on the support sticker on the top of your device.

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. Product registration may be required to submit a warranty claim. In the event that the Product is defective, the Purchaser must i) contact Night Owl’s Technical Support Team, ii) provide Night Owl with the proof of purchase showing the product is still under warranty and was purchased from Night Owl directly or an Authorized Reseller and iii) return the Product to Night Owl. 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 nor authorizes any person to assume for it any other obligation or liability in connection with the sale or service of the Product.

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

Disclaimer

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NEED HELP?

Why Call? Our Support Site Has it All!

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

- 1 Please visit Support.NightOwlSP.com
- 2 Enter the Series listed on the Product Support Sticker into the Search bar.
- 3 Access the support material needed.



www.NightOwlSP.com



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