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Night owl 960h dvr manual

When you purchase a Night Owl product, you receive one (1) year warranty covering manufacturing defects in materials and workmanship. In addition to warranty and support, you will have access to our thud of free how-to videos instructions. You can also see our instructional videos by clicking on the How to videos tab on your product page on our website. Night Owl XHD Series Camera Compatibility: Night Owl Series BHD recorders are compatible with most analog cameras (400-900TVL), HD analog cameras (AHD) and analog HDA (HDA). CM-AHD10W-BU; CM-AHD7B-BU; CM-HDA10W-BU; CM-HDA10W-DMA; CM-HDA7B-BU; CM-PIRHDA10W-BU; CM-PXHD50NW-BU; CM-PXHD50W-BU; CM-PHDA30W-BU; CM-PXHD80W-BU; (CM-HDA30W-DMA), (CM-650-H), (CM-724-H), (PC-624N-H), (CM-930A-TU), (DM-924A-TU), (PC-624-H), (PC-624-H), -624-H), (DM-724-TU), (CM-MINI-908-H), (DM-924-TU), (DM-624T-BA) If the camera's image quality is degraded day or night, you may need to change the cable from camera to recorder. This system is designed to work with cl2 UL wiring or better. Please refer to the warranty section of this manual for information about exclusions and additional details. Not all features and capabilities are shared across all models, so you may see features that don't apply. Additionally, you may see screen images that are not exactly compatible with the images on the screen. THIS MANUAL WAS ACCURATE AT THE TIME OF ITS COMPLETION. DUE TO OUR CONTINUED EFFORTS TO CONTINUOUSLY IMPROVE OUR PRODUCTS, FEATURES MAY HAVE BEEN ADDED OR CHANGED. Before you can configure your system, you must update the dvr firmware. Follow these steps: Plug one end of the included Ethernet cable into the LAN port on the back of the recorder. Connect the other end to the modem/router to establish an Internet connection. Then connect the recorder to the TV/monitor using the supplied HDMI cable. If your TV/monitor doesn't have an HDMI port, you can use a VGA (non-attached) cable. Using the supplied DVR, power the dvr. When the logger is turned on, the Startup Wizard starts. Follow the instructions in the startup wizard to upgrade

your system firmware. NOTE: The recorder must be connected to the Internet to upgrade the firmware. Quick Setup Guide Use the QR code scanner on your smart device to scan your QR code. Scan the QR code to the left to access the Quick Setup Guide for help setting up your Night Owl Security system. FCC Table of Contents This device complies with Part 15 of the FCC Rules. The operation is subject to the following two conditions: (1) this device must not cause harmful interference and (2) the device must accept any interference received, including which may cause undesirable effects. FCC Compliance Statement These limits are designed to provide adequate protection against frequency interference in residential installations. This hardware equipment it can emit 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 the reception of television, which can be determined by turning the device off and on. You are encouraged to attempt to correct interference by one or more of the following measures: Change the orientation or position of the receiving antenna. Increase the distance between the device and the receiver. Plug the device into an outlet on a circuit other than the one to which the receiver is connected. Contact your dealer or an experienced radio and TV technicist for assistance. CAUTION The Federal Communications Commission warns the user that changes or modifications to the device that have not been expressly approved by the compliance part may invalidate the user's rights to operate the equipment. CHAPTER 2 SAFETY INSTRUCTIONS USE THE SUPPLIED POWER SUPPLY. Do not use this device with a power source that uses more than a specified voltage. NEVER INSERT METAL INTO THE RECORDER HOUSING OR INTO ITS OPENINGS. Inserting metal into the DVR enclosure may result in electric shock. DO NOT WORK IN WET OR DUSTY AREAS. Avoid placing the recorder in places such as a damp cellar or dusty attic. DO NOT EXPOSE THE RECORDER TO RAIN OR USE NEAR WATER. If the recorder accidentally turns wet, unplug it and contact support immediately. THE SURFACES OF THE PRODUCTS SHOULD BE KEPT CLEAN AND DRY. To clean the outer casing of the recorder, use a slightly moistened cloth. Do not use cleaning solutions or solvents. DO NOT INSTALL NEAR HEAT SOURCES. Do not install the recorder near heat sources such as stoves, radiators, heaters or electronics (including amplifiers) that produce heat. UNPLUG THE RECORDER WHILE MOVING. Make sure the recorder is disconnected before moving the recorder. Handle this device with care when moving it. MAKE SURE there is good air circulation around the recorder. This recorder uses an internal hard drive that generates heat while working for video storage. Do not block the vents on the recorder as these holes reduce heat generated during system operation. Place this product in a well-ventilated place. DO NOT ATTEMPT TO REMOVE THE TOP COVER. If you notice an abnormal activity, disconnect the recorder immediately and contact support. Do not allow the recorder to diagnose the cause of the problem. HANDLE THE RECORDER WITH CARE. Should the recorder on the surface may damage the device. If the recorder is not working properly due to physical damage, contact an authorized dealer for repair. IT IS RECOMMENDED THAT YOU USE AN UNINTERRUPTIBLE POWER SUPPLY (UPS) RECORDER. Connecting the dvr and cameras to the UPS allows you to work continuously even during power outages. The duration depends on the assessment of the UPS used. CAUTION Can be subjected to hard work remove the recorder cover. NOTE: The following instructions guide you through the steps to download the correct app for your smart device. For instructions on creating an account and adding a device, refer to the user manual. Night Owl fits your mobile lifestyle, allowing you to remotely monitor your home or business. Our free and exclusive Night Owl X app for iOS® and Android phones™ as well as Night Owl X HD tablets for iOS® and Android™ are available on the App Store and Google Play Store. NOTE: For best customer service, make sure you're downloading the right app for your device. Night Owl X Smartphones Night Owl X HD Tablets Make sure your PC/MAC® complies with the following specifications: PC Operating System; Windows® 7, Windows® 8/8.1 and Windows® 10 PC BROWSER: IE®8, and above (System requirements for PC Browser are only for online viewing) Mac Operating System: MAC OS X® 10.9 and above MAC Browser: N / A Make sure that your mobile device complies specifications: Android™: 4.2 and above iOS®: 9 and above this manual was accurate at the time of its completion. DUE TO OUR CONTINUED EFFORTS TO CONTINUOUSLY IMPROVE OUR PRODUCTS, SPECIFICATIONS MAY HAVE BEEN ADDED OR CHANGED. 4.2 Package contents 1 x 8 channels SMP DVR 8 x SMP indoor/external infrared cameras 6 x 60 Beam UL approved video/camera cable 24 x mounting equipment and 1 x 6 foot screws. HDMI cable 1 x RJ-45 cable (Ethernet) 1 x USB mouse 1 x auxiliary package 2 x DC 12V/1.5A Camera power supply 1 x DC 12V/12A DVR Power Adapter 2 X 4-way Camera Power Splitters 3 x Night Owl Security Stickers NOTE: For best results, use the included night accessories. Third-party accessories may not work properly. DVR 4.2.1 After downloading Night Owl X or Night Owl X HD and connecting the DVR to the router, you can connect the DVR by scanning the QR code at the top of the dvr. FRONT VIEW REAR VIEW 1. Video inputs – Video inputs allow you to connect BNC cameras. 2. Audio output - Allows you to connect a reinforced speaker using an RCA cable. 3. HDMI output - HDMI output allows video connection. If the TV/monitor is switched on to the ANHDMI input, connect the HDMI cable from the HDMI output port of the DVR to theHDMI input port on the TV/monitor. TIP: Preferred method. 4. VGA output - VGA output allows video connection. If the TV/monitor has a VGA input, connect the VGA cable from the VGA output port on the dvR to the VGA input port on the TV/monitor (VGA cable is not included). 5. Audio inputs - Audio inputs allow you to connect audio cameras by connecting a white RCA plug to one of the audio inputs. After the connection is established, the audio button in the recorder menu interface. Recorder. (Ethernet) The –RJ-45 port will be used to connect the dvr to the router/modem using the included Ethernet cable. 7. USB ports - USB ports allow you to connect an additional USB flash drive. mouse to make it easier to navigate the DVR menu interface. You will connect a USB flash drive to download videos from the recorder and save them to a USB flash drive. 8. RS-485 Port (PTZ) – The RS-485 port allows you to connect a Pan-Tilt-Zoom (PTZ) camera. Some PTZ cameras use Up-the-Coax (UTC) technology and do not require rs-485 port operation. TIP: Not all PTZ cameras use the RS-485 port to operate. 9. Power input - Power input to connect the included 12V DC power supply. NOTE: Connect all cameras locally before final placement to make sure all components are working properly. 4.2.3 Mouse Diagram Live Viewing: Double-click the left button in any split-screen camera view to move to the full-screen screen. Double-click again to return to split-screen mode. Right-click to right-click the menu at the bottom of the screen. Left-clicking hides the menu with the right mouse button. In Setup: Left-click to make a selection. Right-click to cancel the configuration or return to the previous screen. To enter values: Move the cursor to an empty field and click the mouse. You'll see a virtual keyboard that supports numbers, letters, and symbols. Shift will access symbols in addition to uppercase letters. NOTE: Connect all cameras locally before final placement to make sure all components are working properly. Find the included 60-foot video/power cable. Connect the camera to one end of the cable by matching the BNC connectors and dc power connectors. Audio cameras (not included) will have an additional (white) RCA connection that will transmit the audio signal and connect to the sound in the port on the back of the recorder. Connect the BNC connectors at the other end of the video input port on the back panel of the recorder. Repeat for each camera, paying attention to the channel number to which each camera is connected. 5.2Power 5.2.1Standard camera power Find the included power splitter. Connect the power splitter to the other DC power connectors (red) cables. Connect the power splitter to the marked camera power supply, and then plug the camera power adapter into an available wall outlet or UPS. Please note, Night Owl always recommends using surge protection to minimize the risk of dvr damage in the event of a surge. Cameras, additional cables, power supplies and splitters are only included in some safety kits. Detailed can be checked in the product packaging. Make sure that all cameras are working before installation by connecting them as described in the section above. Once you have confirmed that all cameras are fully functional, you can start the installation process. 5.3 Mounting cameras Connect all cameras locally before final placement to make sure all components are working properly. The distance of the camera from the recorder. The further the camera is from the recorder or monitor, the greater the chances of signal degradation. The power to the camera should be as close as possible to the camera when the distance exceeds 200 feet, as the power level will drop over long distances, which will degrade the video. DO NOT place high-voltage cables or other sources of electrical interference near the cables. Electrical interference will reduce signal quality. Place the camera out of range to avoid vandalism. Avoid exposure to weather conditions. Do not place the camera where rain or snow will hit the lens directly, or place the camera in such a way that the sun or bright light shines directly into the lens. The camera is weatherproof, but won't work when submerged in water. Make sure that all power and video connections are not directly exposed to water and are protected from the elements. Mounting surface. The mounting surface must contain at least four times the total weight of the total mass of the camera. Follow these instructions to install the cameras correctly. Find the camera and choose where you want to mount the camera. Point to the positions of the screws by selecting three holes on the surface on which you intend to mount the camera, using the holes in the base of the camera, guide. Using a drill slightly smaller than the attached screw anchors, drill into the mounting surface using the guide markings in the previous step. Insert the screw anchors. Use screw anchors to remove the camera base holes. Holding the base in place, screw in the screws and tighten to safety. After screwing the base, make sure that the camera is securely mounted by exerting gentle pressure on the handle. Adjust the camera case to point to the direction of the area you want to monitor. Find the included HDMI cable. Plug one end of the cable into the HDMI port on the back of the recorder. Connect the other end of the cable to the available HDMI input on your TV or monitor. Select the appropriate video input channel on your TV or monitor to view the recorder. If your TV doesn't have an HDMI port, purchase a VGA video cable. If you have a VGA connection, connect one end of the VGA cable to the VGA DVR port and the other end to the TV's VGA port. 1. Locate the marked DVR. NOTE: The camera power supply and DVR should never be replaced. dvr power supply may vary slightly. 2. Connect the included power supply cable to the back of the dvr. 3. Connect the other end of the power supply cable to the available wall outlet. If you are using a power supply (UPS), connect the adapter cable to one of the output sockets. Please note that Night Owl always recommends to minimize the risk of damage to the recorder in the event of a power surge. When the recorder is on, it will display the Night Owl logo during initialization. After initialize, you will be prompted to use the Startup Wizard. Follow the on-screen instructions to: Complete basic configuration of the recorder. Upgrade your firmware. Set up night owl x or night owl x hd app and configure net gures. Save the cameras locally. Create an administrator password. Configure the recording settings. The cameras test screen in the Startup Wizard serves as a reminder to test the camera's connections to the recorder. If the connected camera displays no signal, www.NightOwlSP.com and click the Support tab. 7.1.2 Check Network The Startup Wizard Network Check screen displays instructions on how to connect the DVR to the Internet. To establish a connection, you need an attached Ethernet cable, the dvr will not be able to connect wirelessly to the router/modem. After you establish the required connection using an Ethernet cable, you can click Test in the Startup Wizard to confirm your Internet connection. The Advanced Network Configuration tab is recommended only for advanced users. When you establish an Internet connection, the Startup Wizard displays a successful connection screen. If the DVR cannot establish an Internet connection, the Connection Failure screen appears. Follow the instructions on this screen to test your network again. If you want to continue setting up your DVR without a network connection, you can do so by clicking the box labeled I don't want to connect to the network. 7.1.3 Firmware Check The Startup Wizard Firmware Check screen automatically checks for updated DVR firmware. NOTE: If the recorder does not have a network connection, the firmware will not be updated. If a firmware update is detected, the startup wizard displays the screen below. Select Upgrade to download and install a new upgrade to your system. When prompted, the recorder will start updating and the recorder will start automatically when the recorder is finished. This process can take up to 10 minutes, please be patient. NOTE: DO NOT turn off the recorder or disconnect it from the Internet when upgrading your system. When the recorder firmware is updated to the latest version, the Startup Wizard displays the following screen. The Create Passwords screen in the Startup Wizard requires you to create an administrator password for your DVR system. Night Owl strongly suggests you to save your administrator password on page 5 of the Quick Setup Guide with your dvr as you will need to log in you want to configure or adjust your system settings at any time. This screen will also require you to set an email recovery in case your administrator password is forgotten. NOTE: You will not be able to complete the unless a secondary e-mail address is established. To change the secondary email address, you must run the Startup Wizard again. Just click the text box to open the on-screen keyboard. Use this keyboard to create an administrator password and enter a secondary email address. NOTE: Forgot your administrator password? Click the Forgot PWD tab? in the Startup Wizard, and a secure code will be sent to your secondary email address. Restart the recorder and enter a secure code when prompted. Create a new password for the logger. If your registrar is not connected to the Internet, a secure code will be sent to your secondary email address. In this case, the following screen will appear, follow the instructions to contact support, the agent will help you to create a new password for the logger. Use the Start Wizard's date and time settings screen to set the current date and time. You can use the Network Time Protocol (NTP) to automatically configure the current date and time. NOTE: To use the Network Time Protocol (NTP), the recorder must be connected to the Internet. 7.1.6 Night Owl Apps The Night Owl X Launch Wizard provides information about where night owl X can be found and how it can be used to view DVR recordings and live streams remotely. Follow these steps to create a Night Owl X or Night Owl X HD account. Creating an account in one version of the app allows you to use in to both versions with the same username and password. NOTE: Night Owl App Setup is specially designed for smartphones. You'll need to download the Night Owl X HD app if you're using a tablet. Once you've installed Night Owl X or Night Owl X HD on your smart device and created your account, you can scan the QR code in the Startup Wizard to set up your DVR using night owl X or Night Owl X HD! Night Owl recommends using the same email recovery you previously selected in the Startup Wizard when creating a Night Owl X or Night Owl X HD account. DISCLAIMER: The QR code in this image is not active. Scan the QR code on the TV/monitor in the Startup Wizard. To view the system remotely, the recorder must be connected to the Internet. Follow these steps to use a Night Owl X or Night Owl X HD account. Download and install app 1Fetch the app you want from the App Store or Google Play Store and install the app on your device. NOTE: Use the correct application to get compatibility. 2 Create an account with an email address for your 6-20-character username and password). This account allows the user to log in to multiple Night Owl devices. Please note that this is not the login information created for this login is unique for Night Owl X or Night Owl X HD apps. Logging in to the DVR should be stored on page 5, step #2 quickly set up the guide that came with your DVR. NOTE: Configuration Configuration the same applies to your phone and tablet. 3 To confirm your email address, click the link in the confirmation email from Night Owl, and click the Confirm email link. You need to confirm your email to use the app! NOTE: It may take 5 to 10 minutes for a new device to be added before you start receiving notifications. You can add your device to the Night Owl X app by using smart auto-detection or by configuring a QR code. With intelligent automatic detection, the recorder will be automatically detected by the Night Owl X software, making it easy to connect! To use this preferred method, make sure that your smart device and DVR are on the same network. 4. Add a Device To start adding a new device, first select the yellow plus sign on the Device menu. 4A. Smart auto-detection If your smart device and dvr are on the same network, smart auto-detection will automatically find the dvr. If this method is not available, use the QR code configuration from step 4B below. 4B. QR Code Configuration To use qr code configuration, select the QR code configuration device and hover over the Smart Device lens above the QR code in the upper right corner of the recorder. Sign in to App 5. On the Device login screen, enter your dvr login details (Remember, the DVR login and the Night Owl X are different). By default, the DVR user name is administrator. If you're not an administrator, sign in with your username credentials. If you don't have a username and password, contact your administrator and ask them to create one using the instructions on page 7 of QSG. The administrator password appears on the startup wizard password verification screen. Night Owl strongly recommends that you save your password in the quick setup guide for your dvr. 7.1.8 Camera/Channel Settings The Camera/Channel Settings screen of the Startup Wizard serves as a reminder to mount the system cameras in the end position, so you can make accurate changes to the positioning, detection area and sensitivity of the channel. The Launch Wizard camera positioning screen shows you how you can use Live View in Night Owl X or Night Owl X HD to easily adjust the position and angle of view of your cameras. 7.1.10 Channel Configuration The Launch Wizard Channel Configuration Screen explains in detail how you configure channel settings. Read this screen carefully, as the screen below will allow you to configure settings for each channel connected to the Camera. The second Channel Configuration screen of the Startup Wizard allows you to configure the following channel settings. 1. Edit the channel name. 2. Turn the alarm on/off (push notifications). 3. Define the motion detection area. 4. Adjust the motion sensitivity. 5. Set Up Setup recording schedule: 5a. 24/7 Motion - Channel records when motion is detected. 5b. 24/7 Continuous - The channel records non-stop at selected 5c hours. Custom Schedule - You define recording modes, dates and times. NOTE: If you choose a custom schedule but don't want to add a recording schedule will be recorded 24 hours a day. 7.1.11 Default View The default view allows you to select the default view of the monitor connected to the dvr. You can choose several display options from the drop-down menu: 1 * 1 channels on the screen 2 * 2 channels on the screen 3 * 3 channels on the screen 8 channels on the screen 9 channels on the screen (for applicable) 7.1.12 Helpful links NOTE: Scan these QR codes directly from the TV / monitor, NOT directly from this page. The Useful Links and Support screen of the Startup Wizard contains QR codes linked to: PC/MAC DVR Troubleshooting Guide® DVR Support Download Page Remote Browsing Help page For more information, visit the www.NightOwlSP.com and click the Support tab at the top of the page. After the Startup Wizard is successfully completed, click Finish to start using the Night Yation Recorder. The following sections describe the main screens that you'll have access to sign in, play, record, and configure. 7.2.1 Login Screen Every time you want to configure or customize system settings, you need to log in with your username and password. It is important to save your login details or you will not be able to access the registrar. Be sure to save your username and password in a safe place. To access the main menu, you will need this information. User Name: Enter the user name that you created in the Startup Wizard or user name. Password: Enter the password created in the Startup Wizard or user name. If the password is incorrect, you will be prompted to try again. Keep in mind that your password is case-sensitive. Forgot PWD?: Sends secure code to recovery email. After you enter a secure code, restart the recorder and create a new password for you DVR. 7.2.2 Live View (all channels) Live view is the default screen you'll see when you view all channels on your recorder. You can customize the live view by selecting the Quad, Eight, or Nine channel configuration. In Quad view mode and 9, double-clicking the channel will display the camera image in full double-click the full-screen channel to return to the multi-channel view. In view mode 8, double-click the channel to display it on a larger screen on view screen 8; double-clicking a larger screen transforms this channel into a full-screen view. Double-click again to return to the display mode. Date and time: The current date and time of the system. Channel name: The channel name is displayed on the screen. DVR status recording icon: Indicates that the recorder is currently recording video from this camera. This icon will be the same regardless of whether the recording was scheduled, manually initiated, or motion-freed. Speaker icon: Enables or disables audio that is streamed from a camera that supports audio. Motion detection icon: Indicates that an alarm event has occurred, such as motion detected, loss, or tampering. Refresh icon: Automatically detect camera formatting. By double-clicking this icon, you can change the format from CVI to AHD to TVI. This would allow DVR to have different types of cameras connected at once. Question mark: Displayed when there is no signal to the channel. Video loss icon: Indicates that a specific channel has lost a channel from the corresponding camera. This may be due to cable disconnection/damage, the camera may lose power, or the camera may have been removed from the channel. It will also appear if you don't have a camera connected to the channel. Main menu: Go to the main menu to configure or customize settings. Be sure to save your username and password in a safe place. To access the main menu, you will need this information. Lock screen: Manually locks or unlocks the screen. After you lock the screen, enter your user name and password to access it. Startup Wizard: Prompts the Startup Wizard to start the wizard again. Quad view: 4-channel display layout. 8-channel view: 8-channel display layout. 9-channel view: 9-channel display layout. Automatic sequence: Start/Stop sequence of each channel's slideshow. Audio: Adjust the volume of audio streaming from the audio camera or audio output. PTZ: Open pan, tilt, zoom (PTZ) menu. This function will only work if the PTZ camera is connected to the recorder. Playback: Access the recording/playback menu and functions. Go to the main menu by selecting the menu icon in the live view bar. In the menu you will be able to access the settings and parameters for all aspects of the DVR system. General menu: Set up display and networking. Camera menu: Access channel display, color settings, encoding settings, and more. Recording menu: Set up or modify general recording, triggered events, and recording settings. Access to playback of recordings. Device menu: Monitor access to hard disk space and access PTZ settings. System menu: Access general settings such as timestamp displays, user access, system information, and access logs. Advanced menu: View and change settings hdd updates and alerts. Be sure to click Apply to save any changes you've made to the menu. If you do not save the changes, they will not be applied. You can also select the Default button on any page to restore the default settings to the default Parameters. The general menu allows you to access the display settings and network DVR system. Slide show: By default, selecting the Slide Show check box activates all views. To delete a view, clear the box and/or boxes next to the view you want to delete. Slide show: Adjust the display time of each channel during sequential view. You can select from 1 to 300 seconds per channel. To start the auto-sequence feature, click the Auto Sequence icon on the Quick Access Bar. View 1: This is a full-screen slideshow view. Select the number of channels to include in the slide show sequence. View 2: This is the quad video slide show setting. Select the number of slides based on the number of channels used. One slide will show 4 channels. View 8: This is the 8-View slide show setting. Select a slide based on the channel you want to display in maximized view. View 9: This is the 9-View slide show setting. Select the number of slides based on the number of channels used. Video quality: Modify the resolution used to display the image on the TV/monitor. By default, the recorder selects a resolution of 1920 x 1080. TIP: Do not select a resolution size larger than the TV/monitor. Transparency: Modify the transparency of the menu displayed on the screen. Find network values about your Internet connection. To connect the dvr to your modem/router and establish an Internet connection. The values in this section should only be adjusted if you are an advanced user and have extensive experience in a network of devices. Enable dhcp: The most common type of network connection. These values will be automatically collected from your ISP when connected. Static IP address: Modify these values if you are using a static IP address. Contact your router and network service provider for information. Internet port: Allows you to access the dvr via LAN or the Internet. In most cases, the default value of 80 will provide the most optimal connectivity. IP address: The network address of the connected logger. Subnet mask: A range of IP addresses that can be found on the network. Always set the default address to 255.255.255.000. Gateway: A connection between two networks. This should always be the IP address of the connected router. DNS1: The address of the primary domain name server. DNS2: The address of the secondary domain name system server. The DDNS option allows you to configure a free website address that points back to the registrar, regardless of whether the IP address changes. If you do not have a static IP address, use this option. Visit www.NightOwlDVR.com to sign up for a free domain name (DNS). Enable: enable or disable ddns. Server: Using the free Night Owl domain name server, you must configure the nightowl. Domain name: Enter the domain name created by registering DDNS at www.NightOwlDVR.com. User name: Enter the user ID created during DDNS registration. Password: Enter the password created during DDNS registration Customize or modify the individual camera settings connected to the recorder. Channel title: Set display options for each channel. View time: The time displayed in channel view. Channel title: Displays the channel name in channel view. Record status: Display the status of the display record in channel view. Alarm status: Display the alarm status in channel view. Bit rate information: View bit rate information in channel view. Channel: Set the channel to edit. Region cover: Enable or disable privacy zones on the selected channel. View position and channel title position: Check the View channel time and title boxes to see the time and title of the channel in channel view. Color setting: Click Set to access the submenu to adjust the colors of the selected channel. In this submenu, you can adjust the hue, brightness, contrast, grain, horizontal sharpness, vertical acumen, and saturation of the image. View or modify the general recording settings of the DVR system. Channel: Select a channel to edit. Video Compression: Set the video compression format to optimize compression bandwidth and DVR space. Resolution: Choose 960 (960 x 480), 720p (1280 x 720), 1080p (1920 x 1080), 3MP, 4MP, 5MP or 8MP based on or monitor capabilities. Frame rate (FPS): Increase or decrease the frame rate of streaming video depending on the connection speed. Higher FPS quality means better video quality or stuttering, lower the FPS. Bit rate type: Select CBR (fixed bit rate or constant encoding rate) or V/B (variable bit rate or average encoding rate); if you are using VBR, you need to select the desired video quality. Quality: Choose the quality of your video recording. Bit rate: Adjust the amount of data that is being streamed. The default setting is sufficient for most networks. I-frame interval: Select the interval between frames I. When the interval is shorter, the video quality is higher, but the video requires more network capacity. When frame spacing is longer, video transmission consumes less bandwidth, but video quality is lower. Sound: Click this box to record audio if the camera is turned on. Audio-enabled cameras are only included on some models of the set. Channel: Select the channel you want to set up Enable motion detection: When selected, motion detection will be enabled on the selected channel. By default, all channels have motion detection function. Buzzer: Switch between on and off to enable an audible alert from the recorder. Sensitivity: Adjust the level of motion detection. A lower setting will require more camera movement to start recording. Area: The kit will allow you to configure areas that will and will not detect motion traffic. Red boxes indicate areas that detect movement, and non-colored fields show areas that won't. When you're done, right-click to return to the menu. Save post: Set the recording time when motion is detected. You can select from 30 to 300 seconds. Notification schedule: Set a schedule for push notifications. Set a push notification schedule by following these steps: Select the day you want to set up. Set up to four intervals for which you want to receive push notifications. If you select the box next to the time interval you set, the push notification schedule is activated. Continue editing by selecting different days from the drop-down menu. Click OK, and then select Apply on the menu screen to save the settings. Push interval: Set the time between each push notification from motion detection. The default parameters are configured for optimal use. Adjusting intervals can result in missed notifications. Write log: If selected, this menu option will save a log of each motion detection event. PIR: This option activates Night Owl intelligent detection technology based on PIR detection. It is enabled by default, disable if you want to use standard motion detection. For your DVR to exceed PIR parameters, turn off the PIR sensor. Push: Turn on/off the recorder to send push notifications to Night Owl X or Night Owl X HD app when motion detection is triggered. Recording channel: Turn on /Off recorder to send push notifications to Night Owl X or Night Owl X HD app when motion detection is started. When motion is detected on the edited channel, all cameras selected under Recording Channel will start recording at the same time. The owl smart night detection system uses both motion and infrared sensors to ensure a minimum number of false alerts. Current motion detection technology allows the system to start recording when the device detects a pixel change. Thanks to the use of infrared sensors, the system now needs to detect both the pixel change and the heat change so that the system records when the motion is set. Night Owl uses high-tech UITC cabling, which sends a signal from the camera to the record. If configured, the recorder will send a push notification to the smart device, which will contain a built-in video clip of the object triggering motion and infrared sensors. To set the PIR detection area for the PIR camera, first log in to the recorder's main menu, and then select Motion Cameras > . Select the channel you want to set up from the marked as Channel, and then click Area > Set. You will be redirected to the detection area screen. By default, all squares should be red, which means the entire field is set to detect heat changes. If there is an area in the camera's field of view where you do not want detection to be active, do the following: Click a square in one corner of the area that you do not want to detect. Click and drag to the area you want to freeze. Release the mouse and make sure you have selected the desired area. Right-click and select Save to apply the settings and exit the menu. 8.3 Record menu From this menu you can enable recording, set video settings and customize a recording options. Channel: Select the channel you want when motion is detected, from 1 to 120 minutes. When using continuous recording, the length of the video will be recorded. Max Pre-Record: Enter the time during which the recorder is on pre-record when the alarm starts recording. TIP: You can select from 0 to 30 seconds of pre-recording. Please note that this is an approximation. Record configuration: Click and drag to select scheduled continuous and motion/alarm recording hours. Each square represents one hour of time during that day. Red squares indicate that the logger is set to a motion record. Yellow squares represent the time at which the recorder will continuously record. Copy: Copy the recording settings to multiple channels. Default: Reset to factory settings. Save: After you make your change, select Save. If you don't choose save, your changes will be re-made to your previous settings. Search for and play back all recorded videos from this menu. Select the date and time you want from the options below, and then click Play to view the recorded video. Right-click to go back to the menu screen. Playback Origin: Select the start of playback, you can select two options: Read/Write: Read recording on hard disk. Backup devices: Read the recording on an external disk drive. The recording MUST be exported by the recorder. Calendar: Highlighted dates indicate that recordings are available to watch these days from selected cameras Camera Selection: Search for recordings from up to two cameras at a time. File export mode: Switch to file export mode. Video playback control pane: You can perform various playback operations, such as pause, slow, and undo/forward. You can also pin parts of a video recording and save them to external USB storage media. When playing multiple cameras, the control window works for the selected camera on the video screen. Videos play here when you click play on the Playback toolbar below. If more than one camera is selected, the Video screen appears in multiview format, easily view the camera in full screen by double-clicking on the camera screen. To return to the multiview screen, double-click the screen again. Right-click in the Playback screen appears and the menu bar shown above appears. This menu bar allows you to return, stop playback, and set it to full screen. Start/Play/Pause: Start/Play/Pause playback. Play Backward/Pause: Play/Pause playback backwards. Stop: Stop playing. Release: Slow down video playback (x1/2, x1/4, x1/8). Rewind: Rewind (x1/2, x1/4, x1/6, x1/8). Fast forward: Fast forward playback (x1/2, x1/4, x1/6, x1/8). Previous frame: Move the video to the previous video frame. Next frame: Move the video to the next video frame. Previous recording: Switch the video playback to the previous recording. If the video playback is Motion Recording, it will switch to the previous motion detection file, if it is continuous recording, it will scroll the video channel by one hour. Next recording: Switch the video playback to the next recording. If the video playback is Motion Recording, it will switch to the next motion detection file, if it is continuous recording, it will scroll the video channel by one hour. Repeat playback: When playback is complete, the video will restart the first time you record the selected day. 12 13 17 18 19 14 15 16 Full screen: Watch full-screen video playback. Start/Stop Cropping: Trim the interesting parts of the recorded video by clicking start trimming at the beginning and stop trimming at the end. Backup: Back up video clippings to an external file drive. Status: Indicates the current playback state. Sync mode: View recordings from multiple channels on a single play timeline. Save Filter Type: Filtered based on recording type: Motion or Continuous. Timeline scale: Modify the video timeline at a specific time. Timeline: Shows all cameras that play video recording at the time you want. 8.3.3 Export records To export a recording, switch to recording mode after selecting a specific date by clicking the Export Film icon. A list of all recordings appears in the navigation panel. You can play the video on the video screen before exporting. Play the video and double-click the video segment you want to watch. Once you've selected the videos you want to export, click the Backup icon. Backup dialog box: Refresh: Search for USB storage devices connected to the dvr. Backup: Export video recording. Recording: Start recording live view video on the selected flash drive. Format: Format the selected flash drive. NOTE: This option will remove all data from the flash drive when formatting. Type: Select recording type. Options: Motion Detection (MD), Manual, General, Alarm/MD and All. channel to export recordings. Start time: The date/time when the search for recordings began. End time: The date/time when the search for recordings ended. Delete: Delete the recording from the search. Add: Shows recordings. Recordings: video recordings within the set search parameters. Backup format: The type of format used to back up recordings. The standard format is AVI and should be set by default. H.264 should only be selected if the firmware supports it. Check the available memory on the DVR and set the recording parameters to optimize storage Select: If multiple drives are installed, select the hard drive you want to customize. View recording time: Shows recordings that are on your hard drive. View type and capacity: Shows the total storage used and the available hard disk space. It also shows the type and status of the recording. If a status does not say Normal, restart the logger. If the status does not return to normal after a restart, you may need to replace your hard drive. 8.4.2 (a) Using the RS485 control method, configure the settings on the recorder to control the PTZ-capable camera. Channel: Select a channel with a ptz-enabled camera. Protocol: Is a type of PTZ data protocol that will be used to control PTZ cameras. The default ptz night owl is PelcoD. Address: Enter the number in the ey to the PTZ camera, greater than 0. If you use multiple PTZ cameras, the ID numbers cannot be the same. Baud rate: Indicate the frequency of communication with the PTZ camera. We recommend that you leave the default setting of 9600. DataBit: Select the amount of data to send during each transmission 8 bits is the standard for all modern data transmissions. StopBit: Select the amount of additional data to send each time the direction is sent to the camera. Stopbit serves as a buffer between commands and should be 1 (default) using the AHD PTZ Night Owl camera. Parity: Detects corrupted commands sent to and from the PTZ camera. This should usually be left off 8.42(b) Using Control Method UTC (Up-The-Coax) If you are connecting a PTZ camera that uses UTC (Up-the-Coax) technology and does not require the use of an RS-485 port, you need to change the method of controlling the channel to which ptz is connected. Since the PTZ camera and UITC will communicate via video/power cable, change the control method to UTC. To do this, sign in to the DVR and follow these steps: Select a device. Select PTZ. Choose Apply. Select UTC from the drop-down list for the control method you want to change. Basic system configuration. System Time: Manually set the date and time of the recorder. Date format: Choose a date display format. Time zone: Choose between 12hours or 24 hours display. Language: Choose between english, Spanish, or French preferences. Full Storage: Select Select if you want the recorder to save old recordings when the hard drive is full. Video format: NTSC or PAL formats are available for selection. NTSC is the standard for video in North America and is the default setting for the recorder. Before changing the video format, make sure that your TV/monitor is PALL-compatible. Menu timeouts: Select the display time from the main menu to the screen saver. NTP: Select to change the NTP server. Configure daylight saving time settings. Daylight Time: Turn Daylight Saving Time on or off. Day of the week - Date: Specify whether you want this feature to be applied during the week or on the exact date. Start time: Select the date and time when the demo go time offset is applied. End time: Select a date and time to remove the time offset then go. Set up a national time protocol. Server address: Select the server to use the Night Owl to sync time. Create and modify user permissions. Modify user: Select an existing user from the list to rename the group, enable or disable password access, and modify permissions. Modify Group: Select an existing group from the list to rename the group, enable or disable password access, and modify permissions. Modifying pwd: Modify the password of the recorder. Add user: Add a new user. Delete user: Delete user. Delete Group: Delete group. Refresh: Restore user/group settings to factory settings. Add group: Add a new Modify email group: Edit the email address used to recover your password. 8.5.2(a) Modify user name: Create a new user name. Password: Set a password for the new user. Confirm password: Re-enter the password you set for the new user. Note: Optional description of the new user account. Group: Select a group to administer authority parameters. Authority: Adjust the DVR permissions for the selected group. See dvr system information and specifications at a glance. This menu contains key device and network information to allow you to manually reconfigure your mobile app as needed. Keep in mind that you can also scan the QR code on this screen using the Night Owl X or Night Owl X HD app to quickly refigure your mobile device using our Owl Scan feature. DISCLAIMER: The QR code in this image is not active. Use the QR code scanner on your smart device to scan the QR code on the the menu screen. Hardware version: The current hardware version of the dvr. Software version: The current version of the software. Device name: The model number of the recorder's product. Model: The product number of the recorder. UID: Unique Identifier Search for logs of all events and notifications on the recorder. Type: Select the type of event log you want to search for. Each selection corresponds to an action or event that has been called and recorded in the system. System: For example, system logs are logged when signer time is synchronized with ntp (if enabled) or if the system is turned on or off. Start time: Select the starting date for the journal search period. End time: Select the end date of the journal search period. Previous page: Select to go backwards in the search log. Next page: Select to move forward in the search log. Configure additional settings for maintenance, hard disk space, and upgrades. 8.6.1 Support for customizing settings related to the default user access and restart schedule. Restart: Set the frequency of reboots if this feature is enabled. Automatically delete old files: Choose whether you want the recorder to automatically delete old files. This option is similar to Overwrite, but you go to manually reconfigure your mobile app as needed. Keep in mind that you can also scan the QR code on this screen using the Night Owl X or Night Owl X HD app to quickly refigure your mobile device using our Owl Scan feature. DISCLAIMER: The QR code in this image is not active. To use the version of the recorder's product. Model: The product number of the recorder. UID: Unique Identifier Search for settings to a USB flash drive for future reference. In the Preload menu, you can select the settings that you want to restore to the default settings. Configure notification settings for other non-motion detection events that are triggered, such as disk error, full disk, and/or video loss. These events will be added to the Alarm Status window. Event type: Select the type of event notification that you want to display in the Alarm Status window. Out of memory: The hard drive is full. Storage device error: Refers to the status of your hard drive and notifies you if it crashes or becomes corrupted. Storage: This event setting allows you to set the percentage of available hard disk space alarm so that when the available storage space is less than the percentage on which it is set, the notification appears in the Status window. Network disconnection: The recorder has lost internet connectivity. IP conflict: Another device tries to use the same LOGGER IP address. Illegal login: Unauthorized access was attempted on the dvr. Video loss: No video due to power loss disconnection Enable: Select a channel, and then turn notifications on or off for the selected event type. Show message: Enable the icon to appear in live view when the selected event type is triggered. Buzzer: Turn on the audible buzzer in time to notify you when this type of event happens. Deselect to turn this feature off. Push: Select this option to send a notification to the Night Owl X or Night Owl X HD app when the event happens. IP Conflict. Automatic restart: Turn auto restart on or off. TIP: This is only possible if event type or storage device error is selected. Lawn: Select the percentage of hard drive storage left to set. Storage: No No Notification of the type of event. This option is only available when hard disk space is selected. The alarm status of each camera. To be prompted to display an alarm status message, enable the Show Message check mark on the Camera>Motion or Advanced>Events menu. By default, this message is disabled. Index: Represents each camera. Alarm Type: Video Loss: Video loss is considered an alarm event and occurs every time the recorder does not receive an active video signal on any of its inputs. Motion detection: Video motion detection occurs when there is motion in the camera's field of view or if they are trying to manipulate the video signal. Check Notifications: Blank: No trigger detected. Green check mark: An unchecked alarm that has already ended. Red check mark: The alarm is happening. Advanced: Contains information about this window and allows you to customize the settings of notifications. OK: Hide the alarm status and see if the alarm is noticed. Red Check: The alarm is happening. Green Check: An unchecked alarm that has already ended. Empty field: No trigger detected. Clear alarm status in time: 0 Seconds: Clear alarm after 0 seconds. 5 seconds: Clear the alarm after 5 seconds. 30 seconds: Clear the alarm after 30 seconds. Clear the alarm after 5 minutes: 30 minutes: Clear the alarm after 30 minutes. After confirmation: Clear the alarm after confirmation. Never: Never make an alarm. Control settings for automatic DVR software updates. USB Update: Upgrade your DVR firmware from a USB flash drive. To upgrade the DVR firmware, insert the USB flash drive that contains the DVR upgrade file into the USB port on the back of the dvr. Then select the file you want from the Upgrade File drop-down menu and select Update. Automatic upgrade: Turn auto-upgrade on or off. Firmware updates will be detected automatically when this feature is enabled. The default choice for automatic upgrade is enable. Check for updates: Click Check to manually check for updated versions of software. Camera Update: To update the camera firmware, insert the USB flash drive that contains the camera upgrade file into the USB port on the back of the dvr. Then select the file you want from the Upgrade File drop-down menu and select Update. DDNS: Dynamic domain naming system. A method to automatically update host names, addresses, or other information, such as a URL on a server with that name. DHCP: Protocol dynamic host. A network protocol that allows the server to automatically assign a device and IP address. IP: Internet protocol, protocol for standardized communication over the Internet. LAN: Internet access or access to services. PIR: Passive infrared. Heat-based sensors eliminate false positives and are only displayed when people, animals or vehicles are detected. SMTP: A simple mail transfer protocol. Standards used to send e-mail messages. UPS: Uninterrupted power supply. A device used to keep the recorder on using a standard BNC (Video/Power) cable without the need for a separate port. XHD: Analog hi-definition. Provides clear and clear HD video with a focus cable. NIGHT OWL, LLC (Night Owl) grants the following warranty only to the original retail buyer (Buyer) with respect to this product (Product): For a period of one (1) year from the date of sale, the Product will be free from manufacturing defects in materials and workmanship. In the

case of a defective product, the Buyer must return the Product at the Buyer's expense (without COZ) to the following address together with the original proof of purchase. At its sole discretion, Night Owl will repair or replace the Product at no additional cost to the Buyer. Any replacement products (or parts) will be covered by the same warranty as the original Product until the expiry date of the original warranty period. Exclusions This warranty does not apply to the following parts or events: light bulbs, LEDs and batteries; The product has not been used or installed as described in the installation instructions; Negligent use of the Product or misuse or abuse of the Product; Electrical short circuits or power surges; Use of spare parts not supplied by Night Owl; The product is modified, modified or repaired by another service provider; The product has not been maintained in accordance with the regulations; Accident, fire, flood, or other acts of God; Non-use of night owl approved accessories; Defects or damages resulting from the use of the Product under conditions other than normal conditions (including under normal weather conditions, humidity and humidity). Unless otherwise provided by law, this warranty is in place of other warranties, express or implied, and Night Owl does not accept any person to accept any other obligations or liability in connection with the sale or service of the Product. In no event shall Night Owl be liable for any special or secondary damages resulting from the use of the Product or resulting from malfunction or malfunction of the Product or for any delay in the performance of this warranty for reasons beyond its control. This warranty does not apply to installation or disassembly and installation of products after repair. Night Owl makes no claims or warranties of guarantee with respect to the potential, ability or effectiveness of the Product to prevent, minimize or in any way affect injury or injury or personal injury or property. Night Owl shall not be liable for any personal injury, loss or theft related to the Product or its use in the event of any physical or psychological damage. Any claim or representation, whether written or oral, by sellers, retailers, dealers or distributors that are to the contrary is not authorized by Night Owl and does not affect this provision of this warranty. Returns under this warranty In order to obtain the service, please ensure that the product is registered online no later than thirty (30) days after purchase at www.NightOwlSP.com in the warranty registration section or in any other way described in the instructions. Reservation of certain uses, publication and/or distribution of video/audio recordings from security cameras and/or audio devices is prohibited or restricted by federal, state and local laws. When enabling and/or using the hidden security camera audio recording function, you must comply with the laws of your country, state and city. Mac and Mac OS X are registered trademarks of Apple Inc. Windows, Windows XP, Windows Vista, Windows 7, Windows 8, and Windows 10 are registered trademarks of Microsoft Corporation in the United States and/or other countries. If you experience a problem, you can easily fix it yourself. The following table describes some common problems and their most likely solutions. Review the table before calling support. Be sure to save all the important information below and put it in a safe place. General information about the recorder NOTE: The mac address can be found in the Network tab of the recorder's maintenance menu. The component model number can be found in the Device Information tab of the recorder maintenance menu. Administrator password: User password: Mac address: component model number: Internet login information NOTE: This information can be found in the Network tab of the dvr configuration menu. IPv4 Address: IPv4 Subnet Mask: IPv4 Gateway: DNS1: DNS2: For troubleshooting instructions, FAQs, video tutorials, and more: Visit www.NightOwlSP.com. Click the Support tab. Type THD30 in the upper right search bar. Access to the necessary support material. Phone Contact (English, Spanish & French) Sales / Support 1.866.390.1303 Live Chat 24/7, 365 days a year Email Sales Support Sales@NightOwlSP.com support Support@NightOwlSP.com website 24/7 Support •User www.NightOwlSP.com iPhone, iPad, Mac, and Mac OS X are registered trademarks of Apple Inc. Windows, Windows XP, Windows Vista, Windows 7, Windows 8, and Windows10 are registered trademarks of Microsoft Corporation in the U.S. and/or other countries. Countries. Countries.