

C.CRANE

**Dual Band
Super USB
WiFi
Antenna DX**

**Quick
Start
Guide**

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

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Introduction

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

Included Contents

Dual Band Super USB WiFi Antenna DX
Software USB Drive
15' USB split cable
Suction Cups (2)
Hook and Loop Mounting Strip
Cable Tie
Lanyard
Silicone Lubricant
Coaxial Sealant

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Specifications

Compatibility

- Windows 7™ through Windows 11™.*
- USB 1.1 - 3.0.
- 802.11b, 802.11g, 802.11n and 802.11ac.
- WEP, WPA, WPA2 and WPS encryption.
- Wireless Routers 2.4 and 5 GHz.

Features

- Line of sight (no obstructions) operation of up to one mile.
- WiFi Strength: 28db EIRP (+/- 2db).
- Water Resistant indoor/outdoor design (IP65 Standard).
- High-quality 15' USB cable.
- Up to 433 Mbps connection.

Introduction to Software Installation

Since not all operating systems are the same we have supplied installation directions for each type. Please read and follow each step of the installation and connection instructions for your operating system.

Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

Windows 7 - 11 Installation

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

1. Insert the supplied USB drive into your computer and open its contents to view files and folders.



Windows
32 bit
version.exe

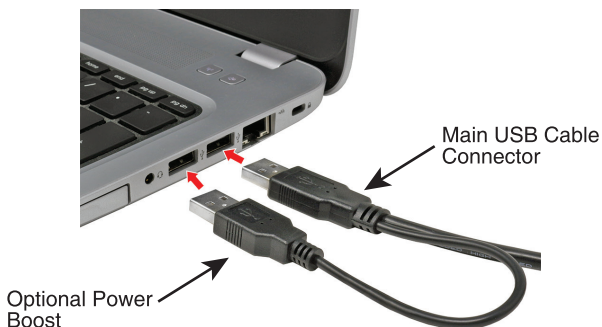


Windows
64 bit
version.exe

2. Install the Windows driver by double-clicking “**Windows 64 Bit Version**” or “**Windows 32 Bit Version**” depending on what type of operating system you have.

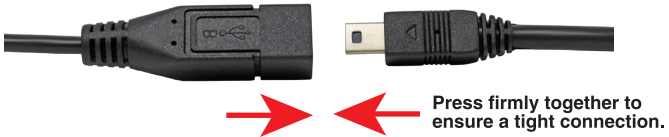
Note: If you are unsure of your operating system type then install both files. This will not confuse or affect the installation. Your computer will know which version to use.

3. The installation should only take a few seconds. You might see a temporary black command prompt installing files. After it disappears the driver installation is finished.
4. Unplug the software USB drive and store for future installation if needed.
5. Connect the 15 foot USB cable between the Dual Band Super USB WiFi Antenna DX (see Assembly Guide and Mounting Options) and your computer’s USB port. If you have two USB ports available, both connectors can be plugged in for better performance. If only one USB port is available, plug in the main USB cable connector (not the optional Power Boost connector).



Windows 7 - 11 Installation

Note: When connecting the USB cable to the Dual Band Super USB WiFi Antenna DX, be sure that it is tightly connected and there is no gap between. **CAUTION:** The small plug slides into the antenna receptacle, and will fit only one way. Please use care to make sure both pieces are lined up correctly.



We recommend antenna placement at least 3-5 feet from your computer if the built-in WiFi is also enabled.

For boat and extended outdoor use: We recommend coating the outside of the male connector (metal and plastic) with silicone lubricant (included). Plug in the cable and then wrap coaxial seal (included) around the entire cable connection for better protection.

Connecting to a WiFi Site

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

Windows 7/8

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 networks 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”**.

Note: If the network requires a password or security key then it is not open to the public. You will have to enter the password before continuing to the Internet. The password should be known by the owner or administrator of the network.

3. Once connected to the network, you should be able to access the Internet using your default web browser (i.e. Chrome, Edge, Firefox – provided that the network offers Internet access).

Windows 7 - 11 Installation

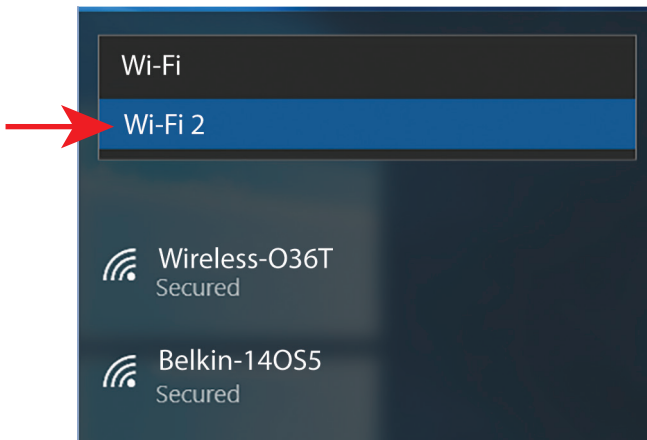
Windows 10/11

1. Left click on the icon below.



2. A pop-up menu will rise from the icon and will display the available networks in your area.

NOTE: If your computer also has built-in WiFi then you will need to look for a pull-down option next to the word “Wi-Fi”...



then click on the drop-down arrow and select Wi-Fi 2 (or another number) that represents the Dual Band Super USB WiFi Antenna DX.

3. You should now see the networks listed for this device.
4. Left click the network of your choice from the menu list, then left click “**Connect**”.

Note: If the network requires a password or security key then it is not open to the public. You will have to enter the password before continuing to the Internet. The password should be known by the owner or the administrator of the network.

5. Once connected to the network, you should be able to access the Internet using your default web browser (i.e. Chrome, Edge, Firefox – provided that the network offers internet access).

For more WiFi Tips, see the C. Crane website at:
www.ccrane.com/USBDX

1. Receiving an outside signal while inside a building:

Place the Dual Band Super USB WiFi Antenna DX 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 3 feet away from metal objects.

For Boat and Extended Outdoor Use:

We recommend coating the outside of the male connector (metal and plastic) with silicone lubricant (included). Plug in the cable and then wrap coaxial seal (included) around the entire cable connection for better protection.

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

If the WiFi source is located on the same floor, orient the Dual Band Super USB WiFi Antenna DX 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 the 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.

WiFi Tips

For a porous wall or shelf, you can use the sticky Hook and Loop mounting strip. Attach one piece to the antenna and the other to the mounting surface.

FAQs and WiFi Troubleshooting

- 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. If only one USB port is available, make sure to use the main USB cable connector, not the optional Power Boost connector (single loose connector).
- Q. My computer 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; or the wireless network does not offer Internet service; or a firewall/virus protection is preventing access.
- Q. I purchased the Dual Band Super USB WiFi Antenna DX 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 30 foot USB split cable, you can mount your antenna outside and up high for best reception. Visit www.ccrane.com/SPC for more information or to purchase the 30 foot USB split cable, or coaxial sealant.
- Q. Can I use a passive USB extension cable to add on to the existing length of the cable that came with the Dual Band Super USB WiFi Antenna DX.**
- A. No, the Dual Band Super USB WiFi Antenna DX should not be connected to an additional passive USB extension cable. Please use the 15 foot USB split cable that came with the antenna, or replace it by purchasing the optional 30 foot USB split cable.

FAQs and WiFi Troubleshooting

- Q. Is there a location on the web to download another copy of the software?**
- A. Yes, see the C. Crane website at this address:
www.ccrane.com/USBDX
- Q. My laptop/computer has an internal WiFi antenna. Is it necessary to disable it before installing the software and the Dual Band Super USB WiFi Antenna DX?**
- A. It is not required, but it is recommended. 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.
- Q. Which side (front or back) faces the window when using the suction cups?**
- A. It is up to you. The Dual Band Super USB WiFi Antenna DX is omni-directional, so it can receive the WiFi signal from any direction.
- Q. Can I use the antenna with a non-Windows or Apple device to increase my WiFi reception?**
- A. No. The Dual Band Super USB WiFi Antenna DX requires installation of Windows software drivers.
- Q. What does the red light on the antenna mean?**
- A. The flashing light means the antenna is getting power and is communicating with the computer.
- Q. Can I connect the Dual Band Super USB WiFi Antenna DX to more than one Windows computer/laptop?**
- A. No.

For more troubleshooting and FAQs, see the C. Crane website at: www.ccrane.com/USBDX

Optional Accessories

Available at ccrane.com or call: 1-800-522-8863



30 foot USB Cable
Item # SPC



Coaxial Sealant
Item # CSI



Silicone Lubricant
Item # SIL

FCC Interference Statement and Safety

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.

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.
3. Do not use or leave the unit in areas of high temperature or exposed to direct sunlight for an extended period.

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 UNDESIRED OPERATION.