



# CONTROLLER 76

## WALL HANG SMART AC OUTLET

USER MANUAL

## WELCOME

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### EMAIL

[support@acinfinity.com](mailto:support@acinfinity.com)

### WEB

[www.acinfinity.com](http://www.acinfinity.com)

### LOCATION

Los Angeles, CA

## MANUAL CODE CTR682008X1

**PRODUCT**  
CONTROLLER 76

**MODEL**  
CTR76A

**UPC-A**  
819137021525

# MANUAL INDEX

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# KEY FEATURES

## SMART CONTROLLER

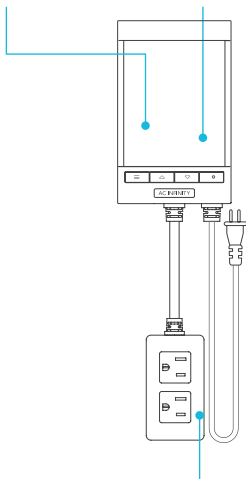
Features automation controls that power electronics based on temperature, humidity, timers, and schedules.

## ACTIVE MONITORING

LED display shows key data like outlet power status, temperature, humidity, trends, clock, and countdowns.

## SENSOR PROBE

The corded probe is constructed of stainless steel to ensure precise temperature and humidity readings.

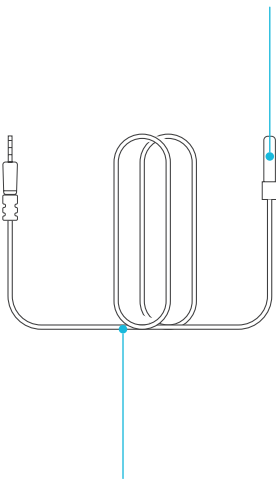


## WALL MOUNTING

Black powder-coated finish, fire-resistant casing with key-hole hanger for easy mounting on any hook or screw.

## DUAL OUTLETS

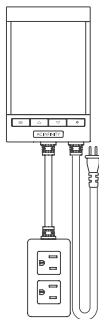
Built with two electrical sockets that allow for powering and daisy chaining two fans or heating mats.



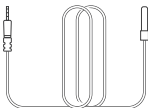
## EXTRA CORD LENGTH

Extended cord length of 144 inches (12 feet) for ease of management and flexible mounting options.

# PRODUCT CONTENTS



WALL HANG  
CONTROLLER  
(x1)



SENSOR  
PROBE  
(x1)



WALL-HANG  
WOOD SCREWS  
(x2)



WIRE  
TIE  
(x1)

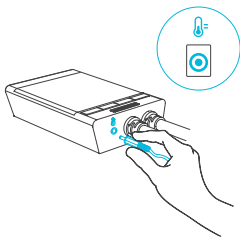


CABLE TIE  
MOUNT  
(x1)

# POWERING AND SETUP

## STEP 1

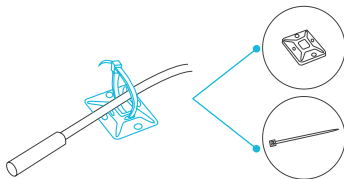
Locate the connector plug of the sensor probe and plug it into the sensor port at the bottom side of the controller.



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## STEP 2

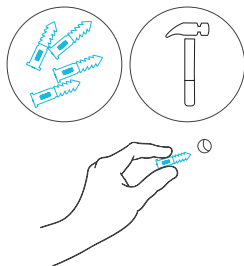
Position the corded sensor probe and secure it by using the wire tie and cable tie mount if needed.



# POWERING AND SETUP

## STEP 3

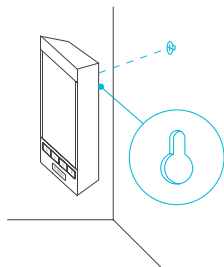
Locate a spot free on obstruction and secure the anchor into your wall. Twist the wood screw into the anchor.



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## STEP 4

Hang the device on the screw using the hole on the backside of the controller.

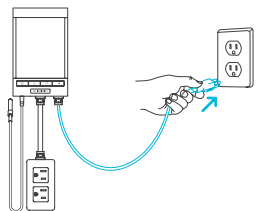




# POWERING AND SETUP

## STEP 5

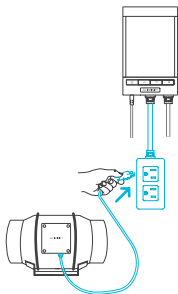
Plug the controller's power plug into an AC power outlet to power the controller.



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## STEP 6

Plug your device (not included) into one of the two sockets to power your device with the controller.



# PROGRAMMING



## 1. MODE BUTTON

Cycles through each of the controller's mode: OFF, ON, AUTO (4 triggers), TIMER TO ON, TIMER TO OFF, CYCLE (On and Off), and SCHEDULE (On and Off).

## 2. UP / DOWN BUTTON

Adjusts the parameters of the mode that you are in. In most modes, the up button increases and down button decreases the setting. Holding both buttons simultaneously sets the parameters to off.

## 3. SETTING BUTTON

Cycles through each of the controller's settings: DISPLAY BRIGHTNESS, F/C, CLOCK, CALIBRATION (Temperature and Humidity), and BUFFER (Temperature and Humidity).

## 4. OUTLET STATUS

Displays the outlet controller's power status, indicating whether or not electricity is being fed to your device. ON will display if your device is being powered and OFF will display if your device is not being powered.

# PROGRAMMING

## 5. PROBE TEMPERATURE

Current temperature that the probe is detecting. Displays "--" if no probe is plugged in. Includes a trend indicator that signals a rise, fall or no change in temperature within the last hour.

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## 6. PROBE HUMIDITY

Current humidity that the probe is detecting. Displays "--" if no probe is plugged in. Includes a trend indicator that signals a rise, fall or no change in humidity within the last hour.

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## 7. CONTROLLER MODE

Displays the mode that the controller is currently in. Pressing the mode button cycles through the available modes.

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## 8. STATUS ICONS

Flashes or displays the alert icons of the controller. The icons include TIMER ALERT and DISPLAY LOCK.

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## 9. CURRENT TIME

Displays the current time. The internal battery sustains the clock so it does not default to 00:00 if power is cut off. Please see page 20 for instructions on how to set up the clock time.

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## 10. COUNTDOWN

Displays TO ON or TO OFF COUNTDOWN to show the amount of time before the TIMER TO ON, TIMER TO OFF, CYCLE, or SCHEDULE mode activates or DEACTIVATES the fan. TO ON represents the amount of time that is left before your device turns on. TO OFF represents the amount of time that is left before your device turns off.

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## 11. USER SETTING

Displays the value of the current mode that you are in. Pressing the up or down button will adjust this value.

# PROGRAMMING

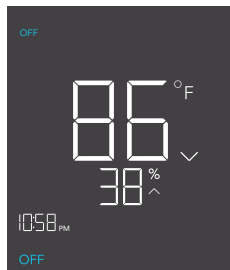
## CONTROLLER MODES

Pressing the mode button will cycle through the controller's available programming modes: OFF, ON, AUTO (4 triggers), TIMER TO ON, TIMER TO OFF, CYCLE (On and Off), and SCHEDULE (On and Off).

### OFF MODE

Your device will be off regardless of temperature, humidity, or time-based triggers.

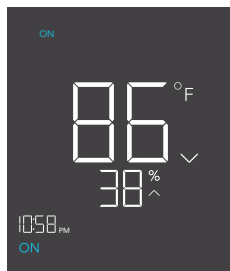
You can jump back to OFF Mode any time by holding the mode button while in other modes or settings.



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### ON MODE

Your device will be on regardless of temperature, humidity, or time-based triggers.



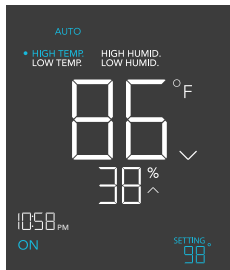
# PROGRAMMING

## AUTO MODE (HIGH TEMPERATURE TRIGGER)

Pressing the up or down button sets the high temperature trigger. Your device will turn on if the probe's reading meets or exceeds this threshold.

If the probe's reading falls below this trigger point, your device will be turned off. This turn-off point can be adjusted using the buffer setting as shown on page 21.

You may also set this trigger below the low temperature trigger to create a specific range, in which your device will only be on when it's within this range.



Note that this trigger can activate as long as you are in AUTO Mode, even if you are viewing a different trigger within AUTO Mode.

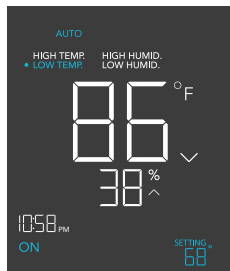
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## AUTO MODE (LOW TEMPERATURE TRIGGER)

Pressing the up or down button sets the low temperature trigger. Your device will turn on if the probe's reading meets or falls below this threshold.

If the probe's reading rises above this trigger point, your device will be turned off. This turn-off point can be adjusted using the buffer setting as shown on page 21.

You may also set this trigger above the high temperature trigger to create a specific range, in which your device will only be on when it's within this range.



Note that this trigger can activate as long as you are in AUTO Mode, even if you are viewing a different trigger within AUTO Mode.

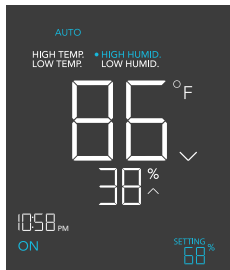
# PROGRAMMING

## AUTO MODE (HIGH HUMIDITY TRIGGER)

Pressing the up or down button sets the high humidity trigger. Your device will turn on if the probe's reading meets or exceeds this threshold.

If the probe's reading falls below this trigger point, your device will be turned off. This turn-off point can be adjusted using the buffer setting as shown on page 21.

You may also set this trigger below the low humidity trigger to create a specific range, in which your device will only be on when it's within this range.



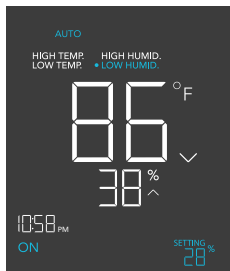
Note that this trigger can activate as long as you are in AUTO Mode, even if you are viewing a different trigger within AUTO Mode.

## AUTO MODE (LOW HUMIDITY TRIGGER)

Pressing the up or down button sets the low humidity trigger. Your device will turn on if the probe's reading meets or falls below this threshold.

If the probe's reading rises above this trigger point, your device will be turned off. This turn-off point can be adjusted using the buffer setting as shown on page 21.

You may also set this trigger above the high humidity trigger to create a specific range, in which your device will only be on when it's within this range.



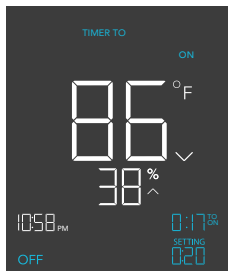
Note that this trigger can activate as long as you are in AUTO Mode, even if you are viewing a different trigger within AUTO Mode.

# PROGRAMMING

## TIMER TO ON MODE

In this mode, press the up or down button to set a countdown time. During the countdown, your device will be set to OFF. Once the countdown ends, your device will trigger to turn ON.

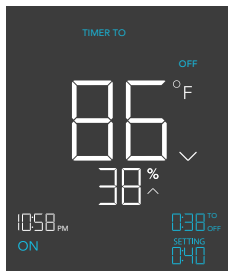
The countdown will begin if no buttons are pressed for 5 seconds. The time left on the countdown is shown on the lower right corner of the display above the setting. Leaving the timer mode while the countdown is running will pause it until you return to this mode.



## TIMER TO OFF MODE

In this mode, press the up or down button to set a countdown time. During the countdown, your device will be set to ON. Once the countdown ends, your device will trigger to turn OFF.

The countdown will begin if no buttons are pressed for 5 seconds. The time left on the countdown is shown on the lower right corner of the display above the setting. Leaving the timer mode while the countdown is running will pause it until you return to this mode.

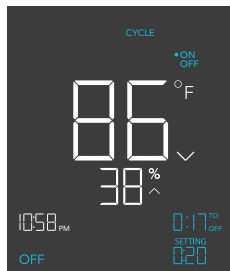


# PROGRAMMING

## CYCLE MODE (ON AND OFF)

In this mode, set an ON duration and an OFF duration for your device to cycle through continuously. Press the up or down button to first set a duration for your device to be on and then press the mode button again, to set a duration for device to be Off.

The countdown will begin if no buttons are pressed for 5 seconds. Press the up or down button to set a countdown for your device to turn on. Then press the mode button and use the up or down button to set a countdown for your device to turn off. Leaving the CYCLE mode while the countdown is running will pause it until you return to this mode.



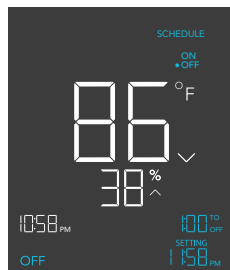
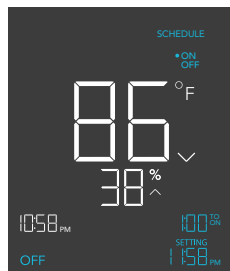


# PROGRAMMING

## SCHEDULE MODE (ON AND OFF)

In this mode, set an ON clock-time and an OFF clock-time schedule for your device to follow through daily. Press the up or down button to set a clock time for your device to turn on. Then press the mode button and use the up or down button to set a clock time for your device to turn off. Refer to page 20 to learn how to set the controller's clock time.

The countdown will begin if no buttons are pressed for 5 seconds. The time left on the countdown before the next ON or OFF phase is shown on the lower right corner of the display above the setting. Your device will not follow this schedule if you leave this mode. If you reenter the schedule mode, it will continue to follow the latest schedule you have set.



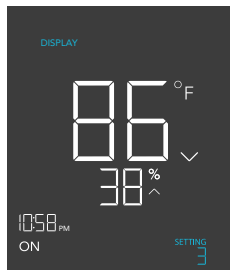
# PROGRAMMING

## CONTROLLER SETTINGS

Pressing the setting button will cycle through the controller's available settings: DISPLAY, F/C, CLOCK, CALIBRATION TEMPERATURE, CALIBRATION HUMIDITY, BUFFER TEMPERATURE, and BUFFER HUMIDITY.

## DISPLAY SETTING

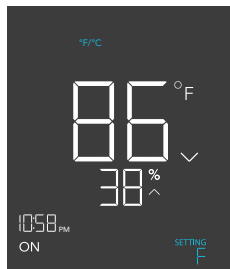
This setting adjusts the brightness of the display. Press the up or down button to cycle through 1, 2, 3, A2, and A3. The highest brightness setting is 3 while the lowest brightness is 1. The settings 1, 2, and 3 are not auto-dimming, and the display will be set at the brightness level you choose. In A2, the display is set at brightness level 2 but will dim to level 1 if the controller is not used after 15 seconds. In A3, the display is set at brightness level 3 but will dim to level 1 if the controller is not used after 15 seconds.



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## F/C SETTING

This setting changes the display between Fahrenheit (°F) and Celsius (°C) scales. Press the up or down button to switch to the temperature scale of your choice. All displayed units on the controller will automatically change with this adjustment.



# PROGRAMMING

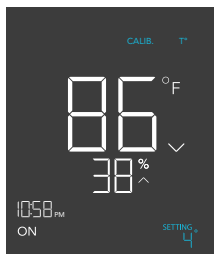
## CLOCK SETTING

This setting adjusts the current clock time. Press the up or down button to increase or decrease the time. Every cycle past 12:00 will switch the time between AM and PM. The current clock time will be shown at the lower left corner of the display.



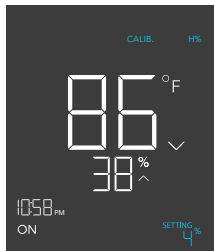
## CALIBRATION TEMPERATURE SETTING

This setting adjusts the temperature reading that the sensor probe is measuring. Press the up or down button to increase or decrease the data figure by 2°F (or 1°C) increments. The calibration cycle ranges from -8°F to 8°F (or -4°C to 4°C) and will be applied to the sensor probe's measurements.



## CALIBRATION HUMIDITY SETTING

This setting adjusts the real humidity reading that the sensor probe is measuring. Press the up or down button to increase or decrease the data figure by 1% increments. The calibration cycle ranges from -8% to 8% and will be applied to the sensor probe's measurements.



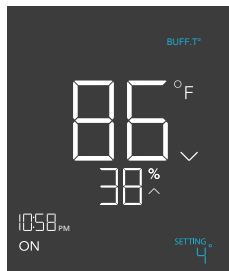
# PROGRAMMING

## BUFFER TEMPERATURE SETTING

The buffer used in the auto mode temperature trigger can be adjusted to prevent the device from turning on and off too quickly due to changing conditions in your environment.

In high temperature triggers, your device will turn on, only turning off when the measured temperature falls below the set temperature by the buffer number you have set here.

In low temperature triggers, your device will turn on, only turning off when the measured temperature rises above the set temperature by the buffer number you have set here.



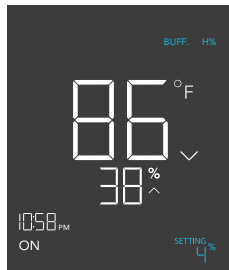
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## BUFFER HUMIDITY SETTING

The buffer used in the auto mode humidity trigger can be adjusted to prevent the device from turning on and off too quickly due to changing conditions in your environment.

In high humidity triggers, your device will turn on, only turning off when the measured humidity falls below the set humidity by the buffer number you have set here.

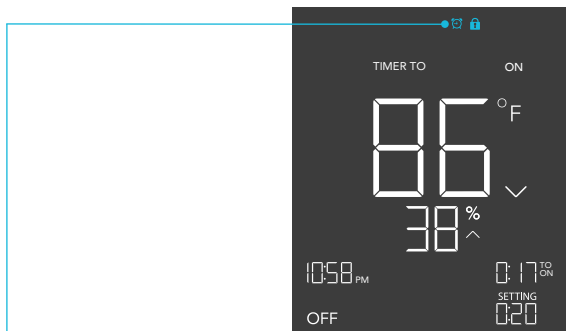
In low humidity triggers, your device will turn on, only turning off when the measured humidity rises above the set humidity by the buffer number you have set here.



# PROGRAMMING

## ALERT ICONS

On the top left of the display is the alert icon section. Icons may flash when the controller wishes to alert you that a particular function or alarm is being triggered.



### TIMER ALERT

This icon will flash when a countdown has completed in TIMER TO ON, TIMER TO OFF, CYCLE, or SCHEDULE Mode.



### DISPLAY LOCK ALERT

This icon will display when you lock the controller. The icon will flash and beep if you attempt to adjust the controller while it is still locked.

# OTHER SETTINGS

## FACTORY RESET

To reset the controller back to factory settings, hold the mode button, the up button, and the down button simultaneously for four or more seconds. Resetting the controller will clear user settings in all modes and controller settings.

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## CONTROLLER LOCK

To lock the controller to prevent accidental changes or tampering, hold the settings button for two or more seconds. While the display is locked, you will not be able to switch modes or change any settings. You will be able to hide the screen by pressing the settings button while the controller is locked. Holding the settings button for two or more seconds will unlock the controller.

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## HIDE SCREEN

The screen on the display can be hidden but all programs and settings will continue to run in the background. This can be done by first holding the settings button to lock the controller. Once locked, pressing the setting button will hide and unhidden the screen.

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## JUMP TO OFF MODE

Holding the mode button for two or more seconds while in any mode or settings will automatically jump to OFF Mode. This will not work if the controller is locked.

---

## SET MODE PARAMETERS TO OFF

Holding the up and down button simultaneously will automatically set the parameter for the mode you are in to OFF or 0. In trigger modes, the OFF parameter is usually located between the highest and lowest settings point. This shortcut allows the user to quickly jump to OFF without cycling.

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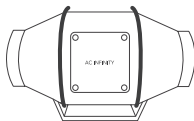
## AUTO INCREASING OR DECREASING

Holding the up or down button will increase or decrease user parameters automatically until the user releases the up or down button.

# AC INFINITY PRODUCTS

## Inline Fans

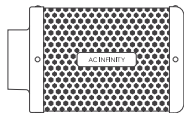
The CLOUDLINE series is a line of duct fans designed to quietly ventilate AV rooms and closets, as well as various DIY air circulation and exhaust projects. Features a thermal controller with intelligent programming that will automatically adjust duct fan speeds in response to changing temperatures.



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## Carbon Filter

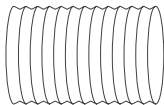
The duct carbon filter is designed to eliminate odors and chemicals for grow tents and hydroponic spaces. It utilizes premium grade Australian charcoal that features greater absorption power and a longer lifespan. Enables maximum airflow pass through as part of an intake or an exhaust system.



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## Ducting Tubes

The four-layer ducting tube is used to direct airflow, designed for ventilation systems in applications like HVAC, dryers, and grow rooms. It is highly durable and flexible, and can be used anywhere from tight spaces to wide open areas.



Discover the latest innovations in cooling and ventilation at [acinfinity.com](http://acinfinity.com)

# WARRANTY

This warranty program is our commitment to you, the product sold by AC Infinity will be free from defects in manufacturing for a period of two years from the date of purchase. If a product is found to have a defect in material or workmanship, we will take the appropriate actions defined in this warranty to resolve any issues.

The warranty program applies to any order, purchase, receipt, or use of any products sold by AC Infinity or our authorized dealerships. The program covers products that have become defective, malfunctioned, or expressively if the product becomes unusable. The warranty program goes into effect on the date of purchase. The program will expire two years from the date of purchase. If your product becomes defective during that period, AC Infinity will replace your product with a new one or issue you a full refund.

The warranty program does not cover abuse or misuse. This includes physical damage, submersion of the product in water, incorrect installation such as wrong voltage input, and misuse for any reason other than intended purposes. AC Infinity is not responsible for consequential loss or incidental damages of any nature caused by the product. We will not warrant damage from normal wear such as scratches and dings.

For more information about our dealers and distributors, please contact our customer service at support@acinfinity.com or (626) 923-6399 Monday to Friday (9:00 am to 5:00 pm PST).



**If you run into any issues with this product, contact us and we'll happily issue a replacement or a full refund!**



#### FCC Warning

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.

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

NOTE: 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.

#### Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

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