Long Range WiFi Bridge System Setup Guide

Your equipment has been pre-configured by C. Crane to work right out of the box, once all cables are connected properly. Please follow the setup instructions below, while referencing each step number to the corresponding **Connection Diagram**.

Note 1: *An existing Internet connection, router, and WiFi antennas are required to complete this system.*

Note 2: *When unpacking, notice that the cables are already connected to each part properly. The cables must be connected in this configuration in order to function.*

On the Host House (This house provides the Internet Signal)

1. Connect the *5-foot Ethernet Cable* to one of the ports titled “1”, “2”, “3”, or “4” on your existing Internet router.

2. Plug the *Power Injector* into 120V AC power (standard USA wall power outlet) using the power cable.

3. Apply *Silicone Grease* to the connector threads on the antenna (sold separately). Attach the *Host Bridge* to the antenna. Once attached, wrap protective *Coax Tape* around the outside of the connectors to ensure a good waterproof seal for outdoor mounting.

4. If using directional antennas, be sure that both antennas are accurately pointed toward each other. If using an omni-directional WiFi antenna, be sure that is vertically oriented. There must be good line of sight without obstructions for the best signal. Outdoor use is recommended for both the Host and Client antennas.

On the Client House (This house borrows the Internet Signal)

5. Mount your WiFi antenna (not included) in a good location with clear line of site to the Host antenna. See connection instructions in 3 above.

6. Connect the *5-foot Ethernet Cable* to your computer or a router’s internet port**.

7. Plug the *Power Injector* into 120V AC power (standard USA wall power outlet) using the power cable.

8. Check the lights on the Client Bridge: bottom blue light is power. The next one is for connectivity (to a router or computer). The upper red, orange and green lights are signal strength from low to high.

*** If installing a router on the client side, it will not work if it is using a similar IP address as the host router. For example, if host router’s IP address is set to 192.168.1.1, then change the client router to 192.168. 3.1*

Long Range WiFi Bridge System
General Specifications

General Specifications	
Chipset:	AR9331
Flash/SDRAM:	16 M / 64 M
Networking Interface:	1 X 10/100 BASE-TX (Cat. 5-6, RJ-45) Ethernet Interface
WiFi Mode:	802.11b/g/n mixed
Standard POE Mode:	802.3at/af
Transmit Power	Max 800mW, regular 400mW
Receive Sensitivity	-90dBm @ 802.11n -95dBm @ 802.11b/g
Frequency:	2.4 GHz ISM Band
Security:	504 bit WPA2 Encryption
Antenna Connector:	N-Male
Power Supply:	Input: 100~240 50-60Hz 0.55A Output: DC 48V (0.5A)
Power Method:	Passive Power over Ethernet (pairs 4,5+; 7,8 return)
Operating Temperature:	-4° Fahrenheit to +149° Fahrenheit (-20 to +65 Celsius)
Bridge Device Weight:	5.1 ounces
Bridge System Weight:	7 Lbs (not including antennas)
Ethernet Cable #1:	50 FT, Category 6 Enhanced 550MHz, ANSI/TIA/EIA 568B.2, UTP Unshielded Twisted Pair, PVC Jacket, 24 AWG, Gold Plated Connectors
Ethernet Cable #2:	5 FT, Category 5 Enhanced 350MHz, TIA/EIA 568B.2, UTP Unshielded Twisted Pair, PVC Jacket, 24 AWG, Gold Plated Connectors
Approvals	FCC Part 15.247, IC RS210, IP68
RoHS Compliance:	YES

NOTE: The Long Range WiFi Bridge System does not require programming by the user. Please DO NOT RESET the system for any reason. We recommend contacting C. Crane's Technical Support if this system is not working properly.

For troubleshooting, please call us at 800-522-8863, Monday - Friday 8:15 AM - 5:00 PM (PST)
Closed 12:00 PM - 1:15 PM (PST) for lunch.