



Wireless Imaging, LLC

KwikPeek™ 2.4GHz Wireless Camera and Receiver Installation and User Guide



Thank you for purchasing the new 2.4GHz Wireless Camera system from Wireless Imaging, LLC. For best results we recommend that you read this entire guide before installing and operating your new wireless camera and receiver.

This guide contains a list of parts and specifications, installation and operation instructions, and troubleshooting information. Before beginning installations, please read this entire guide and confirm that you have received all parts listed in the parts list.

Table of Contents

FCC Information

Parts list

- Camera
- Receiver

Basic specifications and features

Installation

- Camera
- Receiver

Operation

Troubleshooting

Contact information

Warranty Information

FCC Information -

This device complies with Part 15 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.

FCC IDs: OJM-OTX-XXX-KFMSA, Q74ZT-803T

Important Note:

Wireless Imaging LLC makes no representations concerning the legality of certain product applications such as the making, recording, or transmitting of video and/or audio signals of others without their knowledge and/or consent. We encourage everyone to check and comply with all applicable federal, state, and local laws and regulations before engaging in any type of surveillance or any transmission of radio frequencies.



Parts list

Camera

1. One KwikPeek™ with three AA batteries installed.
2. One wall transformer for household current operation; 120VAC in, +8VDC, 200mA out.
3. One 418MHz, radio frequency (RF), handheld remote control key fob (CR2032 3V Lithium Battery Included).
4. Two 3M Dual Lock™ fasteners. One is mounted on the back cover of the camera dome enclosure.



1



2



3



4

Note: To view the images transmitted by your KwikPeek the receiver must be connected to a television monitor or other compatible device (monitor not included).

Receiver

1. One ZT-708 wireless video receiver;
2.4GHz, four-channel.
2. One wall transformer (AC adaptor) for household current operation;
120VAC in, +8VDC, 200mA out.
3. One antenna for ZT-708 receiver.
4. One piece A/V (red audio/yellow video) cable.



1



2



3



4

Camera Specifications:

<u>Item</u>	<u>Unit</u>	<u>Value</u>
Imaging Sensor	Inch	1/3-inch CMOS
Total Pixels	Pixels	510 x 492 (NTSC)
Horizontal Resolution	TV Lines	380
View Angle	Degrees	62
Minimum Illumination	Lux	1.5
Video Gain Control	-----	Automatic
Frequency	MHz	ISM 2,400 – 2,483 4CH*
Transmission Power	mW	2 FCC
Modulation Mode	-----	FM
Bandwidth	MHz	18
Power Supply	Volts(DC)	+8
Current Consumption	mA	80(Max)
Operating Temperature	Degrees F	-4 ~ +122
Storage Temperature	Degrees F	-40 ~ +185
Operating Humidity	RH	85%
Unobstructed Range	Feet	330(Min)
Dimensions(L x W x H)	Inches	4.6" x 4.6" x 3"
Weight	Ounce	5
FCC IDs	-	OJM-OTX-XXX-KFMSA, Q74ZT-803T
US Patent	#	6,879,255 + Another Pending

Receiver Specifications:

<u>Item</u>	<u>Unit</u>	<u>Value</u>
Receiving Frequency	MHz	ISM 2,400 ~ 2.483 4CH*
Intermediate Frequency	MHz	480
Channel 1	MHz	2,414
Channel 2	MHz	2,432
Channel 3	MHz	2,450
Channel 4	MHz	2,468
Demodulation Mode	-----	FM
Antenna	-----	50ohm SMA
Video Output	Ohms	75/1V p-p
Audio Output	Ohms	600/1V p-p
Power Supply	Volts(DC)	+8V
Consumption Current	mA	170
Operating Temperature	Degrees	-4 ~ +122
Operating Humidity	RH	85%
Dimensions (L x W x H)	Inches	3.03 x 2.68 x .63
Weight	Grams	128

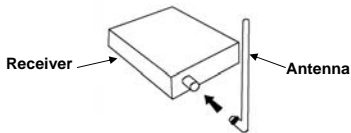
Installation Instructions

For best reception:

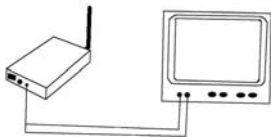
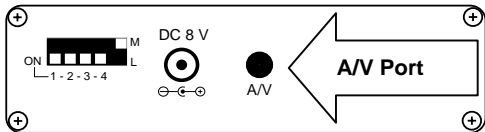
- Mount the camera within 150 feet of the monitor.
- Avoid obstructions between the camera and the receiver.
- If multiple cameras are used, mount them at least 2 meters (7 feet) apart to avoid interference.
- Avoid placing the receiver antenna close to copper and/or iron objects, or walkie-talkies.

To install Receiver:

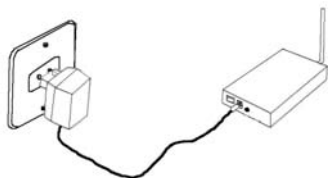
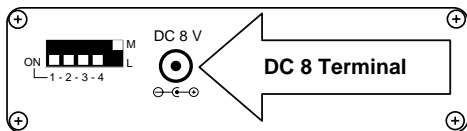
- Remove the receiver from the package and insert the antenna into the antenna connector on the receiver and tighten the collar by turning it clockwise.



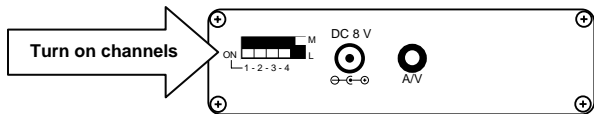
- Insert A/V cable into A/V port on the back of the Receiver. Insert the other end into audio (red) and video (yellow) input jack of your monitor or TV.



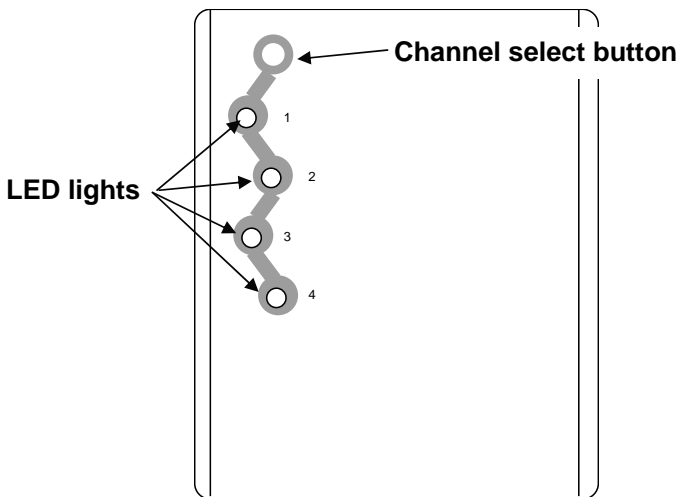
- Plug the AC/DC adapter into a 120VAC (household electrical receptacle). Insert the other end of the adaptor wire into the DC 8V terminal on the back of the Receiver.



- Use the dip switch setting tool to move the switches 1 – 4 to ON position and turn on the desired channels (one camera per channel).



- When powered up, the red LED on the Receiver will indicate the channel selected. (The channel selected on the Receiver must match the number next to “No.” on the back of the Camera inside the dome). Use the SET button on the receiver to select/view the desired channel/camera. See instructions under Camera Installation.



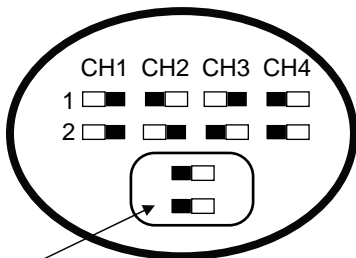
- Place the receiver near – but not *on* – the monitor.
- Turn on the monitor or television to the correct video channel by pressing the TV/VIDEO button on the remote control of your television or monitor. If you do not have a remote control for your television or monitor, press the TV/VIDEO button on your television set or monitor.

To install Camera:

- Hold the base of the dome enclosure in one hand (with the dome facing toward you) and turn the black collar counter-clockwise to remove the dome cover.

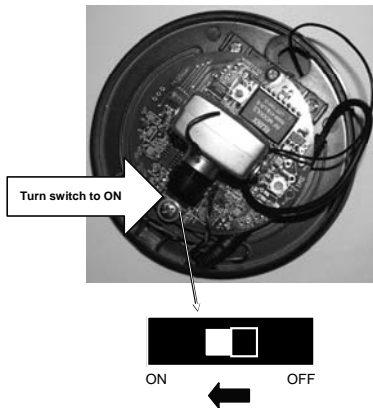


- Four cameras can be used with every receiver at one time (one per channel). Each camera is equipped with two slide switches located on the back side of the camera. Assign one channel to each camera by configuring the two slide switches according to the guide on the back of the camera.



Slide switches

- Slide the switch in front of the Camera in the dome enclosure to the ON position to turn on the KwikPeek camera.



- Replace the clear dome and tighten the black collar by turning it in a clockwise direction, keeping the window in the dome aligned so the camera can see through it. (Do not over tighten)
- Place the Camera so it is pointing to the area you want to monitor. (See instructions under Permanent Mounting for permanent camera mounting)
- Push the correct button for the particular camera on the handheld remote (S1 – S4) for three seconds. The camera will be turned on and will start to transmit the image to your television or monitor.

NOTE: The camera will not send images to the receiver until the button on the handheld transmitter is pressed for three (3) seconds.

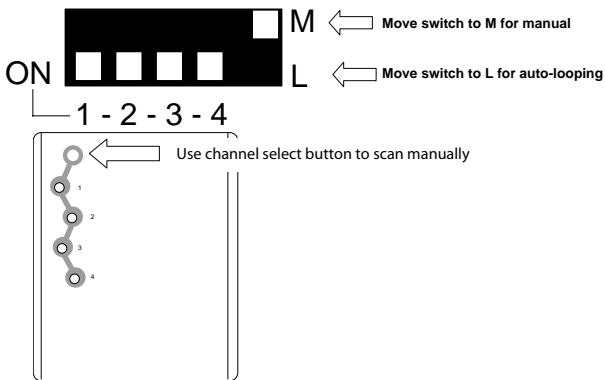
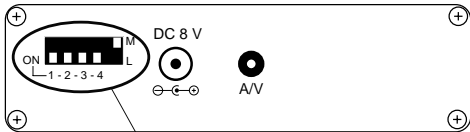
- The camera will automatically shut off to conserve battery power. The duration of the transmission is adjustable from 15 seconds to 5 minutes (see Transmission durations).
- If necessary you can adjust the focus of the Camera by rotating the lens on the Camera.

Channel scanning

You may watch the video sent by up to four cameras via one receiver by changing channels manually or setting the receiver to scan automatically. In the auto channel scan mode channels will be displayed automatically one by one in five-second intervals.

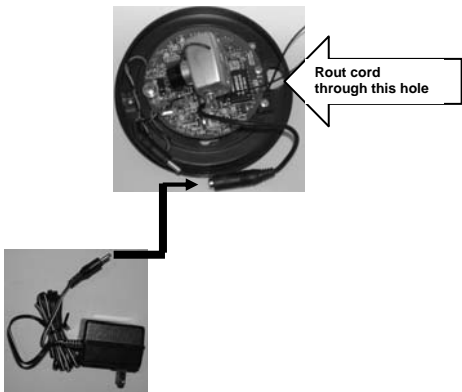
NOTE: To be able to use the auto-looping feature, the cameras need to be powered by the AC adaptor power supply (see “Alternate configuration”) or turned on with the keyfob transmitter.

- To scan manually, move the switch on the back of the receiver to “M”, then use the channel select button on the receiver to scan channels.
- To allow the system scan automatically, move the switch on the back of the receiver to “L” for looping.



Alternate configuration

- The camera can operate continuously when connected to the power supply.
- To use this configuration, remove the KwikPeek Camera dome (for cameras permanently installed, remove the camera first). Disconnect the camera cord from the battery power cord. The remote control is not operational in this configuration. Route the power cord through the provided hole on the base plate and connect it to the camera cord. Insert the power supply cord into the camera cord. Re-install the dome. **The power supply adapter is for indoor use only! *****



Important Notes:

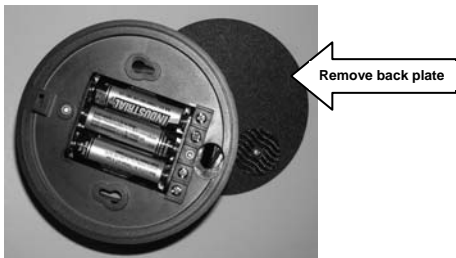
- The KwikPeek camera housing is not weather proof, but it is weather resistant. Therefore, we recommend that you shelter the unit when installing outdoors.
- You must remove the KwikPeek's dome in order to utilize the audio feature.

Warning! Do not use the KwikPeek camera outside when it is connected to an AC outlet!

Instructions for Battery Replacement

Camera

- Using a Phillips head screwdriver, remove the two screws and remove the black plate located on the back of the Camera dome enclosure.
- Replace the batteries in the battery compartment making sure to observe polarity.
- Replace cover and screws. (Do not over-tighten).

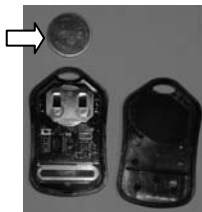


Handheld remote

- With the blade of a screw driver carefully separate the two parts of the remote.
- Slide out the old battery and install a new battery noting the polarity.
- Assemble the two halves of the remote.

Caution!

Do not dispose of the lithium battery in the garbage. Lithium batteries must be recycled.



KwikPeek Camera and Receiver Operation Topics

Read the following topics for routine operation:

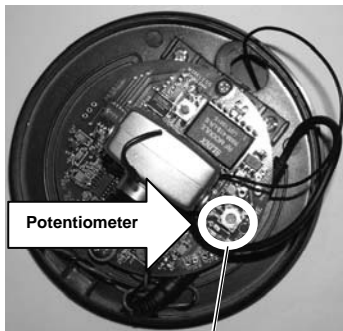
Turning the KwikPeek ON

- Make sure the camera's main power switch is on.
- To send images from the KwikPeek Camera, press and hold the transmitter's ON button (S1 – S4) for three seconds.

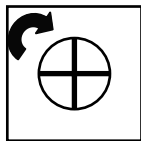
Transmission durations

The camera transmits an image from 15 seconds up to a maximum of 5 minutes, depending on how the potentiometer is set. Turn the potentiometer clockwise to increase the time. The potentiometer is mounted on the circuit board to the right of the camera.

When the transmission is finished, the camera shuts off and the remote control receiver goes into low-power mode to conserve battery power.



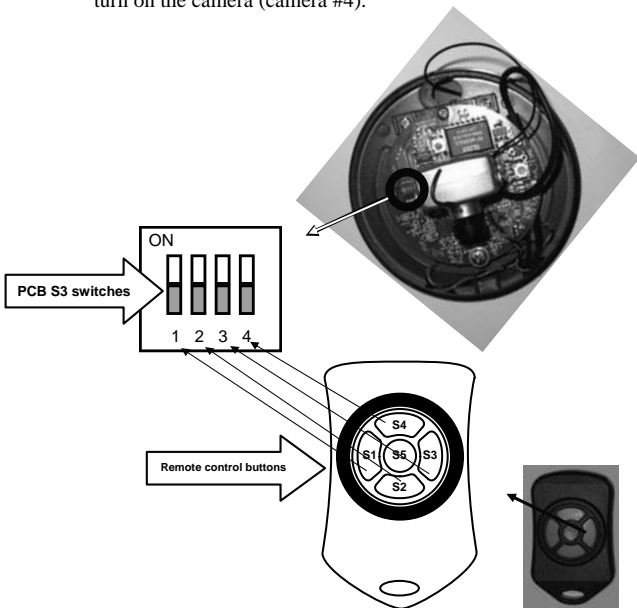
Potentiometer



Turn clockwise to increase time

A total of four cameras may be operated by one handheld remote control. The dip switch S3 on the camera circuit board has four positions. To control four cameras by the same handheld remote follow below instructions:

- Turn ON, the S3 switch 1 to allow handheld remote button S1 to turn on the camera (camera #1).
- Turn ON, the S3 switch 2 to allow handheld remote button S2 to turn on the camera (camera #2).
- Turn ON, the S3 switch 3 to allow handheld remote button S3 to turn on the camera (camera #3).
- Turn ON, the S3 switch 4 to allow handheld remote button S4 to turn on the camera (camera #4).

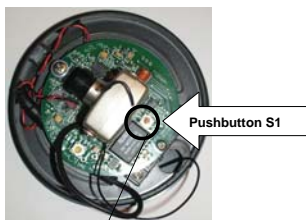


If only one camera is in use, you may turn all the switches to ON position; in that case any of the four buttons on the remote control (S1 – S4) will turn on the camera.

The S5 button (the middle button) on the remote control turns off the cameras; this function is not changeable.

Each handheld remote is preset to match the address of the receiver by the manufacturer. If a new remote is ordered (if the original remote is broken or lost), the new remote may be reset to work with the receiver by following the below procedure:

1. Remove the camera dome cover and turn on the power switch.
2. On the circuit board press and hold pushbutton S1 (see illustration).
3. LED D8 on the circuit board starts to blink, indicating the receiver decoder is in “Learn” mode.
4. Press and release any of the four buttons on the remote to initiate a transmission.
5. Release the pushbutton S1 on the circuit board; the LED D8 stops blinking. The address on the receiver and remote transmitter should now match.
6. Turn off the power switch and install the dome cover.
7. The address will be remembered by the circuit when power is turned off.



Press and hold pushbutton S1



After installing the Receiver and the Camera, you are ready to transmit an image.

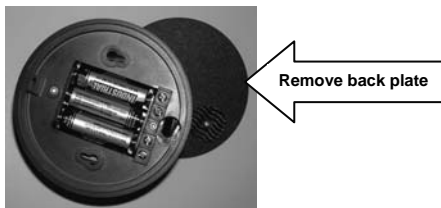
- Turn on your monitor or TV.
- Using the handheld transmitter, press and hold the button (S1 – S4) for the corresponding camera for three seconds. The camera is turned on.
- Press the TV/Video button on your monitor or TV until you see the camera's transmitted image on your monitor or TV.

Camera Mounting

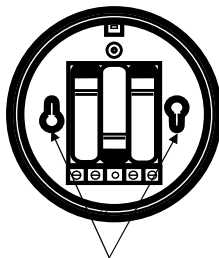
- Screw the 3M Dual Lock™ fastener into a desired location.
- Mate the fastener on the back of the Camera with the newly attached Dual Lock fastener and press firmly locking the Camera in position.



- You may also install the camera permanently in place using the hardware included: (Remove this line and the following image)
 - Remove the back plate by removing the two retaining screws (see instructions for battery replacement procedure).



- Mark up the wall for installation of the wall screws to match the screw holes on the back of the camera assembly.



Screw holes

- Install the screws and install the camera assembly and turn it counter clockwise to lock in place.

Battery usage

The three AA alkaline batteries should last for more than 2 months if the camera is turned on for 15-30 seconds per day.

Troubleshooting:

- If the LED does not light up on the receiver, check the power connections for the +8VDC power adapter.
- If there is no image on the monitor/TV or if the image is not clear:
 - Be sure the KwikPeek Camera power switch is ON and the batteries are good in the KwikPeek Camera and the handheld transmitter.
 - Be sure the KwikPeek Camera is within range of the receiver.
 - Be sure there are no obstacles between the KwikPeek Camera and the Receiver.
 - Be sure the camera transmitter and receiver channels match. If they do not, select 1, 2, 3, or 4 on the receiver to match the switch settings on the back of the camera.

Note: Two transmitters/cameras of the same frequency cannot transmit at the same time; they will cause interference.

- Be sure the antenna of the receiver is not too close to copper, iron, or walkie-talkies.
- Be sure that the receiver's video output is attached to the TV/monitor's video input jack (not the audio input jack).
- Move the KwikPeek camera to an unobstructed location. Metal and certain other obstacles may significantly reduce performance.
- Ensure that the correct ON button of the handheld transmitter was held for at least 3 seconds.
- If there is still no image on the TV:
 - Some TVs have multiple auxiliary stations. Remove the dome cover from the camera, switch the camera off, and unplug the camera from the circuit.
 - Plug the camera directly into an A/C outlet using the power adapter provided. (This will cause the camera to operate continuously)

-
- Flip through the auxiliary channels on the TV until an image appears.
 - Call our toll free number for assistance: 1-800-676-3402
 - If the image appears fuzzy, move the receiver further away from the TV/monitor.

To record audio/video on a standard VCR:

- Simply plug the KwikPeek receiver into the VCR's audio/video inputs. Connect the VCR's audio/video outputs to the TV's audio/video inputs. Change the stations on the VCR and TV to auxiliary. Start recording.

Specifications are typical; individual units may vary. Specifications are subject to change and improvement without notice.

Remote Controlled Wireless Camera Applications

- Baby Monitor.
- Back Yard Monitor.
- Front/Back Door Monitor.
- Driveway Monitor and Home Surveillance.
- Pet Monitor.
- Small Business Surveillance and Security.
- Any other legal activity that requires a “KwikPeek”

Contact Information:

For customer service and ordering information, please contact Wireless Imaging, LLC.

Wireless Imaging, LLC
1461 Sherman Lake Road
Lino Lakes, MN 55038

Toll Free: 1-800-676-3402

Fax: (651) 340-1382

support@wirelessimaging.com

<http://www.wirelessimaging.com>

<http://www.wirelessimaging.com/faq.html>

Limited One-Year Warranty

This product is warranted by Wireless Imaging, LLC against manufacturing defects in material and workmanship under normal use for one (1) year from the date of purchase. EXCEPT AS PROVIDED HEREIN, Wireless Imaging, LLC MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, Wireless Imaging LLC, SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. In the event of a product defect during the warranty period, contact Wireless Imaging LLC for specific return instructions. Wireless Imaging LLC will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts or labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products on which a refund is made become the property of Wireless Imaging LLC. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period. This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a Wireless Imaging LLC Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

© 2006 Wireless Imaging, LLC. All Rights Reserved.

