

## QUICK SETUP GUIDE

# WNVR201 SERIES



**HD** **WIRELESS**

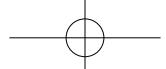
[www.NightOwlISP.com](http://www.NightOwlISP.com)



Specifically  
Designed for  
Smart Phones



Specifically  
Designed for  
Tablets

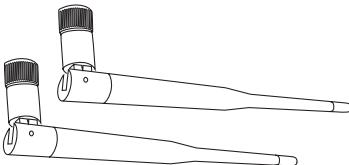


# What's in the Box

## Package Contents

**Disclaimer:** Images and Quantities may vary by model.

**Important:** For best results use all of the included Night Owl accessories.  
Third party accessories may not work properly.



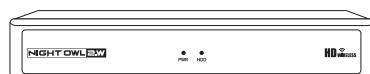
NVR Antenna (x2)



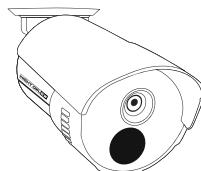
Camera Antenna  
(1 per camera)



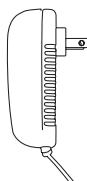
9 ft. Wi-Fi Extender Antenna  
and Mounting Hardware  
(1 for every 4 cameras)



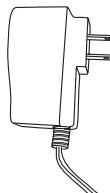
Wireless NVR



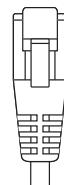
Camera(s)



Wireless NVR Power  
Adapter (x1)



9 ft. Camera  
Power Adapter(s)



6 ft. RJ-45 Cable  
(Ethernet) (x1)



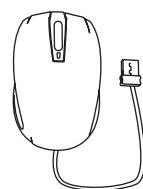
6 ft. HDMI  
(x1)



Safety Stickers

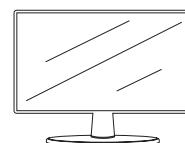


Mounting Hardware

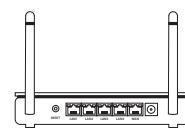


USB Mouse (x1)

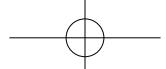
## Items Not Included



Monitor

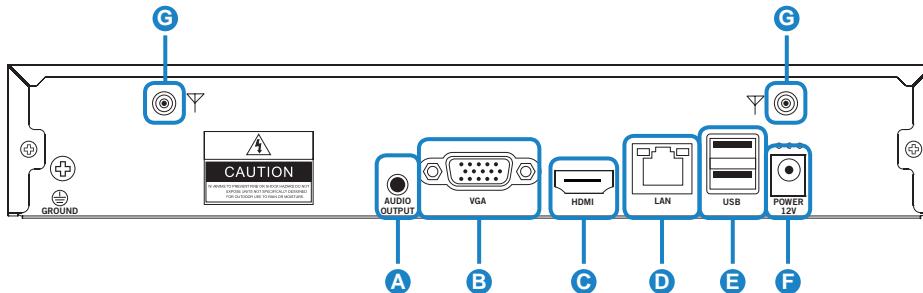


Router



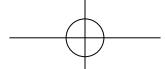
# Product Overview

## Wireless NVR Rear View



**NOTE:** The maximum number of cameras you can connect to your Wireless NVR will be determined by the number of channels.

- A Audio Output** – Allows for the connection of an amplified speaker.
- B VGA Output** – Allows for a video connection. If the TV/Monitor does not have an HDMI input but does have a VGA input, connect the VGA cable from the VGA output port on the NVR to the VGA input port on your TV/Monitor. (VGA cable not included)
- C HDMI Output** – Allows for a video connection. If the TV/Monitor has an HDMI input, connect the HDMI cable from the HDMI output port on the NVR to the HDMI input port on your TV/Monitor.
- D RJ-45 (Ethernet) Port** – Used to connect the Wireless NVR to your modem/router for remote viewing. Please note your Wireless NVR comes with built-in Wi-Fi for the cameras to transmit to the NVR. However, you will need to manually connect the NVR to your modem/router to remotely view on a smart device or PC/Mac®.
- E USB Ports** – Allow for the connection of a USB mouse and/or a USB flash drive. Connect the included USB mouse to assist in navigating the NVR's menu interface. Connect a USB flash drive to download video files from the NVR for long term storage or sharing.
- F Power Input** – Used to connect the included 12V DC power supply.
- G NVR Antenna Mount** – for installation of two included NVR antennas.

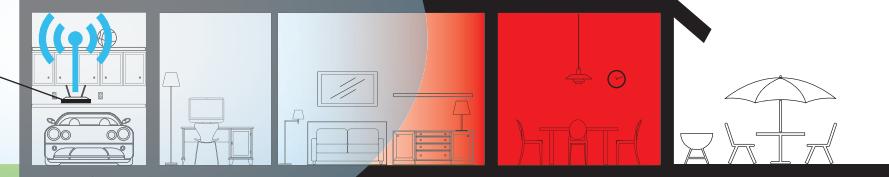


# Positioning Your Wireless NVR and Cameras

## Incorrect Placement ✗

Your wireless IP cameras will reach up to 300 ft. Therefore, proper placement of the wireless NVR in your home will ensure you achieve maximum coverage.

NVR

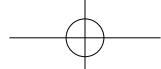


## Correct Placement ✓

Placing the wireless NVR centrally in your home will help make certain that no matter where you mount your cameras, they will be able to wirelessly connect inside the signal range of the WNVR.

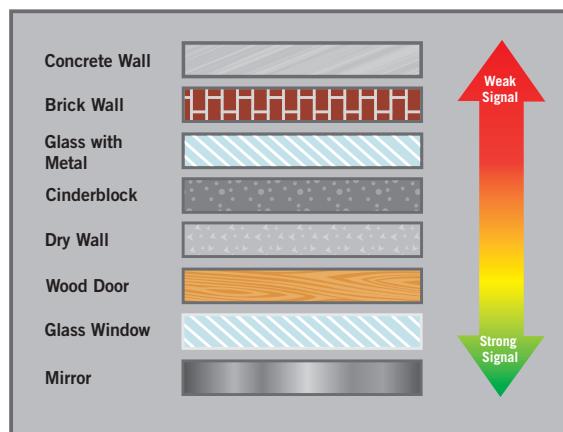
NVR





## How Obstacles Affect Your Signal Strength

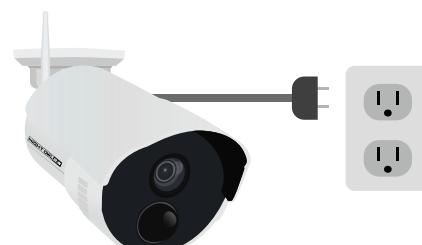
When your wireless signal is transmitted through various materials, such as walls and windows, the signal strength is affected. Though the NVR and wireless camera may be very close in proximity, you could still notice high signal interference if the signal passes through certain obstacles. For instance, if the signal passes through a concrete wall it will be severely weakened. Please reference the chart below to see which obstacles highly affect your signal and which do not.

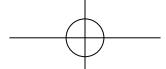


**NOTE:** If your setup requires the signal to be transmitted through an obstacle that severely weakens it, you can use the 9 ft. Wi-Fi Extender Antenna included with your system. The Extender Antenna can be used to bypass the obstacle weakening the signal. Simply replace the white Camera Antenna with the Extender Antenna and then mount the Extender Antenna on the opposing side of the obstacle.

## Powering the NVR and Wireless Cameras

Your Wireless NVR must be powered on using the NVR power adapter. Similarly, each wireless camera must be powered with a camera power adapter. Though these cameras wirelessly transmit video to the NVR, they are not battery powered, and must therefore be powered via the included adapters. Each camera within your system will come equipped with its own camera power adapter.

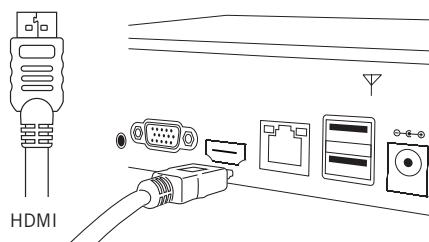




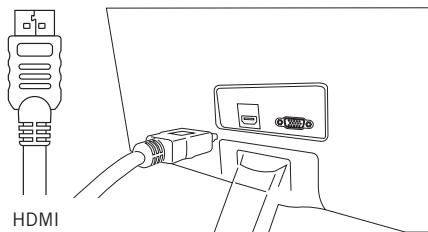
# Connecting Your System



- 1 Connect the two included antennas to your wireless NVR. This will ensure you achieve the maximum wireless range for transmission from your wireless cameras.



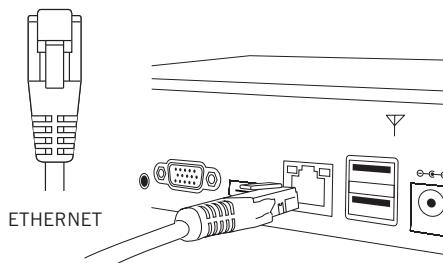
- 2 Plug one end of the included HDMI cable into the HDMI port on the back of the Wireless NVR.



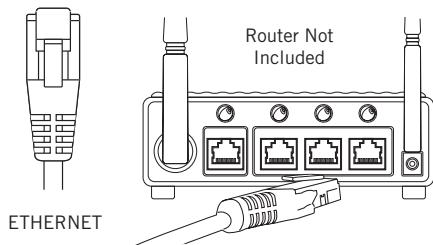
You may also connect using VGA (not included)

- 3 Plug the other end of the HDMI cable into the back of your TV or monitor.

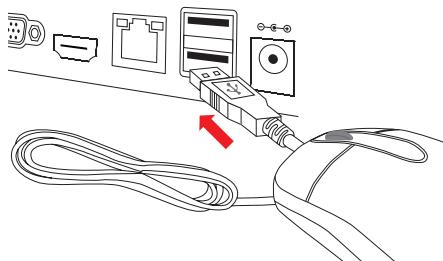
**NOTE:** To view cameras, TV/Monitor must be tuned to the same Input the HDMI is plugged into.



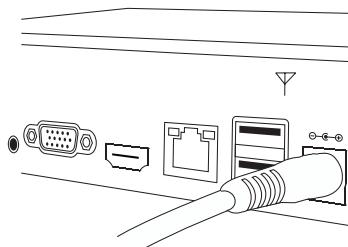
- 4 Plug one end of the included Ethernet cable into the LAN port on the back of the Wireless NVR.



- 5 Plug the other end of the Ethernet cable into a port on the back of your router.

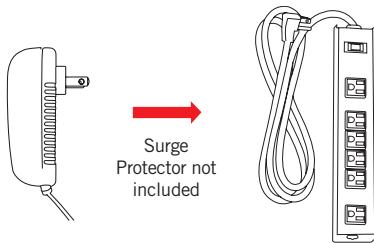


- 6 Plug the USB mouse into the USB port on the back of the NVR.

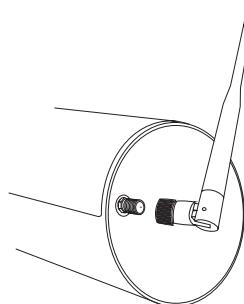


- 7 Connect the Wireless NVR power adapter to the Power Input on the rear of the Wireless NVR.

**NOTE:** Power adapters will be labeled as either NVR or Camera.

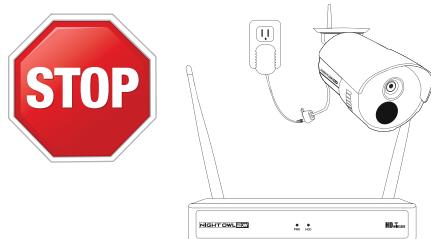


- 8 Plug the Wireless NVR power adapter into a surge protector or Uninterruptible Power Supply (UPS). (surge protector and UPS not included)

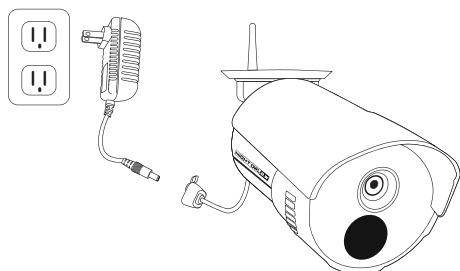


- 9 Connect the included camera antenna to the antenna mount on the camera.

**NOTE:** Make sure NVR is in intended location before testing cameras.

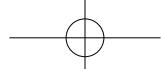


- 10 To ensure all cameras are working properly, please test them locally before installing them.



- 11 Each camera comes equipped with its own camera power adapter. Connect the female power cable coming from the camera to the male power end of the camera power adapter. Next, plug the camera power adapter into a wall outlet.

**NOTE:** You should see each camera appear on your TV/Monitor. You may now proceed to install your Wireless NVR cameras in the desired location.



# Booting Up for the First Time

## Startup Wizard

- 1 When you power on the Wireless NVR you will be prompted with the following screen. Please follow the instructions to complete the Startup Wizard.



## Important... Please Read

- 2 On the **Password Creation** screen, please note the following:



### Admin Account Creation

By default, the username will be **admin**. It must remain **admin** upon your initial account configuration.

**NOTE:** Password can be any alphanumeric combination between 6 and 20 characters.



### Recovery Email Address

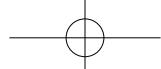
Please ensure you provide a valid email address in case you forget your account information.



### Remember Your Password

Night Owl strongly recommends writing down your password within the Quick Setup Guide. You will need it every time you log into your Wireless NVR and to remotely view on a Smart Device.

Write your  
password here:



- 3 When you reach the **Camera / Channel Settings** screen, you will want to have installed the cameras in their final position. Please make sure you have mounted cameras at least 7ft. above the ground and angled them slightly down.

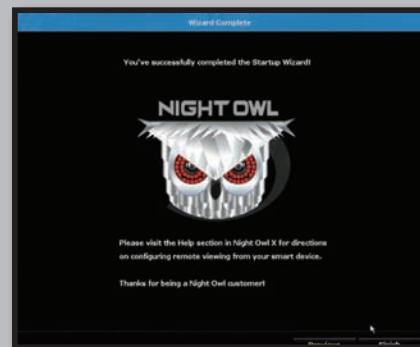


The infrared sensor works best for 'side to side' movement across the cameras field of view as opposed to movement directly to or away from the camera

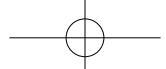
At this stage of the Startup Wizard, you will be instructed on adjusting the camera sensitivity and setting the Motion Detection Area. Having your cameras in their final position will be key.

So, if you would like to detect motion for the front door to your home, place the camera to the side of the entrance.

- 4 This is the last screen you will see when you have successfully completed the Startup Wizard.



**NOTE:** For additional configuration of your Wireless NVR, please refer to the owner's manual located on our support page at [www.NightOwlISP.com](http://www.NightOwlISP.com).

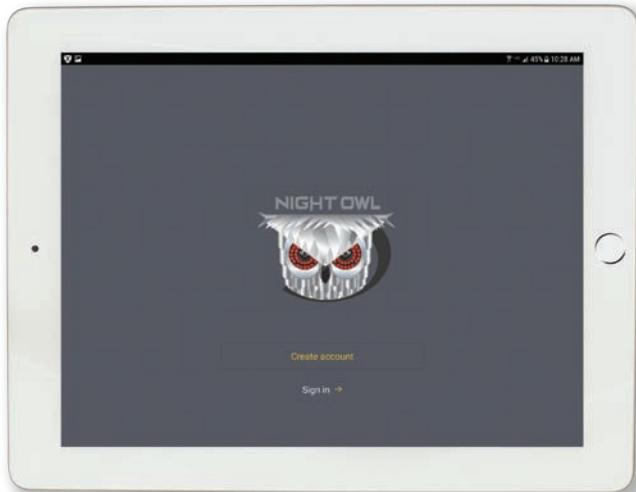


## Night Owl X & Night Owl X HD Mobile Apps

Night Owl fits right in with your mobile lifestyle by allowing you to remotely monitor your home or business. Our free and exclusive Night Owl X app for iOS® and Android™ phones and Night Owl X HD for iOS® and Android™ tablets are available in the *App Store* and *Google Play Store*.



**NOTE:** To ensure the best customer experience make sure you download the correct app for your device.



**Night Owl X**



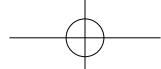
**Night Owl X HD**

### Smart Phones

For remote viewing on an iOS® or Android™ phone, make sure you download **Night Owl X**.

### Tablets

For remote viewing on an iOS® or Android™ tablet, make sure you download **Night Owl X HD**.



# Using Night Owl X

## Download and Install Application

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



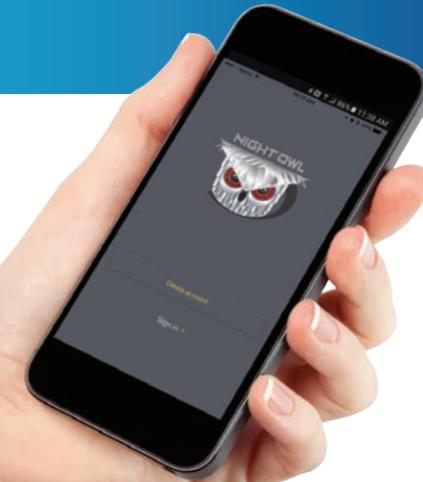
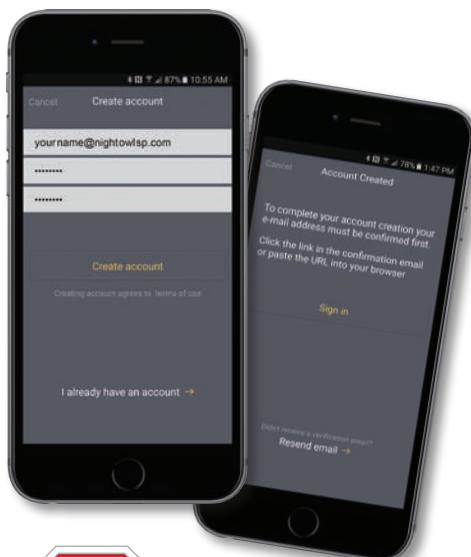
**NOTE:** Use correct app for compatibility.



Smart Phone:  
Night Owl X



Tablet:  
Night Owl X HD



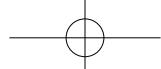
**NOTE:** Account setup is the same for phone and tablet.

- 2 Create an account using an email address for the username and a password between 6–20 characters. This account allows the user to login to Night Owl X and Night Owl X HD. Please note, this is **NOT** the login info created for the NVR, this login is unique to the Night Owl X and Night Owl X HD apps. The NVR login should be stored on page 7, step #2 of this QSG.

- 3 To confirm your email address, click the link in the confirmation email from “Night Owl ([No\\_Retry@NightOwlISP.com](mailto:No_Retry@NightOwlISP.com))”.



**STOP:** You **MUST** complete Step 3 before continuing! Go to your email, open the Confirmation email from Night Owl, and click the “Confirm Email” link. You **MUST** confirm your email to use the App!



# Using Night Owl X

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



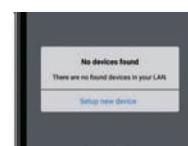
### ④ Adding a Device

To begin adding a new device, first select the yellow plus sign within the Device menu.



#### ④A Smart Auto Detection

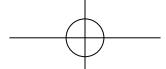
If your Smart Device and NVR are on the same network, the Smart Auto Detection will auto find your NVR. If this method is not available, please use the QR Code Setup from step 4B below.



#### ④B QR Code Setup

To use the QR Code Setup, select Setup device by QR Code and hover your Smart Device camera lens over the QR Code located on the top of your NVR.





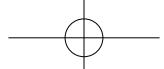
## Login to your App

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



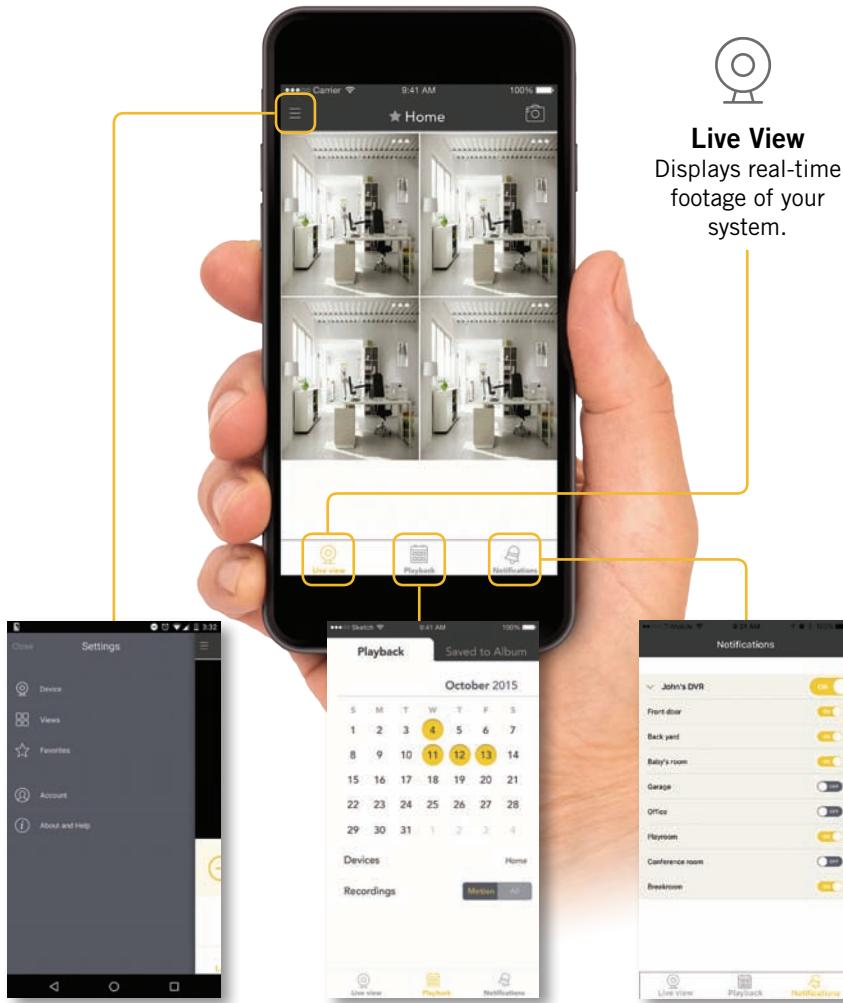
The password will be the same password you created during the Startup Wizard and should be stored in your QSG.

**Please note: this is the password of your Wireless NVR, NOT the password used to login to the Night Owl X App.** You must key the Wireless NVR password verbatim to add it to the app.



# Using Night Owl X

## App Overview



### Settings

Display connected devices, change view layout, view favorites, manage accounts and access the help section.



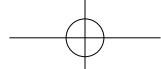
### Playback

View recordings & images and save them to your phone's album.



### Notifications

Manage custom Push Notifications.



# Using Night Owl X CMS Software

Access your Wireless NVR from any computer, anywhere!



## Live View

Viewing live video, controlling PTZ functionality and setting image parameters.



## Playback

View system recordings and images and save them directly to your PC or Mac®.



## Device Manager

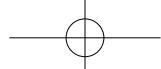
Add and configure available NVRs and cameras on your network.

## Night Owl X CMS Software

The Night Owl X Control Management Software (CMS) allows you to view your Night Owl Security system remotely from a PC or Mac®. Additionally, you can playback recorded video, save video and images directly to your PC or Mac®, configure numerous settings such as channel names and set record preferences.

### To download the CMS Software:

- 1 Go to [www.NightOwlISP.com](http://www.NightOwlISP.com).
- 2 Click on the Support tab.
- 3 In the search bar, type “X CMS”.
- 4 Download the **Night Owl X CMS** software.
- 5 Once downloaded, select **PC** or **Mac®**.



# Pairing a Replacement Wireless Camera

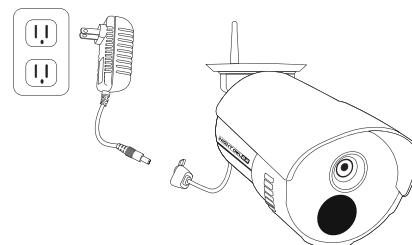
By default, each camera within your Wireless NVR kit comes pre-paired to the Wireless NVR. Additionally, your wireless NVR has its own built-in Wi-Fi for secure, uninterrupted video transmission and recording. Pairing allows for the wireless transmission coming from the camera to be detected by the Wireless NVR. However, if you have a camera that needs to be replaced while under warranty, the replacement camera will similarly need to be paired to the NVR.

**NOTE:** When pairing a Night Owl add-on camera, refer to “Add-on cameras Quick Setup Guide”.

To pair a replacement camera to your NVR, please use the below steps:

- 1 Power on the replacement camera using the camera power adapter.

**NOTE:** This should be done locally at the NVR to avoid interference



- 2 With the NVR connected to a TV/monitor, right click on your mouse and navigate to the Main Menu using the options bar.



- 3
  - Go to the Camera Menu and Select the **Add Camera** tab on the left side of the menu.
  - The top portion of the screen will list cameras that have been found but not yet paired.
  - The bottom portion of the screen will show all cameras that are currently paired to the NVR.

**A** Add Camera

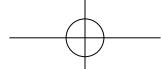
ID	Device Name	IP Address	Protocol	Status
1	IPCAM	123.45.67.89	Wireless Add	Connect success
2	IPCAM	123.45.67.89	Wireless Add	Connect success
3	IPCAM	123.45.67.89	Wireless Add	Connect success
4	IPCAM	123.45.67.89	Wireless Add	Connect success
5	IPCAM	123.45.67.89	Wireless Add	Connect success
6	IPCAM	123.45.67.89	Wireless Add	No video source
7	IPCAM	123.45.67.89	Wireless Add	No video source
8	IPCAM	123.45.67.89	Wireless Add	No video source

**B** Camera

**C** Remaining device: 2

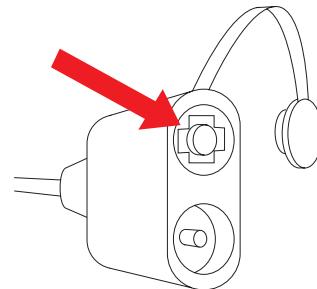
Remaining network bandwidth: 198bps

Buttons: Delete, Delete All, Manual Edit, Repeater, Apply, Cancel



- 4 Next, you will need to reset the replacement camera. To do so, press and hold the reset button until you hear a beep, indicating the camera has begun the reset process.

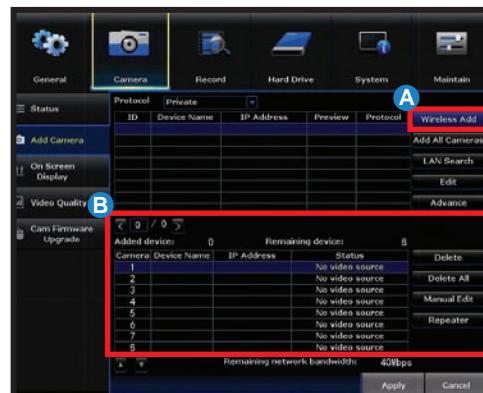
**NOTE:** The reset process may take up to 3 minutes.



## 5

- A After 3 minutes have passed or after hearing the camera beep, click on **Wireless Add** located on the Add Camera screen. Your NVR will now search for new cameras.

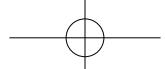
**B NOTE:** The replacement camera will not appear in the bottom screen with all other paired cameras until the NVR finishes the process of finding and pairing the new camera.



- 6 Within the **Wireless Add** screen, the “Number of Cameras Connected” signifies those cameras that are already paired to the Wireless NVR and will not immediately reflect this new camera.

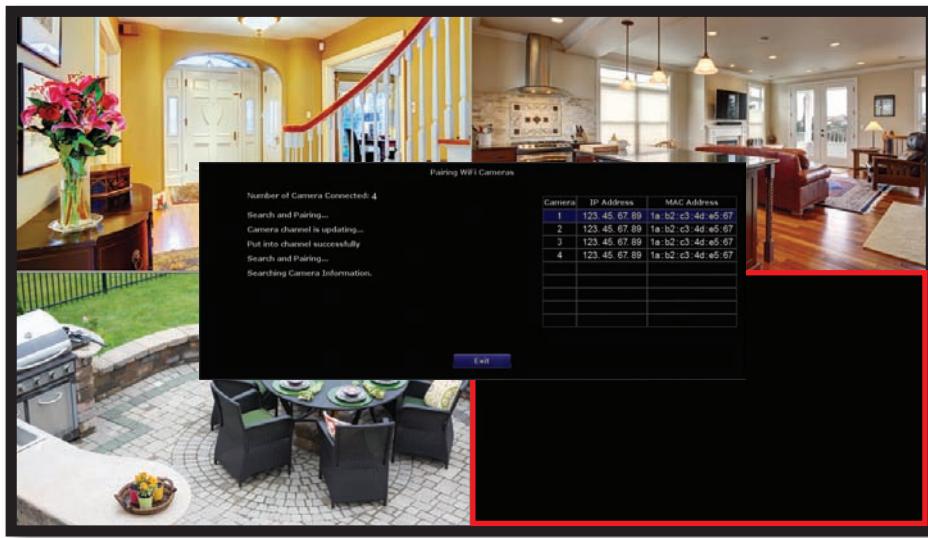
**NOTE:** You cannot exceed the number of Wireless NVR channels you have. If you have a 4 channel system, the maximum number of cameras you can have paired is 4.





## Pairing a Replacement Wireless Camera

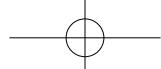
- 7 If you have not exceeded the channel limitation, the new camera will appear in a vacant video field once paired.



- 8 **WooHoo!** Your replacement camera has now been paired to the Wireless NVR using the Wireless NVR's built-in Wi-Fi.

## WIRELESS SIGNAL UP TO 300 ft.





# Additional Support

## FAQs

### **1. Does my wireless NVR have to be connected to the Internet to work?**

No, your wireless NVR does not have to be connected to the Internet to work. You can view live feed and recordings by connecting it to a TV/Monitor via HDMI or VGA.

### **2. Will I be able to view my system while away from home?**

In order to view your wireless system remotely, your NVR will need to be manually connected to a modem/router via the included Ethernet cable. You can view your system via the FREE Night Owl X or Night Owl X HD App by utilizing the FREE CMS software on a PC/Mac®.

### **3. How do the cameras transmit video to the NVR?**

Our wireless NVRs have built-in Wi-Fi for communicating with the cameras. Each camera comes paired to the wireless NVR by default, so your initial setup should be hassle free.

### **4. Are my cameras weatherproof?**

Yes, your cameras are weatherproof and will endure minimal moisture and dirt/debris. However, Night Owl strongly recommends placing all outdoor cameras under an eave or awning to help shield them from overexposure to the elements, which could reduce your camera's lifespan.

### **5. Does my NVR have to be connected to a TV or monitor?**

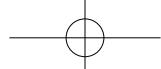
For initial setup, you will need to connect your NVR to a TV or monitor. After completing the initial setup, your NVR does not need to be connected to a TV or monitor to view or capture recordings. You can view your system using the Night Owl X CMS Software on a PC/Mac® or by downloading the Night Owl X or Night Owl X HD apps on your Smart Device.

### **6. Why is the Night Owl X or Night Owl X HD app not accepting my password?**

The Night Owl apps will require two passwords to configure: one password will be used to login to the app itself and the second will be the **admin** password of your NVR. In order to add a device to the app, you will need to enter the NVR's **admin** password. Please refer to pages 7 and 12 of this QSG. Remember, when setting up your Night Owl X or Night Owl X HD app, you must confirm your email by clicking the "Confirm Email" link sent by Night Owl upon initial application configuration.

### **7. Why can't I connect using the Night Owl X app, Night Owl X HD app or Night Owl X CMS Software?**

If you are having trouble connecting using our mobile app or client software, *A) your Night Owl system may not be connected to a router, B) the latest firmware or client software may not be installed on your computer or mobile device or, C) the password may have been entered incorrectly or, D) You may need to restart your NVR and try again.*



## CONTACT US

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**WEBSITE**  
**24/7 Product Support**  
• How-To Videos  
• Manuals

[www.NightOwlSP.com](http://www.NightOwlSP.com)

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

Please visit [www.NightOwlSP.com](http://www.NightOwlSP.com).  
Click the Support tab.  
Enter your product's model number in the search bar.  
Access the support material needed.



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**FCC RADIATION NORM**  
**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.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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