

# 203CWAS Wireless Transmitting Camera

## User Manual

Thank you for using 203CA Wireless camera. Please read this manual carefully before you use it. And it will benefit you to use this product better.

### OPERATING RESTRICTION

◆ **DO NOT** use the product to monitor products or activities that are relevant to people's life.

1. Monitoring or products or activities concerned directly with people's life.

2. Monitoring related to people's security, antiques or rare articles.

\*For it is not designed and manufactured for these purposes.

◆ **DO NOT** put the product too close to medical equipment.

1. Radio waves might cause breakdown of medical electrical equipment thus causing incidents.

2. Place the product at least 22cm away from a heart pacemaker. Radio waves may influence heart pacemakers and lead to respiratory disturbance.

◆ **DO NOT** use the product to carry out any illegal activities (such as sneak preview, etc.)

◆ **DO NOT** put the package plastic bags in reach of children or babies.

\*It might cause asphyxia if children or babies put the bags into their mouths.

◆ **DO NOT plug the AC adapter into the outlet in improper situation.**

\*Plucking or plugging AC adapter by Wet hand might cause electric shock.

Plugging AC adapter unsteadily might cause fire or electric shock.

◆ **DO NOT cover the AC adapter when it is connected to power socket DO NOT place the adapter near heaters and DO NOT put it on the floor which is equipped with a heater.**

\*The above mentioned operations might cause fire or incidents.

◆ **DO NOT use it aboard; please abide by the airway's provision.**

\*It might influence communications aboard and flying apparatus. This will result in accident, possible death and severe physical hurt.

◆ **DO NOT put the camera in a wet place where water might splash or where rainwater and mist might cause corrosion (Except for weather-proof series).**

\*Such a place might cause fire, shock, short circuit, etc.

◆ **DO NOT disassemble or repair the camera, the receiver and other relevant peripherals.**

\*Improper disassembly might cause damage to the product or the peripherals.

◆ **DO NOT put the camera in quaky places.**

\*The camera may be unstable or out of operation if installed improperly. Such installation may also cause breakdown.

◆ **DO NOT use the receiver on the surface of thermolabile material.**

\*Please embed thermal insulating material when using on the surface of any thermolabile material.

◆ **DO NOT place or use the AC adapter on temperature sensitive materials.**

\*The above practice might cause plastic distortion, fading or sticking on the surface.

◆ **DO NOT use several cameras with neighbouring frequencies working to close at the same time.**

\*The electromagnetic wave signals of the neighbouring frequencies might cause slight interferences and so influence the receiving effect.

◆ **DO NOT let several cameras with the same frequency work at the same time.**

\*The overlap of the electromagnetic wave signals of the same frequency might cause severe interferences and so result in failure to receive signals.

◆ **DO NOT use the camera in places which are covered by metal.**

\*The surrounding metal such as elevator, cabin, might shield the electromagnetic waves, and result in failure to receive signals.

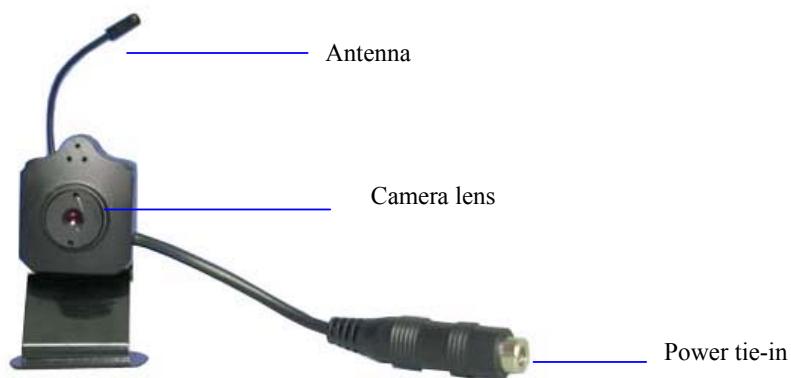
- ◆ **DO NOT use the camera in complex environment. The obstruction of stumbling blocks will affect the electromagnetic wave and influence the receiving range.**

\*Wall, tree and other stumbling blocks might absorb, reflect the electromagnetic waves, and influence the receiving range.

## 1. Specification Parameters::

203CA Wireless transmitter specification Parameters			
Image Device	1/3" CMOS image sensor		
TV System	PAL/CCIR	NTSC/EIA	
Validity Pixel	PAL: 628×582 NTSC: 510×492		
Image Area	PAL: 5.78×4.19mm NTSC: 4.69×3.45mm		
Horizontal Definition	320Line		
Scan Frequency	PAL/CCIR: 50Hz NTSC/EIA: 60Hz		
Minimum Illumination	3LUX		
Sensitivity	18 dB/AGC OFF		
Output Frequency	2.4GHz (2.414GHz、2.432GHz、2.450GHz、2.468GHz)		
Frequency Controller	Adapt to MPU and phase locked loop to control frequency exactly, which possesses high stability.		
Transmitter Signal	Audio, video		
Open Transmission Distance	20-30m		
Fixed Voltage	DC+8V		
Fixed Current	200mA		
Power Consumption	≤150mW		
Working temperature	-10~+50°C		
Size	20x20x15 mm		
Weight	45g		

## 2. Diagram



### **3. Operation Instruction:**

- 1) Put the camera in the direction you want to monitor.
- 2) Insert DC8V/200mA power adapter into the interflow power plug, and insert its DC output plug into the DC input plug of the camera and turn power on.
- 3) Please put cameras 2 meters away from each other when two or more cameras used simultaneously. The distance between receiver and cameras should be more than 2 Meters too, otherwise signal interference would influence receiving result.
- 4) Fix 2.4G antenna to the camera ANT jack and screw down.
- 5) Connect receiver and TV or monitor with AV cable;
- 6) Insert DC12V/500mA power adapter into the interflow power plug, and insert its DC output plug into receiver's input plug, then turn power on.
- 7) Choose proper receiving channel to make the frequency be the same with frequency of transmitter.
- 8) Connect camera and TV or monitor with AV cable, you may get audio and video signals.

### **4. Problems and solving:**

#### **1) There is no image on TV or monitor screen**

- ▲ Please check whether the TV or monitor's power adapter has been installed well or not.
- ▲ Please Check whether the key of the power adapter has been turn on or not
- ▲ Please check whether power adapter has been insert to receiver's input power jack.

#### **2) There is no image or the image is not clear**

- ▲ Please check camera power adapter has been switched.
- ▲ Please check if the distance is too long between the camera and receiver (The direct distance should be within 500-800m), or if there are any electromagnetism obstruction around (e.g. steel construction will counteract transmitting signals.)
- ▲ Please make sure the frequency of the wireless camera is the same as that of receiver. (Two cameras with the same frequency can not work properly within effective distance, thus interference will be caused)
- ▲ Please confirm the receiver antenna has been fixed.
- ▲ Please keep far away from big copper or iron electromagnetism obstruction. High-power transmitter in the same frequency and car broadcasting station may also cause interference.

### **5. Accessories:**

Antenna	one piece
AV cable	one piece
DC8V/200mA power adapter	one piece
Manual	one piece
Receiver	one set (optional)
Guarantee Card	one piece

### **Caution:**

Changes or modifications to this unit not expressly approved by the party responsible for compliance will void the user's authority to operate the equipment. Any change to the equipment will void FCC grant.

## **Warning:**

Changes or modifications to this unit not expressly approved by the party responsible for compliance will void the user's authority to operate the equipment. Any change to the equipment will void FCC grant.

The equipment compliance with FCC radiation exposure limit set forth for uncontrolled environment

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 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:

- 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/TV technician for help.

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.