

5.8GHz WIRELESS CAMERA SYSTEM

USER MANUAL
(PLEASE READ BEFORE USE)



KW5221/5222/5221F

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4. Technical specifications

Camera transmitter

1. Channel Frequency
CH1 5740MHz CH2 5780MHz
CH3 5820MHz CH4 5860MHz
2. 1/3 " CCD color image sensor
3. Transmit Frequency: 5725~5875MHz (4 channels)
4. Modulation: FM
5. Channel design: PLL frequency synthesizes
6. Antenna: omni-directional antenna
7. Power consumption (max): 1.5 Watts
8. Power supply (optional): 230VAC to 12VDC, 500mA or 120VAC to 12VDC, 500mA

Receiver

1. Receiver Frequency: 5725~5875MHz (4 channels)
2. Receiver sensitivity: -80dBm
3. Noise Figure: 3.5dB
4. Channel design: PLL frequency synthesizes
5. AV output port:: one RCA or SCART with cable
6. Antenna: hide omni-directional antenna
7. Power supply(optional): 230VAC to 12 VDC, 500mA
or 120VAC to 12VDC 500mA
8. Power consumption (max): 2.2 Watts

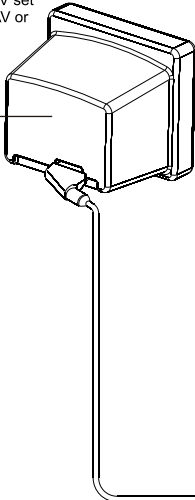
Rereiver : KW5800

Specifications

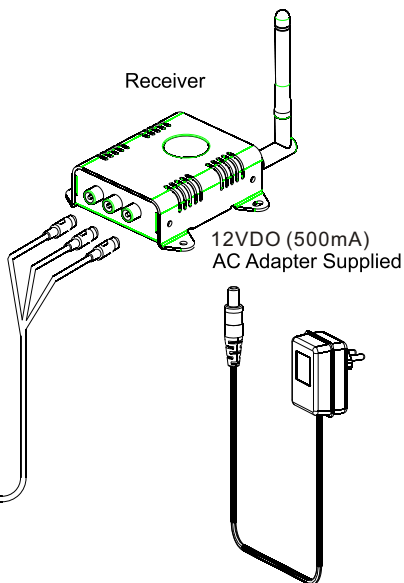
Item	KW5800
Input signal Level Range	-85 ~ -10dBm
Video	
Output Signal Level	1V p-p, 75Ω
Frequency Response	±0.5db, max, 50Hz ~ 5.5MHz
S/N Ratio (100KHz, 1Vp-p Sine Wave)	40dB, min.
Audio	
Output Frequency Range	50hz ~ 20KHz
Output Signal Level (Modulation Signal: 50Hz ~ 15KHz Sine Wave)	3V p-p, typ. (+/-0.2Volt)
Audio Frequency Response	50Hz ~ 15KHz (-3dB Bandwidth)
S/N Ratio (50Hz ~ 15KHz)	50dB, typ. (+/-3dB)

Receiver :

AV output Cable with SCART
To the scart socket of the TV set
(note:switch the TV set to AV or
video-input mode)



Receiver



3. Trouble shooting

- 1.No image or sound
 - a. Make sure the power supply switches on the back of the receiver are in the "ON" position.
 - b. Check correct position of all the connectors and plugs.
 - c. Make sure the transmitter and the receiver are on the same channel .
- 2.Interruptions in image and sound
 - a. Make sure antenna of the transmitter and the receiver are in correct alignment.
 - b. Adjust the transmitter and the receiver to closer position.
 - c. If a microwave oven or electro-magnetic oven is in use, turn it off and try the product again.
 - d. Use other channels for the transmitter and the receiver.

1. Important-Safety Precautions

This device of which 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.
- To prevent fire or shock hazard, do not expose this device to rain or moisture. Do not use near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
 - To avoid electrical shock, do not open this device.
 - This device should be operated to use only the power supply included with it or provided as an accessory.
 - Do not overload wall outlets and extension cords as this can result in the risk of fire or electrical shock.
 - Do not attempt to service this device yourself. Refer servicing to qualified personnel only.

Caution:

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

Notice : The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

2. THE 5.8GHz WIRELESS CAMERA SYSTEM

2-1 Package and accessories



1. One camera
2. One Antenna
3. One Mounting Bracket
4. One Antenna
5. One manual in English

2-2 Control Elements, Transmitter

Front View Camera

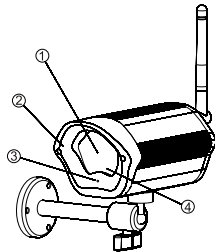


Fig 1

Rear View Camera

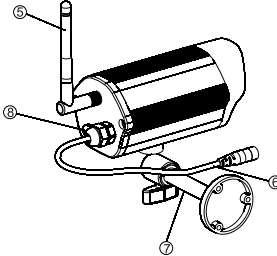


Fig 2

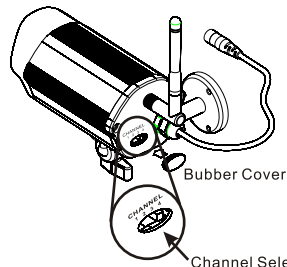
1. 1/3 " CCD color sensor
2. Rainproof solid aluminum housing
3. IR Sensor
4. 8 IR LEDS
5. 2.4GHz Antenna (2dBi)
6. 12VDC power connector
7. Camera Mounting Bracket
8. Channel selection SW (switch) (See Fig3)

Select the channel by sliding the slide switch to the channel numb

Note: Open the rubber cover to slide channel selection SW, then replace and tighten the cover

Channel Frequency

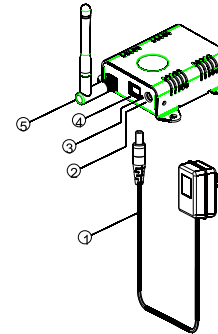
CH1 5740MHz
CH2 5780MHz
CH3 5820MHz
CH4 5860MHz



Channel Selection SW

2-3. Control Element, Receiver

Front View of Receiver



Rear View of Receiver

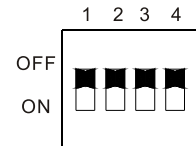
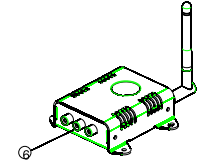


Fig5. CHANNEL SELECT DIP SW

1. AV output cable with RCA or SCART.
2. 12VDC power adapter jack
3. Power LED
4. Channel selection DIP SW (as shown in Fig5)

Select the channel by setting the channel DIP SW to the ON position.

DIP SW Function:

DIP SWS1-4: set one channel
5. Antenna connector
6. AV output

3.Selectable Channels:

	DIP 1	DIP 2	DIP 3	DIP 4
CH 1	ON	ON	ON	OFF
CH 3	ON	OFF	ON	OFF
CH 5	ON	ON	OFF	OFF
CH 7	ON	OFF	OFF	OFF

5.8GHz Wireless Multi - Receiver



5.8GHz Wireless Multi - Receiver

KW5301 MANUAL

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8. Specifications

Receiving Frequency Band	5740~5860GHz
Input Signal Level Range	-85dBm ~-10dBm
Antenna Connector	SMA female connector
Channel Input Gain Control Level	+15~-30 dB adj.
Noise Figure	3dB
Video Output	1V p-p @ 75 ohm
Output Port	4 BNC female connector
Power connector (DC Jack)	5.5Ø2.1
Power Supply	12VDC/2A
Dimension	216mm×183mm×46mm
Weight	1420 g
Operating temperature	0°C~50°C

All specification subject to change without notice

6. Orienting Device for Optimum Performance

This device should be placed on a flat, stable surface to prevent damage to it from falling.

- Since all homes are different for optimum reception, additional slight rotate antenna may be necessary.
- For optimum performance you maybe rotate the channel input gain control on the device individually when you use the device.

7. Troubleshooting, Care and maintenance

Please read this owner's manual carefully and follow the steps described in it. If you still have difficulties, consult the following table. It will guide you though the most common problems and their solutions

Problem	Possible solutions
No picture	<ul style="list-style-type: none">■ Check all cable connections.■ Make sure power plugs are pushed all the way in.■ Check power switches on the digital color quad process or or digital video recorder or monitor.■ Check the power on/off switches on the camera and the device
Interference: Noisy picture	<ul style="list-style-type: none">■ Adjust antenna orientation of camera and the device.■ Adjust the channel input gain control of the device.■ If using a microwave oven, turn it off.■ Remove microwave oven from path between camera and the device.

1. Important-Safety Precautions

- To prevent fire or shock hazard, do not expose this device to rain or moisture.
- To avoid electrical shock, do not open this device.
- This device should be operated to use only the power supply included with it or provided as an accessory.
- Do not overload wall outlets
- Do not attempt to service this device yourself. Refer servicing to qualified personnel only.

Note:

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 distance between the equipment and receiver.
- Connect the equipment into a different circuit outlet from the receiver's.
- Consult with the dealer or an experienced radio/TV technician for help.

Cautions:

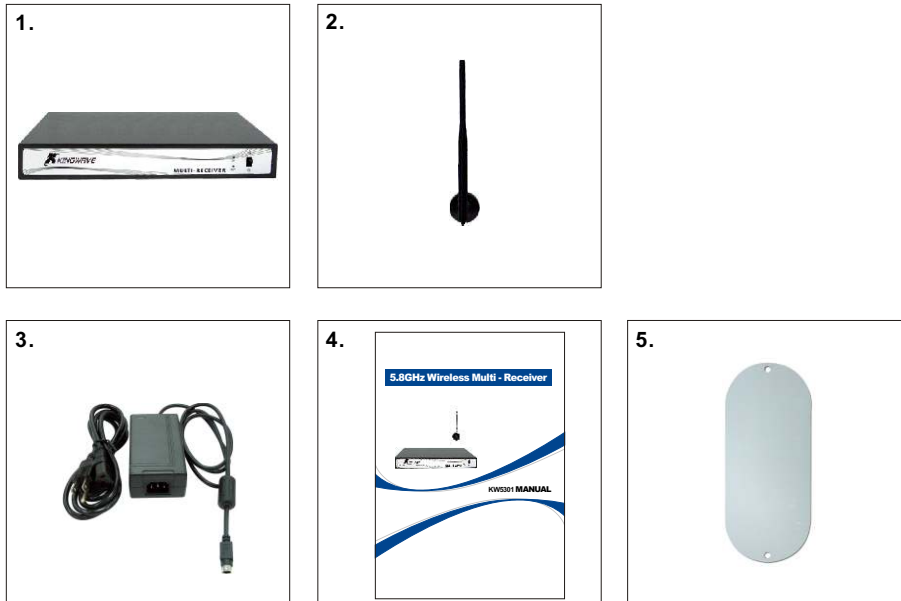
1. Screw 5.8GHz antenna to the antenna socket at the rear of the camera first before plug in the power cord.
2. Changes or modifications are not expressly permitted.
3. Put the movable antenna as high as possible for best performance.

Notice : The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

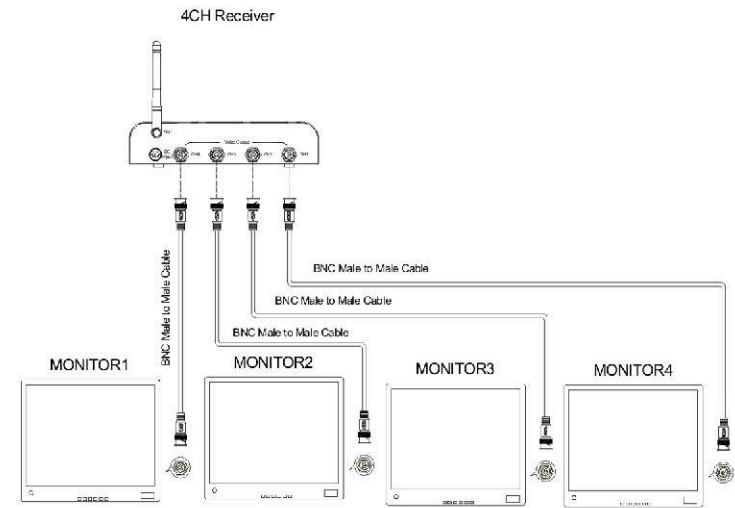
3. Checking Contents of Box

Make sure that all of the items shown as below are included with your 5.8 GHz Wireless Multi-Receiver System. If something is missing, please contact your dealer as soon as possible.



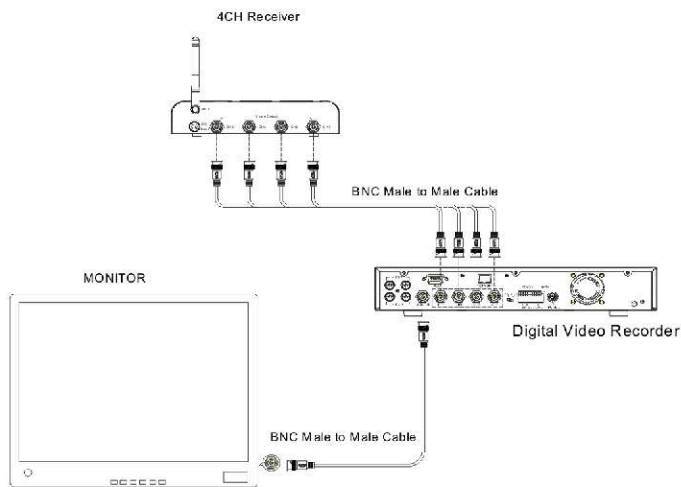
- 1. 4 Channels Multi-Receiver———x1
- 2. 2.4GHz Wireless dipole Antenna——X1
- 3. Power Adapter———x1
- 4. Manual In English———x1
- 5. Metal Sheet for magnetic antenna

■ Operation With 4 Monitors



Be sure to set the power switch on the device and monitors to the off position before processor with the following steps

■ Operation With Digital Video Recorder and Monitor

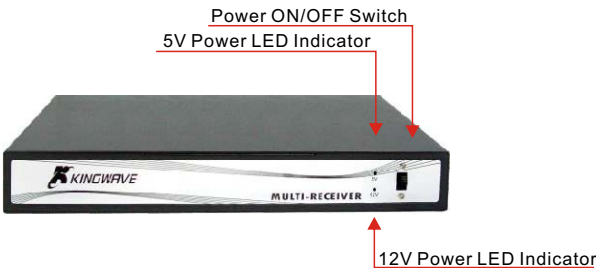


Be sure to set the power switch on the device and Digital Video Recorder and monitor to the off position before processor with the follow steps

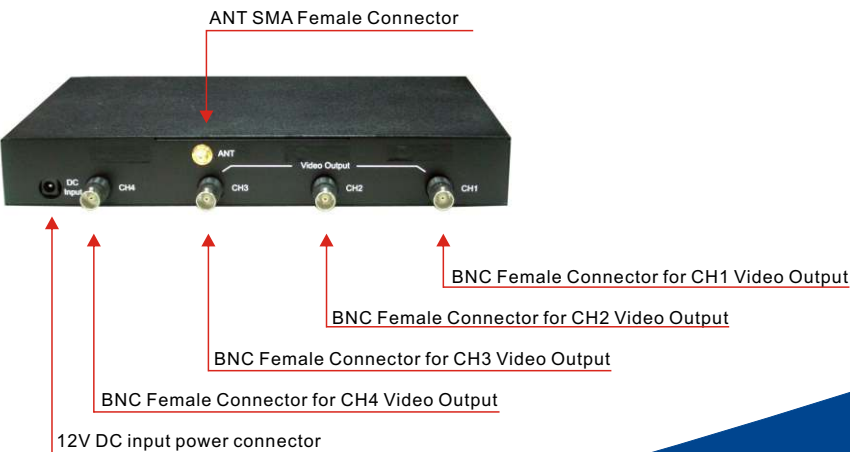
4. Panel Controls and Features

The following illustrations show the names of each component,button and switch connectors on the receiver.

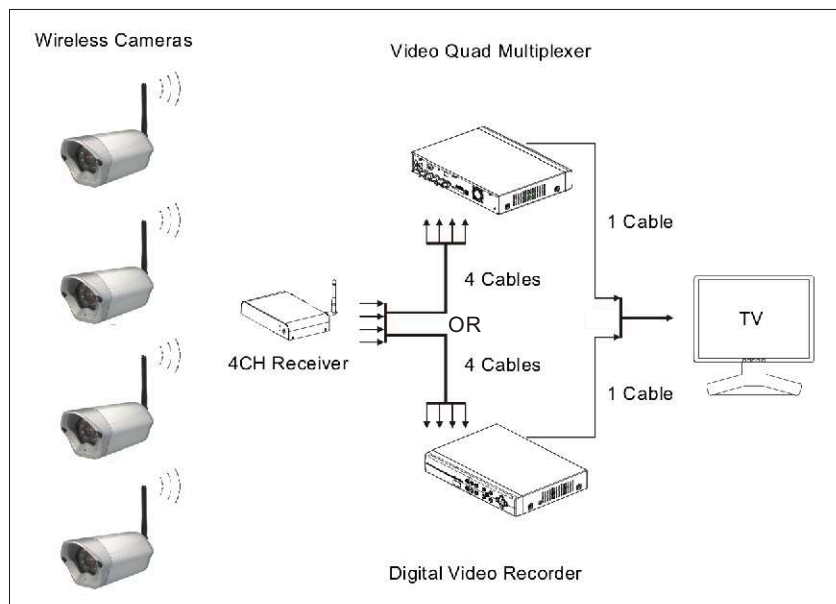
FRONT VIEW FOR THE MULTI-RECEIVER



REAR VIEW FOR THE MULTI-RECEIVE



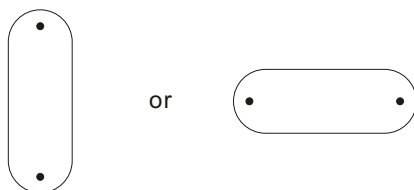
5.Installation of the system



This system is suggested to match following equipment:

- Wireless Cameras.
- Digital Color Quad Processor
- Digital Video Recorder.

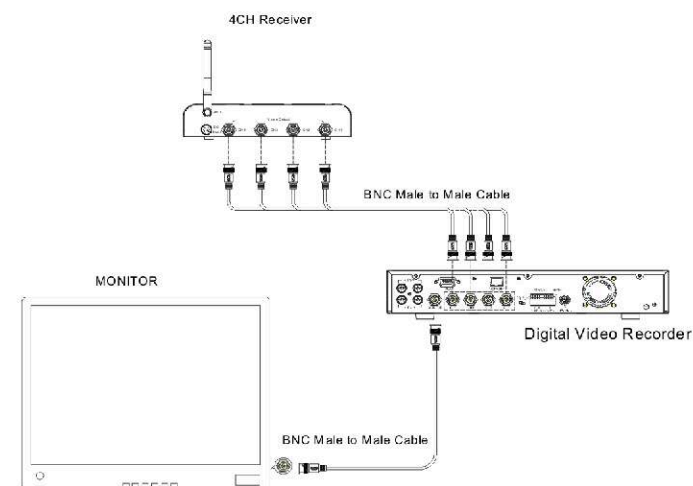
5. Install the metal sheet for magnetic antenna



- 1.Put the antenna as high as possible. Higher than body tall is better.
- 2.Fixed the metal sheet on the best performance position.
- 3.Put antenna on the metal sheet and adjust for best performance.

Make sure the POWER switch is on the 『OFF』 position before connection

■ Operation With Digital Color Quad Processor and Monitor



Be sure to set the power switch on the device and digital color quad processor and monitor to the off position before processor with the follow steps