

geratech®



EGE-WHD5-EXT

Wireless HD Video
Transmission Solution



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 PRODUCTION



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.



The high temperature in the process of operating the device may cause the high risk of scalding.



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 powercord 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 intetionally intercept the transmission signal since the product adopt wireless communication. Please

do not use the product on confidential and important communications, or life-related communictions 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 zby 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 30-40 seconds to boot the system before wireless communication start, the media receiver can not be operated during this time.

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**Foreword**

- Please read this manual carefully before you use this product and retain it properly for future reference.
- If there is any doubt or difficulty in the process of product usage, please feel free to contact us or the dealer.
- The company reserves the authority to amend the specification.

Brief Introduction

This wireless HD Video solution enables wireless transmission of video/audio from any HDMI video source such as PC/HDTV to display devices including HDTV/HD Monitor over the 5 GHz band, with very low latency.

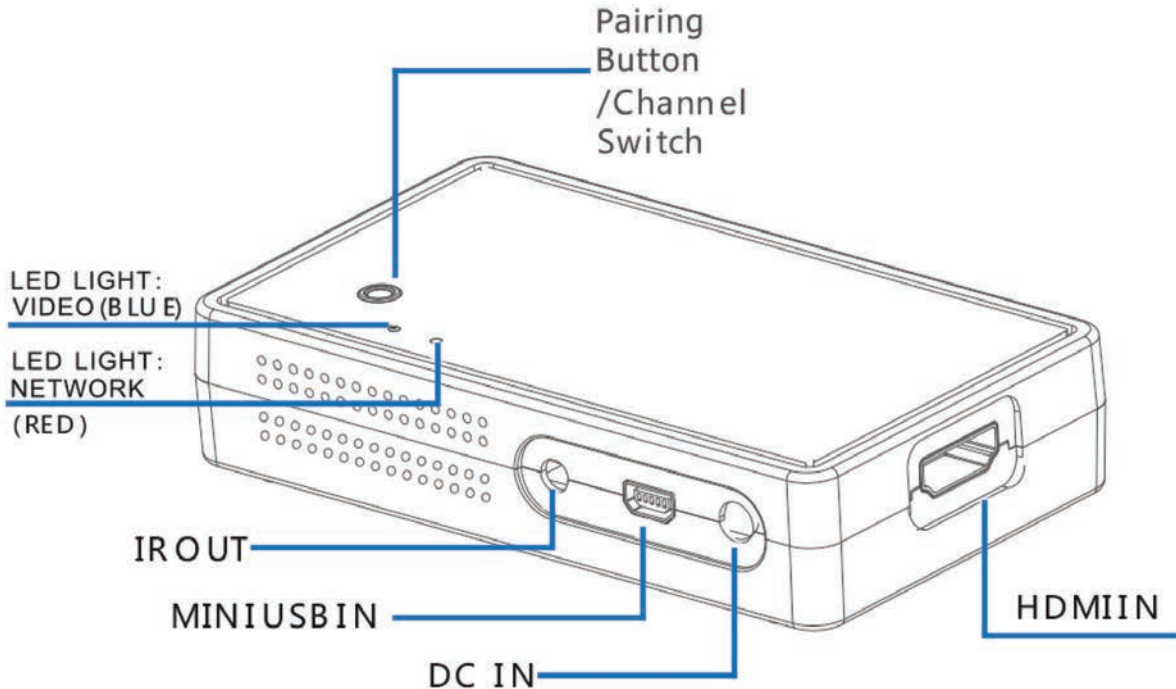
It does not require any special configuration or software driver installation - simply connect the transmitter to the HDMI output of the video source and the receiver to the HDMI input of the Panel/TV/Monitor. Its Plug & Play operation makes it the ultimate solution for the most demanding indoor/outdoor professional environments.

This solution is widely applicable to family entertainments, office presentation, lecture, education, medical treatment, party, conference, etc.

Features

- Support HD devices with HDMI input/output, include Blu-ray player, DVD player, PC, laptop, HDTV, etc.
- 5GHz Wireless HD video transmission Support multi resolution up to 1080P
- HDMI Input/Output, support multi devices with HDMI
- Low latency <60ms
- Effective range: 50m (Line of sight)
- WPS transmitter - receiver pairing
- Plug & Play - full hardware design, no software is required
- AES128/256 Encryption

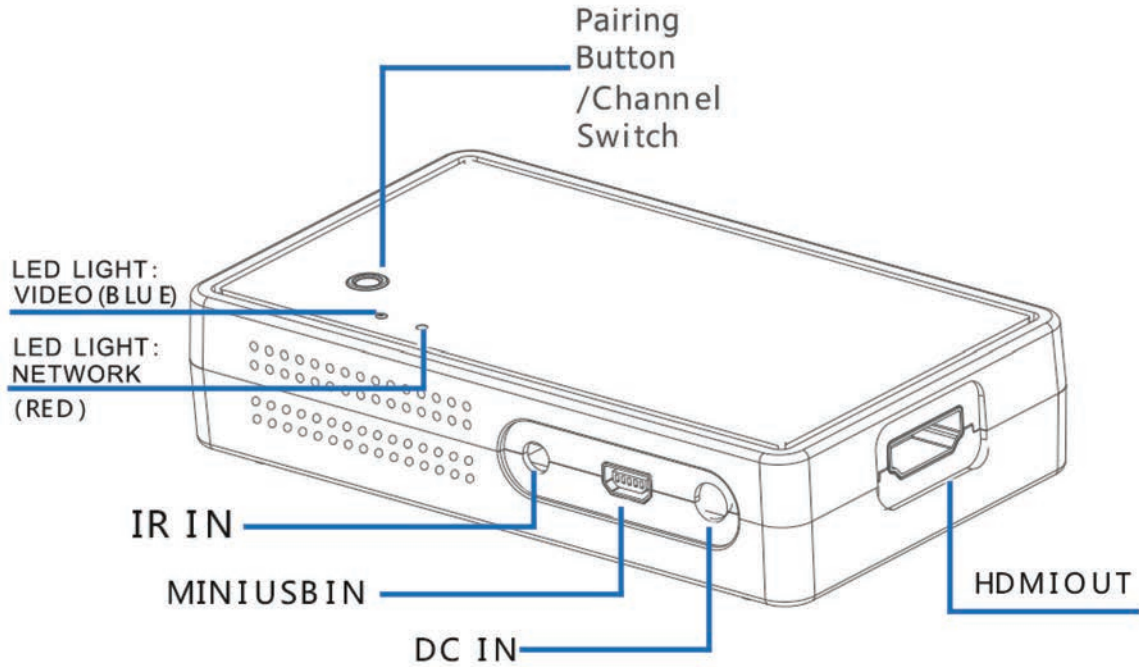
Structure & Interface The Transmitter EGE-WHD5-EXT



- 1 DC Power: Power socket for DC adapter,
- 2 HDMI IN: Connect to HD Video source device such as DSLR/DV, Blu-ray Player, Laptop, HDTV, etc.
- 3 USB: USB socket for upgrading.
- 4 Pairing: For devices pairing, use a pin point to press for about 5 seconds then release, the devices will be pairing.
- 5 Channel Switch: Press to change the channel
- 6 LED indicators: RED for Networking; Green for Video
- 7 IR OUT Socket: Connect with IR extension connector to transmit IR signal

Frequency 5GHz	Range 50m	Latency ≤60ms	Full-HD 1080p
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The Receiver EGE-WHD5-EXT



- 1 DC Power: Power socket for DC adapter.
- 2 HDMI Output: connect to HD display device such as HDTV, Projector, LED Screen, etc.
- 3 USB: USB socket for upgrading.
- 4 Pairing: For devices paring, use pin to push for about 5 seconds then release, the devices will be paring.
- 5 Channel Switch: Press to change the channel
- 6 LED i ndicators: RED for Networking; Green for Video
- 7 IR IN Socket: Connect with IR extension connector to receive the IR signal

Frequency 5GHz	Range 50 m	Latency ≤60ms	Full-HD 1080p
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Packing List

Please check the packing list carefully, if any part missed, please contact your dealer. Components of all models are subject to the following packing list.

TX:EGE-WHD5-EXT

- Wireless HD Transmitter x1
- Adaptor* with USB cable x1
- HDMI cable x1
- IR Extension connector x1

TX:EGE-WHD5-EXT

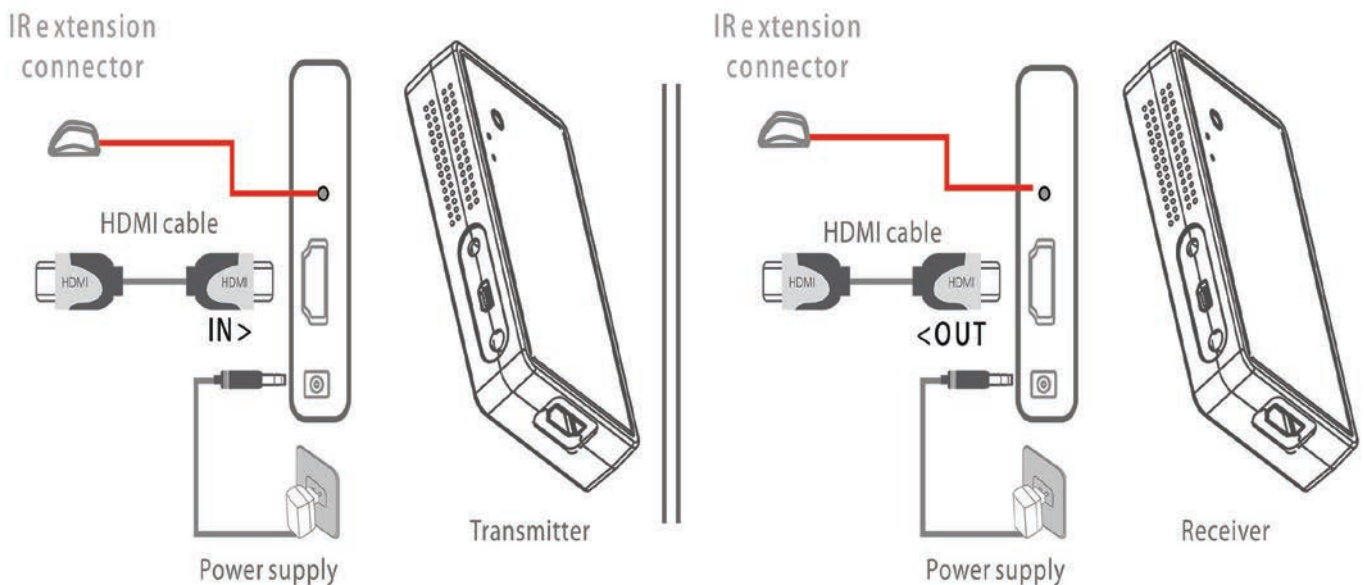
- Wireless HD Receiver x1
- Adaptor* with USB cable x1
- IR Extension connector x1

*The adaptor may vary according to certain conditions in different country/region.

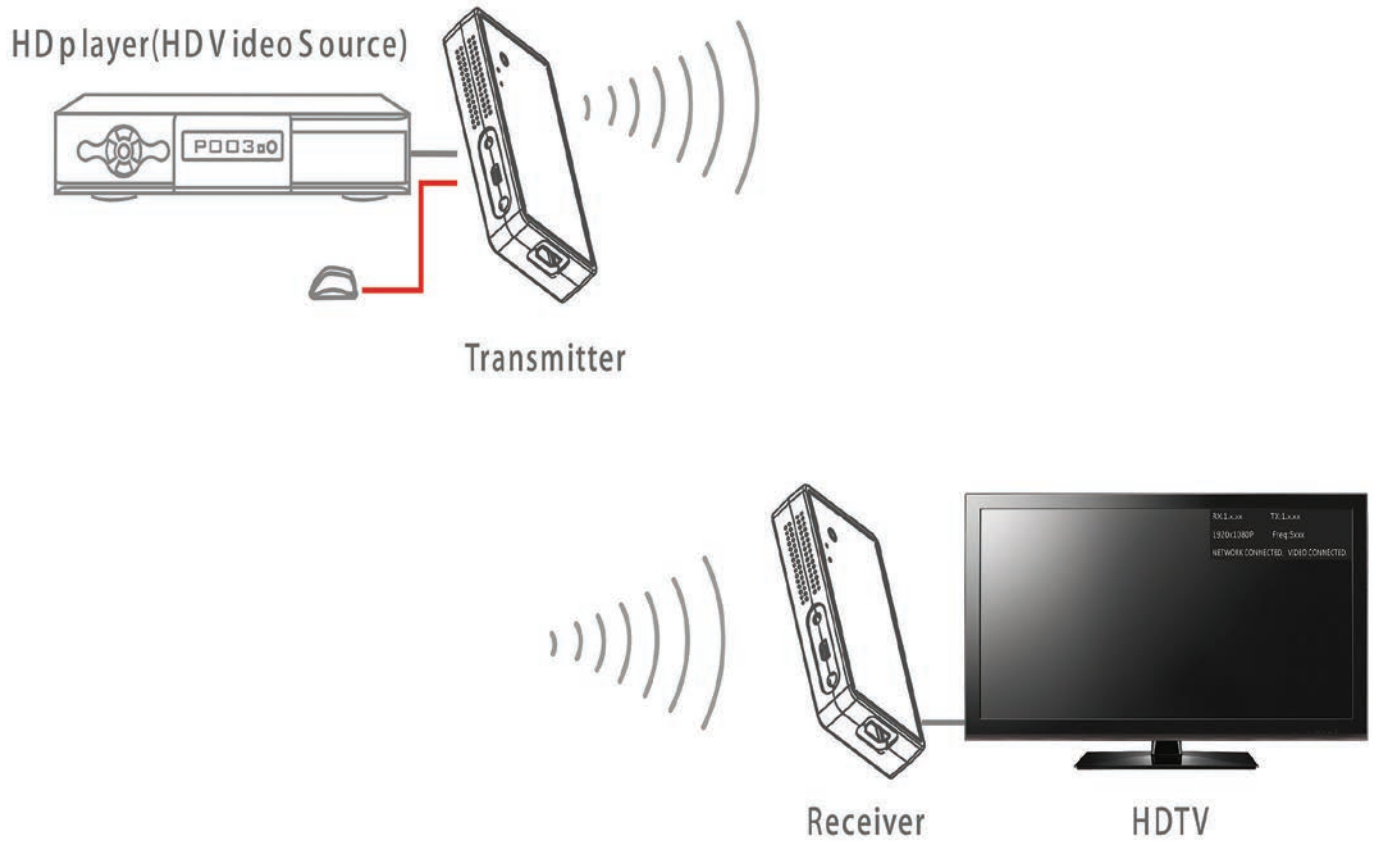
Product Installation

1) Locate the transmitter and receiver respectively to the base. To avoid interference from other devices, please do not place any barriers near to the devices.

2) Connect to power adaptor to the transmitter and receiver. Connect the IR extension connector to the IR Output socket of transmitter, and put it properly in front of IR sensor area of video source; and connect to the IR Input socket of receiver.



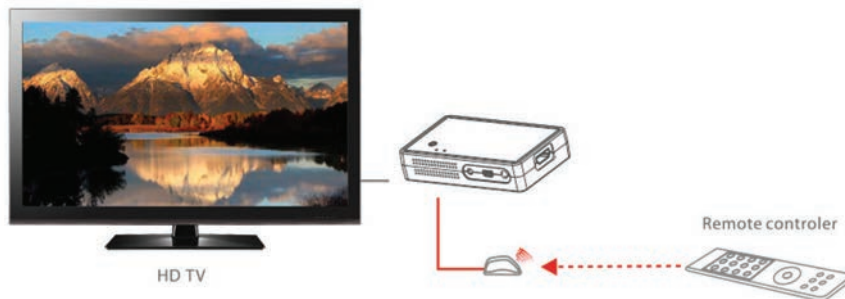
3) After communicating the power transmitter and receiver system startup, the system start after the completion of the following OSD displayed on the device screen: "Connecting to transmitter"



4) Wait for the system start, and the screen will display text "Connecting to transmitter" then the images shows up, which means the product is working.



5) When the system working properly, user can use the remote controller of HD player at the HDTV side. The remote controller should be aligned to IR connector of the receiver.



6) While connected, user can press the Channel Switch of transmitter or receiver to change to other channel for better transmission.



Remarks

- 1) Remote extension connector only supports 38~56 KHz remote's signal protocol.
- 2) Please make sure the transmitter and receiver are located in the effective reception distance and range, if they are located out of the range, the signal wouldn't be received.

Specifacation

ITEM	Transmitter EGE-WHD5-EXT	Receiver EGE-WHD5-EXT
Frequency	Free Band (USA):5151 ~ 5250MHz, 5725 ~5825 MHz Free Band (JAN & EU) :5151 ~ 5250 MHz	
RF Communication	2x2 MI MO	
Modulation Mode	OFDM	
Power Consumption	5W	3W
Transmission Range	50m	
Frequency Stability	± 20 PPM	
Receiving Sensitivity	- 65 dBm	
System Latency	≤ 60 ms	
Antenna	2*2 4dBi Built-in Antenna	
Encryption	AES128/256	
Network Mode	AP	Station
Standart Protocol	HDMI 1.3; HDMI 1.4 3D; HDCP	
Power Supply	DC 5V/2A	
Dimension	101*59*21 mm	
Video Formats Supported	1080P 1080I 720P 576P 576I 480P 480I HD 3D	
Video Compress Formats	H.264	
Audio Formats Supported	PCM	
Operating Temperature	0-40°C	
Storage Temperature	-20°C - 80°C	
Operating Humidity	15 ~ 85%RH	

* Since the product's improving process, all the performance, design and specifications of our products are subject to minor change without prior notice.

Indicators

Transmitter Receiver EGE-WHD5-EXT	LED Indicator	Display	Status
	Network Indicator (RED)	Indicator ON Twinkle Slowly	Device Power ON, Connecting...
	Video Indicator (BLUE)	Indicator ON Twinkle Slowly	Video Transmission ON NO Video Signal Input
	Both Network & Video Indicator	Twinkle Quickly Twinkle Alternatively Quickly	Pairing... Channel Switch is ON...

Trouble Shooting

	Possible Reasons	Solutions
Image	No signals are input toTV	
	Receiver is notturned on.	Power on receiver.
	Transmitteris on sleeping.	Remove the hDMI cable then connect it to awake the device.
	Receiver and TV are not connected.	Connectthe receiverandTV by the HDMI cable.
	Haven't switched TV to HDMI input.	SwitchTVto HDMI input.
	Poor contact of receiver orTV's HDMI cable	Unplug and then plug the HDMI cable of the receiver orTV.
	TV turn into standby mode	Switch theTVto normal operation mode.
	No image appear on TV	
	Poor contact of receiver orTV's HDMI cable.	Re-plug the HDMI cable of the receiver or TV
	Abnormal working of receiver	Reboot the receiver
	Receiver failure	Please contact your distributor
	Abnormal coloronTV screen	
	Poor contact of receiver orTV's HDMI cable.	Unplug and then plug the HDMI cable of the receiver orTV.
	Poor contact of transmitter or player's HDMI cable.	Unplug and then plug the HDMI cable of theTX and player.
	Abnormal working of transmitter or receiver	Reboot the transmitter and receiver.
	Video blocking or mosaics on the image displayed on TV	
	Transmitter or receiver is not placed erectly.	Place theTX or RX onto the base and maintain them erectly
	The transmitter and receiver are out of effect range.	Move the receiver closer to the transmitter.
Several solid wall partitionTXand RX.	Reduce the number of solid walls betweenTX and RX	
There are obstacles or interference between TX a nd RX.	Press the channel switch button to change to another channel.	
Audio	Images appear on TV normally but no voice is output.	
	Player orTV is muted.	Open the volume of player orTV.
	Player orTV's volume is too low.	Turn up the volume of player orTV.
	Current player don't support the output audio format	Switch the output audio format of player.
	Reboot the transmitter and receiver	Reboot the transmitter and receiver

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. To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example use only shielded interface cables when connecting to computer or peripheral devices).

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.

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.



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