DIGITAL WIRELESS QUAD SURVEILLANCE SYSTEM
WITH BUILT-IN VIDEO RECORDER AND INDOOR/OUTDOOR MOTION CAMERA(S)

Instruction Manual

English Version 3.0

MODELS:
LW2301 Series

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Thank you for purchasing the Digital Wireless Quad Video Recording System. This manual refers to the following products:

- LW2301 Series

Please visit us on the web for the most current Manuals, Quick Start Guides and Firmware. Additional Language Manuals may also be available at:

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**CAUTION**

**RISK OF ELECTRIC SHOCK**
**DO NOT OPEN**

**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING:** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

**CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF THE PLUG TO THE WIDE SLOT AND FULLY INSERT.
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• We have developed user friendly products and documentation. Please read the Quick Start Guide and User Manual before you install this product.

• Consumer Guides and Video Tutorials are available on our web site at www.lorextechnology.com/support

• If you require further installation assistance, please visit www.lorextechnology.com/installation or contact a professional installer.

• Please refer to the “Need Help” insert for technical support and customer care information.

• Please note that once the components of this product have been unsealed, you cannot return this product directly to the store without the original packaging.
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LOREX S’ENGAGE À SATISFAIRE VOS BESOINS SÉCURITAIRES

• Veuillez lire le guide de démarrage rapide et le mode d’emploi avant d’installer ce produit.

• Les guides du consommateur et les séances de tutorat vidéo sont disponibles sur l’Internet en visitant www.lorextechnology.com/support

• Si vous avez besoin de l’aide pour l’installation, veuillez visiter www.lorextechnology.com/installation ou contactez un spécialiste en installation

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• Favor de notar que una vez que los componentes de este producto han sido removidos del embalaje, no podrá devolver este producto directamente a la tienda
Important Safeguards

In addition to the careful attention devoted to quality standards in the manufacture process of your video product, safety is a major factor in the design of every instrument. However, safety is your responsibility too. This sheet lists important information that will help to assure your enjoyment and proper use of the video product and accessory equipment. Please read them carefully before operating and using your video product.

Installation

1. **Read and Follow Instructions** - All the safety and operating instructions should be read before the video product is operated. Follow all operating instructions.

2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.

3. **Heed Warnings** - Comply with all warnings on the video product and in the operating instructions.

4. **Polarization** - Do not defeat the safety purpose of the polarized or grounding-type plug.
   - A polarized plug has two blades with one wider than the other.
   - A grounding type plug has two blades and a third grounding prong.
   - The wide blade or the third prong is provided for your safety.
   - If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

5. **Power Sources** - This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your location, consult your video dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

6. **Overloading** - Do not overload wall outlets of extension cords as this can result in the risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard. Periodically examine the cord, and if its appearance indicates damage or deteriorated insulation, have it replaced by your service technician.

7. **Power-Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the video product.

8. **Ventilation** - Slots and openings in the case are provided for ventilation to ensure reliable operation of the video product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video equipment on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the video product manufacturer’s instructions have been followed.

9. **Camera Extension Cables** - Check the rating of your extension cable[s] to verify compliance with your local authority regulations prior to installation.

10. **Attachments** - Do not use attachments unless recommended by the video product manufacturer as they may cause a hazard.

11. **Water and Moisture** - Do not use this video product near water. For example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, near a swimming pool and the like. Caution: Maintain electrical safety. Power line operated equipment or accessories connected to this unit should bear the UL listing mark of CSA certification mark on the accessory itself and should not be modified so as to defeat the safety features. This will help avoid any potential hazard from electrical shock or fire. If in doubt, contact qualified service personnel.

12. **Accessories** - Do not place this video equipment on an unstable cart, stand, tripod, or table.
The video equipment may fall, causing serious damage to the video product. Use this video product only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the video product. Any mounting of the product should follow the manufacturer’s instructions and use a mounting accessory recommended by the manufacturer.
Important Safeguards

Service

13. Servicing - Do not attempt to service this video equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

14. Conditions Requiring Service - Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions.
   A. When the power supply cord or plug is damaged.
   B. If liquid has been spilled or objects have fallen into the video product.
   C. If the video product has been exposed to rain or water.
   D. If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
   E. If the video product has been dropped or the cabinet has been damaged.
   F. When the video product exhibits a distinct change in performance. This indicates a need for service.

15. Replacement Parts - When replacement parts are required, have the service technician verify that the replacements used have the same safety characteristics as the original parts. Use of replacements specified by the video product manufacturer can prevent fire, electric shock or other hazards.

16. Safety Check - Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks recommended by the manufacturer to determine that the video product is in safe operating condition.

17. Mounting - The cameras provided with this system should be mounted only as instructed in this guide, using the provided mounting brackets.

18. Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Use

19. Cleaning - Unplug the video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

20. Product and Cart Combination - Video and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the video product and cart combination to overturn.

21. Object and Liquid Entry - Never push objects for any kind into this video product through openings as they may touch dangerous voltage points or "short-out" parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.

22. Lightning - For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power line surges. The manufacturer's instructions and use a mounting accessory recommended by the manufacturer.
General Precautions

1. All warnings and instructions in this manual should be followed
2. Remove the plug from the outlet before cleaning. Do not use liquid aerosol detergents. Use a water dampened cloth for cleaning
3. Do not use this unit in humid or wet places
4. Keep enough space around the unit for ventilation. Slots and openings in the storage cabinet should not be blocked

FCC NOTICE

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

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user’s authority to operate the equipment.

However, it is imperative that the user follows the guidelines in this manual to avoid improper usage which may result in damage to the unit, electrical shock and fire hazard injury.

In order to improve the feature functions and quality of this product, the specifications are subject to change without notice from time to time.
### Features

#### Technology
- Ultra Digital Wireless technology features the latest advancements in wireless video surveillance
- Minimizes interference with other devices such as wireless routers, cordless phones, Bluetooth devices and is Wi-Fi friendly
- 100% Digital video and audio provides excellent image quality and crystal clear sound
- Offers a secure connection between the receiver and camera for total privacy
- Signal strength and out of range notifications help you find best possible installation location

#### Receiver
- Built-in Video Recorder with SD memory card slot
- Includes SD memory card and supports up to 16 GB size
- Record when motion is detected by the camera or schedule a recording start and stop time
- Record at VGA (640x480) resolution for excellent playback quality or QVGA (320x240) resolution to maximize recording time
- Viewing Options:
  - Quad Mode Shows up to 4 Camera Views on Same Screen
  - Auto Sequence Viewing Mode Shows each camera in Full Screen
- On-screen menu system makes set-up and changing camera settings easy
- Connects in minutes to any TV
- System expandable up to 4 cameras
- Includes IR extender so you can hide the receiver out of plain sight and still control all functions using the included remote control
- New recording / memory full indicators
- Place on a flat surface or wall mount with included mounting kit
- SMA connector allows for the usage of higher power antennas to extend wireless range (antennas sold separately)

#### Camera
- VGA (640x480) Resolution Camera
- IR Night Vision 40 ft. / 12 m*
- Built-in PIR motion sensor for accurate motion detection
- Durable weather resistant housing for indoor/outdoor use**
- Microphone for listen-in surveillance

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* Stated IR Illumination range is based on ideal conditions. Actual range and image clarity depends on installation location, viewing area and light reflection/absorption level of object

**Not intended for direct exposure to rain or snow. Installation under a sheltered environment recommended.

The Digital Wireless signal transmission type used by the Lorex LW2301 series is also known as **FHSS – Frequency Hopping Spread Spectrum**. This type of signal is highly resistant to deliberate jamming as it generates a channel hopping sequence using an algorithm generated by the receiver system.
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Getting Started
The system comes with the following components:

- **COLOR NIGHT VISION CAMERA(S)**
- **CAMERA MOUNTING STAND(S)**
- **WIRELESS RECEIVER**
- **SD MEMORY CARD**
- **WALL MOUNTING KIT (FOR RECEIVER AND CAMERA(S))**
- **WIRELESS ANTENNA (FOR CAMERA(S))**
- **POWER ADAPTERS (FOR RECEIVER & CAMERA)**
- **AUDIO/VIDEO CABLE**
- **REMOTE CONTROL**
- **IR EXTENDER**

*Camera configuration may vary by model

CHECK YOUR PACKAGE TO CONFIRM THAT YOU HAVE RECEIVED THE COMPLETE SYSTEM, INCLUDING ALL COMPONENTS SHOWN ABOVE.
Wireless Receiver

Top Panel

1. **CHANNEL**: Press M to change channels 1–4 manually; press A to enable Auto Sequence Viewing Mode.

2. **RECORD**: Press M to start Manual Recording; press M again to stop. Press A to start Motion Recording; press A again to stop.
   
   **NOTE**: The date and time must be set on the system prior to using Schedule Recording. For details, see “Setting the Time” on page 20.

3. **Channels, OK**: QUAD MODE ONLY—Press 1 to view camera 1, 2 to view camera 2, 3 to view camera 3, and 4 to view camera 4; press OK to enter/confirm menu selections.
   
   **NOTE**: The OK button serves the same function as the Enter button on the remote control.

4. **Quad**: Press to change display view to Quad (4-way); press again to exit.

5. **MENU**: Press to open the Main Menu, cancel/exit, or go to the previous page.

6. **Del.**: Press to delete files on the SD card

7. **LED Indicators**: LED indicators for camera and receiver operations. For details, see “LED Indicators on the Wireless Receiver” on page 15.
**Left Panel**

1. **Antenna**: Connection jack for the wireless antenna.
2. **DC**: Connect the included power adapter.
3. **AV Out**: Connect the included Audio/Video cable to display images from the receiver on your TV/monitor.
4. **Alarm Vol.**: Adjust the volume of the motion alarm; will also adjust volume of system “beeps” when you press buttons on the receiver and remote control.

**Right Panel**

1. **IR Extension**: Connect the included IR extender (optional).
2. **Lock**: Slide to lock the buttons on the wireless receiver.
3. **SD Card**: Insert an SD card (max 16 GB) as shown on the diagram.
Camera

1. **PIR Sensor**: Passive IR motion sensor for more accurate motion recording.
2. **Microphone**: Built-in microphone underneath camera body.
3. **Lens**: Camera lens.
4. **Night Vision IR**: Night vision IR LEDs used for viewing in complete darkness.
5. **Pair**: Pairing button. For more details, see “Pairing” on page 38.
6. **Antenna**: Wireless antenna.
7. **Power Cable**: Connect the included power adapter to the cable extending from the camera.
Remote Control

**ATTENTION:** Before using the remote control, remove the protective clear plastic tab from the battery cover.

1. **1/ II:** Move menu cursor UP; play/pause playback; jump to camera 1 while in Quad Mode.
2. **Enter:** Confirm menu selections (same as OK on the wireless receiver).
3. **4/ LEFT:** Move menu cursor LEFT; decrease values in certain menu options; rewind playback; jump to camera 4 while in Quad Mode.
4. **MENU / Back:** Press to open the Main Menu; go back/close menu windows.
5. **Record:** Press **Motion** to enable motion recording – system will ONLY record when motion is detected; press • to start/stop manual recording.
6. **Volume:** Press to increase/decrease volume during playback. Use the receiver to change volume of buzzer and motion alarm.
7. **Quad:** Press to change the display view to quad (4-way) split-screen.
8. **2/ RIGHT:** Move menu cursor RIGHT; increase values in certain menu options; increase playback speed; jump to camera 2 while in Quad Mode.
9. **3/ DOWN:** Move menu cursor DOWN; decrease values in certain menu options; stop playback; jump to camera 3 while in Quad Mode.
10. **Scan/Del:** Press to delete recorded video files.
11. **Channel:** Press ”A” to enable/disable Auto Sequence Viewing Mode; press M to manually change the channels (1–4).
12. **AV:** Not used.

**NOTE:** Unless otherwise noted, button names mentioned in steps in this manual will refer to buttons on the remote control.
Installing the Camera

Before you install the camera, carefully plan where and how it will be positioned, and where you will route the cable that connects the camera to the power adapter.

- Before starting permanent installation, verify its performance by observing the image on a monitor when camera is positioned in the same location/position where it will be permanently installed.
- The cameras are pre-paired so they would work out of the box. Each camera has a channel number sticker indicating what channel they are paired to (see figure 2.0). To manually pair your cameras, see Appendix C on page 49.

**Installation Warnings:**

- Mount the camera indoors or outdoors. For outdoor installation, mount it in a sheltered place where it is not directly exposed to rain or snow.
- Aim the Cameras to best optimize the viewing area: Select a location for the camera that provides a clear view of the area you want to monitor, which is free from dust, and is not in line-of-sight to a strong light source or direct sunlight.
- Avoid installing the cameras where there are thick walls or obstructions between the Cameras and the Receiver.
- Select a location for the camera that has an ambient temperature between 14°F~122°F (-10°C ~ 50°C).

To install the camera:

1. Use the included mounting screws to mount the stand to the mounting surface:
   - Mark the position of the screw holes on the wall.
   - Drill holes and insert the drywall plugs as needed.
   - Firmly attach the stand to the wall using the provided screws.

2. Screw on the wireless antenna to the rear panel of the camera.

3. Attach the camera to the mounting stand. Adjust the angle of the camera until the desired view is set. Tighten the thumbscrews to secure the desired camera position.

4. Connect the black power cable extending from the camera to the cable of the **power adapter**; plug the **power adapter** to an outlet or surge protector.
NOTE: You can install additional cameras (maximum of 4 cameras). When adding cameras that were not included in the original box, you will need to pair the cameras with the receiver. For details, see “Appendix C: Adding Cameras” on page 49.

Connecting the Wireless Receiver

To set up the wireless receiver:

1. Connect the **Black cable** from the AV cable to **AV Out port** on the left panel of the receiver. Connect the **Yellow video cable** and **White audio cable** (mono) to your TV, DVR, or observation system.

2. Insert the included SD card into the **SD Card slot** on the right panel of the receiver until you hear a “click.”

   NOTE: The receiver is compatible with most major brands of SD card up to 16 GB. For recording times on SD cards, see “Appendix F: Estimated Recording Times on SD Cards” on page 53.

3. Place the receiver in a place that will have a clear reception to your camera*.

4. Connect the cable from the **power adapter** to the **9V DC port** on the left panel of the receiver, and then connect the power adapter to an outlet or surge protector.

5. Change the **video input** on your TV or monitor to the corresponding input of the video cable (i.e. Video 1, Video 2, Auxiliary, etc.).

6. **OPTIONAL**: Connect the included **IR extender** to the **IR Extension port** on the right panel of the receiver. Use the IR extender to if you want to hide the receiver from plain sight. You can conceal the sensor of the IR Extender in a bookcase, flowers, etc., and still fully control the system using the included remote control.

![Figure 3.0 Connect the power adapter, and AV cable](image1)

![Figure 3.1 Connect the IR extender (optional) and insert the SD card](image2)
LED Indicators on the Wireless Receiver

Use the LED indicators on the wireless receiver to observe the status of the receiver, cameras, and SD card.

Figure 3.2 LED indicators on wireless receiver

The blue LEDs indicate the following:

- **MANUAL**: Channel switching set to manual
- **AUTO**: Channel switching set to Auto – Auto Sequence Viewing Mode enabled
  
  **NOTE**: By default, Auto Sequence Viewing Mode is enabled when you first power on the wireless receiver.

- **M**: Manual recording enabled
- **A**: Motion recording enabled
- **NEW**: A new video file has been recorded to the SD card
- **FULL**: The SD card is full
  
  **NOTE**: The “Full” light will only appear if Overwrite is disabled. For details, see “Overwrite” on page 37.

*Avoid installing in a location which requires the wireless signal to pass through cement, concrete, and metal structures. This will reduce the range of transmission.*
Using the System

By default, the camera included with your system is automatically paired to the wireless receiver. The camera and receiver will communicate with one another once they are powered on.

**On-Screen Display**

With camera 1 properly connected and powered on, the system displays a single channel full-screen live view of the camera.

**NOTE**: You should always power on the cameras before powering on the receiver.

![Diagram of On-Screen Display](image)

1. **Signal Indicator**: Strength of the wireless signal between the camera and the wireless receiver.
2. **Recording Indicator**: "REC" appears during manual, motion, and schedule recording.
3. **File Name**: Name of the file actively being recorded.
4. **Camera indicator**: Displays the camera you are presently viewing; position of camera indicators shifts to the left side of the screen while in Quad mode.
5. **File Icon**: Flashing yellow icon indicates a new video file is on the SD card.
6. **Power Failure icon**: Flashing icon indicates a power failure occurred while the system was recording.
7. **SD Card icon**: Icon appears when an SD card is present in the receiver; an SD card is required for recording.
8. **Time Stamp**: The current date and time on the system.
On-Screen Display (cont’d.)

1. **Signal Indicator** – The signal indicator shows the strength of the signal being received from the camera. The number of bars in the Signal Indicator shows the strength of the signal – One or No Bars indicates the signal is poor, and 4 bars indicate a very strong signal.

   **NOTE**: Signal Indicator not shown while in Quad Mode.

   **ATTENTION**: If signal is low (e.g. 1 or 2 bars) adjust the antennas, or reposition the cameras or receiver for best performance.

2. **Recording Indicator**: The red REC icon indicates the system is currently recording.

3. **File Name**: Name of the file actively being recorded. This file will appear in the file list on the SD card. The Recording File stamp indicates the hour, minutes, and seconds that the system started recording (see figure 4.2).

4. **Channel Indicator** – Displays the current channel number. Press the Channel—M button on the Receiver to switch between available cameras.

5. **File Icon**: Flashes yellow when writing data to the SD card; flashes red when the SD card is full.

6. **Power Failure icon**: Flashing icon indicates a power failure occurred while the system was recording. You may need to manually restore settings or modes on the system after a power failure. For more details, see “Appendix G: Power Failure” on page 54.

7. **SD card icon**: White “SD” icon displays that an SD card is in the wireless receiver.

   **NOTE**: You cannot record without an SD card.

8. **Time Stamp**: The current date and time.

9. **Status Indicator** – The Status indicator message “Connecting” appears when the receiver is trying to locate a camera.

   **NOTE**: There may be temporary signal losses for less than 1 second, due to the connection retrieval process between the Camera and Receiver (when switching between channels). This is a normal operation of the receiver.
Viewing Modes

There are three different viewing modes available on the system: single channel viewing, Auto Sequence Viewing Mode (view individual channels automatically in sequence), and Quad mode.

To change viewing modes:

- Press the **Channel—A button** to enable Auto Sequence Viewing Mode and switch automatically between channels; press **Channel—M button** to disable Auto Sequence.

**OR**

- Press the **Channel—M button** repeatedly to switch between channels 1~4

**NOTE:** By default, Auto Sequence Viewing Mode is enabled when you first power on the system.

---

**Figure 5.0 View Mode diagram**

- A=Auto Sequence
- M=Manual switching

Press the **Channel—M** and **A** buttons on the receiver or remote control.

Channel 1

Channel 2

Channel 3

Channel 4
**Quad Mode**

Use Quad mode to view up to four cameras simultaneously.

To enable/disable Quad mode:

- Press the **QUAD button** on the wireless receiver or the remote control; The Schedule Recording warning appears briefly on-screen (see figure 5.2), then the Quad display mode begins.

  **NOTE**: The signal indicator or SD card icon are not shown while the receiver is in Quad mode.
  **NOTE**: You cannot access the Main Menu while the system is in Quad Mode.

Quad mode is also available while in Zoom mode. For details on using Zoom, see “Zoom” on page 43.

**ATTENTION**: While in Quad Mode, you cannot turn on Schedule Recording.

**Recording Tip!**

Using Quad Mode with Motion Recording is a highly recommended recording solution. For more details, see “Motion Recording” on page 25.
Setting the Time

It is highly recommended to set the time on the system prior to recording. You need to set the correct date and time in order to use Schedule Recording. For more details, see “Motion Recording” on page 25.

To set the date and time:

1. Press the **MENU** button to open the Main Menu.
2. From the Main Menu, select **Setting** and press the **Enter/OK** button.
3. From the Setting menu, select **Date & Time** and press the **Enter/OK** button.
4. Press **RIGHT/LEFT** to move the cursor; press **UP/DOWN** to change the **year**, **month**, **day**, **hour**, **minutes**, and **seconds**.
   
   **NOTE**: The system uses a 24-hour clock.
5. Press **Enter/OK** to save your settings.
6. Press **MENU** to close any remaining menu windows.

The date and time appear in the bottom-right corner of the main display screen.

**NOTE**: There no daylight savings time (DST) setting on the system. DST must be set manually if necessary.
Recording

Three recording modes are available on the system: Manual Recording, Schedule Recording, and Motion Recording.

**NOTE**: An SD card must be inserted in the wireless receiver in order to record. You should always format the SD card prior to initial recording. For details, see “Format” on page 45.

**NOTE**: The system can record video to an SD card *one channel at a time*.

**NOTE**: Recording overrides other actions on the receiver. You must stop recording on the system in order to perform other actions, such as opening the Main Menu, Quad Mode, etc.

**Recording Mode Summary**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
</table>
| MANUAL RECORDING  | • Continuous recording from one camera  
                    • Press the Record—● button on the remote control or the RECORD—M button on the receiver to start/stop manual recording  
                    • Cannot record while in Quad mode  
                    • Cannot record while in Auto Sequence Viewing Mode |
| SCHEDULE RECORDING| • Continuous recording from one camera or from Auto Sequence Viewing Mode (system will record from one camera at a time)  
                    • ATTENTION: Turn off Manual Recording and Motion Recording to enable Schedule Recording  
                    • Enter a Start and Stop Time from Main Menu>Record>Schedule Record  
                    • Cannot enable Schedule Recording while in Quad Mode |
| MOTION RECORDING  | • System only records when motion is detected by a camera  
                    • Compatible with Quad Mode [recommended]  
                    • Compatible with Auto Sequence Viewing Mode  
                    • Press the Motion button on the remote control or the RECORD—A button on the receiver to start/stop Motion Recording |

For more details on each recording mode, see “Manual Recording” starting on page 22.
Manual Recording

Manual Recording allows you to manually start/stop recording from one channel at a time. You cannot record while in Quad mode.

You can also record while in Zoom mode. For details on using Zoom, see “Zoom” on page 43.

**NOTE:** You cannot change channels or enable Auto Sequence Viewing Mode during Manual Recording.

To enable Manual Recording:

1. Select a channel (1~4) on the wireless receiver or from the remote control.
2. Press the **Record— ● button** on the remote control or **RECORD—M button** on the wireless receiver. A blue LED will light up under RECORD—M on the wireless receiver.
3. To stop Manual Recording, press the **Record— ● button** on the remote control or **RECORD—M button** on the wireless receiver again.

When Should I Use Manual Recording?

- Emergency recording
- Low traffic environments
**Schedule Recording**

Use Schedule Recording to have the system automatically record continuously from a selected camera or from Auto Sequence Viewing Mode according to a start and stop time. You must set a Recording Schedule in the main menu in order to use Schedule Recording.

**NOTE:** Please ensure you have set the date and time on the receiver prior to setting a recording schedule.

**NOTE:** Auto Sequence Viewing Mode is available during Schedule Recording. However, the system will record video of the sequence itself. Therefore, you cannot playback video of individual cameras.

![Schedule Record](image)

*Figure 7.1 Start and Stop Times for Schedule Recording*

To set a recording schedule:
1. Press the **MENU** button to open the Main Menu.
2. Select **Record** and press the **Enter/OK button**.
3. Press **RIGHT/LEFT** to move the cursor (yellow); press **UP/DOWN** to change the **hour** and the **minutes**.
   
   **NOTE:** You need to press RIGHT to move the cursor from Start Time to Stop Time.

4. Press the **Enter/OK button** to save your schedule.
5. Press **MENU** until all menu windows are closed.
   
   **NOTE:** You cannot enable Schedule Recording if the system is in Quad Mode.
To enable schedule recording:
1. Disable ALL RECORDING on the system:
   - If the system is in Manual Recording, press the Record—● button on the remote control or the RECORD—M button on the wireless receiver so the blue LED does NOT appear on the wireless receiver
   - If the system is in Motion Recording, press the RECORD—A/Motion button until the blue LED does NOT appear on the wireless receiver

   **ATTENTION**: Manual Recording, Motion Recording, and Quad Mode will override Schedule Recording. If you wish to use Schedule Recording, you must ensure Manual Recording, Motion Recording, and Quad Mode are disabled.

2. Select a channel (1~4) on the wireless receiver or from the remote control OR Press the CHANNEL—A button to enable Auto Sequence Viewing Mode.

When the Start Time arrives, recording begins. The “REC” indicator appears on-screen.

   **NOTE**: You cannot use Quad Mode with Schedule Recording.

![Figure 7.2 Schedule Recording on the receiver – no blue LEDs should be lit up beneath Manual Recording (M) and Motion Recording (A)](image)

**Stopping Schedule Recording**

When the Stop Time arrives, the system stops recording. However, if necessary, you can also stop Schedule Recording manually.

To stop Schedule Recording:
   - Press Record—● button on the remote control or the RECORD—M button on the wireless receiver to stop schedule recording

   **NOTE**: If you stop Schedule Recording, you cannot resume Schedule Recording. You will need to enter new Start and Stop times in the Schedule Record menu.

**When Should I Use Schedule Recording?**

- It is recommended to use Schedule Recording for capturing a sensitive or important target that needs to be recorded daily, i.e. a cash register, safe, shipping & receiving docks, etc.
- During the day in high traffic environments
**Motion Recording**

Use Motion Recording to have the system only record when motion is detected by one of the cameras. The camera that appears on-screen is the only camera that is recording.

![Image A](image1.png)  
**A**

![Image B](image2.png)  
**B**

**Figure 7.3 Recording triggered by motion during the Motion Recording**

To enable Motion Recording:

1. Press **Motion** on the remote control or the **RECORD—A** button on the wireless receiver. A blue LED will light up beneath RECORD—A on the receiver.

2. Perform one of the following:
   - **Enable Quad Mode** *(recommended)*: Press the **Quad** button. When motion is detected, the system will display the triggered camera on-screen. When motion recording is complete, the view will return to Quad Mode.
   - **Enable Auto Sequence Viewing Mode**: Press the **CHANNEL—A** button. When motion is detected, the system will display the triggered camera on-screen. When motion recording is over, Auto Sequence Viewing Mode will continue as normal.
   - **Change channels manually**: Press the **CHANNEL—M** button on the wireless receiver or remote control to select a channel.

3. Press **Motion** on the remote control or the **RECORD—A** button on the wireless receiver again to stop Motion Recording. The blue LED will turn off on the receiver.

The “REC” indicator will *only* appear when motion is detected by one of the cameras on-screen.

By default, the system is set to record for 15 seconds after the triggered motion event. For details on adjusting the motion recording time, see “Trigger Record” on page 35.

**ATTENTION**: If you manually select a channel while the system is in Motion Recording Mode, motion recording will *ONLY apply to the selected channel*. For example, with Motion Recording enabled, you manually select channel 3; if motion were to occur in view of camera 1, the system would NOT RECORD video from channel 1.
When Should I Use Motion Recording?

- Low traffic areas or non-sensitive/non-critical recording environments
- Overnight recording

**NOTE:** In the event of a power failure, the system will restart in Auto Sequence Mode + Motion Recording when power is restored. For more details, see “Appendix G: Power Failure” on page 54.

**Recording Tip!**

If you are using more than one camera, it is highly recommended to use Quad Mode with Motion Recording. Quad Mode allows you to see all four cameras at once. When motion is detected, the triggered camera will appear on-screen. After motion recording is complete, the receiver will return to Quad Mode.
Viewing Recorded Video

With video recorded on the SD card, you can open the File menu to playback the video files.

\[\text{ATTENTION: All recording must be stopped on the system prior to playing back saved video files.}\]

You can playback recorded video on the system (when connected to a TV or monitor) or directly from the SD card – simply connect the SD card to your computer using a compatible SD card reader.

Viewing Video Using the System

![File list – root menu](image)

To playback recorded video on the system:

1. Stop all recording on the system.
2. Press the Enter/OK button. The File menu opens.
3. Select the VIDEO folder and press Enter/OK button.
4. Select a **folder** and press the **Enter/OK button**. Folders are labeled by date (yymmdd): e.g. **080512**. Select [. .] and press the **Enter/OK button** to go up a level.

5. Select a **file** from the list and press the **Enter/OK button**. The selected file loads and playback begins.

---

**TIP!**
Press LEFT and RIGHT to change pages to find video files quickly.
Controlling Playback

Once the file begins playing, use the buttons on the remote control or wireless receiver to control playback.

1. Play/Pause playback; restart video from the beginning.
2. Fast forward playback 2X, 4X, 8X, 16X, 32X, and 64X. During fast-forward, press to pause and then press again to play.
3. Stop playback.
4. Rewind playback 1X, 2X, 4X, or 8X. During rewind, press to pause, then press again to play.

- **REMOTE CONTROL**: Press the **Volume + / - buttons** to increase/decrease volume during playback
- Press the **MENU button** on the remote control or wireless receiver to return to the file list
Viewing Video Directly From the SD Card

You can view the saved video files on your computer (PC or Mac) by using an SD card reader (not included). Saved video files are in AVI format.

**NOTE:** Some PCs and Macs may have an SD card reader built-in. Please refer to your computer’s instruction manual for more details.

**PC**

**ATTENTION:** The XviD, DivX, or FFDSHOW codec is required if attempting to view the video files in Windows Media Player™. You can also view AVI files natively in other media players such as VLC and DivX Player.

To playback recorded video on a PC:

1. Remove the SD card from the wireless receiver by gently pushing on the SD card. The SD card will pop out from the slot.
2. Insert the SD card into an SD card reader (not included) connected to your PC. Your PC should load the SD card as a new Removable Drive.
3. View files and folders on the SD card. You should see a folder labeled “VIDEO.”
4. Open the **VIDEO** folder and then open one of the **Date** folders (yymmdd). The AVI file list appears.
5. Double-click any of the AVI files. The video will begin playing in your default AVI media player.

**Mac**

**ATTENTION:** Additional codecs are required if attempting to view AVI files in QuickTime. VLC Player is recommended for viewing AVI files on a Mac. VLC is an open-source freeware application available at [www.videolan.org](http://www.videolan.org)

To playback recorded video on a Mac:

1. Remove the SD card from the wireless receiver by gently pushing on the SD card. The SD card will pop out from the slot.
2. Insert the SD card into an SD card reader (not included) connected to your Mac. Your Mac should load the SD card as a new Disk Image.
3. View files and folders on the SD card. You should see a folder labeled “VIDEO.”
4. Open the **VIDEO** folder and then open one of the **Date** folders (yymmdd). The AVI file list appears.
5. Double-click any of the AVI files. The video will begin playing in your default AVI media player.

For details on deleting files on the system, see “Appendix E: Deleting Video Files on the System” on page 52.
Using the Main Menu

Use the Main Menu to configure camera and receiver settings.

To open the Main Menu:

- Press the **MENU button** on the wireless receiver or the remote control

  **NOTE**: Make sure the display is in single channel full-screen view prior to opening the Main Menu

**Figure 9.0 Main Menu**

1. **Camera On/Off**: Enable/disable connected cameras.
2. **Record**: Configure recording parameters, set a recording schedule, and enable/disable overwrite.
3. **Pairing**: Pair additional cameras to the receiver. For full details, see “Appendix C: Adding Cameras” on page 49.
4. **Setting**: Configure brightness, set the time, and format the SD card.
Camera On/Off

Use the Camera On/Off menu to show/hide camera channels on the main display screen. For example, if you disable camera 3, it will not appear in single channel full-screen, Auto Sequence Viewing Mode, or in Quad mode.

**NOTE:** If a power failure occurs on your system, you may need to re-configure your Camera On/Off settings. For more details, see "Appendix G: Power Failure" on page 54.

Make sure cameras are properly connected and paired to the receiver before enabling.

To enable/disable cameras:

1. From the Main Menu, select **Camera On/Off** and press the **Enter/OK** button.
2. Select the desired camera and press **RIGHT/LEFT** to select **On** or **Off**.
   
   **NOTE:** The currently selected camera will have On/Off highlighted in **RED**.

3. Press the **Enter/OK** button.
4. Press the **MENU** button to exit.

   **NOTE:** Any disabled channels will be blacked out in Quad mode.
**Record**

Use the Record menu to change image quality, set motion recording time, set a recording schedule, and enable/disable overwrite.

![Record Menu](image)

Figure 10.0 Record menu

The Record menu contains the following sub-menus:

- **Quality**: Set the image resolution to 320x240 (QVGA) or 640x480 (VGA)
- **Trigger Record**: Set the recording time when motion is detected by a camera
- **Schedule Record**: Set start and stop times for Schedule Recording
- **Overwrite**: Enable/disable overwrite of the SD card
Using the Main Menu

Quality

To change the image quality:

1. From the Main Menu, select **Record** and press the **Enter/OK** button.
2. From the record menu, select **Quality** and press the **Enter/OK** button.
3. Press **LEFT/RIGHT** to select **320x240** (QVGA) or **640x480** (VGA).
4. Press the **Enter/OK** button to save your settings.
5. Press the **MENU** button until all menu windows are closed.

**VGA or QVGA?**

Record at VGA resolution (640x480) for the best video performance or QVGA resolution (320x240) for a higher video frame-rate.
Trigger Record

Use the Trigger Record menu to set the length of the time for the system to record after motion is detected by a camera.

![Trigger Record menu](image)

Figure 10.2 Trigger Record menu

To change the motion recording time:

1. From the Main Menu select **Record** and press the **Enter/OK button**.
2. From the Record menu select **Trigger Record** and press the **Enter/OK button**.
3. Select 5 seconds, 15 Seconds or 30 Seconds and press the **Enter/OK button**.
4. Press the **MENU** button until all menu windows are closed.
Schedule Record

Use the Schedule Record menu to set start and stop times for Schedule Recording. During this time block, the system will record continuously from one specific camera, or from any cameras in Auto Sequence Viewing Mode.

**NOTE:** The time uses the 24-hour clock.

![Schedule Record](image)

Figure 10.3 Recording Schedule

To set a recording schedule:

1. From the Main Menu, select **Record** and press the **Enter/OK button**.
2. From the Record menu, select **Schedule Record** and press the **Enter/OK button**.
3. Press **RIGHT/LEFT** to move the **cursor** (yellow); press **UP/DOWN** to change the **hour** and the **minutes**.

   **NOTE:** You need to press RIGHT to move the cursor from Start Time to Stop Time.

4. Press the **Enter/OK button** to save your schedule.
5. Press the **MENU button** until all menu windows are closed.
6. Disable Manual and Motion Recording on the system.

   **NOTE:** Manual Recording and Motion Recording will override schedule recording. For details, see “Schedule Recording” on page 23.

   **NOTE:** You cannot enable Schedule Recording if the system is in Quad Mode. For details, see “Quad Mode” on page 19.
Overwrite

Use the overwrite feature to have the system overwrite the oldest recorded data on the SD card once the SD card is full.

![Overwrite enable/disable](image)

To enable overwrite:

1. From the Main Menu select **Record** and press the **Enter/OK button**.
2. From the record Menu select **Overwrite** and press the **Enter/OK button**.
3. Select **Yes** and press the **Enter/OK button**.
4. Press the **Menu** button until all menu windows are closed.

**NOTE:** If you do not enable Overwrite, the system will prompt you when the SD card is full (flashing red icon). Also, when the SD card is full, a blue LED will light up under “FULL” on the wireless receiver. You will need to manually delete files from the SD card or insert a new SD card into the wireless receiver. For details, see “Appendix E: Deleting Video Files on the System” on page 52.
**Pairing**

Use the Pairing menu to "pair" (add) additional cameras to the system (up to four). By default, the camera included with your system is automatically paired to channel 1 on the wireless receiver. The camera and receiver will communicate with one another once they are powered on.

**What is Pairing?**

"Pairing" is an electronic handshake between wireless devices. Wireless devices and components need to be paired in order to communicate with each other.

Pairing will assign each additional camera to a different channel on the wireless receiver.

**NOTE:** It is highly recommended to pair each additional camera to the wireless receiver prior to permanently mounting the cameras.

![Figure 11.0 Pairing menu icon](image-url)
To pair an additional camera:

1. Connect the camera to a power outlet. **DO NOT** permanently mount the camera.
2. Press **MENU** on the wireless receiver or remote control.
3. From the Main Menu, select **Pairing** and press the **Enter/OK button**.
4. Select **Camera 2**, **Camera 3**, or **Camera 4** and press the **Enter/OK button**.
   
   **NOTE**: By default, the camera included with your system is paired as Camera 1 (channel 1).

5. Following the on-screen prompt, press the **Pair button** on the rear panel of the camera. You have **30 seconds** to press the PAIR button on the camera. Once paired, the camera will be immediately displayed on-screen.
   
   **NOTE**: If you do not press the Pair button on the camera during the 30 second pairing window, repeat steps 2–5 to try the pairing process again.

Once the camera is paired you can permanently mount the camera to a desired location.

At the pairing screen, you have 30 seconds to press the PAIR button on the rear panel of the camera.
Settings

Use the Settings menu to set the system time, change display options, and format the SD card.

Figure 12.0 Settings menu

The Settings menu contains the following sub-menus:

- **Date & Time**: Set the date and time on the system
- **AV out**: Select the TV system for audio/video output
- **Zoom**: Set 1X or 2X digital zoom on cameras
- **Brightness**: Adjust screen brightness level
- **Format**: Format the SD card
- **Default**: Restore the system to factory settings
Date & Time

Use the Date & Time menu to set the time and date on the system. You must set the date and time in order to use Schedule Recording. For details, see “Schedule Recording” on page 23.

![Clock Set](image)

Figure 12.1 Clock Set

To set the date and time:

1. From the Main Menu, select Setting and press the Enter/OK button.
2. From the Setting menu, select Date & Time and press the Enter/OK button.
3. Press RIGHT/LEFT to move the cursor; press UP/DOWN to change the year, month, day, hour, minutes, and seconds.

   **NOTE:** The system uses a 24-hour clock.

4. Press the Enter/OK button to save your settings.
5. Press the MENU button until all menu windows are closed.
AV Out

Use the AV out menu to select the TV system for the wireless receiver.

Figure 12.2 AV out menu

To select the TV system:

1. From the Main Menu, select **Setting** and press the **Enter/OK button**.
2. From the Settings menu, select **AV out** and press the **Enter/OK button**.
3. Select **NTSC** (North America) or **PAL** (UK/Europe) and press the **Enter/OK button**.
4. Press the **MENU** button until all menu windows are closed.
Zoom

Use the zoom menu to enable 1X and 2X digital zoom on the cameras. While zoomed in, you can scan the image and view channels in full-screen.

**NOTE:** Zoom is intended as a temporary setting that is applied to ALL CHANNELS. When you are finished using zoom, you should return the view to 1X view.

![Zoom menu](image)

Figure 12.3 Zoom menu

To set the zoom:

1. View camera 1, 2, 3 or 4 in single-channel full-screen.
2. From the Main Menu, select **Setting** and press the **Enter/OK button**.
3. From the Settings menu, select **Zoom** and press the **Enter/OK button**.
4. Select **X 1** or **X 2** and press the **Enter/OK button**.
5. Press **MENU** until all menu windows are closed. The selected camera will be shown on the main display in 2X zoom.

While zoomed in you can perform the following:

- Press **LEFT/RIGHT/UP/DOWN** to scan the image.
- Press **CHANNEL—M** to change channels manually (you can only change channels using the CHANNEL—M button while zoomed in)
- Press **CHANNEL—A** to enable Auto Sequence Viewing Mode
- Press the **Record—● button** on the remote control or **RECORD—M button** on the wireless receiver to start/stop manual recording
- Press **QUAD** to view Quad mode – all channels will be zoomed-in

To disable zoom:

1. Open the Zoom menu.
2. Select **X 1** and press the **Enter/OK button**.
3. Press the **MENU** button until all menu windows are closed.
Brightness

Use the Brightness menu to adjust the screen brightness level.

![Brightness menu](image)

Figure 12.4 Brightness menu

To adjust brightness:

1. From the Main Menu, select **Setting** and press the **Enter/OK button**.
2. From the Settings menu, select **Brightness** and press the **Enter/OK button**.
3. Press **LEFT/RIGHT** to increase and decrease the brightness.
4. Press the **Enter/OK button** to save your settings.
5. Press the **MENU button** until all menu windows are closed.
Format

Use the Format menu to format the SD card. It is highly recommended to format the SD card prior to initial recording.

**ATTENTION:** Formatting erases all video data on the SD card. This step *cannot* be undone.

![Format menu](image)

**Figure 12.5 Format menu**

To format the SD card:

1. Insert the SD card into the SD card slot on the right panel of the wireless receiver until you hear a “click.” Please insert the card according to the diagram on the receiver.
2. From the Main Menu, select **Setting** and press the **Enter/OK button**.
3. From the Settings menu, select **Format** and press the **Enter/OK button**.
4. Select **Yes** and press the **Enter/OK button**. Please allow a few moments for formatting to finish. Formatting time will vary depending on the size of the SD card.
Default

Use the Default menu to restore the system to factory settings.

**ATTENTION**: Restoring the system to the default factory settings DOES NOT delete video files on the SD card, nor does it reset the date and time on the system.

To restore factory settings:

1. From the Main Menu, select **Setting** and press the **Enter/OK button**.
2. From the Settings menu, select **Default** and press the **Enter/OK button**.
3. Select **Yes** and press the **Enter/OK button**.
4. Press the **MENU button** until all menu windows are closed.
## Appendix A: System Specifications

### General

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission Frequency</td>
<td>ISM 2,400–2,483.5 MHz</td>
</tr>
<tr>
<td>Transmission Power</td>
<td>14dBm</td>
</tr>
<tr>
<td>Unobstructed Effective Range</td>
<td>450ft. / 150m (line of sight)</td>
</tr>
<tr>
<td>Spread Spectrum</td>
<td>FHSS</td>
</tr>
<tr>
<td>Modulation Mode</td>
<td>GFSK</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>14 ~ 122° Fahrenheit / -10 ~ +50° Celsius</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>&lt;85%</td>
</tr>
</tbody>
</table>

### Camera

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>CMOS</td>
</tr>
<tr>
<td>Total Picture Pixels</td>
<td>640 x 480 pxl (NTSC)</td>
</tr>
<tr>
<td>Minimum Illumination</td>
<td>0 Lux (IR on)</td>
</tr>
<tr>
<td>Night Vision Distance</td>
<td>40 ft. / 12 m</td>
</tr>
<tr>
<td>View Angle</td>
<td>Diagonal 55°</td>
</tr>
<tr>
<td>Power Consumption (Max.)</td>
<td>Max 350 mA</td>
</tr>
<tr>
<td>Power Supply</td>
<td>9V DC</td>
</tr>
<tr>
<td>Dimensions</td>
<td>70 mm x 188 mm x195 mm / 2.8” x 7.4” x 7.7” (with antenna)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.9 lbs / 0.41 kg</td>
</tr>
</tbody>
</table>

### Receiver

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supported Resolution</td>
<td>640 x 480 @ 10fps or 320 x 240 @ 25fps</td>
</tr>
<tr>
<td>Receiving Sensitivity</td>
<td>-81dBm</td>
</tr>
<tr>
<td>Power Consumption (Max.)</td>
<td>280 mA</td>
</tr>
<tr>
<td>Power Supply</td>
<td>9V DC</td>
</tr>
<tr>
<td>Dimensions (W x D x H)</td>
<td>135 mm x 80 mm x 87 mm / 5.3” x 3.2” x 3.5” (with antenna attached)</td>
</tr>
<tr>
<td>Weight (with wireless antenna)</td>
<td>0.40 lbs. / 0.18 kg</td>
</tr>
</tbody>
</table>
Appendix B: About Digital Wireless Technology

The Digital Wireless signal transmission type used by the Lorex LW2301 series is also known as **FHSS – Frequency Hopping Spread Spectrum**. This type of signal is highly resistant to deliberate jamming as it generates a channel hopping sequence using an algorithm generated by the receiver system.

The 2.4GHz (2.400-2.480Ghz) band is being divided into sections or paths of 2MHz per section, and each second the transmission signal hops hundreds of times in a specified sequence within this frequency range. The overall bandwidth required for frequency hopping is much wider than 2MHz however because transmission occurs only on a small section of this bandwidth at any given time, the signal being transmitted does not suffer from greatly reduced signal degradation and also avoids blocked paths other devices who act as sources of competing signals. The strength of the signal being transmitted is set to be from 13.5-16dBm, which is much higher than the analog transmission signal allowed by authorities around the globe.

When an image is captured by the camera it is instantly converted from an analog to digital signal and packaged into small packets. With each successful transmission via the 2 MHz paths discussed above, the packets of information containing images are delivered to the receiver and decoded into analog information. The information can then be displayed on devices that are connected to the wireless receiver (RX).

A device pairing process is required to synchronize the transmitter (TX, Camera) and the receiver (RX). This allows the transmitter and receiver to be on the same frequency and use the same algorithm for frequency hopping. This ensures that only the paired transmitter and receiver can maintain communication signal by hopping to the same frequency paths at the exact same time. As a result, the chance that other devices within the same frequency range are on the same frequency, at the same time and in the same order is extremely unlikely. Note that the pairing process is already done at the factory for products that ship within the same packaging. Only when add-on devices are purchased is a pairing process required.
Appendix C: Adding Cameras

The system comes with a camera that has already been paired to the wireless receiver. The Pairing Function assigns each camera to a different channel on the wireless receiver (up to four cameras), and is necessary for configuring additional cameras. By default, the camera included with the system appears on channels 1 on the wireless receiver.

NOTE: It is highly recommended to pair the cameras to the receiver before permanently mounting the cameras.

To pair an additional camera:

1. Connect the new camera to a power outlet. DO NOT permanently mount the camera.
2. Press MENU on the wireless receiver or remote control.
3. From the Main Menu, select Pairing and press the Enter/OK button.
4. Select Camera 2, Camera 3, or Camera 4 and press the Enter/OK button.
   NOTE: By default, the camera included with your system is paired as Camera 1 (channel 1).
5. Following the on-screen prompt, press the Pair button on the rear panel of the camera. You have 30 seconds to press the PAIR button on the camera (figure 13.2). Once paired, the camera will be immediately displayed on-screen.
   NOTE: If you do press the Pair button on the camera during the 30 second pairing window, repeat steps 2-5 to try the pairing process again.

Once the camera is paired you can permanently mount the camera to a desired location.

At the pairing screen, you have 30 seconds to press the PAIR button on the rear panel of the camera.
Appendix D: Strengthening the Range of the Wireless Signal

Is your wireless signal choppy? Do you want to extend the range of wireless transmission? There are several ways to boost your wireless signal as well as options to help you extend the range of the wireless signal.

DISCLAIMER: Certain accessories are not available in all markets.

Clear Line-of-Sight

The digital wireless signal is virtually interference free. However, you should always ensure there is a clear line-of-sight between the camera and the receiver.

![Diagram of Clear Line-of-Sight](image)

Figure 14.0 Clear line-of-sight between camera(s) and receiver

There should be little to no obstacles obstructing the line-of-sight between the camera and the receiver. Solid objects, such as concrete and metal may limit the range of the wireless signal.

Extending Your Wireless Signal

Even with a clear line-of-sight between your camera(s) and your receiver, you may experience a lower video frame rate simply due to the distance between your wireless devices.

Accessory antennas are available that can help extend the range of your wireless signal.
2.4 GHZ Directional Wireless Panel Antenna

Use the 2.4GHz Directional Wireless Panel Antenna (model #: **ACCANTD9**) to focus a wireless signal onto *one specific camera* in order to increase range of transmission (clear line-of-sight between the camera and the antenna is required). A 20 ft. extension cable is included help with proper position of the antenna.

![Diagram of 2.4 GHZ Directional Wireless Panel Antenna](image)

2.4 GHZ Omni-Directional Wireless Antenna

Use the 2.4GHz Omni-Directional Wireless Antenna (model #: **ACCANTO9**) to extend the range and boost the signal of several wireless cameras. You should position the Omni-Directional Wireless Antenna in an elevated position to provide a clear line-of-sight to the cameras. A 20 ft. extension cable is included help with proper position of the antenna.

![Diagram of 2.4 GHZ Omni-Directional Wireless Antenna](image)

Visit [www.lorextechnology.com](http://www.lorextechnology.com) for more details on wireless antennas and accessories.
Appendix E: Deleting Video Files on the System

You can delete video files on the SD card directly on the system. Deleting files if you need to clear space on the SD card (if Overwrite is disabled), or for your own file management purposes. For details, see “Overwrite” on page 37.

To delete files on the SD card:

1. From live viewing, press the Enter/OK button. The File menu opens.
2. Select the VIDEO folder and press the Enter/OK button.
3. Select a Date folder and press the Enter/OK button. The file list opens.
4. Select a file and press the Scan/Del button.
5. At the prompt, select YES and press the Enter/OK button. The file is deleted and the File List returns as normal.
6. Repeat steps 3~5 for other files on the SD card.

**NOTE:** You cannot delete folders on the SD card using the system.

**ATTENTION:** Use caution if attempting to delete folders on the SD card using your computer. Deleting folders may affect your access to other files on the card or may affect normal operation of the SD card with the system. If you want to delete the contents of the SD card, it is highly recommended to format the card using the system. For details, see “Format” on page 45.
Appendix F: Estimated Recording Times on SD Cards

Use the table below to help you estimate the recording times on various sizes of SD cards. Times shown are in hours, minutes, and seconds.

<table>
<thead>
<tr>
<th>SD Card Capacity</th>
<th>Standing Recording Time</th>
<th>QVGA 320x240</th>
<th>VGA 640x480</th>
</tr>
</thead>
<tbody>
<tr>
<td>512 MB</td>
<td>1:20:22</td>
<td>0:54:18</td>
<td></td>
</tr>
<tr>
<td>1 GB</td>
<td>2:32:05</td>
<td>1:46:24</td>
<td></td>
</tr>
<tr>
<td>2 GB</td>
<td>5:02:47</td>
<td>3:47:17</td>
<td></td>
</tr>
<tr>
<td>4 GB</td>
<td>10:15:24</td>
<td>7:02:13</td>
<td></td>
</tr>
<tr>
<td>8 GB</td>
<td>17:58:28</td>
<td>14:05:01</td>
<td></td>
</tr>
<tr>
<td>16 GB</td>
<td>34:54:25</td>
<td>28:10:35</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE**: The system is compatible with SD High Capacity (SDHC) cards, minimum Class 2.

**NOTE**: Estimated recording times based on tests using Kingston® brand SD Cards.
Appendix G: Power Failure

A power failure may interrupt recording modes on the system. After power is restored, the following will occur:

- The system will restart in **Auto Sequence Mode + Motion Recording** – this ensures that some form of recording will be immediately active on the system

  **NOTE:** If you had a different display view or recording mode set when the power failure occurred, you will need to re-apply the previous display view and recording mode.

- A flashing **Power Failure icon** will appear on-screen – the Power Failure icon indicates that a power failure occurred while the system was *actively recording* (i.e. “REC” icon was on-screen)

  **NOTE:** The flashing icon appears *only* if the system was actively recording when the power failure occurred. The flashing icon will disappear when you press buttons on the receiver or remote control.

![Power Failure Icon](image-url)
## Troubleshooting

If you have problems with your System, there is often a quick and simple solution. Please try the following:

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
</table>
| There is no picture from a Camera.                   | • Check power to the Camera. Make sure the power adapter is properly connected  
• Make sure that the Cameras and Receiver are both ON.  
• Make sure that the camera is in range of the Receiver. |
| The picture from the camera is choppy                | • Make sure that each camera is within range, and that there are no large obstructions or interference  
• Move the camera closer to the receiver  
• Try repositioning the camera, receiver or both to improve the reception. |
| The Picture is or has become Choppy                  | • The picture may become choppy when experiencing a lower frame rate (i.e. 10 frames per second vs. a higher 20 frames per second).  
• Try moving the camera closer to the receiver.  
• Remove obstructions between the Receiver and Camera  
• Try switching to QVGA mode. Resolution will be reduced but video frame rate will increase |
| The Picture appears to be grainy/distorted           | • When using with large screen TV/Monitor (especially high-definition televisions), the picture might be grainy as the camera limits video resolution to VGA (640x480 pixels). This is not a product defect.  
• For best performance use with TV/Monitor PIP (Picture in Picture) function. Check your TV/Monitor product manual to see if this feature is available on your TV/Monitor  
• View video on a smaller screen TV/Monitor  
• Consider increasing the range of the wireless signal with an accessory antenna (see page 50) |
| The Picture is white                                 | • Common situation know as “washout” or “whitewash” where a strong light source is pointed at the camera lens. The camera lens IS NOT harmed during a whitewash.  
• DO NOT point your camera towards a light source |
| “Err” appears on the on-screen display               | • The system has encountered an error with the SD card. Power off the receiver, remove then re-insert the SD card, and then power the receiver back on  
• If “Err” still appears on the OSD, format the SD card |
| The buttons on the receiver don’t work               | • The Lock may be engaged. On the right panel of the receiver, slide the lock away from the SD card slot  
• If the lock is disengaged but the buttons still do not function, power the receiver off then power it back on |
| The 1, 2, 3, & 4 buttons do not change channels      | • The 1, 2, 3, and 4 buttons jump to their respective channels in Quad Mode ONLY; press the CHANNEL—M button on the remote control or the receiver to change channels manually |
| The remote control does not work                     | • Replace the battery in the remote control with a fresh CR2025 battery |
FAQ

Q: What is the maximum distance I can have between the camera and the receiver?
A: Typically 450 feet (137 m) with a clear line of sight in open space, or approximately 150 feet (46 m) in a house. Walls, studs, furniture will interfere with the range of wireless transmission.

Q: Why does my “wireless camera” have a power cable?
A: The term “wireless” refers to the lack of a video cable between the camera and the receiver. The camera still requires a power source.

Q: What does ‘line-of-sight’ mean?
A: ‘Line-of-sight’ means that there are no obstructions which may interfere with the transmission of the audio/video signal. Obstructions include items such as walls, buildings and certain electronic devices.

Q: What is pairing?
A: Pairing is an electronic handshake between digital wireless devices. Pairing allows the devices to communicate exclusively with each other. The transmission is encrypted and secure.

Q: Can digital wireless cameras be paired to more than one receiver?
A: Digital Wireless cameras can only be paired to one receiver. This is to prevent interception by 3rd parties, and prevents any other device from picking up the signal – this also means that you cannot pair one camera to multiple receivers.

Q: Can I use 900 MHz and 2.4 GHz systems at the same time?
A: Yes. 900 MHz devices and 2.4 GHz devices will not interfere with one another.

Q: Can I connect analogue 2.4 GHz wireless cameras to the wireless receiver?
A: No, analogue and digital wireless products are incompatible. Visit www.lorexcctv.com for a full list of cameras and accessories that are compatible with this system.

Q: What does the flashing power-plug icon mean?
A: A power failure occurred while the system was actively recording. When power is restored, the system will restart in Auto Sequence Mode + Motion Recording to ensure some form of recording is active on the system. System settings and modes may have been disrupted by the power failure. Please check all system settings and re-apply any options, recording modes, or display views if necessary.

Q: Why can’t I open the main menu, change viewing mode, access recordings, or access any other options while in recording mode?
A: In order to perform any changes on the system while in recording mode, you will need to stop recording. Recording overrides other actions on the receiver.
Q: How do I turn off the Alarm ('beeping') sound?

A: By default, the system is set to beep when motion is detected by the camera(s). To turn the beeping sound off locate the dial on the left side of the receiver marked ALARM VOL and turn it all the way to the right.

Q: Can I extend the wireless range of the receiver?

A: Yes. There are optional antennas available at lorextechnology.com that help boost wireless signals.

Q: While in Quad Viewing mode, how can I quickly go to a specific channel?

A: Press the direction button on the remote that refers to the channel number you want to view. To now view another channel, repeatedly press the M channel button on the remote until you have reached your desired channel.

Q: What happens to the system during a power failure while in recording mode?

A: power failure may interrupt recording modes on the system. After power is restored, the following occurs:

- The system will restart in Auto Sequence Mode + Motion Recording. This ensures that some form of recording will be immediately active on the system.
- A flashing Power Failure icon will appear on-screen. The Power Failure icon indicates that a power failure occurred while the system was actively recording.

NOTE: If you had a different display view or recording mode set when the power failure occurred, you will need to re-apply the previous display view and recording mode.

NOTE: The flashing icon appears ONLY if the system was actively recording when the power failure occurred. The flashing icon will disappear when you press buttons on the receiver or remote.

IMPORTANT: If a power failure occurs during recording, you may lose video recorded within ten minutes of occurrence of the power failure if set to Manual or Scheduled Recording.
FAQ

Q: Can I record multiple cameras at the same time?

A: The LW301 can only record one channel at a time.
   **TIP:** Set Trigger Record in the Record menu to 5 seconds (the lowest possible value),
   and enable Quad Mode. This allows the system to: a) record a channel for 5 seconds
   when motion is detected b) Records the next channel that detects motion for another 5
   seconds.

Q: Why can’t I access the main menu while I’m in Quad Mode?

A: You must exit Quad Mode before you can access the main menu. Simply press Quad on the
   remote control to exit.

Q: Why isn’t scheduled recording starting?

A:
   • Make sure that the SD card is properly inserted into the monitor. Make sure that the SD card
     icon appears at the top of the screen.
   • Double check that you have set the system time. Press the Menu button to access the main
     menu. Then navigate to Setting->Date & Time to set the system time.
   • Double check that you have set the start/stop time in the scheduled recording menu.
   • Double check that you have turned scheduled recording on.
   • You may be in Quad Mode. Exit Quad Mode before starting scheduled recording. Press the
     Quad button on the remote to exit.

Q: Can I record in Auto Sequence Viewing Mode?

A: Yes. Set the system to Scheduled Recording. Then set the viewing mode to Auto Sequence.
   Note that the recorder only records what it sees on-screen. This means that you will only record
   video from a particular channel when it is displayed on the monitor.

Q: Can I set specific days of the week for the system to record?

A: You can only specify to record at a particular time of day (for example, everyday from 9:00
   a.m to 5:00 p.m). Note: System utilizes a 24-hour clock (i.e 15:00 is 3:00pm).

Use the Schedule Record menu to set start and stop times for Schedule Recording. During this
   time block, the system records continuously from one specific camera, or from any cameras in
   Auto Sequence Viewing Mode.
Q: Can the system display a 12-hour clock?

A: The unit only displays time in the 24-hour clock format.

Q: Can the system adjust to daylight savings time?

A: There is no daylight savings time (DST) setting on the system. DST must be set manually if necessary.

Q: Why can’t I access the saved video files on my memory card?

A: All recording must be stopped on the system before playing back saved video files. This also applies to Quad or screensaver viewing mode.

Q: When using Manual or Scheduled Recording, why does the system generate so many video files?

A: The system records video files in 10 minute sessions (i.e., 1 hour recording will be divided into 6 separate files.)

The reasons for this are as follows:

• It makes finding events easier/faster in case you know the approximate timing of the event.
• The system needs time to record the video file to the memory card. Every time a new 10 minute session starts, the previous 10 minute session is stored onto the memory card.

Q: How can I view videos on my computer?

A: Remove the memory card from the monitor and insert it into a compatible SD card reader.

If you are using a PC:

• A window will pop-up asking you whether you would like to browse files on the memory card or launch Windows Media Player™. If the pop-up window does not appear, open My Computer (Vista: Computer) and find the memory card in the list of drives.
• Find the video file you want to view by looking for the date the event occurred. The file name convention indicates the date (“090825” means the file was recorded on August 25, 2009). Double-click the file to begin playback in Windows Media Player™.
• The XviD, DivX, or FFDShow codec may be required if attempting to view the video files in Windows Media Player™. You can also view AVI files natively in other media players such as VLC and DivX Player.

If you are using a Mac:

• The memory card folder will appear on the desktop. Double-click the folder to open.
• Find the video file you want to view by looking for the date the event occurred. The file name convention indicates the date: “090825” (year [09], month [08], date [25]) means the file was recorded on August 25, 2009. Double-click the file to begin playback in Quicktime™.
• Additional codecs may be required if attempting to view AVI files in QuickTime. VLC Player is recommended for viewing AVI files on a Mac. VLC is an open-source freeware application available at www.videolan.org
LOREX PRODUCT LIMITED WARRANTY

Lorex’s responsibility under this, or any other warranty, implied or expressed, is necessarily limited to the repair or replacement of defective product(s). Lorex is not responsible for the cost of any equipment or labor required for the removal, reinstallation or replacement of the equipment.

Lorex warrants, to the original retail purchaser only (the "Purchaser"), that this item (the "Product") if properly used and installed, and where applicable, the CD-ROM on which the accompanying software is provided, is free from direct, special, incidental, or consequential damages resulting from any breach of warranty. Lorex's obligations under this warranty shall be limited to the repair or replacement of the Product (the "Product Repair or Replacement"), as Lorex shall determine, free of charge to the Purchaser. Lorex’s sole discretion and (ii) the replacement of the Product found be Lorex to be defective.

Pièces et main-d'oeuvre :

• Le remplacement des pièces sous garantie que Lorex estime être défectueuses dans le cadre normal de son exploitation, y compris les pièces de remplacement, sera effectué par Lorex dans un délai raisonnable après réception de la déclaration de garantie. Lorex se réserve la responsabilité de la main-d'oeuvre nécessaire à la réalisation de ces remplacements. Lorex se réserve le droit de réparer ou de remplacer, à sa seule discrétion, le logiciel et/ou le matériel nécessaire à la réalisation de ces remplacements.

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Obtaining Service

In order to obtain service, please make sure that you have in hand your original, dated bill of sale, receipt or invoice, failing which Lorex will not perform any of its obligations under this warranty. If you return the Product to Lorex, you must pay all shipping charges. Lorex will handle and ship your Product free of charge to you. If you return the Product to a dealer or retailer, you must pay all shipping charges to the dealer or retailer and Lorex will place the Product at the dealer or retailer’s disposal. You must use the original packaging or equivalent for shipping the Product. If the Product is returned to Lorex, Lorex will handle and ship the Product free of charge to you. If the Product is returned to a dealer or retailer, you must pay all shipping charges to the dealer or retailer and Lorex will place the Product at the dealer or retailer’s disposal. You must use the original packaging or equivalent for shipping the Product. If the Product is returned to Lorex, Lorex will handle and ship the Product free of charge to you. If the Product is returned to a dealer or retailer, you must pay all shipping charges to the dealer or retailer and Lorex will place the Product at the dealer or retailer’s disposal.

Lorex does not warrant that the software will operate in any operating system or on any computer.

This warranty does not apply to defects in or damages to the Product caused by (i) negligent use of the Product, (ii) failure to follow the instructions contained in the Product’s Owner’s Manual, (iii) damage arising from handling the Product, (iv) damage arising from exposure to moisture, (v) damage arising from abnormal atmospheric, moisture and humidity, (vi) improper Product maintenance, or (vii) accident, fire, flood or other Acts of God.

This warranty does not apply to defects in or damages to the Product caused by (i) negligence or defects in the Product, (ii) failure to follow the instructions contained in the Product’s Owner’s Manual, (iii) damage arising from handling the Product, (iv) damage arising from exposure to moisture, (v) damage arising from abnormal atmospheric, moisture and humidity, (vi) improper Product maintenance, or (vii) accident, fire, flood or other Acts of God.

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Lorex garantiza, sólo de fonctionnement dudit produit, ainsi que pour tout délai dans l'exécution de cette garantie suite à des
incidents ou défaillances liés à l'utilisation ou à l'installation de l'appareil. Lorex ne sera pas responsable des dommages directs, liés à la conduite de l'appareil, aux dommages indirects ou consécutifs à l'utilisation de l'appareil ou à ses pièces. Lorex se réserve le droit de modifier son logiciel en tout moment sans préavis. Si Lorex n'est pas en mesure de réparer ou de remplacer le produit, ou si le CD-ROM ou le logiciel est défectueux, la valeur peut être réparée ou le remboursement, selon les conditions décrites dans les présentes. Ces recours seront le seul et exclusif remède pour toute violation de garantie. Lorex n'est pas responsable de dommages directs, spéciaux, indirects, ou consécutifs à l'utilisation de l'appareil ou à ses pièces. Lorex se réserve le droit de faire des modifications au contenu de ce logiciel ou du produit à tout moment sans préavis.

Esta garantía quedará nula si se han usado accesorios que no son Lorex en el Producto o en relación con el mismo. Se garantizará al Comprador cualquier pieza de repuesto provista por Lorex en conexión con esta garantía por un período igual a la parte no vencida del Período de Garantía del Producto.

Exclusiones de la garantía

Esta garantía no se aplica a las bombillas, LEDs y baterías suministradas con el producto o que formen parte del mismo. Lorex no garantiza que un producto o CD-ROM funcione conjuntamente con cualquier otro producto o CD-ROM, a menos que se indique en la documentación que acompaña el producto. Lorex no garantiza que este software funcione sin interrupción o que se encuentre libre de errores. Lorex no ofrece un soporte técnico para algunos productos específicos que se pueden quebrar o no estar en funcionamiento durante el periodo de garantía.

Obtención del servicio

Si el usuario decide que es necesario un servicio de reparación, deberá seguir los siguientes pasos:

1. Contactar el departamento de servicio al cliente en el país de origen del producto.
2. El departamento de servicio al cliente le proporcionará un número de autorización para el retorno.
3. El producto y el CD-ROM del software, si se aplican, deben ser devueltos a Lorex en el paquete original en el que fueron recibidos.
4. El usuario debe pagar los costos de envío del producto devuelto a Lorex.

Esta garantía no cubre ningún costo relativo a la reinstalación del producto o CD-ROM que haya sido reparado.

Lorex no hace ninguna declaración de garantía de ninguna clase con respecto al potencial, capacidad o eficacia del Producto para evitar, en menor o en alguna forma afectar a los daños o tensiones personales o a las pérdidas de bienes o propiedades. Lorex no asume ninguna responsabilidad por cualquier pérdida indirecta, especie, o daño resultante de la instalación de cualquier software propietario en cualquier producto Lorex. Lorex no se hace responsable por daños o perjuicios, directos, indirectos, especiales, incidentales, o a causa de perjuicios resultantes de algún incumplimiento de garantía o daño resultante de cualquier otra teoría legal, incluyendo pero no limitándose a: perjuicios de naturaleza personal, daños o pérdidas de cualquier tipo, pérdidas de beneficios, costos incurridos, o daños o pérdidas de cualquier tipo, pérdidas de beneficios, costos incurridos, o daños o pérdidas de cualquier tipo.

PROTECT EVERYTHING THAT MATTERS

Add wired or wireless cameras to expand the “Envelope of Protection” for your business, your home and your family