

WirelessCable

PT-WC-G1

EU Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.



User Manual

Model:PT-WC-G1

Version:1.0

Important Information

Please read this user manual before you use this product, it contains all the notes and important things regarding operating this product. In accordance with the safety precautions and operating instructions listed on this user manual, our applies provided the product is handled properly for its intended use, but may not apply to below cases:

- Repairs or product modification and alterations have been executed by unauthorized personnel.
- The damages are caused by accidents including but not limited to lightning, fire, exposed to rain or water, and moisture.
- Do not use provided power adapter with specific power voltage which are not compliant with the rated voltage range in the attached label of the power adapter in package.
- The model label on the product has been modified or the warranty tag has been removed by unauthorized personnel.

Safety Precaution

 <small>Danger! High voltage!</small>	To reduce the risks of electricity, do not remove or open the cover. No user-serviceable parts are inside. Please return to original factory for maintenance
 <small>Beware of hot surfaces!</small>	The high temperature in the process of operating the device may cause the high risk of scalding.
 <small>Caution!</small>	Please use our standard power adapter. Detailed information Please refer to the rated voltage range showed on the label at the back of package's power adapter.

Danger: Be careful with electricity.

- As connecting any equipment (such as any player or TV, etc.), please turn off the power to the product before any operation is undertaken.
- Power outlet: To prevent electric shock or fire, short circuit, please make sure the type of electrical plug used on the receiver's and transmitter's power cord are compliant with the rated voltage range in the attached label of the power adapter in package.
- Power cord: Do not place any heavy articles above on the power cord. To avoid being stepped on or pinched by heavy items, the power cord should not be located on the place where people pass by frequently.
- Power overloading: Avoid overloading wall's electrical outlets and extension cord or other multi-socket; otherwise could result in electric shock or fire.
- Lightning: For protection from lightning or when the product is left unattended for a long period, please disconnect it from the power source.
- Please disconnect the power cord from the power outlet when you are not using the receiver and transmitter, this will reduce the risk of electric shock or fire.

Warning

- This product should not be exposed to dripping or splashing. Do not place any object filled with liquid on the product(eg. vases).
- To avoid electric shock, please do not block or stick anything on the air vent of product; do not remove the cover or put the object just like pins, steel wire into the gap of the air vent.
- Please place the receiver/transmitter on a flat with hard and stable surface.
- Ventilation: please do not block the air vents on the receiver/transmitter or place any heavy object on top of them. Blocking the air flow can damage the product itself. Please make sure that there is adequate ventilation distance between the receiver and TV, and also put the product away from direct sunlight or any source of heat.
- Water Exposure: To reduce the risk of electric shock or fire, please do not expose the receiver/transmitter to rain or moisture.
- We assume no responsibility for any damage or result caused by using other adapters instead of our standard adapters

Special Notice

- Although the product has provided the function of data encryption when transmitting, you still need to pay attention to deliberate signal interception. There will be the Possibility of a third party intentionally intercept the transmission signal since the product adopt wireless communication. Please do not use the product on confidential and important communications, or life-related communications. The main concern is that the content of wireless communication might be received by the third party's wireless devices deliberately or accidentally.
- The impact of radio waves (such as the following environment may cause the abnormal audio and video(blocked image, noise...etc.).
 - 1) Transmit near the wall which is hard for the radio waves to get through.
 - 2) Quite close to the refrigerator, metal fitment and appliances, or next to the crowded situation.
- This product has been tested and manufactured to comply with national electrical safety rules, however, there will be noise caused by the interference with other machines in rare cases. If the interference is happened, please keep a certain distance away from other machines.
- The product is susceptible to interference from 5GHz wireless local area network or other wireless devices.
- Optimal range between transmitter and receiver is between 1 meter and 50 meters within line of sight indoor.
- Please do not set up the transmitter and receiver in metal shelf, or it will hinder the wireless communications.
- 1080P/60 Hz Wireless transmitting.
- It will take 15-20 seconds to boot the system before wireless communication start, the media receiver can not be operated during this time.

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■ About the User Manual

- Please read this manual carefully before you use this product and retain it properly for future reference.
- If there is any question or difficulty about the operation of product, please feel free to contact us or the dealer.
- CVW reserves the authority to modify the instruction manuals.

■ Brief Introduction

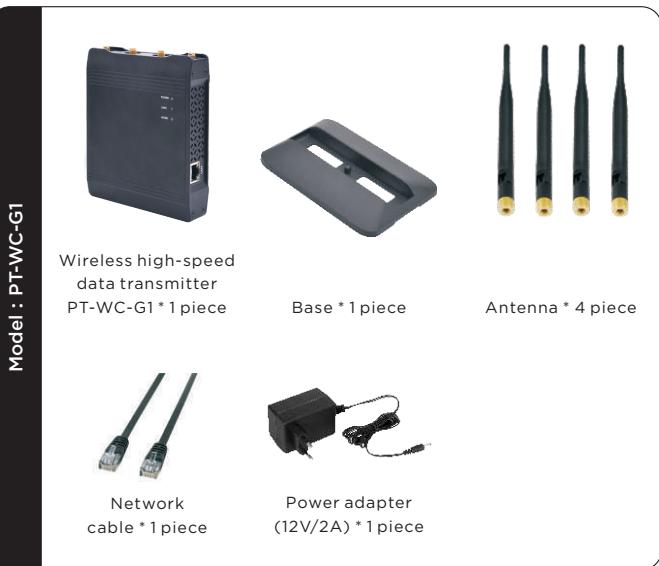
With the increasing application of HD video equipment, many problems have arisen in the wiring process, such as high wire cost and short service life. If the on-site protection is not enough, the trampling of the passing crowd may affect the performance of wire, and even cause a live broadcast accident. This program provides a more convenient and safe solution for live video scenes. Its long-distance transmission, coupled with the high-capacity lithium battery system and PNP configuration, can fully meet the needs of various indoor and outdoor shooting, especially the feature of free wiring, which will bring you a safer and more professional enjoyment.

■ Features

- The maximum transmission rate can be up to 300Mbps
- Adopt 4×4 MIMO technology at the transmitter terminal
- It can support 4-channel connection at the same time, with strong penetrating power, long transmission distance, and cascading.

■ Packing List

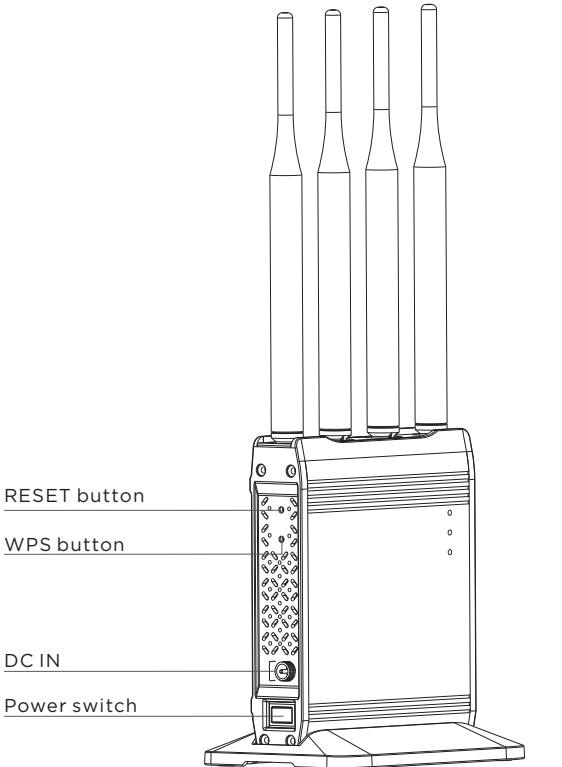
Check the packing list details after unpacking. If any parts are missing, contact the dealer. For the parts involved in each model, refer to the packing list below.

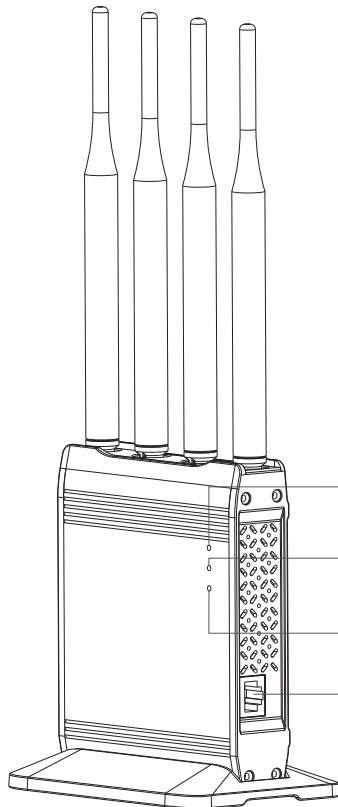


*All accessories are subject to the actual products.

■ Structure & Interface

Model: PT-WC-G1





1. DC IN:

This port is connected to the power adapter (SPEC: 5.5mm; "positive inside and negative outside icon")

2. Rj45 interface:

Connection supports RJ45 interface devices

3. Power switch:

Rocker switch controls power on or off

4. WPS button:

Press the WPS button of both modules (set to AP/STA mode, respectively) at the same time, and the two modules will automatically establish a connection.

5. RESET button:

Press this button for about 5s and the module will return to the factory mode.

6. Power indicator:

Steady on: The power is normal;
Off: The power is off or abnormal.

7. MODE indicator:

Display the module operating mode

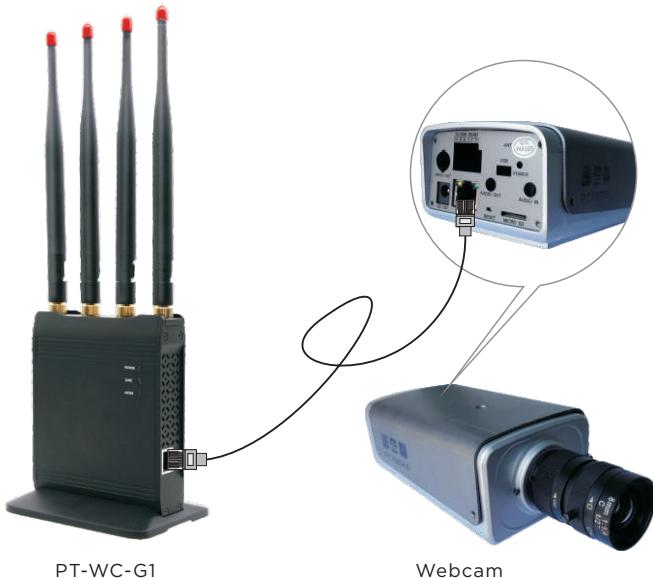
8. WIFI connection indicator:

Blinking: WIFI does not establish a connection
Steady on: WIFI connection is successful

■ Product Installation

PT-WC-G1 Installation Instructions (point-to-point mode, webcam usage example)

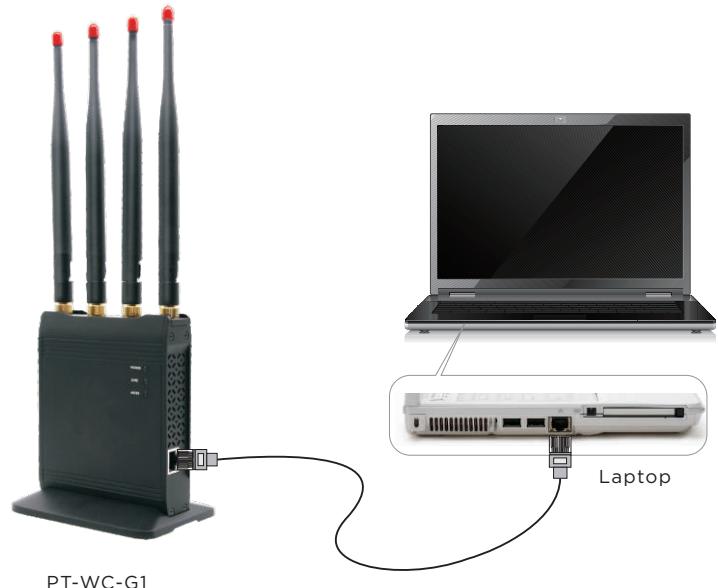
1. Connect the two devices with the network cable to the webcam and the computer, respectively. Since the Wi-Fi is bidirectional, the two ends can be exchanged arbitrarily without distinguishing between transmitting and receiving.



2. Turn on the power switches of the camera and this product.

3. Wait for 30-60s. After the network connection indicator changes from blinking to steady on, the connection is established successfully.

4. Access the webcam from the PC.



Indicator Description

Model	indicator	Mode	Status
PT-WC-G1	Power indicator	 Steady on  off	Power supply is normal Power is abnormal
	Wi-Fi connection indicator	 Steady on  Blinking	Wi-Fi connection succeeds Wi-Fi connection fails
	MODE indicator	 Steady on  off	AP STA

Product Specifications

PT-WC-G1	Item	PT-WC-G1
Frequency	5.15-5.25(GHz);5.725-5.85(GHz)	
Video communication system	MIMO	
Modulation	OFDM	
Frequency stability	±20PPM	
bandwidth	40MHz	
Standard protocol	802.11a/n	
Receiving sensitivity	≤-70dBm	
Antenna mode	4TX / 4RX	
Transmission data rate	300Mbps (MAX)	
Operating voltage	Maximum power: 10W; DC power (7V-17V)	
Operating temperature	0-40°C;	
Storage temperature	-20°C-60°C	

* The Company constantly improves product performance. Design and specifications are subject to change without prior notice.

Trouble Shooting

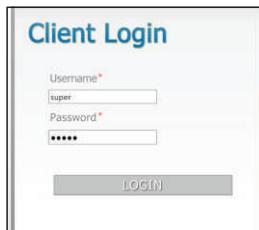
	Trouble	Fault cause	Solutions
Signal indicator is abnormal	Wi-Fi connection indicator is off	The device is not electrified (check whether the power indicator is on)	Turn on the device
		The device is still in the process of starting	Wait for 30s after booting, it takes time to start the system.
Signal indicator keeps blinking	Wi-Fi connection indicator keeps blinking	The device on the other end is not electrified	Turn on the device
		No pairing settings	Perform pairing
		Too far away	Shorten the distance between two devices
Video is buffering		The device functions abnormally	Restart the device power
	The network connection is normal and the video is always on and off.	Too far away	It is recommended to shorten the distance for verification
		Interference nearby	Shorten the distance or change the environment for testing

PT-WC-G1 Setup Instructions

Point-to-Point Connection Mode

Our factory default connection is generally based on the AP+STATION connection mode, which is the point-to-point connection mode. One end is set to AP mode, and the other end is set to STATION mode. The SSIDs of both are set to be the same. If you have a password, the password must also be consistent. If multiple points need to be connected to one point, you need to configure the mode in which multiple STATIONs access one AP. The setting method is as follows:

1. After the device is booted, connect the device to the computer with a network cable. Open your browser on your computer. Enter the IP address of the device in the address bar (AP default IP address is 192.168.1.100; STATION factory default IP address is 192.168.1.1200). After entering the login page, enter the username and password (both username and password are super by default) to enter the menu page. As shown in the figures below:



Login page



Menu page

2. Select Wireless in the Config option on the menu page to modify the corresponding options, where ESSID can be specified by itself (AP and STATION should be consistent and case-sensitive), Encryption and Passphrase can also be specified by themselves. In addition, ensure that the settings of the APs and STATIONs to be connected are consistent.



Set AP mode



Set station mode

Cascade Mode

In some cases, a longer transmission distance may be required. At this time, we can use the cascade mode based on WDS technology. In this case, you need to set the cascaded devices to AP mode, fix Channel to be consistent (i.e., the same channel), and configure the following information in the WDS in the Config options:

1. Assuming that device A needs to be cascaded with device B, you need to add the Wireless MAC address of device B in the WDS setting of device A, and the Wireless MAC address of device A in the WDS setting of device B, so that the two devices can be connected.

CONFIG - WDS

WDS	MAC Address	Passphrase
<input checked="" type="checkbox"/> WDS0:	00:26:86:01:1b:32	<input type="text"/>
<input type="checkbox"/> WDS1:	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> WDS2:	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> WDS3:	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> WDS4:	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> WDS5:	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> WDS6:	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> WDS7:	<input type="text"/>	<input type="text"/>

Save **Cancel**

WDS Config Page

Similarly, if you want to continue adding cascaded device C, you can add the Wireless MAC address of the device C in the WDS setting of device B, and the Wireless MAC address of the device B in the WDS setting of device C.

Note:

1. Cascading will reduce the bandwidth of the system.
It is recommended to cascade up to Level 3.
2. The IP address and MAC address of the device can be found under the Config-Networking page.

CONFIG - NETWORKING

DHCP: <input type="radio"/>	Static IP: <input checked="" type="radio"/>
IP Address: 192.168.98.200	
Netmask: 255.255.255.0	
Ethernet MAC Address: 00:26:67:D8:00:02	
Wireless MAC Address: 00:26:67:D8:10:02	
BSSID: 00:26:67:D8:10:02	

Save **Cancel**

Networking page

Changing IP Address

1. Log in via WEB according to the marked IP address.

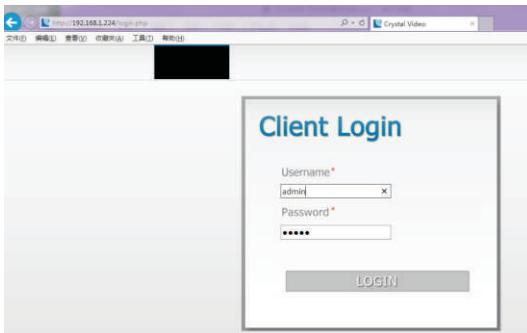
Client Login

Username*

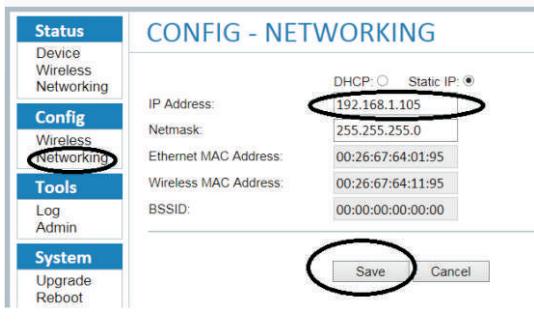
Password*

LOGIN

2. Username: admin; password: admin; click LOGIN to log in.

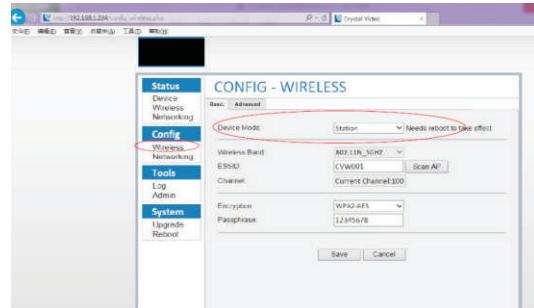


3. Select "networking" under "config" to change the IP.
Click the "Save" button below to save the changed IP.

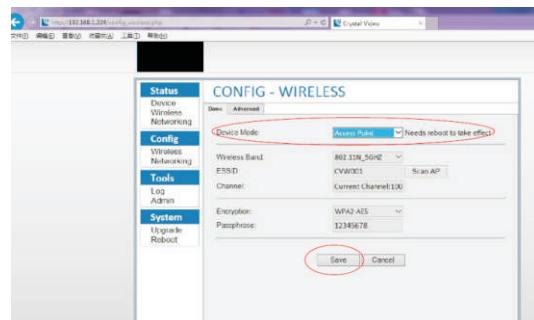


Mode Settings

1. The product can be set to AP or STA mode. After its IP address is logged in through the WEB, select "wireless" under "config" and click Device Mode to select between AP and STA modes.



2. During mode switching, the product is changed either from AP mode to STA mode or from STA mode to AP mode through this option. After making changes, click "Save" to save. After saving successfully, wait for 2min, then refresh the page and log in again, you can see that the mode change is successful.

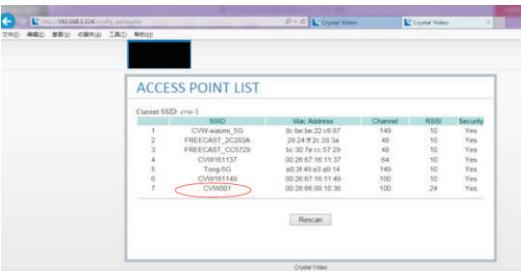


Product Pairing

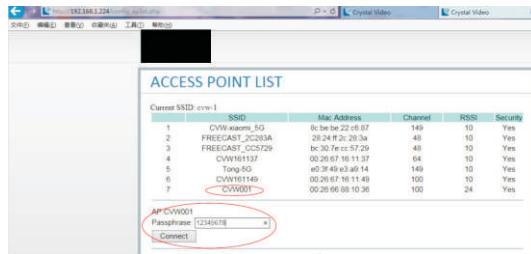
1. You can only pair with the AP in STA mode.
2. After the IP address of the product is logged in through the WEB, select "wireless" under "config" and click "Scan AP" to scan the AP.



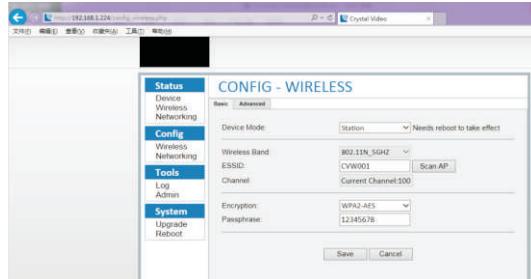
3. Scan the SSID of the target AP, "CVW001".



4. After clicking CVW001, AP: CVW001 Passphrase will pop up. After entering the password "12345678", click "connect".



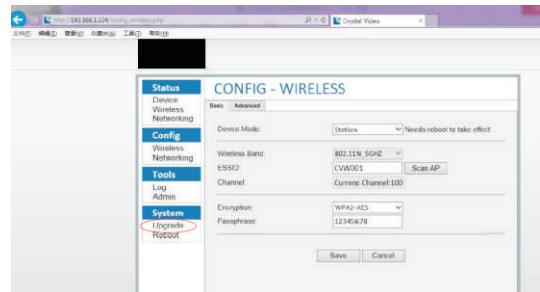
5. After waiting for 1min, refresh the page. You can see that the ESSID is "CVW001", indicating that the AP with the SSID of CVW001 has been successfully paired.



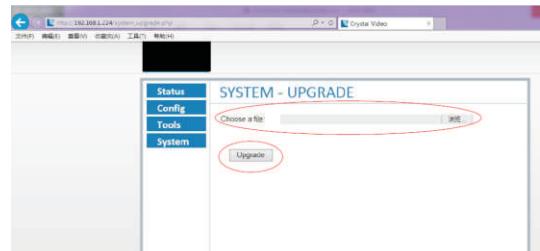
Note: If you have two products at the same time and both have been set to AP/STA mode separately, they will automatically establish a connection by pressing their WPS buttons at the same time.

Product Software Upgrade

1. After the IP address of the product is logged in through the WEB, select “Upgrade” under “System”.



2. After selecting software upgrade under “Choose a file”, click “Upgrade” to upgrade. After clicking, wait for 2min, then refresh the page and log in again.



3. After waiting for 2min, refresh the page and log in again, you can see the upgraded software version.



The screenshot shows a web-based interface for a device status. On the left, a vertical menu bar has 'Status' selected. The main area is titled 'STATUS - DEVICE'. It displays the following information:

Device Name	CVW Wireless Adapter
Software Version:	v32.130.3
Uptime:	2:49
Device Mode:	<input type="checkbox"/> Access Point (AP) <input checked="" type="checkbox"/> Station (STA)

At the bottom of the page is a 'Refresh' button.

FCC Statement

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.

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment 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.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cautions!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.