

First Alert®

Model No.: FAW-620

2.4 GHz Wireless Color Monitoring System

User's Manual

- Receiver with Patch Antenna
- Camera With Patch Antenna

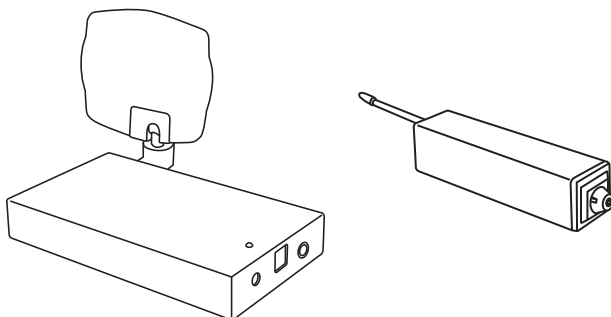


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IMPORTANT!

Read this carefully before installing or using these units.

DANGER-HIGH VOLTAGE—Unit should only be opened by an authorized technician if service is required.

Safety Precautions

For correct and safe operation of this system it is essential installers, end-users and service technicians follow all safety procedures outlined in this manual. Specific Warning and Caution statements (and/or symbols) are marked on the units where needed.

Warning and Caution Statements

“WARNING” indicates a situation where failure to follow proper procedures can cause personal injury.

“CAUTION” indicates a situation where failure to follow proper procedures can cause damage to the equipment.

PLEASE READ CAREFULLY AND SAVE

This manual contains important information about this product's operation. If you are installing this product for use by others you must leave this manual – or a copy – with the end user.

Important Safety Precautions

Please read before installing

Congratulations on your purchase of the 2.4 GHz Wireless Color Monitoring System. Please read these safety and operating instructions carefully before installing and using this system.

- Keep the camera, receiver and adapter cord out of reach of children.
- Do not place the camera, receiver or adapter cord in a crib or playpen.
- Do not use camera near water or damp and wet environments, such as a bathtub, laundry tub, kitchen sink, or wet basements.
- Locate the camera, receiver and AC adapter where there is adequate ventilation. Do not locate the camera in direct sunlight.
- Do not locate the camera, receiver and AC/DC adapter near heat sources such as heat registers, radiators, ovens, furnaces or other appliances with high operating temperatures.
- Do not use with extension cords. Use only the AC/DC adapter provided with this system. Use of other adapters may damage the camera and void your warranty.
- Only plug components into standard household voltage outlets (120V AC, 60 Hz).
- Do not place cords from the AC adapter, camera or receiver where they can be pinched or stepped on. Protect the cords by keeping them out of the way of children, pets and routine household traffic. Do not place heavy objects on power cords or cover cords with rugs or carpet.
- When cleaning, use a DRY, lint-free cloth. Unplug the camera, receiver, and AC adapter before cleaning. NEVER immerse any component in water and do not spray cleaners or solvents on the unit. Doing so may damage the unit or cause electrical shock.
- Unplug the AC adapter from the wall outlet when the system is not in use.
- Mishandling, alterations or modifications not approved by the manufacturer will void the warranty.

⚠CAUTION!

Connect this unit ONLY to other compatible units. Do not connect it to any other type of alarm or auxiliary device. Connecting anything else to this unit may damage it or prevent it from operating properly.

⚠CAUTION!

Do not paint over the camera.

⚠CAUTION!

This system uses public airwaves for wireless operation. The sound and video may be broadcast to and picked up by other 2.4 GHz receiving devices. Conversations and images from other rooms near the camera may be broadcast and picked up. To protect your privacy, always turn the camera off when not in use. JJC, Inc. shall not be liable for any misuse or use contrary to local, state, or federal laws.

FCC WARNING

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been tested and found to comply with the limits for a Class B digital device in accordance with Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) Re-orient the TV/radio antenna.
- 2) Relocate the Receiver away from the TV/radio receiver.
- 3) Plug the Receiver into a different wall outlet so that the Receiver is on a different branch circuit.
- 4) If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

The user may find the following booklet prepared by the Federal Communication Commission helpful: "How to Identify and Resolve TV Interference Problems." This booklet is available from the US Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

FCC NOTICE

The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the users authority to operate the equipment.
Linear radio controls provide a reliable communications link and fill an important need in portable wireless signaling. However, there are some limitations which must be observed. For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range. A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies. Changes or modifications to the device may void FCC compliance. Infrequently used radio links should be tested regularly to protect against undetected interference or fault.

Specifications

RECEIVER:

RECEIVING DISTANCE	Up to 300 Feet (Clear Line of Sight)
VIDEO OUT	1 Vp-p 75 Ohm
AUDIO OUT	1 Vp-p 600 Ohm
POWER SUPPLY	10VDC, 600 mA
OPERATING TEMPERATURE	7°F to 143°F (-15°C to 60°C)
DIMENSIONS	2.5" x 4" x 2"
WEIGHT	Approximately 1 Lb.

CAMERA:

IMAGE SENSOR	1/3" Color CMOS Image Sensor
RESOLUTION	330 Horizontal TV Lines
LENS	3.6MM (75° Wide Angle Lens)
POWER CONSUMPTION	10VDC, 600 mA
OPERATING TEMPERATURE	7°F to 143°F (-15°C to 60°C)
DIMENSIONS	3" x 4.5" x 2"
WEIGHT	Approximately 1 Lb.
BATTERY	Built-in rechargeable NI-MH battery

Parts Included with This System

- Camera with built-in transmitter
- Audio/Video Receiver
- 10V AC/DC Adapter for the Camera
- 10V AC/DC Adapter for the Receiver
- Audio/Video Cable
- Camera Stand

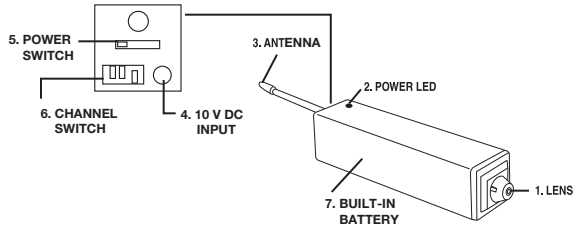
⚠WARNING!

This system comes with two AC/DC adapters. Use only the adapters that came with this system.

Wireless Color Monitoring System Parts

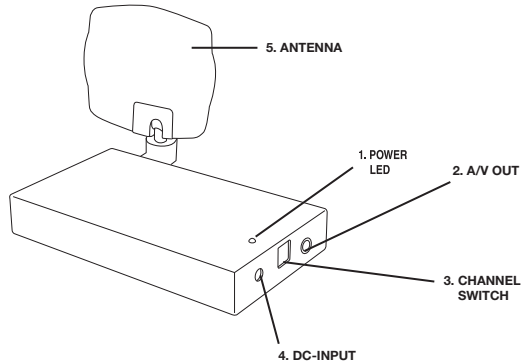
Parts of the Camera

1. Camera Lens
2. Power LED
3. Antenna
4. DC Input Jack
5. Power ON/OFF Switch
6. Channel Switch
7. Built-in Battery



Parts of the Receiver

1. Power LED
2. A/V Out
3. Channel Switch
4. DC Input Jack
5. Antenna



We are confident you will enjoy your new First Alert® Home Security System. If you have any questions that cannot be answered by reading this manual, please contact our Consumer Affairs Department at 1-800-226-9671.

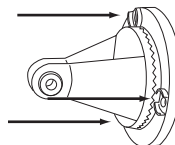
Installation

Installing Mounting Bracket (Camera Stand)

Tools you will need: • Pencil • Drill • Drill Bits • Phillips head screwdriver • Hammer

1. Select a mounting location. Use the mounting bracket as a guide and mark the screw holes with a pencil.
2. Drill 1/8" pilot holes over the center of each pencil mark.

For mounting on drywall or sheetrock, use the wall anchors provided. Gently tap the anchors into the pilot holes with a hammer until they are flush.

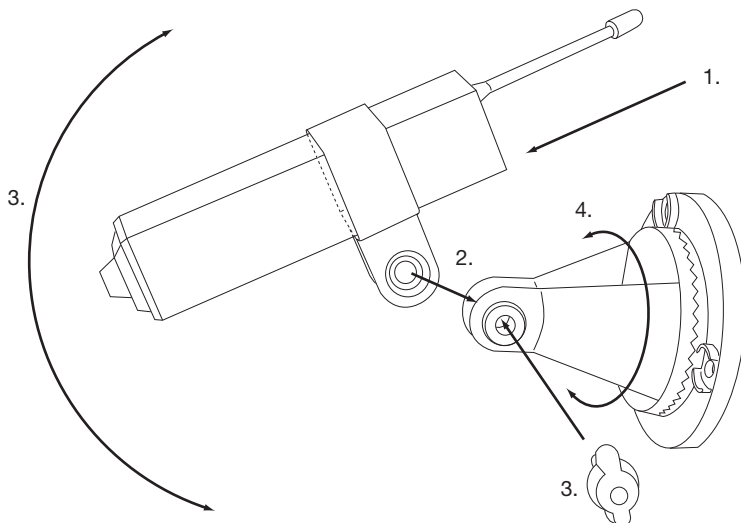


Attach Stand to Mounting Surface

3. Align the bracket over the holes or wall anchors and tighten the screws to secure the bracket to the wall or ceiling.

Installing and Aligning the Camera on the Mounting Bracket (Camera Stand)

1. Slide camera through bracket.
2. Line up mounting holes on the bracket and base.
3. Insert thumb screw, adjust camera to desired angle and tighten screw.
4. Pivot base to desired angle.



Installing the Wireless Color Monitoring System

To install the system, follow these steps:

Receiver:

1. Plug the 10V AC/DC adapter cord into the DC input jack on the back of the receiver.
2. Connect the audio/video cord to the audio/video output jack(s) on the back of the receiver. Connect the other end of the audio/video cord to the audio/video input jack on your TV or monitor.
3. Plug the 10V AC/DC adapter into a standard 120V AC outlet. The power indicator LED located on the back of the receiver should light.
4. The channel LED located on the front of the receiver will light to indicate the selected channel or channels in use.

Camera:

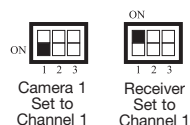
1. Plug the 10V AC/DC adapter cord into the DC input jack on the back of the camera.
2. Plug the 10V AC/DC adapter into a standard 120V AC outlet. Switch the camera ON. The power indicator LED located on the front of the camera should light.

System Set Up:

1. **Select the channel to be used on both the camera and receiver (Channel 1-3).**
NOTE: Make sure the camera and receiver are set to the same channel (1, 2, or 3).
2. **Set the selected channel** by gently pushing the dip-switch for that channel to the ON position on both the camera and the receiver.

To set both the camera and receiver on Channel 1:

- (a) Push the Channel 1 dip-switch located on the back of the camera and the bottom of the receiver to the ON position.
- (b) Make sure the remaining dip-switches are in the OFF position. In this case, channels 2 and 3 should be in the OFF position.

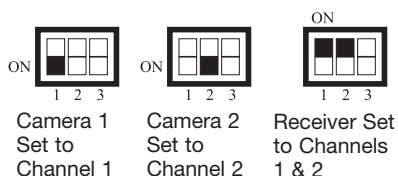


If more than one camera is to be installed and operated at the same time:

Simply follow steps a and b and set the dip-switches for the other channels on the camera and receiver to ON.

For example to operate two cameras:

set Camera 1 to Channel 1 (other channels off), set Camera 2 to Channel 2 (other channels off), and on the Receiver, set channels 1 and 2 to ON.

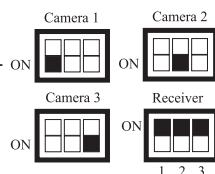


See "Camera and Receiver Setting Chart" below for more detailed instructions.

3. Position the camera antenna toward the receiver antenna. Rotate/adjust the antennas on both the camera and receiver for best performance.

Camera & Receiver Channel Setting Chart

1. This 2.4 GHz system can be connected with up to 3 channels. Set channels on the camera and receiver before starting the system.
2. Set camera and receiver channels by gently pushing the switches with an object such as a pen or pencil to the ON or OFF position. Use the illustrations as a guide. The switches are inset into the camera and receiver housings to avoid accidentally changing the channel settings.
3. The Auto Sequential Scanning feature automatically activates when more than one switch is set to ON.



Rotating the Antennas for Best Performance

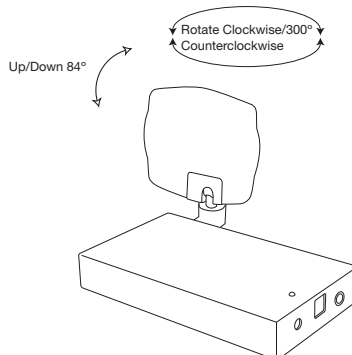
This system broadcasts its high-quality audio and video using directional antennas. The antennas can pivot and have limited rotation in either clockwise or counterclockwise directions to obtain the best signal and picture clarity.

See the instructions shown below to rotate the antennas. Rotating the antennas beyond the specified range will result in permanent damage to both antenna and the mechanical stop. The antenna will not rotate 360 degrees.

IMPORTANT!

Before you rotate the antenna, lift up the antenna first, and rotate the antenna clockwise/counterclockwise no more than one full turn.

In most situations, the flat pitted face of the antennas on both the camera and receiver should be facing each other. Since all rooms are different, additional adjusting of the antennas may be necessary to get optimal performance. If the camera and receiver are less than 10 feet apart, leave the antennas in the closed (down) position.



The Auto-Sequence Feature

The Wireless Audio/Video Monitoring System can be set up to monitor a series of rooms in a home or office. The receiver can connect up to three cameras on three different channels for both Audio/Video reception, and display them in auto sequence. The system has dip-switches for 3 channels to allow various monitoring options.

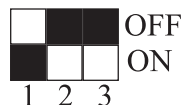
When the channel dip-switches are set in the "ON" position, that channel is active on the receiver and can be seen on the TV or monitor. Channel dip-switches in the "OFF" position are inactive and will not be shown on the TV or monitor.

The auto-sequence feature is activated when more than one channel is switched ON. The channels switched ON will display on the TV or monitor at three second intervals.

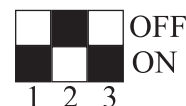
For example, if you have two cameras, one set to Channel 1 and the other set to channel 3, the dip-switch on the receiver must be set for both channels 1 and 3. Then camera one [CH1] and camera two [CH3] will start to display on TV/monitor in sequence at three seconds intervals. This interval time is preset by the factory and cannot be adjusted by the user.

To stop the auto-sequence function:

Slide the dip-switch of the channel(s) you do not want displayed to OFF on both that camera and the receiver. Channels in the OFF position will no longer be displayed.



Channel Dip-Switch
Diagram Channel 1 ON



Channel Dip-Switch
Diagram, Channels
1 and 3 ON

Troubleshooting Guide

If the Camera and/or Receiver...	You Should...
No Power	<ol style="list-style-type: none">1. Check that the power cord(s) is properly connected.2. Wrong AC/DC adapter is used. Check that the adapter labeled OUTPUT: 10V DC is connected to the camera, and the adapter labeled OUTPUT: 10V DC is connected to the receiver.
No sound or picture. Distorted sound or picture	<ol style="list-style-type: none">1. Check the channel switch settings on the camera(s) and receiver. Make sure the channels match on both units.2. Signal interference from a microwave oven. Check if a microwave oven is in use or located in the path between the camera and receiver. If so, turn it off or move it out of the path.3. Signal interference from other signal producing devices.<ol style="list-style-type: none">(a) Change the channel setting on both the camera and receiver.(b) Identify and eliminate the source of the interference.(c) Relocate the camera and/or receiver.4. Camera and receiver are too far apart. Relocate the camera closer to the receiver.5. Antenna is positioned improperly. Adjust the antenna on the camera and/or receiver.

1-Year Limited Warranty

Coverage: JJ Communications, Inc. ("JJC") the licensee of **First Alert®** brand products, warrants that for a period of 1 year from the date of purchase, this product will be free from defects in material and workmanship. JJC, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty.

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. JJC dealers, service centers, or retail stores selling JJC products do not have the right to alter, modify or any way change the terms and conditions of this warranty.

This warranty does not cover normal wear of parts or damage resulting from any of the following: negligent use or misuse of the product, use on improper voltage or current, use contrary to the operating instructions, disassembly, repair or alteration by anyone other than JJC or an authorized service center. Further, the warranty does not cover acts of God, such as fire, flood, hurricanes and tornadoes or any batteries that are included with this unit.

JJC shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration for to the duration of the above warranty. Some states, provinces, or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state, or province to province.

How to Obtain Warranty Service

Service: If service is required, do not return the product to your retailer. In order to obtain warranty service, contact the Consumer Affairs Division at 1-800-226-9671, 9:30 AM to 5:00 PM, Eastern Standard Time, Monday through Friday. To assist in serving you, please have the model number and date of purchase available when calling.

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