

2.4GHz Wireless Video Intercom Doorbell

Instruction Manual

Safety Precaution for 2.4GHz Wireless Video Intercom Doorbell:

Preventing fire or shock hazard:

Please keep away from children, avoid moisture or any wet environment, such as rain or wet surfaces or bathtub or washbowl or sink or laundry tub. Avoid using this product close to a swimming pool or in basement.

Caution:

For proper warranty and compliance and ability to use the product properly, please make sure that no changes or modification are made to the product.

Note:

This equipment has been tested and found to comply with the limits for 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. The equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, 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 off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Redirect or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Plug the equipment into an outlet on a different circuit from that to which the receiver is plugged into.
- Consult with the dealer or an experienced radio/TV technician for assistance.

2.4GHz Wireless System Introduction:

General Instruction:

Your unit provides quality video and audio in B/W up to 300 feet utilizing the latest wireless communication technology. It avoids the crowded 900 MHz / 1.2 GHz width used by various Electronic Manufacturers in this wireless category. This FCC approved your unit utilizes FM signal modulation to deliver high-quality video and audio. It enhances its quality by utilizing the state-of-the-art circular polarized high gain bi-directional receiving/transmitting antennas. This causes less interruption from unwanted signals and delivers high-quality video and audio.

Maximum Performance:

1. Flat and horizontal surface should be used for preventing this product to fall or tilt.
2. For quality video/audio, the maximum transmission range is 300 feet. All obstacles from TV, other wireless products and steel structures should be avoided between camera and receiver.
3. For ideal video and audio quality, please ensure that the flat face of both antennas are facing each other. These antennas have been designed to point and rotate in any direction to create and deliver quality video and audio.
4. Avoid directing the camera at light fixtures or extreme sunlight as it will interfere with providing a quality image.
5. Always keep lens clean to get quality video.
6. The camera provided is not waterproof. Avoid using the camera in wet or humid conditions as it can damage the camera as well cause electrical shock.

Features:

1. No need to set any cables, users only need to insert the plug at the end of the supplied 1200mA 12V AC adaptor into the DC IN jack at the rear of the indoor receiver and plug the AC adaptor into AC outlet. Then fix the doorway camera on the outdoor proper location.
2. When visitors come and press the doorbell button on the doorway camera, the power of the indoor receiver will turn on automatically. Host can hear the doorbell sound ---“DINGDONG” and at the same time the host can see the image of the visitors on the screen and hear the visitors’ voice. If the host need to talk with visitors, simply press down the TALK button on the indoor receiver so that the visitors can hear the host’s voice.
3. When you press down the CAMERA button on the indoor receiver, the power of the doorway camera will be automatically turned on for host to observe the scene of the doorway. After 20 seconds, both indoor receiver and doorway camera will automatically turn off.
4. Your unit can also be used as wireless surveillance system except for its wireless video intercom doorbell function. You can connect up to 3 extra wireless cameras (Model No: WOS-815, which you need additional buy from our company). You can put these 3 wireless cameras on three different places (such as baby room and carport, etc.) and make use of the indoor receiver to monitor the image and sound of the above three places.
5. When it is used as wireless surveillance system, while visitors come and press the doorbell button on the doorway camera, the indoor receiver (monitor) will emit the doorbell sound --- “DINGDONG” and the screen will automatically turn to the image and sound of the visitors. At this moment, the host and visitors can talk to each other at once. Before the visitors leave, if there is no sound at both sides, after 3 seconds, the indoor receiver (monitor) will automatically resume showing the scenes monitored by the wireless cameras.
6. The installation position of indoor receiver can be changed easily according to host’s need, which is very convenient for usage.
7. Your unit supports one doorway camera connected to several indoor receivers, it is much more convenient for users to put several indoor receivers separately at different places of home.
8. Under the normal usage situation, the batteries of doorway camera can work over 6 months. When the LOW indicator flashes, replace the batteries in time to avoid any effect on usage although it can still continue to work for a period of time after the LOW indicator lights.
9. The IR LEDs on the doorway camera will automatically turn on when it is dark at the doorway to ensure viewing of the scenes within 2 meters.
10. When it is used as wireless surveillance system, if you connect extra wireless color cameras (Model No.: WOS-815C), you can connect the A/V Output of the indoor receiver to the A/V Input of a color TV so that you can view color images.
11. The signal transmission distance without encumbrance is over 300 feet (100 meters).

Installation:**1. Indoor Receiver**

You may install the indoor receiver at any places that you want to know visitors’ coming (such as bedroom, sitting room or dining-room, etc.). While installation, simply plug the supplied AC adaptor for the indoor receiver into the AC outlet, then insert the plug at the end of the AC adaptor into the DC jack at the rear of the indoor receiver, pull out the rod antenna for intercom, make the flat side of the 2.4GHz antenna face to the direction of the doorway, then you can use it. (It is no need to turn on the power.)

2. Doorway Camera

After you buy the unit, please insert 6 AAA batteries into the battery compartment at the bottom of the doorway camera, install the waterproof cover and antenna for the doorway camera, then use it.

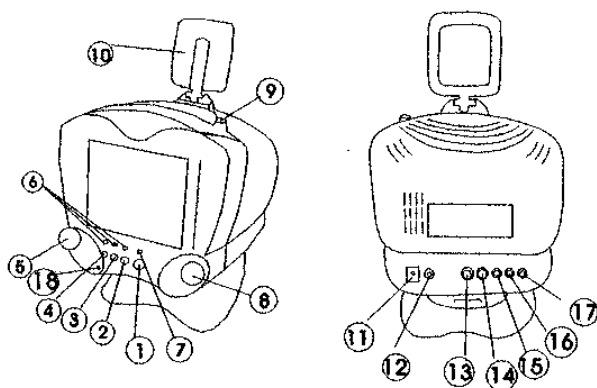
Installation Methods:

- 1) If you do not worry about the doorway camera being taken by others, after installation of the batteries, you can simply stick the doorway camera on the wall at the doorway with a two-side glue.
- 2) There are two plastic covers on the front of the doorway camera, please take them down and fix the two parts of the doorway camera on the selected position with the supplied screws.

Notes:

- 1) Try to avoid fixing the doorway camera on the metal or wall made of very thick reinforced concrete, since that may affect the effect of signal transmission. Please choose the best fixing place through test before formal fixing.
- 2) Try to choose the direction, in which visitor's face can be towards light.
- 3) Do not expose the doorway camera directly to rain.

2.4GHz Wireless Video Intercom Doorbell---Indoor Receiver WOS823BR



① POWER button

It is no need to turn on the power when it is not used as surveillance system. When visitors come, the power will automatically turn on and turn off automatically after the visitors leave.

② CAMERA button

Press down the button to open the doorway camera, you can observe the scene at the doorway from the screen. It will automatically turn off after several seconds.

③ Channel switch

When it is used as wireless monitor, you can press this button to switch the channels.

④ TALK/LISTEN button

Press down the button to talk to the visitors at the doorway and release it to listen.

⑤ Volume tuner

Rotate to control the volume of the sound from the doorway camera.

⑥ Channel indicator

When it is used as wireless monitor, the indicator turns on to indicate the channel on shown.

⑦ VISITOR indicator

It turns on when there are visitors or when you observe the doorway.

⑧ TIME tuner

When it is used as wireless monitor, rotate to adjust the interval time of channel scan.

⑨ Antenna for Intercom Channel

Used to transmit audio signals.

⑩ **Antenna for 2.4GHz Channel**

Used to receive and transmit audio and video signals.

⑪ **DC jack**

Insert the plug of the supplied 12V AC adaptor into the DC jack at the rear of the indoor receiver.

⑫ **Earphone jack**

Used to connect earphone as desired.

⑬ **Audio Out jack**

Used for audio signal transmission.

⑭ **Video Out jack**

Used for video signal transmission.

⑮ **Contrast tuner (CONT)**

Rotate to adjust to the best gradation.

⑯ **Brightness tuner (BRIGHT)**

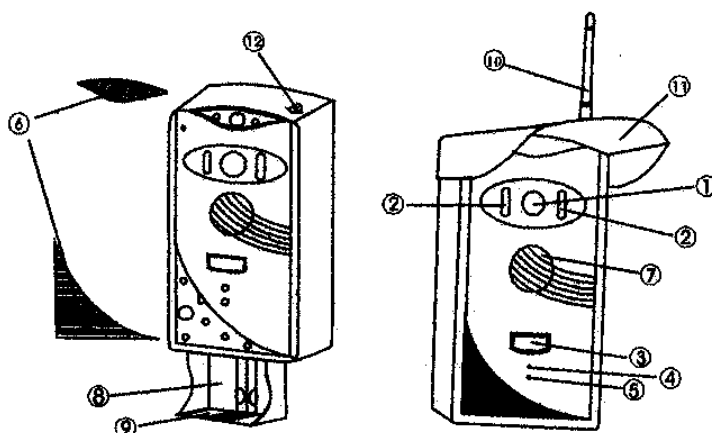
Rotate to adjust to the desired brightness.

⑰ **V-HOLD tuner**

Rotate to fix frame for stable image.

⑱ **Microphone**

2.4GHz Wireless Video Intercom Doorbell---Outdoor Camera WOS823BT



① **Camera Lens**

CMOS B/W camera (1/3 inch)

② **IR LED**

It automatically turns on when the doorway is dark to let you see the scene 2 meters in front of the lens clearly.

③ **Doorbell button**

When you press the button, the indoor receiver and outdoor camera will turn on automatically. After both sides stop talking, the indoor receiver and doorway camera can automatically turn off after 4 seconds.

④ **ON indicator**

It lights to indicate the equipment is on normal work.

⑤ **Low Battery indicator**

It lights to indicate the batteries are low and remind you to replace the batteries.

⑥ **Covers for the fixed screws**

When you install the doorway camera, open these two covers and fix it with the supplied two screws and then replace the two covers.

⑦ **Speaker**

It lets the visitors hear the indoor host's voice.

⑧ **Battery Compartment**

When the batteries are almost used up, release the fixed screw on the battery compartment at the bottom of the doorway camera, pull out the battery compartment and replace the batteries. Then push back the battery compartment and tighten the screw.

⑨ **Fixed Screw on the battery compartment**

Used to fix the battery compartment.

⑩ **Intercom Antenna**

Used to receive audio signals.

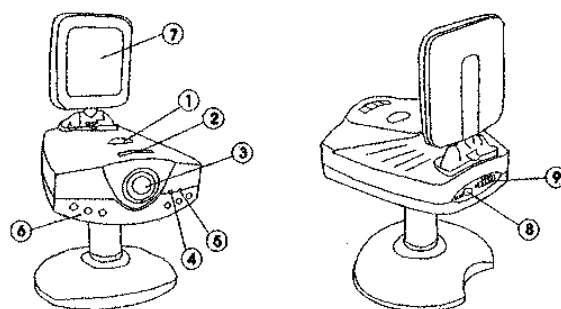
⑪ **Waterproof Cover**

Used to cover the doorway camera from rain.

⑫ **Hole for screwing the antenna**

Used to screw the antenna into it.

2.4GHz Wireless B/W Camera---WOS-815



① **Power on/off**

Used to turn the power on/off.

② **Lens adjustor**

Adjust the lens for optimal image.

③ **Lens**

1/3" CMOS image sensor

④ **Power indicator**

Indicates the power is on or off.

⑤ **Microphone**

High sensitivity microphone with stereo sound in single track.

⑥ IR emitting tube

Helps normal work at night or in the darkness.

⑦ 2.4GHz Directional Antenna

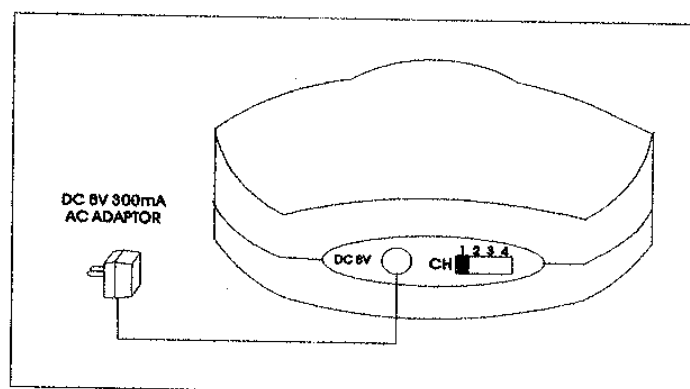
Sends audio and video signals.

⑧ DC jack

Used to plug in the supplied 8V adaptor.

⑨ Channel Selector

Used to find optimal reception. Must select same channel on both transmitter and receiver.

**Installation Method:**

1. Place the camera in the direction you want to observe.
2. Connect the supplied 8V 300mA adaptor to the DC jack on the rear of the camera and plug it into AC power outlet.
The green LED (power indicator light) on the front of the camera will indicate that the unit is turned on.

Operation:**A. When it is used as wireless video intercom doorbell:**

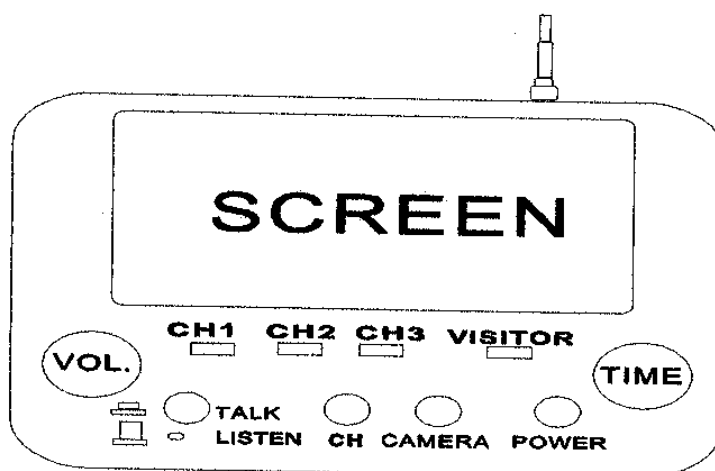
- 1) Plug the AC adaptor into AC outlet according to the requirement. Please check to ensure the voltage of the supplied AC adaptor is same as the local voltage used. Then insert the plug at the other end of AC adaptor into the DC IN jack at the end of the indoor receiver.
- 2) When using for the first time, pull out the intercom antenna and make the flat side of the 2.4GHz antenna face to the direction of the doorway.
- 3) Install batteries into the battery compartment.
- 4) When using for the first time, you need to install the antenna of the doorway camera.
- 5) Press the doorbell button on the doorway camera, both the indoor receiver and doorway camera will automatically turn on. You can hear the doorbell sound --- "DINGDOND" and meanwhile see the image of the doorway at the indoor receiver side.
- 6) You can hear the voice from the doorway at the indoor receiver side without any operation. Adjust the volume to a suitable level.
- 7) Press down the TALK button on the indoor receiver, visitors can hear the indoor voice at the doorway.
- 8) After both sides stop talking, the indoor receiver and doorway camera will automatically turn off after several seconds.

B. When it is used as wireless monitor:

- 1) Place the extra wireless cameras on the locations you want to monitor, connect to power and set the

channel switch at the rear of the extra wireless cameras to CH1, CH2 or CH3 separately.

- 2) Press down the POWER button on the indoor receiver.
- 3) After the Power is on, the scene monitored by CH1 will appear on the display and the CH1 channel indicator will light. Each time when you press CH button, the channel will be switched once, after it reaches CH3, if you press CH button, it will start auto-scan of all the channels. You can press CH button to stop the auto-scan and the screen will switch to the scene monitored by CH1 automatically. Then you can repeat the above steps as desired.
- 4) Rotate TIME tuner to adjust the interval time of the image resting on each channel. (It can be adjusted from 1 to 8 seconds continuously.)



C. When it is used as wireless monitor and there comes a visitor:

- 1) When it is used as a wireless monitor and there comes a visitor pressing the doorbell button on the doorway camera, the screen of the indoor receiver will switch to the image at the doorway automatically and you can hear the doorbell sound "DINGDONG" at the same time.
- 2) The indoor host can hear the voice from the visitor.
- 3) The host can have a talk with the outdoor visitor by pressing down the TALK button.
- 4) After both sides stop talking, the screen of indoor receiver will automatically switch to the scene monitored by the extra wireless camera after several seconds.

D. Operation of monitoring doorway scene:

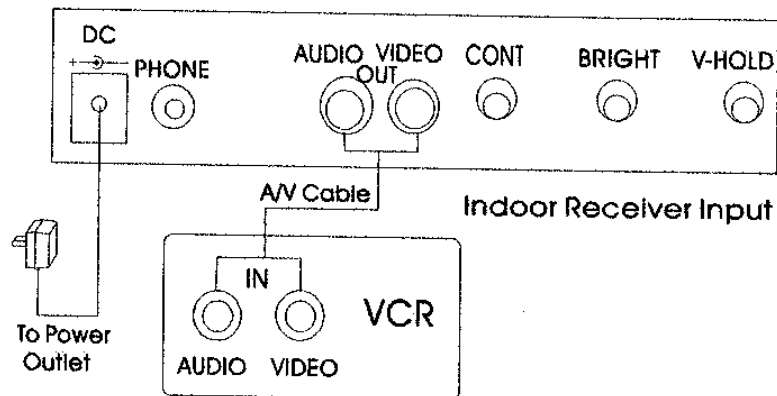
- 1) No matter the power of indoor receiver is turned on (used as wireless monitor) or turned off (used as video intercom doorbell), after you press down CAMERA button, the powers of both the indoor receiver power and doorway camera power can be turned on.
- 2) You can observe the scene and hear the sound of the doorway without any operation step. After 20 seconds, the doorway camera will turn off automatically. The indoor receiver will resume the state before this operation step (the ready state of used as wireless monitor or used as wireless video intercom doorbell).

E. Operation of recording visitors and scenes monitored by extra wireless cameras:

- 1) Connect as shown in the illustration to transmit the A/V output signals of the indoor receiver to the

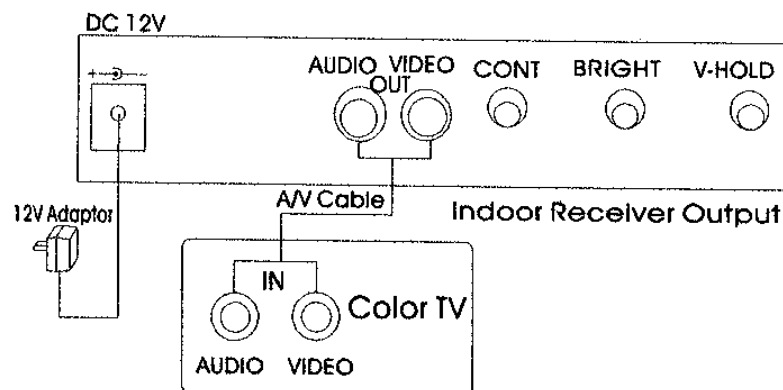
A/V input of a VCR.

- 2) When the signal you want to record appears on the screen of the indoor receiver, operate the VCR to proceed with recording.



F. Viewing color image signals:

- 1) Connect as shown in the illustration to transmit A/V output signals of the indoor receiver to the A/V input of a color TV or color monitor.
- 2) When it is used as wireless monitor and connected to extra wireless color cameras (Model No.: WOS-815C), you can view color images monitored by the extra wireless color cameras with a color TV.



G. Regarding Serial Number:

To avoid the interference each other caused by the same 2.4GHz Wireless Video Intercom Doorbell bought by your near neighbour, when the products leave factory, we have already set serial numbers for the receiving and transmitting equipments, which include No. A, B, C, and D four serial numbers. When you use it, if you find your unit has interference each other with your near neighbour's unit, please ask the distributor for replacement of another unit with different serial number. When distributors sell the products, they must check if the indoor receiver and outdoor camera are set as the same serial number, otherwise, the unit can not work normally.

Doorbell

Specifications:**Doorway Camera:**

Frequency.....	2414-2468 MHz
Modulation.....	FM (Video and Audio)
Usable Illumination.....	0.5 Lux
Power Supply.....	6 AAA batteries (not supplied)
Dimensions (LWH).....	16.7 x 8.8 x 4.0 cm
Weight (without battery).....	0.26 kg

Indoor Receiver:

Frequency.....	2414-2468 MHz
Power Supply.....	AC adaptor (12V 1200mA)
Output Level.....	1 Vp-p
Video Output Impedance.....	75 Ω
Audio Output Impedance.....	600 Ω
Dimensions (LWH).....	18.3 x 21 x 20.1 cm
Weight (with AC adaptor).....	2.15 kgs

Basic System Includes:

Indoor Receiver.....	1 pc
Doorway Camera.....	1 pc
Waterproof Cover of Doorway Camera.....	1 pc
Antenna of Doorway Camera.....	1 pc
AC Adaptor of Indoor Receiver.....	1 pc
Screw for Doorway Camera Fixing.....	3 pcs
Instruction Manual.....	1 pc

Declaration:

This product has already been awarded Patent of Product Invention (Patent ID No. 03267589.5) and Patent of Product Facies Design (Patent ID No. 200430013855.5) by State Intellectual Property Office of R.R.C., any behavior of trying to imitate this product may be run by law.

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.

NOTE: 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.