

Uniden®

WIRELESS DIGITAL VIDEO RECORDER

WDVR4-2
WDVR4-2 HDD

OWNER'S MANUAL



CUSTOMER CARE

At Uniden®, we care about you!

If you need assistance, please do NOT return this product to your place of purchase. Our customer care specialists are available to serve you.

Quickly find answers to your questions by:

1. Reading your owner's manual.
2. Visiting our customer support website at www.uniden.com.
3. Calling our customer care specialists at 1-800-658-8068.

Images in this manual may differ slightly from your actual product.

Save your receipt/proof of purchase for warranty.

Uniden surveillance products are not manufactured and/or sold with the intent to be used for illegal purposes. Uniden expects consumer's use of these products to be in compliance with all local, state and federal law. For further information on video surveillance and audio recording legal requirements, please consult your local, state and federal law.

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WIRELESS DVR OWNER'S MANUAL

WDVR4-2 AND WDVR4-2 HDD

INTRODUCTION

ABOUT THIS MANUAL

The Wireless Digital Video Recorder (WDVR) system is currently available in 2 configurations: - HDD and non-HDD. The WDVR receiver supports an optional external USB HDD, comes with an 8GB microSD card, and supports an external USB hard drive (not included). The WDVR HDD receiver comes with an internal 1TB HDD. Most operations are identical between the two configurations, and this manual refers to the WDVR for simplicity. Features and operations unique to the WDVR or WDVR HDD are discussed separately.

The WDVR system provides up to 4 video channels and can accommodate up to 4 digital video cameras. This manual covers the 4 channel-2 camera configurations; hence, the model names are WDVR4-2 and WDVR4-2 HDD.

INTRODUCTION

The WDVR system consists of a WDVR receiver and digital wireless cameras. The WDVR receiver stores video and audio data from up to 4 cameras. You can view the data in real-time, later, or remotely via mobile device(s) with an internet connection (smartphone, tablet, etc.).

The Digital Wireless Camera(s) wirelessly transfers compressed video and audio data in digital format. This digital format offers an efficient, secure, and interference-free wireless connection to the WDVR receiver. Transferring audio and video is secure and private, with no need to run cable(s) between the receiver and the cameras. Installation is quick and easy.

USING THE WDVR

You can manage your system remotely (using Uniden's WDVR app) or through the mouse (using an internal management system in the WDVR receiver).

FEATURES

- 8GB microSD card (WDVR4-2 only)
- Supports external USB HDD (WDVR4-2 only)
- 1TB Internal HDD (WDVR4-2 HDD Only)
- Remote live access through Uniden's free WDVR app, available on Apple's App Store, Google Play, or the Amazon App Store.
- Remote Snapshot & Record
- Event Notification/Email Alert
- Integrated Software
- Supports up to 4 weather-proof audio reception cameras at VGA (2 cameras included)
- Independant Camera Setup
- IR Cut Filter Switch
- PIR Motion Sensor
- Built-In Microphone
- High Quality VGA H.264 Video
- Night vision range up to 40 feet

- Transmission up to 500 feet
- HDMI Output

WHAT'S INCLUDED

			
Digital Wireless Outdoor IR Camera (2)	WDVR Receiver (1)	Camera/Receiver Antenna (3)	Camera Stand (2)
			
Screw Pack for Camera (2)	Ethernet Cable (1)	Camera Power Adapter 5V/1A (2)	WDVR Power Adapter 12V/2A (1)
			
Mouse (WDVR4-2 only)	8GB MicroSD card (1) (WDVR4-2 only)	HDMI Video Cable (1)	Quick Start Guide

MINIMUM SYSTEM REQUIREMENT FOR DVR:

For Networking:

- DHCP enabled router
- Available port on router
- 1.5Mbps or above upload bandwidth (both home and mobile device).
- iOS 5.0 or above.
- Android 4.1X or above, and 1.2GHz / 1.5GHz dual core or above.

For Recording:

- Max 2TB HDD supported.

For Display:

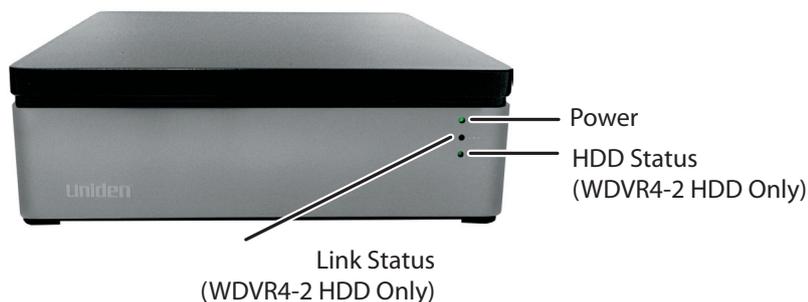
For best performance, use the HDMI cable provided.

ABOUT THE WDVR4-2 SYSTEM

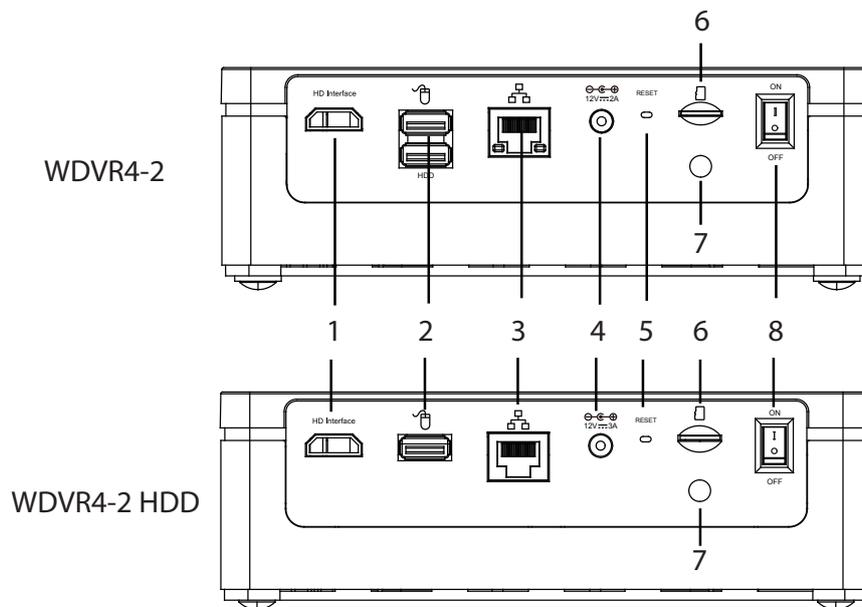
The WDVR4-2 system is comprised of a 4-channel WDVR receiver with 2 digital wireless cameras. It comes in 2 configurations - an HDD system and a non-HDD system. Additional cameras are available from www.uniden.com.

Wireless DVR Receiver

Front



Back

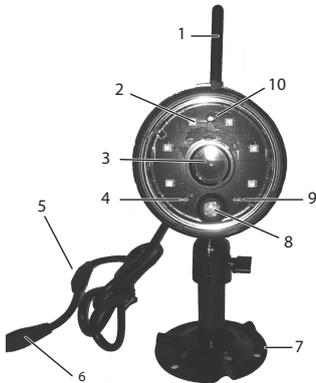


ITEM	NAME	FUNCTION
1	HD Interface	HDMI Video & Audio Output (TV)
2	USB Port	Top USB port: Mouse Bottom USB Port (WDVR4-2 Only): External HDD
3	RJ45 Port	Internet Connection (Router)
4	Power Input	DC 12V Adaptor
5	Reset	Reset System
6	MicroSD Card Slot	Insert microSD Card
8	SMA Connector	Receiver Antenna
7	Power On/Off Switch	Power DVR Receiver On/Off

Note: Connect the HDMI cable to the TV and insert the microSD card before powering on the WDVR.

Wireless Digital Outdoor PIR Camera

Front



ITEM	NAME	FUNCTION
1	Antenna	Transmit / Receive Digital Wireless Audio / Video Data
2	IR LEDs	Night Vision
3	Lens	Capture Image
4	Power Indicator	Indicate Power On/Off Status
5	Pair Button	Pair accessory camera to system
6	Power Connector	Connect camera to power adapter.
7	Camera Stand	Fasten Camera to Wall, Ceiling and/or Flat Surface
8	PIR	Passive Infrared sensor for detecting motion
9	Link Indicator	Indicate Wireless Data Transfer Status
10	Light Sensor	Detects light levels

Back



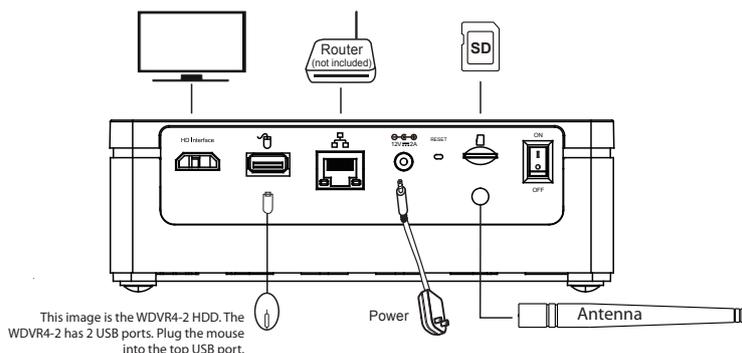
ITEM	NAME	FUNCTION
1	SMA Connector	Antenna
2	Microphone	Capture Audio
3	Power/Pair Cable	Conduct Power to Camera

INSTALLING YOUR SYSTEM

Before you begin installing your system, keep in mind the following:

- Read the Quick Start Guide and this Owner's Manual.
- Unpack all boxes carefully and verify that all the parts are present.
- Use only the enclosed power supplies. Camera or WDVR receiver damage caused by using incorrect power supplies, voltage, or wiring is not covered by the warranty.
- Cutting any cable will also void the warranty.
- Do not drop, pierce, or dismantle the camera or receiver.

SET UP YOUR WDVR SYSTEM



1. Connect the antenna and mouse to the back of the WDVR receiver.
2. Connect the Ethernet cable from the WDVR receiver to the router.
3. Connect the HDMI cable from the receiver to the HDMI video connector on the TV/monitor. Use the TV's remote controller to adjust audio/alarm volume and to fine tune the camera's image quality. Camera image quality may vary among TV brands.
4. (WDVR4-2 Only) Insert memory card.

Note: Connect the HDMI cable to the TV and insert the microSD card before powering on the Digital Wireless Receiver.

5. Connect the supplied power adaptor from the receiver to a power source (electric wall socket).
6. Power up the cameras.

Note: The cameras that come with your package are already paired to your receiver.

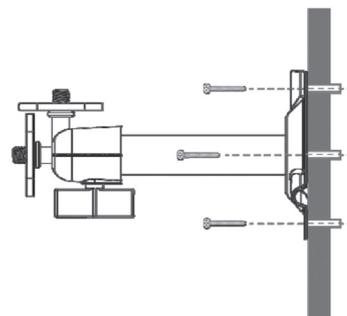
7. Power up the receiver. When the green POWER LED is steady on, the console is ready for use.
8. Turn on TV/monitor and switch to proper input sources.

Note: The HDMI interface automatically configures/adjusts the audio output to proper format supported by TV/monitor. Please use TV volume adjustment to adjust the audio level. You may need to reset TV input to pick up WDVR receiver's HDMI signal.

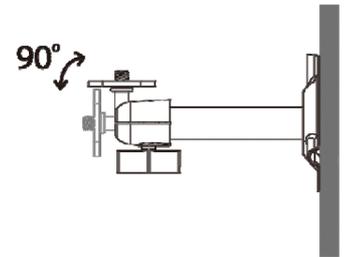
Note: The USB port is designed for the USB mouse ONLY. Do not use it for any other purpose.

INSTALLING YOUR CAMERA

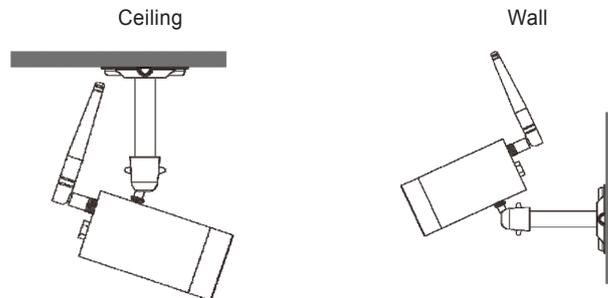
1. Find a suitable location to mount the camera.
2. Fix the camera stand to the wall using the supplied wall anchors and screws.



- Loosen the thumb screw of the camera stand and secure the camera body to the bracket. Make sure the camera is in an upright position (relative to viewing).



- Screw the antenna to the rear of the camera.



- Connect the supplied power adaptor to the camera and the power source. The camera's red power LED will light up. The camera is now ready for use.
- Pair any additional additional cameras to the DVR through the Uniden WDVR app.

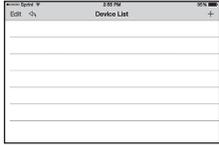
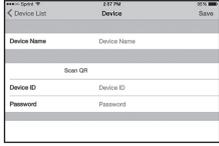
Note: The cameras that came with the package have already been paired to the wireless DVR.

REMOTE OPERATION (UNIDEN'S WDVR APP)

Uniden's WDVR App lets you remotely manage and monitor your WDVR system with your mobile device. You can add or delete cameras, monitor and record live video, play recorded video, take snapshots, and manage video storage.

Note: View and manage snapshots through your mobile device.

ADD SYSTEM TO THE APP

1.	Download the Uniden WDVR app from Apple App Store, Google Play, or Amazon App Store. Launch the app.	
2.	Tap  to add your WDVR system. The <i>Device List</i> screen displays.	
3,	Tap  in the upper right corner of the screen. The <i>Device Setup</i> screen displays.	
4.	Enter a name for your system. Tap <i>Scan QR</i> . Scan the QR code on the bottom of the WDVR receiver.	
5.	Enter the default password (123456) and tap <i>Save</i> . The <i>Device List</i> displays again with your WDVR system listed as the name you entered previously. Note: It is strongly suggested that you change the password to something less common and that you will remember.	
6	Select your device. <i>Connection</i> screen displays.	
7	Press  and Live video displays. It may take a few seconds to access remote video, depending on your network environment.	

The WDVR system allows a maximum of 3 remote viewers on the system. The fourth connection attempt will be rejected. When a local user is operating in the Setup menu, remote users are temporarily denied WDVR access until the local user leaves the Setup menu.

The WDVR system requires a minimum 1.5Mbps connection bandwidth per connection for best streaming viewing quality. If bandwidth is below 1.5Mbps, set camera resolution and quality to Low to improve streaming remote image quality.

LIVE SCREEN/TASK BAR

The Live screen is divided into as many channels as you have cameras. The WDVR4-2 configuration contains 2 cameras; therefore, the screen is divided into 2 sections. Tap the screen to display the Live video task bar. It doesn't matter which section of the screen you tap.



Two Channel Screen Display



Two Channel Screen + Task Bar



Single Channel Screen Display

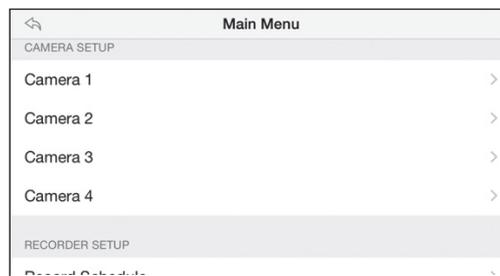
Live Video Task Bar Icons

Tap the Live video screen and a task bar displays across the bottom of the screen.

ICON	WHAT IT IS	WHAT IT DOES
	Receiver List	Displays a list of WDVR systems on this app and lets you add a new system or additional cameras to an existing system.
	Main Menu	Sets up the camera, WDVR receiver and system, and storage. See <i>MAIN MENU</i> after this table.
	Enable Push Notification	When enabled, you will receive an email notification when the WDVR system detects motion. Set the parameters for push notification by tapping then scrolling to <i>Push Notification Setting</i> . (See page 13.)
	Storage	Access recorded files on your storage device(s).
	Record	Tap to begin recording. Tap again to stop recording. Tap to view recorded files
	Exit	Tap to leave the system. When you leave the WDVR system, this icon is replaced with the Play icon, . Tap it to return to your WDVR system.
	Snapshot	Takes a snapshot of your video image. Snapshots are stored on your device.

Main Menu

Tap to display the *Main Menu* options. Slide your finger up and down your screen to scroll through the options.



MENU	SUBMENU	DETAILS
Camera Setup	Camera 1 - Camera 4	<ul style="list-style-type: none"> • Pair cameras • Set resolution to high/low • Set video quality to high/low

MENU	SUBMENU	DETAILS
Recorder Setup	Record Schedule	Set up to 5 recordings for individual cameras or all cameras to record by a set schedule or by motion sensitivity. You can also cancel all recordings.
	Motion Sensitivity	Set motion sensitivity per camera to: <ul style="list-style-type: none"> • PIR or Motion High • PIR or Motion Mid • PIR or Motion Low • PIR • Cancel
	Motion Area	Mask specific areas of the screen for motion sensor to ignore.
	Recording Options	<ul style="list-style-type: none"> • Record Length (30/60/120 seconds) • Motion Alarm (10, 5 seconds; Off) • Camera Disconnection Alarm (10, 5 seconds; Off)
System Setup	Date and Time	Set Date and Time using scroll bars.
	Language	Select display language using scroll bar.
	Display Setup	Turn Signal Indicator and Record Date/Time on/off
	Idle Display	<ul style="list-style-type: none"> • Display Quad (4-channel only; see page 24) • Display Smart Quad (4-channel only; see page 24) • 10 Second Intervals • 5 Second Intervals
	Power Saving	Set screen to be always on or off after a 5 or 10 minute interval.
	Push Notification Setting	<p>Note: Enable Push Notification through the Push Notification icon on the task bar (see page 12) before setting it up.</p> <ul style="list-style-type: none"> • Set notification intervals (1, 2, 5, 10, and 20 minutes) • Set notification time start/end time.
Storage Setup	Storage Status	HDD Device or SD Card set to overwrite or not (cycle).
	Storage Format	Format the SD card or the HDD device.
	Network Status	<ul style="list-style-type: none"> • Set network type (DHCP or Static) • Displays current security code and gives option to change it.
	System Information	<ul style="list-style-type: none"> • Camera firmware version • Network DID and Security code

OPERATION OVERVIEW

<p>Set up automatic recording</p>	<ol style="list-style-type: none"> 1. From the task bar, tap  /Record Schedule. Select a camera. (Select <i>All Cameras</i> to set a recording schedule for all cameras.) 2. Tap <i>None</i> (no schedule set up), <i>Schedule</i> (record during specific days and times) or <i>Motion</i> (record when motion detected). 3. For <i>Schedule</i>, select desired day/day range and start/end recording times. For <i>Motion</i>, be sure to tap <i>Motion</i>. Set <i>Motion Sensitivity</i> (see page 13). 4. Tap <i>Save</i> and verify setting change. 	 
<p>Play Recorded Video</p>	<ol style="list-style-type: none"> 1. From the task bar, tap  . 2. Tap <i>SD Card</i> or <i>HDD Device</i> and then select a camera to view recorded files. 3. Select a day and then a file to view. 4. The file plays; Tap the screen to display a video control bar. 	 
<p>Take Snapshot</p>	<p>Tap  to take a snapshot of what is on the screen. If more than one channel are displayed, the snapshot shows all channels.</p> <p>If you want to take a snapshot of a specific channel, double tap that channel image. It displays full screen. Now tap  .</p>	
<p>View snapshots</p>	<p>Snapshots are saved on your mobile device. View them in your photo gallery.</p>	
<p>Add Additional Camera</p>	<ol style="list-style-type: none"> 1. Tap  . Tap the camera number you want to add (Camera 3, etc.) 2. The <i>Add Camera</i> screen displays. Tap <i>Pair</i> and then press the Pair button on the camera's Power/Pair cable. 	

BASIC SYSTEM OPERATIONS - QUICK SELECT MENU BAR

Note: This section describes mouse-based operations using the Quick Select menu bar. App-based operations are described on page 11.

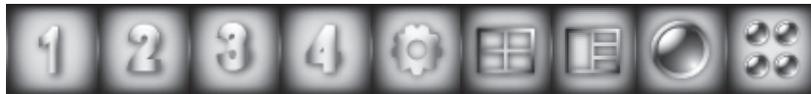
USING THE MOUSE

The two-button mouse included in the package provides control over the system.

- Right-click to access the *Quick Select* menu bar.
- Left-click to select an option
- Double-click to return to the previous screen.
- Use the scroll button to enlarge or reduce the image.

QUICK SELECT MENU BAR OVERVIEW

After the equipment is connected and powered up, camera video displays on the monitor. Right-click on the monitor screen. The *Quick Select* menu bar displays in the center of the screen. Use the *Quick Select* menu bar to configure your system and manage recordings.



QUICK SELECT MENU ICON	FUNCTION	LEFT MOUSE BUTTON	RIGHT MOUSE BUTTON
	Channel Select CH1/CH2/CH3/CH4	View selected channel	Return to the previous screen.
	Main Menu	Enter Main Menu	
	Quad Display Select	Select Quad Display	
	Smart Quad Display Select	Select Smart Quad Display	
	Single Channel Record/Stop Single Channel Record	Start/Stop Single Channel Record Function	
	All Channel Record/Stop All Channel Record	Start/Stop All Channel Record Function	

CHANNEL SELECT FUNCTIONS

Click on one of the number icons (cameras) to display that camera's video in full screen mode.

MAIN MENU

There are 5 submenus for the *Main Menu*.



SUBMENU ICON	LEFT MOUSE BUTTON	OPTIONS
	Camera Setup	<ul style="list-style-type: none"> • Camera Pairing • Camera Activation • Resolution • Quality
	Record Setup	<ul style="list-style-type: none"> • Record Schedule • Motion Sensitivity • Motion Detection Masking Area • Detection
	Event List	<ul style="list-style-type: none"> • Event List calendar
	System Setup	<ul style="list-style-type: none"> • Date and Time • Language • Display Setup • Idle Display Setup • Power Saving
	Storage Setup	<ul style="list-style-type: none"> • Storage Status • Storage Formatting • Network Setup • Network Info

Note: If the system is idle for one minute or longer, it will automatically exit the Main Menu and display Live video from the last selected channel.

Camera Setup

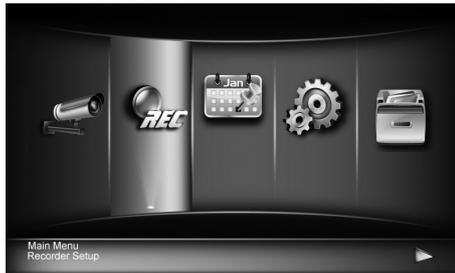
With the *Camera Setup* menu, you can pair additional cameras, turn cameras on and off (activate/deactivate), and set resolution levels and quality.



SUBMENU ICON	MAIN FUNCTION	DESCRIPTION
	Camera Pairing	<p>Pairing the camera to WDVR receiver is necessary when you:</p> <ul style="list-style-type: none"> • Purchase of additional camera(s). • Change original camera channel. <p>To pair the camera to DVR:</p> <ol style="list-style-type: none"> 1. Select <i>Main Menu / Camera Setup / Select the Camera channel (Camera 1/2/3/4) / Camera Pairing</i>. 2. A 60-second countdown will appear on screen. Within 60 seconds, press and hold the Pairing Key on the camera power cable for 2 seconds. <p>Note: Once pairing is completed, system will automatically restart after leaving the Main Menu.</p>
	Camera Activation	<p>Enable/Disable camera connection for camera(s) paired to the WDVR receiver. If you disable the camera connection, live video streaming of that particular camera will no longer be available during Live View mode and there won't be any events recorded from this camera.</p> <div style="text-align: center;">   </div> <p style="text-align: center;">Camera Off Camera on</p>
	Resolution	<p>The WDVR system supports High and Normal resolution. Normal resolution setting provides better frame rate and is optimized for mobile device display.</p>
	Quality	<p>Click on an icon to select video quality level:</p> <ul style="list-style-type: none"> • High quality for better video display quality; the system lowers the display frame rate as compensation. • Lower quality for better display frame rate; the system will lower the quality as compensation. <p>Note: The icon highlights when it is selected.</p>

Recording Schedule Setup

Use this selection to establish recording schedules and set up the recording environment (motion detection sensitivity, etc.).

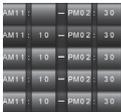


SUBMENU ICON	MAIN FUNCTION	DESCRIPTION
	Recording Schedule Setup	Set up recording specifics for individual or all cameras. <ul style="list-style-type: none"> Recording Method Recording Cycle Recording Start/End Time
	Motion Detection Sensitivity	Set motion detection level through hardware PIR sensor and through specific motion detection levels.
	Motion Detection Masking	Set up specific areas on the screen to be masked from motion detection.
	Motion Detection Setup	Set up length of time for motion detection and alarms.

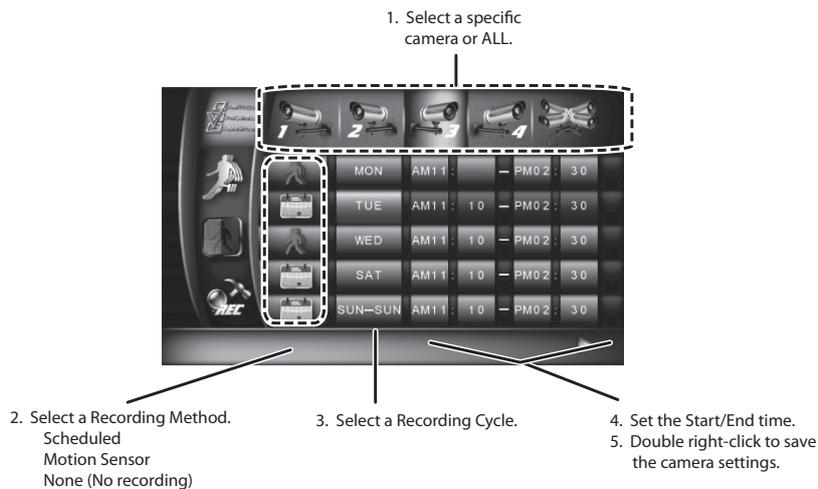
Recording Schedule Setup

This screen (see page 19) lets you set up a recording schedule. It has 4 main sections.

SCREEN SECTION	MAIN FUNCTION	DESCRIPTION
	Select Camera	Select <i>Camera 1, 2, 3, or 4</i> to set up record method, date, and time period for that specific camera. Select <i>Camera All</i> to set up recording for all cameras at the same time.

SCREEN SECTION	MAIN FUNCTION	DESCRIPTION												
 Motion Detection	Recording Method	Motion Recording Method: Recording begins only when the system detects motion. This method saves HDD space and is suitable for long-term recording.												
 Schedule		Scheduled Recording Method: Recording begins and ends at a preset time.												
None		If you don't specify Motion or Schedule method, the system will not record.												
	Recording Cycle	Select the weekly cycle for recording to take place: <table border="0"> <tr> <td>MON</td> <td>TUE</td> <td>WED</td> <td>THU</td> </tr> <tr> <td>FRI</td> <td>SAT</td> <td>SUN</td> <td>EVERYDAY</td> </tr> <tr> <td>MON-FRI</td> <td>MON-SAT</td> <td>MON-SUN</td> <td>SAT-SUN</td> </tr> </table>	MON	TUE	WED	THU	FRI	SAT	SUN	EVERYDAY	MON-FRI	MON-SAT	MON-SUN	SAT-SUN
MON	TUE	WED	THU											
FRI	SAT	SUN	EVERYDAY											
MON-FRI	MON-SAT	MON-SUN	SAT-SUN											
	Start/End Time	Set up the recording START/END time period.												

Use these sections to set up a recording schedule or enable motion sensor recording as follows:



Motion Detection Sensitivity

Set sensitivity configuration for each camera.



ICON	MAIN FUNCTION	MOTION DETECTION RANGE	SETUP DESCRIPTION
	PIR Only	PIR effective within 5M	Motion detection via hardware PIR sensor on camera only. Detect biomass motion using PIR sensor only.
	PIR or Motion Low	PIR effective within 5M, software effective within 4M	Detect motion using PIR sensor or embedded software with low sensitivity, whichever detects moving object first.
	PIR or Motion Mid	PIR 5M software effective within 5M	
	PIR or Motion High	PIR 5M software effective within 6M	

Note: Click on the icon for that camera column to cycle through sensitivity levels.

Motion Detection Masking Area



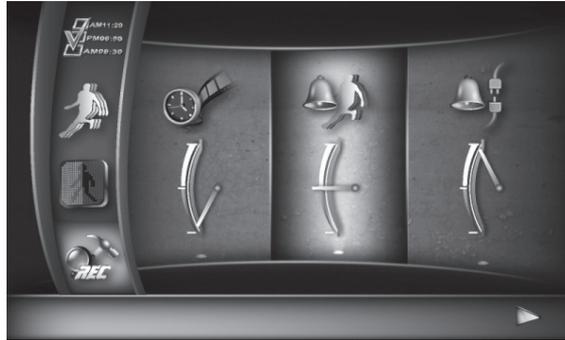
1. Select the camera to set up motion area detection. That camera's live video displays with a 6 x 6 section grid overlaid on the image.
2. Double-click on a block of the grid where motion detection is not required. Continue clicking on the grid until you have established an area that does not require motion detection.

Note: The first click brings up a visual identification mark in the grid block, allowing users with large screen TVs to easily identify the grid selected.

3. Second click will confirm selection.
4. Right click will save and leave the motion detection masking function.

Motion Detection Setup

This selection lets you set up how the recording feature acts given certain triggers.



ICON	MAIN FUNCTION	DESCRIPTION
	Motion Recording Length	Set the length of time the system records when triggered by motion detection: <ul style="list-style-type: none"> • 30 seconds • 60 seconds • 120 seconds <p>Note: Record time may be extended if the motion continues.</p>
	Motion Alarm Duration	Set the length of time the alarm sounds when triggered by motion detection. <ul style="list-style-type: none"> • Off • 5 seconds • 10 seconds
	Video Loss Alarm Location	Set the length of time the video alarm sounds when video is lost. <ul style="list-style-type: none"> • Off • 5 seconds • 10 seconds

Event List

Click *Event List* to view recorded files. A calendar screen displays.





Calendar Screen



Recorded Files screen

1. On the calendar screen, red asterisks (*) display if there are recordings on that date. Click on a date with an asterisk to view a list of recorded files.
2. Click on a recorded file to begin viewing it.
3. Right-click on the screen to bring up a control bar for the video. Use the control bar to return to the previous screen, pause or return to playback, to fast-forward, and to reverse.



System Setup

With the System Setup screen, you can set the date and time, default language, and other basic system features.

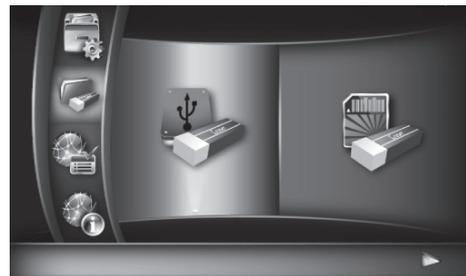


SUBMENU ICON	MAIN FUNCTION	SETUP DESCRIPTION
	Date and Time	<ol style="list-style-type: none"> 1. Use Up/Down arrows to adjust YEAR/MONTH/DATE/HOUR/MINUTES. 2. Use right mouse key to save and exit.
	Language	Select a system language. After system language selected, all system settings display in the selected language.

SUBMENU ICON	MAIN FUNCTION	SETUP DESCRIPTION
	Display Setup	Activate/Deactivate following icons on screen display: <ul style="list-style-type: none"> • Signal Strength Indicator • Time Stamp
	Idle Display Setup	Select a screen display mode for when the system is idle: <ul style="list-style-type: none"> • Quad • Smart Quad • Auto scan 10 seconds • Auto scan 5 seconds
	Power Saving Setup	Select a Power Saving mode: <ul style="list-style-type: none"> • Enter Power Saving mode after system idle for 5 minutes. • Enter Power Saving mode after system idle for 10 minutes. • Screen always on (deactivate Power Saving). <p>Note: By setting up power saving, video will stop sending to TV. Most TVs will turn off backlight to save power.</p>

Storage Setup

Storage Setup lets you activate or deactivate the overwrite function for the HDD and microSD card. It also lets you format the storage device.



SUBMENU ICON	MAIN FUNCTION	SETUP DESCRIPTION
	Storage Status	Activate/Deactivate the Overwrite function for HDD and memory card.
	Storage Formatting	Format HDD or memory card. Formatting the storage will erase all stored data.

SUBMENU ICON	MAIN FUNCTION	SETUP DESCRIPTION				
	Network Setup	<p>Set up Network Connection and Security Code (remote access):</p> <ul style="list-style-type: none"> • Static IP – if you are using fixed IP address, please obtain and enter IP information provided by your local ISP. • DHCP – if you are using dynamic IP address, select DHCP and there is no need to enter any additional IP address information. <p>For Security Code, you may enter your own unique password to avoid others to have access your security data. Up to 12 alphanumeric characters can be used.</p> <p>Click on "OK" to save setting and exit.</p> <p>Verify the WDVR receiver connects to the router via the provided RJ45 cable. The Network Connection status will be displayed on view screen via the following icons:</p> <table border="1" data-bbox="541 719 1348 907"> <tr> <td></td> <td>Network connection is normal.</td> </tr> <tr> <td></td> <td>No network connection available.</td> </tr> </table>		Network connection is normal.		No network connection available.
	Network connection is normal.					
	No network connection available.					
	System Info # Upgrade	<p>Display System information:</p> <ul style="list-style-type: none"> • WDVR Receiver Firmware Version • WDVR Camera 1/2/3/4 Firmware Version System ID • DID • Security Code • Internet IP & Server <p>System Upgrade:</p> <p>Click on screen any location to begin system upgrade process.</p>				

QUAD AND SMART QUAD

The cameras that come with your system are already paired to your WDVR receiver. When the WDVR receiver is set up and the monitor is turned on, the cameras' video automatically displays on the screen in default (Quad view) mode. You can set video to display in either Quad or Smart Quad view. You can also set the display to automatically scan the channels in sequence, and to set the duration for either 5 or 10 seconds (see page 17).

Quad View

Quad view divides the viewing screen into 4 equal parts, one part for each potential camera. If less than 4 cameras are set up, that portion of the screen is blank.

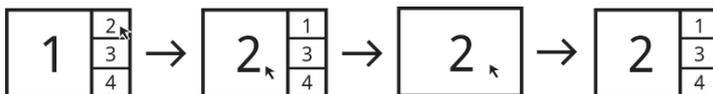
1. From the *Quick Select* menu, click the Quad icon (). Video displays in a four-quadrant display.
2. Left-click on a channel to view that channel's live video in full screen.
3. Left-click the full screen to return to Quad view.



Smart Quad View

Smart Quad view displays live view from one camera in a large block of the screen with live views from the other cameras displayed in smaller blocks to the side. If only 2 cameras are installed, live view for both cameras displays in a split screen format.

1. From the *Quick Select* menu, click the Smart Quad icon (). Video displays in a four-quadrant display.
2. Left-click on a channel to view that channel in the larger portion of the screen.
3. Left-click that larger portion of the screen to view the channel in full screen mode.
4. Left-click on the full screen image to return to Smart Quad view.



Audio Indication

Audio comes from the current channel selection. In Quad mode, a red "V" on the screen indicates which channel is currently selected. If you select a channel to view in full screen, then return to Quad view, that channel will still have a red "V" displayed, indicating that audio is coming from that channel.

SINGLE CHANNEL OR ALL CHANNELS RECORD

Click on either of these icons to begin manual recording.

For Single Channel Recording

1. From Live video, click on the camera whose video you want to record. A red "V" displays on that screen.
2. Click the Single Channel Record icon (). That channel begins to record.

For All Channel Recording

1. Click the All Channels Record icon (). All channels begins to record.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE / POSSIBLE SOLUTION
"No Signal" or "No Video" message	No power supply to camera. Check power adapter and power cord connection.
	The camera is not paired with WDVR or the signal disconnected. <ul style="list-style-type: none"> • Unplug camera power then plug on again to reconnect. • Please refer to Camera Pairing on page 17 for detail.
	Service out of range <ul style="list-style-type: none"> • Relocate WDVR receiver or camera for better reception • Adjust antenna or use optional high gain antenna to improve range. Go to www.uniden.com.
	Signal has been blocked. <ul style="list-style-type: none"> • If possible, remove major obstacles between cameras and WDVR receiver. For example, move camera/WDVR receiver away from water tank (aquarium), metal-covered surface (tin roof/ metal door) and brick/ marble wall.
Low or unstable streaming video	Antenna directional limitation <ul style="list-style-type: none"> • Relocate WDVR receiver or camera for better reception. • Adjust antenna or use optional high gain antenna to improve range. Go to www.uniden.com.
	Strong electromagnetic interference nearby. Keep working motors (hair dryer / heat fan / air conditioner / water pump, etc.) or microwave oven away from the cameras and WDVR receiver.
	Busy signal in air or wireless bandwidth is low. <ul style="list-style-type: none"> • Keep cameras away from each other (at least 10 feet). • Keep WiFi router or hot spot away from camera. • From <i>Camera Setup</i> (see page 17), lower the camera resolution and quality to save bandwidth consumption in the air and receive more streaming video.
WDVR receiver cannot record	Record schedule does not setup properly. <ul style="list-style-type: none"> • Set proper schedule for each camera to enable recording.
	Use recommended storage media brand/model/spec (see Appendix A). <ul style="list-style-type: none"> • Install/uninstall storage media AFTER WDVR receiver is powered off. • Use WDVR receiver to format storage media then try again. • Only install one HDD or Flash disk to WDVR receiver.

<p>WDVR cameras cannot be viewed remotely</p>	<p>WDVR receiver is not properly connected to internet.</p> <ul style="list-style-type: none"> • Make sure router DHCP and UPnP are enabled. • TCP port #6000 and TCP port #80 should be opened. WDVR receiver may use some of your router's UDP ports for network transmission. Please make sure these ports are opened. Consult your router provider for details if necessary. • Make sure the Ethernet cable connection to router is solid. • Connect WDVR receiver directly to the router; do not connect WDVR receiver to router through a hub or switcher. • Exit WDVR system menu then try again. • Make sure the bandwidth is sufficient. Each remote connection requires 1.5Mbps. • Make sure Android devices have 1.5G/dual core processor; Apple devices have iOS5 or above. • General routers require 30 seconds to initiate WDVR network connection. • Maximum number of remote viewer is 3, the 4th connection may be rejected.
<p>Miscellaneous TV display problems</p>	<p>Camera color distortion.</p> <ul style="list-style-type: none"> • Adjust TV contrast/brightness/saturation/sharpness • Avoid direct sunlight into camera lens <p>Low or no camera audio/alarm sound.</p> <ul style="list-style-type: none"> • For audio: Adjust TV audio volume through the TV's remote controller. • For alarm: Go to <i>Recorder Setup/Detection Setup</i> to turn on alarm sound. <p>No TV display.</p> <ul style="list-style-type: none"> • Check HDMI interface cable connection; use the HDMI interface cable provided with the package. • Change the HDMI cable and try again; 1.5M or shorter is suggested. Compatible issue may happen. • Power save function is enableed. From <i>System Setup</i>, set the power save function to <i>Always ON</i>.
<p>WDVR receiver does not recognize mouse</p>	<ul style="list-style-type: none"> • Unplug and replug the mouse. Repeat if necessary. • Turn the WDVR receiver off and then back on. • Try a different mouse.

<p>Mobile device displays black screen and/or temporarily disconnects from the WDVR system</p>	<p>Local internet environments vary. Check the following points for possible solutions.</p> <p>Make sure the WDVR system is operating with sufficient internet bandwidth, 1.5Mbps (upload speed) per camera is suggested.</p> <ul style="list-style-type: none"> • For best performance, mobile device(s) need to be on Wi-Fi or 4G mobile network to receive maximum download speed. • Internet transmission may be low. Your WDVR app automatically switches to Relay Mode. Adjusting image quality to LOW (see page 12) may improve WDVR APP performance. • Internet bandwidth is limited. For best performance, no more than two users should connect to the WDVR simultaneously. • Make sure your smart-mobile device(s) is equipped with up-to-date technology; a 1.5GHz dual core processor or equivalent is suggested. • Verify that the memory card is CLASS10 rated. 										
<p>MicroSD card won't work.</p>	<p>If you are using a microSD card other than the one provided, there may be compatibility issues. Use one of the following microSD cards.</p> <table border="1" data-bbox="727 781 1236 1010"> <tr> <td>Sandisk</td> <td>32GB/class-10</td> </tr> <tr> <td>Kingston</td> <td>32GB/class-10</td> </tr> <tr> <td>Sony</td> <td>32GB/class-10</td> </tr> <tr> <td>Samsung</td> <td>32GB/class-10</td> </tr> <tr> <td>Pny</td> <td>8GB/class-10</td> </tr> </table>	Sandisk	32GB/class-10	Kingston	32GB/class-10	Sony	32GB/class-10	Samsung	32GB/class-10	Pny	8GB/class-10
Sandisk	32GB/class-10										
Kingston	32GB/class-10										
Sony	32GB/class-10										
Samsung	32GB/class-10										
Pny	8GB/class-10										

PRODUCT SPECIFICATION

RECEIVER UNIT

Compression Format	H.264
Video Resolution	VGA (640 x 480)
Viewing Options	Full Screen/QUAD/Smart-QUAD
Storage Media	(WDVR4-2) 8GB microSD memory card (included) (WDVR4-2 HDD) Internal 1TB SATA HDD x 1 (Supports up to 2TB)
Motion Detection	PIR and software algorithm motion detection
Record Mode	Schedule/Motion Detection/ Manual
HDMI Interface	Support High Definition Multimedia Interface
Network Interface	RJ45 (LAN, Internet)
Ethernet Output	10/100Mbps
Mouse Control	Yes
Power Supply	DC 12V/2A
Operating Temperature	14°F ~ 104°F (-10°C ~ +40°C)
Storage Temperature	-4°F ~ 122°F (-20°C ~ +50°C)

CAMERA UNIT

Transmission Distance	650 feet (200 Meters) in open space
Image Resolution	640 x 480 (VGA)
Housing	Weatherproof metal (IP66 weather rated)
Viewing Angle	H: 55° +/- 3°; V: 44+/-3°
Low Light Solution	6 IR LEDs w/ IR CUT switcher
Night Visibility	40 Feet
Power Supply	DC 5V/1A
Operating Temperature	14°F ~ 104°F (-10°C ~ +40°C)

APPENDIX A: COMPATIBILITY LIST

Wireless DVR Internal Disk Tested Compatibility List (Internal SATA HDD)

CATEGORY	MANUFACTURER	MODEL NO.	FORM FACTOR	SPINDLE SPEED	CAPACITY
SATA HDD	WD Elements	WD5000AAK	3.5"	7200rpm	500GB
	Seagate	ST3500418AS	3.5"	7200rpm	500GB
	Toshiba	DT01ABA050V	3.5"	5700rpm	500GB
	Toshiba	DT01AC050	3.5"	7200rpm	500GB
	WD Elements	WD10EZEX	3.5"	7200rpm	1TB
	Seagate	ST1000DM003	3.5"	7200rpm	1TB
	Toshiba	DT01ABA100V	3.5"	5700rpm	1TB
	Toshiba	DT01AC100	3.5"	7200rpm	1TB
	WD Elements	WD10EZEX	3.5"	7200rpm	2TB
	Seagate	ST2000DM001	3.5"	7200rpm	2TB
	Toshiba	DT01ABA200V	3.5"	5700rpm	2TB
	Toshiba	DT01AC200	3.5"	7200rpm	2TB

Wireless DVR Memory Card Tested Compatibility List

MANUFACTURER	MODEL NO.	SPEED	CAPACITY
Kingston	/	Class-10 (Read up to 45MB/s, Write up to 10MB/s)	32GB
Sandisk	/	Class-10 (Read/Write up to 30Mb/s)	32GB
Sony	/	Class-10 (Read/Write up to 40Mb/s)	32GB
Samsung	/	Class-10 (Read/Write up to 48Mb/s)	32GB
Toshiba	/	Class-10 (Read/Write up to 30Mb/s)	32GB
Transcend	TS32GUSDC10	Class-10 (Read/Write up to 25Mb/s)	32GB
Kingston	/	Class-10 (Read up to 45MB/s, Write up to 10MB/s)	16GB
Toshiba	/	Class-10 (Read/Write up to 30Mb/s)	16GB
Transcend	TS16GUSDC10	Class-10 (Read/Write up to 20Mb/s)	16GB
Kingston	/	Class-10 (Read up to 45MB/s, Write up to 10MB/s)	8GB
Pny	SDHC C10	Class-10 (Read/Write up to 30Mb/s)	8GB
Toshiba	/	Class-10 (Read/Write up to 30Mb/s)	8GB
Note: The model below is known to be NOT Compatible			
Transcend	TS8GUSDC10	Class-10 (Read up to 25MB/s, Write up to 12MB/s)	1TB

APPENDIX B: RECORDING CAPACITY

1CH VGA@ HIGH	SD CARD	FLASH DRIVE	HARD DRIVE
4GB	11 hours	11 hours	-
8GB	22 hours	22 hours	-
16GB	45 hours	45 hours	-
32GB	92 hours	92 hours	-
500GB	-	-	60 days
1TB	-	-	120 days

4CH VGA@ HIGH	SD CARD	FLASH DRIVE	HARD DRIVE
4GB	3 hours	3 hours	-
8GB	6 hours	6 hours	-
16GB	11 hours	11 hours	-
32GB	23 hours	23 hours	-
500GB	-	-	15 days
1TB	-	-	30 days

FCC COMPLIANCE

FCC Compliance Statement: This device complies with Part 15 of the FCC rules. Operation is subjected 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.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

IC COMPLIANCE

Cet appareil est conforme aux normes RSS exemptes de licences d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'intéférences nuisibles et (2), il doit pouvoir accepter les interférences, incluant celles pouvant nuire à son fonctionnement normal.

Tout changement ou modification non approuvé expressément par la partie responsable pourrait annuler le droit à l'utilisateur de faire fonctionner cet équipement.

ONE-YEAR LIMITED WARRANTY

Important: Keep your receipt! Proof of original purchase is required for warranty service.

WARRANTOR: Uniden America Corporation ("Uniden") ELEMENTS OF WARRANTY: Uniden warrants, for one year, to the original retail owner, this Uniden Product to be free from defects in materials & craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original user shall terminate & be of no further effect 12 months after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion

kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the owner's manual for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will either, at its option, repair or replace the defective unit & return it to you without charge for parts, service, or any other cost (except shipping & handling) incurred by warrantor or its representatives in connection with the performance of this warranty. Warrantor, at its option, may replace the unit with a new or refurbished unit.

THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE & ENTIRE WARRANTY PERTAINING TO THE PRODUCT & IS IN LIEU OF & EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

LEGAL REMEDIES: This warranty gives you specific legal rights, & you may also have other rights which vary from state to state. This warranty is void outside the United States of America & Canada.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owner's manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). The Product should include all parts & accessories originally packaged with the Product. Include evidence of original purchase & a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, to warrantor at:

Uniden America Service
C/O Saddle Creek
743 Henrietta Creek Rd., Suite 100
Roanoke, TX 76262

(800) 658-8068, 8 a.m. to 4:30 p.m., Central, Monday through Friday