

C.CRANE

***Super USB  
WiFi  
Antenna 3***

**QUICK START  
GUIDE**

PLEASE READ ALL INSTRUCTIONS COMPLETELY  
BEFORE USE AND SAVE THIS MANUAL FOR  
FUTURE REFERENCE

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## Introduction

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Thank you for purchasing the Super USB WiFi Antenna 3. To ensure many years of service, please read this manual carefully.

## Included Contents

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USB Antenna  
Software CD  
15' USB cable  
Suction Cups (2)  
Hook and Loop Mounting Strip  
Cable Tie  
Rubber Grommets (2)  
Lanyard

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### Compatibility

- Windows 2000™ through Windows 7™
- Mac OS® 10.3 (Tiger) through 10.6 (Snow Leopard)
- Linux operating systems
- USB 1.1 - 2.0 interface
- 802.11b, 802.11g, and 802.11n
- WEP, WPA, and WPA2 encryption

### Features

- Line of sight (no obstructions) operation of up to one mile.
- WiFi Strength: 28db EIRP (+/- 2db)
- Waterproof design (IP65 Standard)
- High-quality 15' USB cable (Optional 30' cable available at [www.ccrane.com/SPC](http://www.ccrane.com/SPC))
- Up to 150MBps file transfer rate

## Introduction to Software Installation

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Since not all operating systems are the same (e.g. Windows, Apple/Mac, Linux), we have supplied installation directions for each type. Please read and follow each step of the installation and connection instructions for your operating system.

**Please install the software on the CD according to the instructions in this Quick Start Guide, BEFORE the antenna is plugged in.**

Linux users: See instructions on the Software CD.

Windows is a registered trademark of Microsoft Corporation in the United States and other countries. Windows 7 is a registered trademark of Microsoft Corporation in the United States and other countries. Mac OS is a registered trademark of Apple Inc.

## Windows 2000 – 7 Installation

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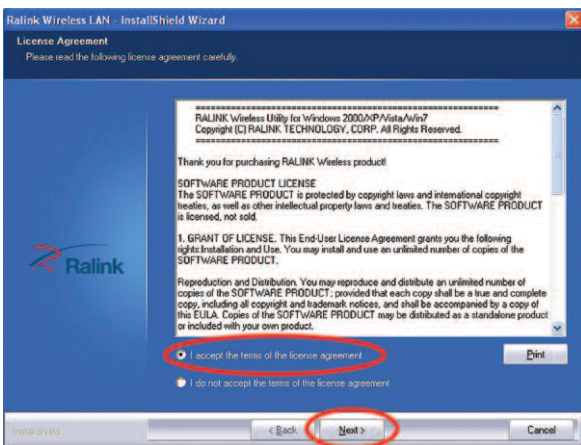
### Installation

**NOTE:** Please install the software on the CD according to the instructions in this Quick Start Guide, **BEFORE** the antenna is plugged in.

1. Insert the supplied **CD** into your computer's **disk drive**. The setup software should start automatically after a few seconds.
2. When the first screen appears, click "**Driver Installation**".



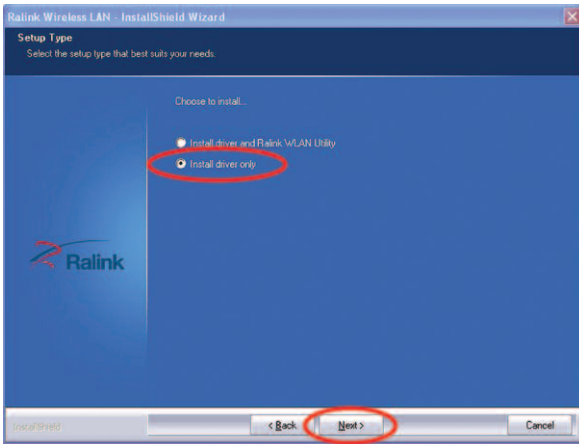
3. When the "License Agreement" screen appears, click "**I accept the terms ...**", then click "**Next**".



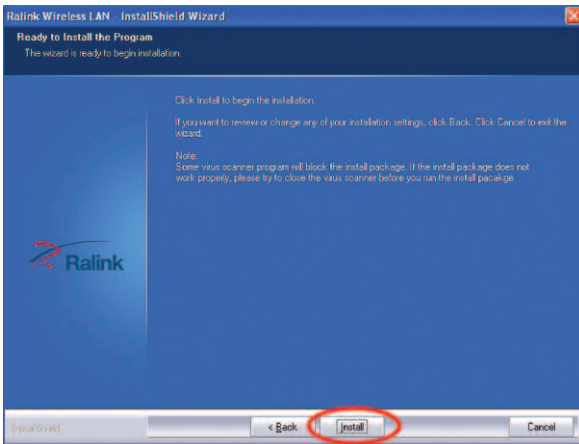
4. When the "Setup Type" screen appears, click "**Install driver only**", then click "**Next**".

**Note:** Installing the "**Driver Only**" is the easiest way to use your antenna. We recommend that only advanced users and Windows 2000 users install the Ralink WLAN Utility. For more assistance using the Ralink WLAN Utility, refer to the full user manual on the supplied CD.

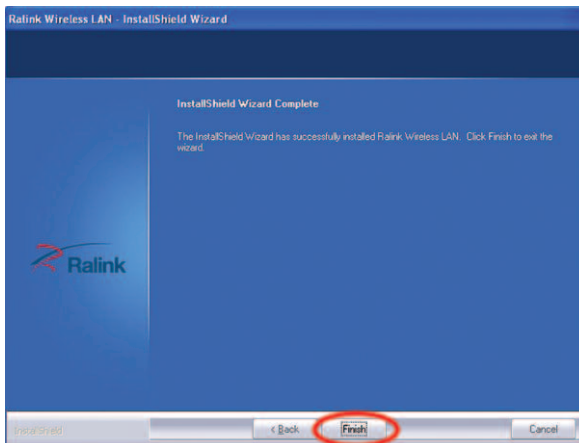
## Windows 2000 – 7 Installation



5. Click **“Install”** to continue the installation.



6. When the computer has finished installing the driver, click **“Finish”** to exit the setup and begin using your antenna.



## Windows 2000 – 7 Installation

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7. Connect the **USB cable** between the **Super USB WiFi Antenna 3** and your computer's **USB port**. If you have two USB ports available, both connectors can be plugged in for better performance. If you only have one USB port available, the antenna will still work well. USB cables plug in just one way and should not be forced in.

**Note:** When connecting the USB cable to the Super USB WiFi Antenna, be sure that it is tightly connected and that there is no gap between.

**For Outdoor Use:** We recommend using the supplied rubber grommet between the antenna and the cable, to protect the antenna connector from weather.

### Connecting to a WiFi Site

Access the built-in Windows wireless utility using the icon that shows up in the clock taskbar. For each Windows operating system, the utility works differently. Please follow the directions below.

#### Windows XP

1. Left click the icon below. A small window will appear titled "Wireless Network Connection Status".



**Note:** If there are more than one wireless icon that appear in this area, hover your cursor over each icon and choose the one with highest number after "Wireless Connection" (example: "Wireless Connection 2").

2. Left click "**View Wireless Networks**".
3. Left click the network of your choice from the list, then left click "**Connect**".

**Note:** If the network site shows "Security-enable wireless network", you are required to enter the correct key to make a successful connection. If the network site shows "Unsecured Wireless Network" then you will not need to enter a key before connecting. Successful connection to a wireless network usually requires a minimum of 2 bars of signal.

4. Once you are connected, you will be able to access the internet using your default web browser.

### Windows Vista

1. Left click the icon below. A small window will appear titled "Wireless Network Connection Status".



2. Left click "**Connect to a Network**".
3. Left click the network of your choice from the list, then left click "**Connect**".

**Note:** If the network site shows "Security-enable wireless network", you are required to enter the correct key to make a successful connection. If the network site shows "Unsecured Wireless Network" then you will not need to enter a key before connecting. Successful connection to a wireless network usually requires a minimum of 2 bars of signal.

4. Once you are connected, you will be able to access the internet using your default web browser.

### Windows 7

1. Left click the icon below. A small window will pop up showing wireless networks that can be detected.



**Note:** If you have built-in WiFi in your computer, you may have to scroll down the list of networks to see the additional ones that your new antenna can detect. Successful connection to a wireless network usually requires a minimum of 2 bars of signal.

2. Left click the network of your choice from the list, then left click "**Connect**".
3. Once you are connected, you will be able to access the internet using your default web browser.

### Windows 2000




**Note:** Since Windows 2000 does not have its own built-in wireless utility, you will be required to install the Ralink WLAN Utility from the CD. Refer to the full user's manual supplied on the CD for more assistance.

## Mac OS 10.3 – 10.6 Installation

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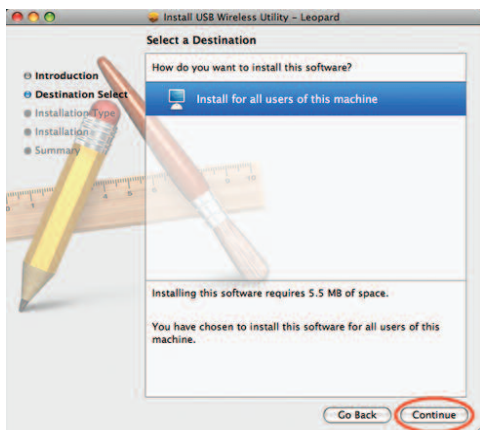
### Installation

**NOTE:** Please install the software on the CD according to the instructions in this Quick Start Guide, **BEFORE** the antenna is plugged in.

1. Insert the supplied **CD** into your computer's **disk drive**.
2. Double click on the **CD icon**. 
3. Double click on the **“Mac”** folder. 
4. Double click on your Mac OS version. 
5. When the “Introduction” screen appears, click **“Continue”**.



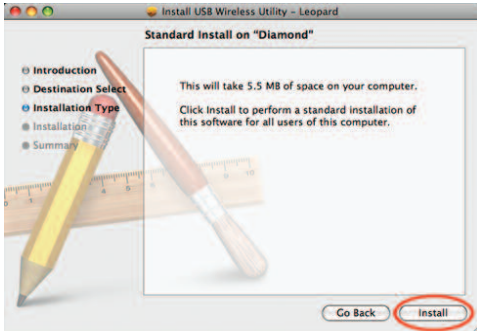
6. When the “Destination Select” screen appears, click **“Continue”**.



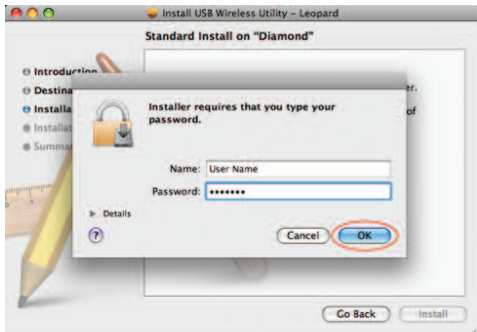
7. When the “Installation Type” screen appears, click **“Install”**.



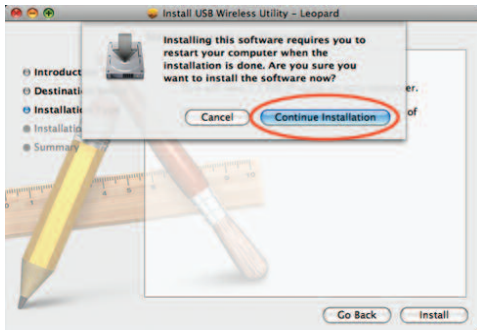
## Mac OS 10.3 – 10.6 Installation



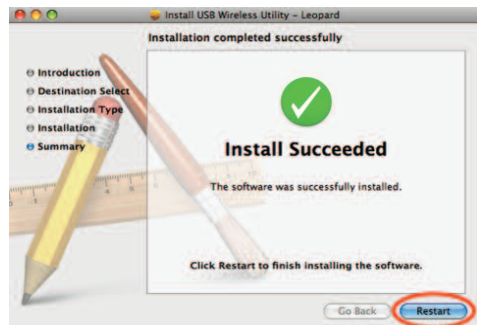
8. When prompted, enter your **"Name"** and **"Password"**.



9. When prompted, click **"Continue Installation"**.



10. When the "Summary" screen appears, click **"Restart"**.



## Mac OS 10.3 – 10.6 Installation

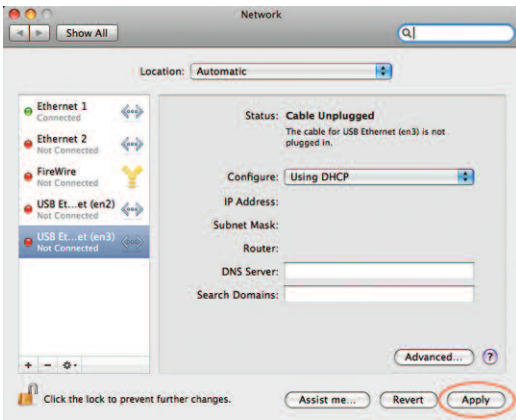
**Note:** During Restart, a “**Updating Boot Caches**” screen will appear. Click “**OK**” and the restart will continue.

11. When the computer is fully powered on, plug in the **Super WiFi USB Antenna** into your computer’s **USB port**. If you have two USB ports available, both connectors can be plugged in for better performance. If you only have one USB port available, the antenna will still work well. USB cables plug in just one way and should not be forced in.

**Note:** When connecting the USB cable to the Super USB WiFi Antenna, be sure that it is tightly connected and that there is no gap between.

**For Outdoor Use:** We recommend using the supplied rubber grommet between the antenna and the cable, to protect the antenna connector from weather.

12. **MAC OS 10.5 and MAC OS 10.6 users:** Click “**Network Preferences ...**” and then click “**Apply**” to activate the antenna.



**MAC OS 10.3 and 10.4 users:** Go to the “**System Preferences**” panel and then click “**Network**”. A message displays “**New Port Detected**”. Click “**OK**” and then click “**Apply**” to activate the antenna.

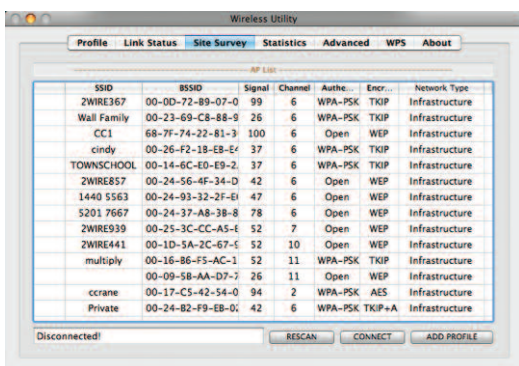


### Connecting to a WiFi Site

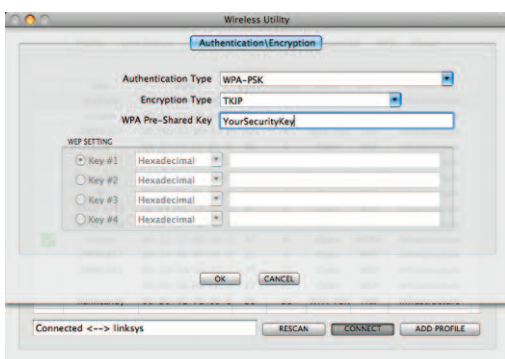
1. From the dock, click the “**Ralink**” icon to activate the “**WLAN**” utility, or find it in the “**Applications**”/ “**Utilities**” menu.



2. Select your desired WiFi network from the “**Site Survey**” list, then click “**Connect**”.



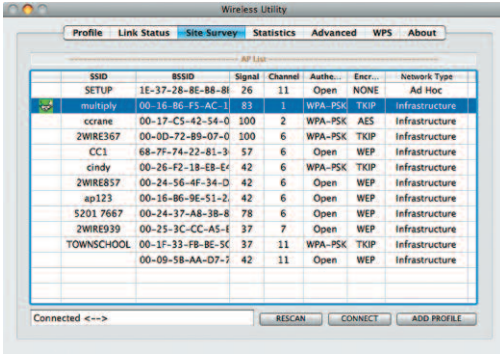
3. If the selected network requires a WPA security key, enter it into the corresponding space. If your network requires a WEP key, then enter it into the space after “**Key #1**” Hexadecimal. Then click “**OK**”.



4. When you are successfully connected to the wireless site, a handshake icon will appear in the first column, next to your SSID (network name).

At this point, you will be able to access the internet using your default web browser.

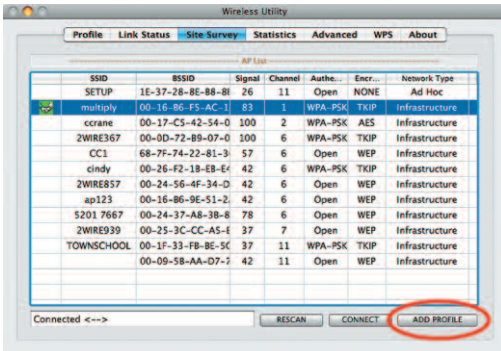
# Mac OS 10.3 – 10.6 Installation



## Creating a Profile

We recommend that you create a profile for your wireless connection so that you will not need to re-enter your network information every time your computer is turned on.

To get started, click your desired SSID from the “**Site Survey**” list, then click “**Add Profile**”. You will need to re-enter your wireless security key again, then click “**OK**”.



5. Once your profile is complete, you can activate it by selecting it from the “**Profile**” tab and then click “**Connect**”.

For more WiFi Tips, see the C. Crane web site at:  
[www.ccrane.com/US3](http://www.ccrane.com/US3)

**1. Receiving an outside signal while inside a building:**

Place the Super USB WiFi Antenna oriented vertically in the center of a window. It is best to place it in a window that is facing the WiFi source. Obstructions between the source of the WiFi signal and the antenna will greatly reduce the effective WiFi range.

**2. Receiving a better signal with the antenna mounted outside:**

For an even better signal, place the antenna outside where it is not inhibited by walls or windows. It is best to place the antenna as high as possible and at least 3ft away from metal objects. There is also an optional 30ft cable available at [www.ccrane.com/SPC](http://www.ccrane.com/SPC) which will allow you to place the antenna in a farther location. Be sure to use the rubber grommet between the antenna and the cable to protect the connection from weather.

**3. Receiving an inside signal from within the same building:**

If the WiFi source is located on the same floor, orient the Super USB WiFi Antenna vertically. If the WiFi source is located on a floor above or below, it may be necessary to adjust the angle of the antenna to receive in the direction of WiFi source.

**4. Mounting Options:**

Supplied with the antenna are mounting options for most situations.

- For mounting on a vertical pole, use the Cable Tie. Place it around the narrowest part of the antenna, near the middle, to secure it to the pole.
- For mounting on a horizontal tree branch, clothesline, or other object, use the supplied Lanyard. Loop the small section through the hole at the top of the antenna. Loop the larger ribbon section around, or hang it on the object. Both sections of the Lanyard detach for easy installation and removal.
- For smooth surfaces like a window or back of a laptop screen, use the supplied Suction Cups. Slide the suction cups onto the antenna and dampen the cup portion before application.
- For a porous wall or shelf, you can use the sticky Hook and Loop material. Attach one piece to the antenna and the other to the mounting surface.

## FAQs and WiFi Troubleshooting

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- Q. My computer is not showing that the antenna is plugged in. What is wrong?**
- A.** Check the connection between the antenna and the cable to be sure they are tightly connected.
- Q. My software shows that the antenna is connected but when I try to use my internet browser I am unable to view anything. What should I do?**
- A.** You may not have a strong enough WiFi connection. Successful connection to a wireless network usually requires a minimum of 2 bars of signal. If the signal is low, you can try relocating or repositioning the antenna with a better line-of-sight view to the WiFi source.
- Q. I purchased the USB WiFi Antenna and when it is hooked up it does not improve my WiFi reception. Is there something I can do to make it work better?**
- A.** Be sure that the antenna is positioned vertically in the center of the window, if the WiFi source is outside your location. Using the optional 30ft accessory cable, you can mount your antenna outside and up high for best reception. Visit [www.ccrane.com/SPC](http://www.ccrane.com/SPC) for more information or to purchase the 30ft cable.
- Q. Is there a location on the web to download another copy of the software CD?**
- A.** Yes, see the C.Crane web site at this address:  
[www.ccrane.com/US3](http://www.ccrane.com/US3)
- Q. Which side (front or back) faces the window when using the suction cups?**
- A.** It's up to you. The Super USB WiFi Antenna 3 is omni-directional, and so it can receive the signal from any direction.
- Q. My computer has an internal WiFi antenna; do I need to disable it before installing the software and the Super USB WiFi Antenna?**
- A.** It is not required, but if both WiFi connections are going at the same time, it will require more power from your computer and create extra heat. Usually there is a button, switch, or key on a laptop that disables the built-in WiFi device.

For more troubleshooting and FAQs, see the C. Crane web site at: [www.ccrane.com/US3](http://www.ccrane.com/US3)

# **FCC Interference Statement and Safety**

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## **Federal Communication Commission Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Operation is subject to the following two conditions:

1. This device may not cause harmful interface, and
2. This device must accept any interface received, including interface that may cause undesired operation. 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:
  - a. Reorient or relocate the receiving antenna.
  - b. Increase the separation between the equipment and receiver.
  - c. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - d. Consult the dealer or an experienced radio technician for help.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

### **CAUTION:**

1. **To comply with FCC RF exposure compliance requirements, a separation distance of 20 cm (about 8 inches must be maintained between the antenna of this device and all persons.**
2. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

# Warranty Information

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## One Year Limited Warranty

C. Crane Company Inc. warrants this product to be free from defects in material and workmanship under normal use and conditions for a period of one year from the date of original purchase on parts and labor.

Should service be necessary for any reason due to a manufacturing defect or malfunction during the warranty period, C. Crane Company Inc., at its sole discretion, will repair or replace the defective merchandise at no charge, upon receipt of this item at its service center with a copy of proof of date of purchase. The consumer purchaser is responsible for shipping the unit to C. Crane Company Inc.'s service center.

In order to obtain performance of any obligation under this warranty or any implied warranty, the consumer purchaser must:

- 1) Carefully pack the unit in the original packing cartons or a suitable, well-padded corrugated box.
- 2) Call 1-800-522-8863 for a Return Authorization (RA) number, and mark the RA number on the outside of the packing carton. Also enclose a copy of proof of date of purchase and a note describing your specific problem.
- 3) Ship the unit **insured for full retail value** via Parcel Post or a common carrier of your choice.

NOTE: This warranty does not cover:

- A) Antennas that have been misused, neglected or damaged by accident.
- B) Antennas that have been opened, repaired or altered by persons other than C. Crane Company Inc.

This warranty is valid only in the United States of America and Canada and extends only to the original consumer purchaser. Any applicable implied warranties, including the warranty of merchantability, are limited in duration to a period of one year from the date of the original purchase at retail and no warranties, whether expressed or implied, shall apply to this product thereafter. Under no circumstances shall C. Crane Company Inc. be liable for any loss or damage, direct or consequential arising out of the use of, or inability to use this product, (some states do not allow limitations on implied warranties or exclusion of consequential damage, therefore, these restrictions may not apply to you).

This warranty gives you specific legal rights and you may also have other rights that may vary from state to state.

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FCC ID: TKZAWUHN2405

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 UNDESIRE OPERATION.