

ULTRA DIGITAL WIRELESS MONITORING SYSTEM WITH INDOOR/OUTDOOR NIGHT-VISION CAMERAS

Instruction Manual

English Version 3.0



**MODELS:
LW2600 Series**



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Thank you for purchasing the Ultra Digital Wireless Monitoring System. Lorex is committed to providing our customers with a high quality, reliable security product. Please visit us on the web for the most current Manuals, Quick Start Guides and Firmware. Additional Language Manuals are also 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 products' 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.

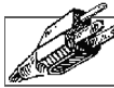
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF THE PLUG TO THE WIDE SLOT AND FULLY INSERT.

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.
 - o A polarized plug has two blades with one wider than the other.
 - o A grounding type plug has two blades and a third grounding prong.
 - o The wide blade or the third prong is provided for your safety.
 - o 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.



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 CLASS B NOTICE

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not in-stalled and used in accordance with the instruction, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception (which can be determined by turning the equipment on and off), the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio or television technician for assistance

This equipment has been certified and found to comply with the limits regulated by FCC, EMC, and LVD. Therefore, it is designated to provide reasonable protection against interference and will not cause interference with other appliance usage.

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.



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Features

- Ultra Digital Wireless Technology Provides Excellent Image Quality and Clarity
- Interference Free, secure and private signal
- Up to 450 ft Wireless Transmission Range*
- Weather Proof Metal Camera is Great for Indoor/Outdoor Surveillance
- Listen in with Exceptional Sound Clarity
- Safety Warning Feature Notifies You When out of Range

* Maximum open space transmission range. The actual range is dependent upon building materials and other obstructions in path of wireless signal.

Receiver Features

- 7" Digital Color LCD Display
- Compact receiver easy to install and operate
- 4 Channel System – Supports up to 4 Ultra Digital Wireless Cameras
- Supports VGA (640x480) & QVGA (320x240) resolutions
- Listen-in Audio
- Convenient Signal Strength Indicator
- Video/Audio RCA Output for Viewing on TV/Monitor or Recording on VCR
- RCA/BNC Adaptor (included) allows for an easy connection to a DVR, or observation system
- Counter, under counter, or wall mountable

Camera Features

- VGA Resolution Camera
- 46ft (14m) IR Night Vision*
- Auto infrared light filter ensures outstanding image quality any time, day or night
- Built-in Microphone
- Weather Proof Housing
- Durable Metal Housing

**IR illumination range of 46 ft. / 14m under ideal conditions. Objects at or beyond this range may be partially or completely obscured, depending on the camera application.

The Digital Wireless signal transmission type used by the Lorex LW2600 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:



**2 x WIRELESS CAMERA
(with SUNSHADE)***



1 x 7" LCD MONITOR/RECEIVER



2 x MOUNTING STAND



**1 X RECEIVER
STAND**



**1 X RCA AUDIO/VIDEO
CABLE (male-to-male)**



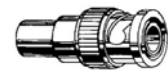
**3 x MOUNTING
SCREW KITS**
(2 for each camera, 1 for
the receiver stand)



3 X WIRELESS ANTENNAS



**3 x POWER ADAPTER (FOR
RECEIVER & CAMERAS)**



**1 x RCA/BNC
ADAPTER**

*Camera configuration may vary by model

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

LCD Receiver / Monitor



Figure 1.0 LCD monitor/receiver

1. **Wireless Antenna:** Connects to the side of the receiver.
2. **LCD Display:** 7" digital LCD display.
3. **Speaker:** Left and right mono speakers.
4. **Power:** Press to power ON/OFF the monitor.
5. **Menu:** Press to adjust display settings.
6. **Volume +:** Press to increase volume; increase display settings.
7. **Volume - :** Press to decrease volume; decrease display settings.
8. **CH (Channel Select/Pair):** Press to select from channels 1~4, Auto, and Quad viewing modes; press and hold on an empty channel to add (pair) additional cameras.

Note: Channel/Pair button is *raised* for a tactile difference between it and the Display button.

9. **RES (Resolutions – VGA/QVGA):** Press to switch between VGA and QVGA*; press and hold to remove/replace channels from Auto-Scan.
10. **USB port:** N/A



Figure 1.1 Side view

*VGA (Video Graphics Array) has a resolution of 640X480; QVGA (Quarter Video Graphics Array) has a resolution of 320X240.

Installing the Camera

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. Slide the sunshade on the camera body.
3. Screw on the antenna to the back of the camera.
4. Attach the camera to the mounting stand. Tighten the thumbscrews to secure the camera to the stand. Adjust the angle of the camera until the desired view is set.
5. Connect the power cable from the camera to the power adaptor to power on the camera.

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 up the cameras with the receiver. Refer to the camera pairing section of this manual for more details.

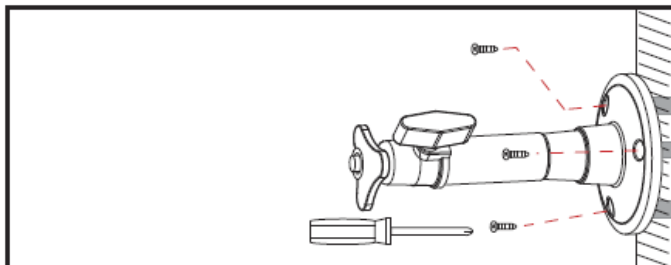


Figure 2.0 Attach stand to mounting surface



Figure 2.1 Attach the camera to the stand

Assembling the Wireless LCD Monitor/Receiver

To assemble the wireless LCD monitor/receiver:

1. Attach the stand to the back of the monitor.
2. Screw on the wireless antenna to the side of the monitor.
3. Connect cable to power adaptor.
4. Place the receiver in a place that will have a clear reception to your camera(s)*.

Note: *OPTIONAL:* If desired, you can also mount the stand to a wall or counter/under-counter.

ATTENTION: Make sure to first connect and power on the cameras before powering on the monitor; this will ensure a proper connection.

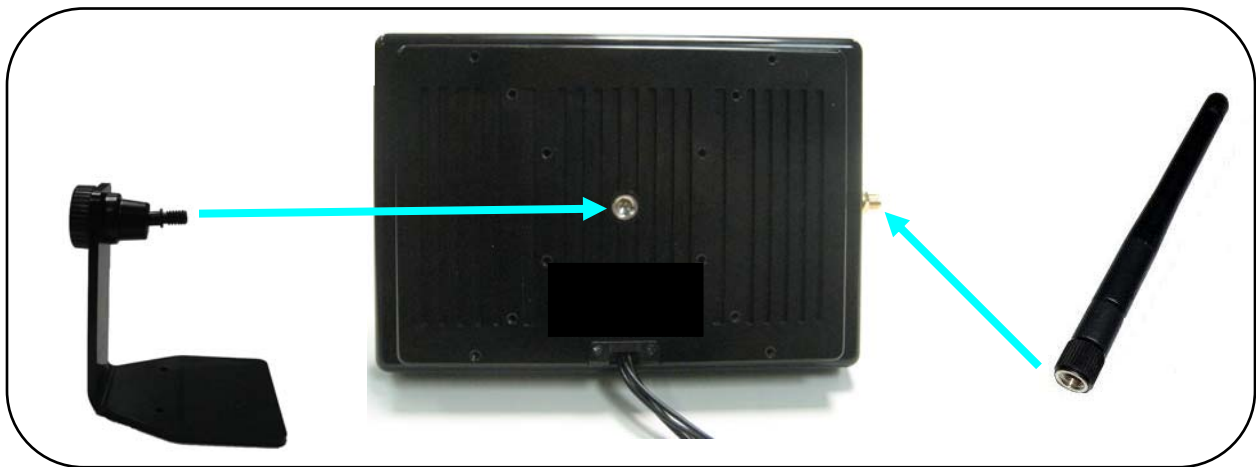


Figure 3.0 Assembling the monitor

Connecting 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 adaptor.

- 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.

Installation Warnings

- 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~113°F (-10°C~45°C)

***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 LCD Monitor/Receiver

With the camera(s) and LCD monitor connected and powered on, you can now begin to use the functions and features of the LCD monitor/receiver.

- To power the monitor ON/OFF, press the  button.

Adjusting the Display

To adjust the display image:






1. Press the  button on the front panel to adjust the following display settings:
 - **Brightness**
 - **Contrast**
 - **Saturation** (Color: A high value results in a redder image, a low value in a greener image)
 - **Sharpness**
2. Press the   buttons to increase/decrease the values for each of these settings.



Figure 4.0 Adjust the display of the monitor/receiver

Adjusting the Volume

- Press the   buttons to increase/decrease the output volume.

Changing Channels

- Press the **CH** button on the front panel to select from channels 1~4, Auto-Scan, and Quad split screen viewing modes.

Note: Pair button is raised on the front panel for a tactile difference between it and the VGA/QVGA button.

Connecting to a TV, VCR, DVR, or Observation System

To use video out:

1. Connect one end of the RCA audio/video cable (included) to the audio/video cable from the receiver.
2. Connect the other end of the RCA audio/video cable to the audio/video ports on your TV or VCR. For a DVR or observation system with BNC, use the included RCA-to-BNC adaptor.

Viewing Modes

There are six different viewing modes available on the system: individual viewing of channels 1~4, Auto-Scan, and Quad split-screen. For more details on Auto-Scan, see page 15.

- Press the **CH button** *repeatedly* to switch between these viewing modes.

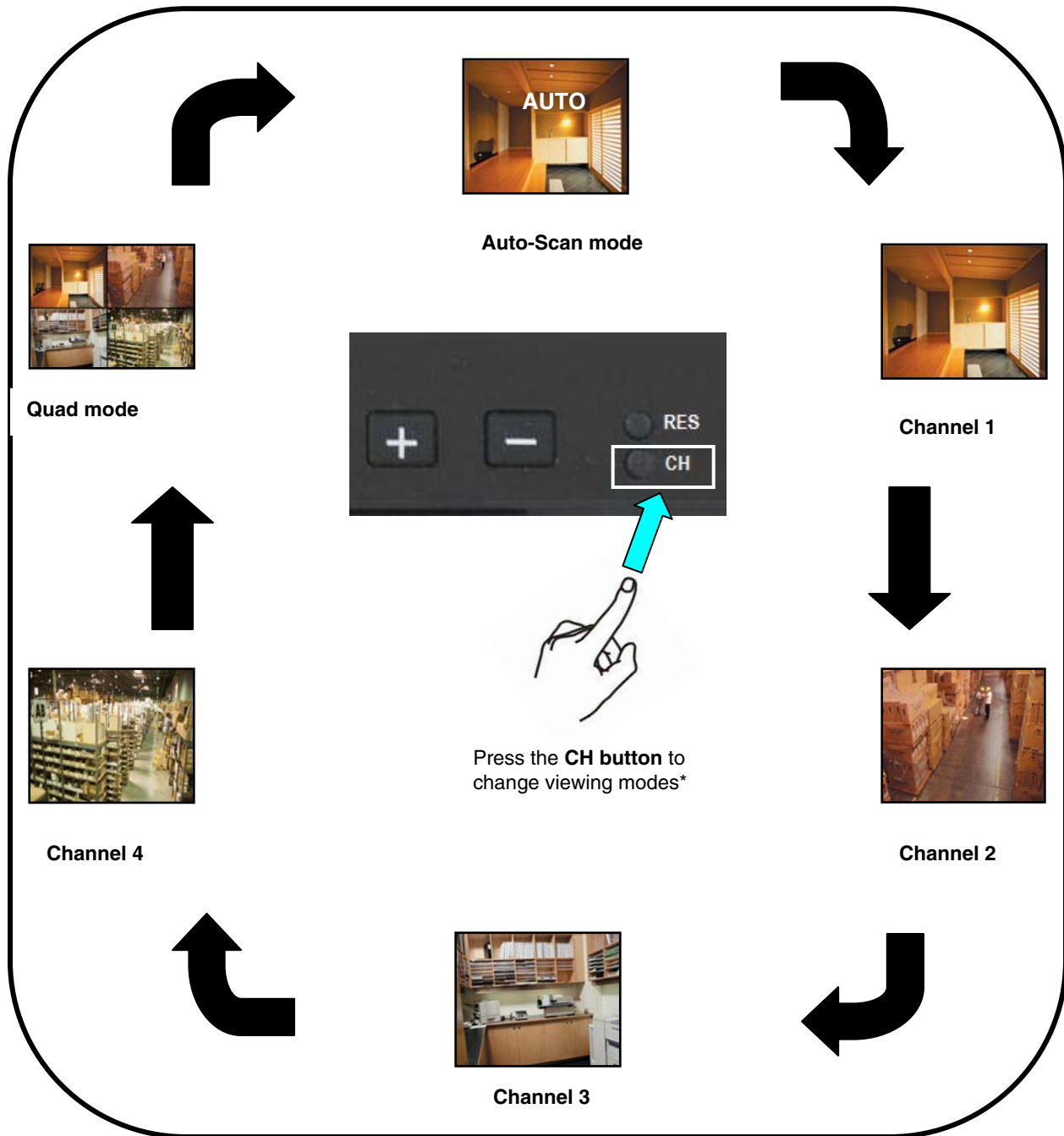


Figure 5.0 View Mode diagram

*Images simulated.

On-Screen Display

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.

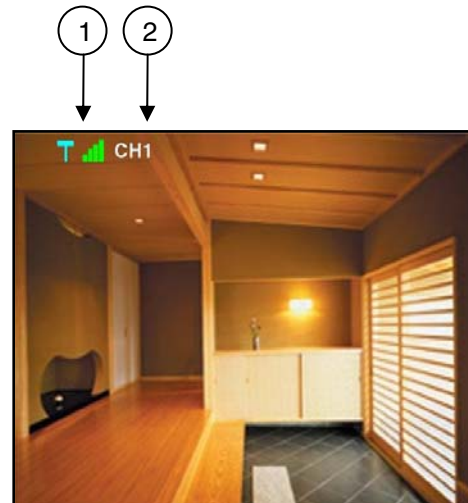


Figure 6.0 On-screen display

2. **Channel Indicator** – Displays the current channel number. Press the **CH button** on the Receiver to switch between available cameras.

Note: Channel Indicator not shown while in Quad Mode.

CH 1	CH 2
CH 3	CH 4



Figure 6.1 Quad split-screen view

3. **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 normal and should not be considered a defect.

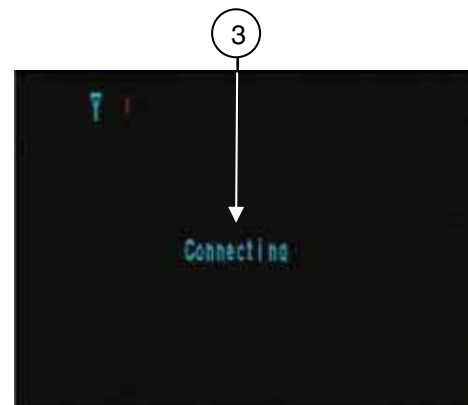


Figure 6.2 Connecting message

Adding Cameras

The System comes with cameras that have already been paired up with the receiver. The Pairing Function assigns each camera to a different channel on the Wireless Receiver (up to 4 Cameras), and is necessary for connecting additional cameras. By default, the cameras included with the system appear on channels 1 and 2 on the wireless receiver.

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

1. Connect the power cable from the camera to the cable from the Power Adaptor; plug the Power Adaptor into an outlet or surge protector.
2. Press the **CH button** on the Wireless Receiver to select an empty channel.
3. Press and hold the **CH button** for 5 seconds to activate pairing function. The on-screen displays informs you that you have 30 seconds to press the yellow pair button on the camera (see Figure 5.1).
4. Press and hold the **Yellow Pair button** extending from the camera. You must press the Yellow Pair button from the camera within 30 seconds of pressing the CH button on the Wireless Receiver. If pairing is successful, live video from the camera will immediately appear on the monitor.



Figure 7.0 CH button on the LCD Wireless Receiver



Figure 7.1 Pair button extending from camera

Using Auto-Scan

Auto-Scan automatically switches between channels 1~4. Press the **CH button** to turn on Auto-Scan (CH1~4> **Auto-Scan**> Quad).

You can also disable Auto-Scan for individual channels. This allows you to customize viewing of the connected cameras.

To disable Auto-Scan:

1. Make sure the Wireless Receiver and cameras are fully connected and powered on.
2. Press the **CH button** to select the channel you wish to remove from Auto-Scan.
3. Press and hold the **RES button** until the on-screen display indicates that Auto-Scan has been turned *OFF* for that specific channel.

Note: Repeat step 3 to turn Auto-Scan ON.



Figure 8.0 Auto-Scan turned OFF for Channel 1.

Setting Dwell Time

You can set the length of time (in seconds) that the receiver displays channels while in Auto Scan.

To set dwell time:

1. Make sure the Wireless Receiver and cameras are fully connected and powered on.
2. Press and hold the **Pair button** and **VGA/QVGA button** *at the same* until the Dwell Time screen appears. Continue holding both buttons.
3. With the Pair button and VGA/QVGA button held down, the receiver will automatically cycle the dwell time from 1~20 seconds. Release both buttons to set the desired dwell time.

Note: If you repeat this process, the Dwell Time screen will display the last set dwell time.



Figure 9.0 Press and hold the RES and CH buttons at the same time

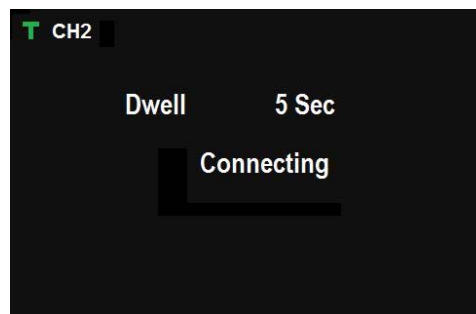


Figure 9.1 Continue holding both buttons to set the dwell time for Auto-Scan

Troubleshooting

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

Problem	Solution
There is no picture from a Camera.	<ul style="list-style-type: none"> • Check all connections to the Camera. Make sure the adaptor is plugged in. • Make sure that the Cameras and Receiver are both ON. • Make sure that the camera is in range of the Receiver.
There is Interference with the Camera Picture.	<ul style="list-style-type: none"> • Make sure that each camera is within range, and that there are no large obstructions or interference • Try repositioning the camera, receiver or both to improve the reception.
The picture is dropping	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.
There are problems with the Audio.	<ul style="list-style-type: none"> • Ensure that the volume on the TV is ON • Make sure that there is sound within range of the Camera Microphone • If the unit emits a loud screeching noise (feedback), move the camera or receiver farther apart. • Increase volume on wireless monitor/receiver*
The Picture appears to be grainy when using AV out function to view on a large screen TV/Monitor	<ul style="list-style-type: none"> • The purpose of the AV output is for convenience only. When using with large screen TV/Monitor, 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

Appendix A: System Specifications

Monitor/Receiver Specifications

Monitor/Receiver	
Receiving Frequency Range	2.400GHz~2.480GHz
LCD	7 inch digital panel
Video Format	NTSC
Display Type/Size	16:9
Display Resolution	VGA (640x480) or QVGA (320x240)
Video Output	1 X BNC
Audio Output	1 X RCA (mono)
RX Sensitivity	-81dBm
Demodulation	GFSK
Data Rate	160 Kb/s
Power Requirement	12Vdc +/-10%
Power Consumption	650mA Max
Operating Temp Range	14°F ~ 122°F -10° ~ 50° C

Camera Specifications

Camera	
Transmit Frequency Range	2.400GHz~2.480GHz
TX Power	16dBm
Data Rate	160 Kb/s
Modulation	GFSK
TX Range	450 ft / 137 m Line in Sight
Image Sensor Type	1/4" Color CMOS Image Sensor
Effective Pixel	H: 640, V: 480
Image Processing	Motion JPEG
Image Resolution	Up to 640 x 480 (VGA)
Lens	5.08mm F 2.8
Viewing Angle	58°
AGC	On
AES	1/60~1/62500S
Power Requirement	12Vdc +/-10%.
Power Consumption	315mA Max with IR LED, 135mA Max without IR LED.
Operating Temp Range	14°F ~ 122°F -10° ~ 50° C
Environment Rating	IP66
Built-in IR LED	30 Units of IR LED (850nm Type) for Night Vision
Built-in Auto IR Turn On/Off	CDS Drive Auto IR LED turn On/Off Circuit

Appendix B: About Digital Wireless Technology

The Digital Wireless signal transmission type used by the Lorex LW2602 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.

It's all on the Web!

Tout est sur le Web!

¡Todo aparece sobre el Internet!



Product Information
Información acerca del producto
Information sur le produit



Specification Sheets
Fichas de especificaciones
Fiches signalétiques



User Manuals
Guides de l'utilisateur
Guías del usuario



Software Upgrades
Actualizaciones del programa
Mises à jour du logiciel



Quick Start Guides
Guías de arranque rápido
Guides de début rapide



Firmware Upgrades
Actualizaciones del microprograma
Mises à jour du micro-logiciel

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