

# WES5 Series

## Model # WES5-AX-BF

9 dBi Directional WES5 Single Transceiver

### Introduction

This document provides basic info for wireless set up.



Use the camera application on your smart device to scan the code to access more info on the WES5 Series.

### General Information

Your product may be custom-configured with the service code "KBC-PRE-CONF" or "WES5-SETUP". In those cases, refer to all provided pre-set configuration documentation in the box.

Inspect all contents upon receipt. Claims and discrepancies must be reported within 1 week of original product shipment from KBC.

Anything not up to your standards? Contact KBC at [info@kbcnetworks.com](mailto:info@kbcnetworks.com) to obtain a return authorization and/or replacement. The standard warranty covers defect or failure due to normal usage.

### System Contents



WES5-AX-BF radio with integrated antenna



Pole mount kit (shown assembled) qty 1

**Note:** WES5-AX-BF is powered via 802.3af PoE or passive 48V PoE. No injectors supplied.

### Contact Us Now:

KBC Networks is committed to product and customer support.



(949) 503-3470  
Mon-Fri 6a-5p Pacific / 9a-8p Eastern



Ask a question @  
[www.kbcnetworks.com/WES5-series](http://www.kbcnetworks.com/WES5-series)



[info@kbcnetworks.com](mailto:info@kbcnetworks.com)



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



[kbcnetworks.com/WES5](http://kbcnetworks.com/WES5)



2-year repair warranty



802.3af or passive 48V PoE needed



Power box enclosure available to power/connect camera(s) and wireless



If using with a solar kit, disable Wi-Fi-0 for power conservation mode.



Item missing? Check contents below and report within 1-week

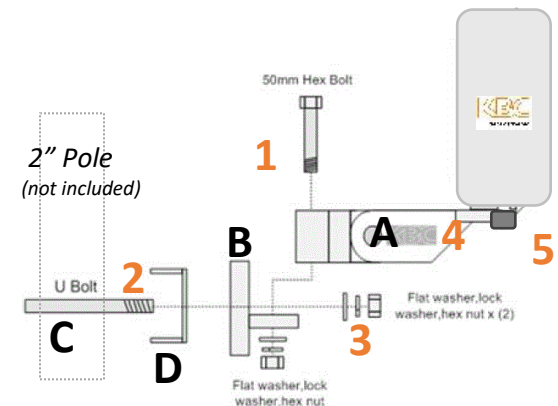
### Qty Description

|   |   |
|---|---|
| 1 | WES5-AX-BF radio unit & attached Cable Gland    |
| 1 | Antenna mounting baseplate ("A" in diagram)     |
| 2 | hex bolts previously installed into assembly    |
| 2 | lock washer                                     |
| 1 | flat washer                                     |
| 1 | 1/4" hex nut                                    |
| 1 | Swivel bracket plate ("B" in diagram)           |
| 1 | Wall/pole mount bracket assembly kit including: |
| 1 | U bolt ("C" in diagram)                         |
| 1 | Pole clamp bracket ("D" in diagram)             |
| 2 | 1/4" hex nuts (one attached to 50mm bolt)       |
| 2 | 1/4" flat washers                               |
| 2 | 1/4" lock washers                               |

### Default Configurations

| Parameter            | Setting             |
|----------------------|---------------------|
| LAN IP Address       | 192.168.1.202       |
| GUI User ID          | admin               |
| GUI Password         | password            |
| DHCP Server Mode     | Enabled             |
| DHCP Server IP range | 192.168.1.100 ~ 150 |
| Wi-Fi-0 Mode         | Access Point WDS    |
| Wi-Fi-0 SSID         | WES5-2.4G           |
| Pre-shared Key       | KBCnetworks         |
| Mode/Frequency       | 802.11axg / auto    |
| Chan Spectrum Width  | 40MHz               |
| Wi-Fi-1 Mode         | Access Point WDS    |
| Wi-Fi-1 SSID         | WES5-5G             |
| Pre-shared Key       | 11111111            |
| Mode / Frequency     | 802.11axa / auto    |
| Chan Spectrum Width  | 160MHz              |

### Mounting Instructions:



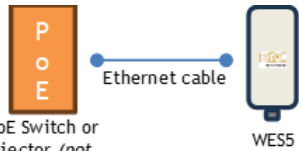
1. Attach "A" & "B" (hardware provided in "A")
2. With U-bolt "C" around pole, insert C through holes of the "D" pole mount clamp.
3. Attach A/B to C/D
4. Mount WES5 onto A/B using screws from WES5 mount base.
5. Remove cable gland, feed cable through and insert cable into LAN port; re-attach gland.
6. Align WES5 left/right and up/down as needed and tighten screw in "A/B" securely.

## Set Up - Simple PtP/MP Links

Choose one (or more) WES5 units to set into Client mode and hold aside one unit to be the Host device.

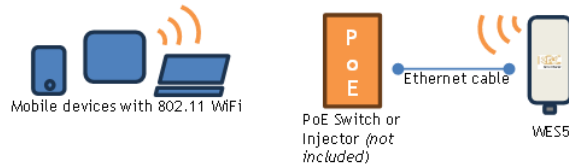
### 1. Power up WES5 unit

WES5 requires PoE input from an 802.3af PSE Device.



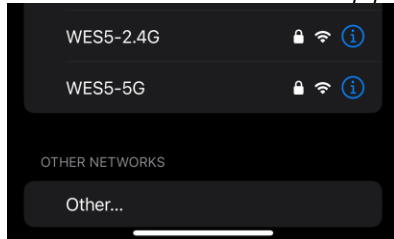
### 2. Connect to Web Browser GUI

WES5 is default set as an access point device.



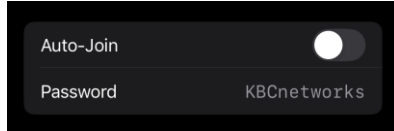
#### 1. Tap on either KBC SSID

KBC recommends 2.4G for set up purposes.



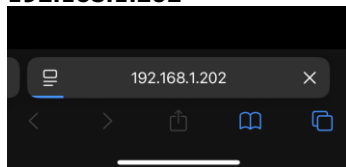
#### 2. Enter passcode

For WES5-2.4G enter "KBCnetworks"



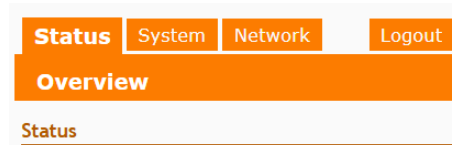
(For WES5-5G enter "11111111")

#### 3. Open web browser and enter 192.168.1.202



#### 4. Enter "password" to access the GUI

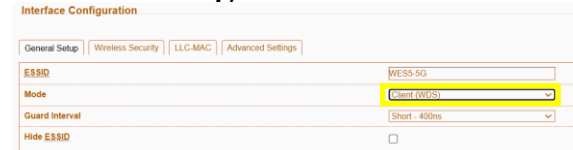
### 5. Click on "Network"



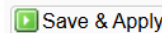
### 6. Click on "Wireless" then click "Edit" next to Wi-Fi-1 for 5GHz radio.



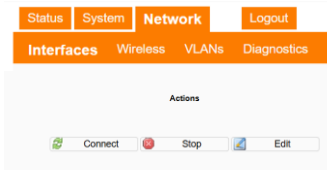
### 7. Under "Interface Configuration" on the General Setup, select "Client WDS"



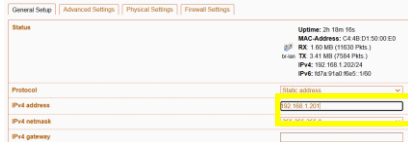
### 8. Click "Save & Apply"



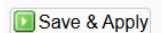
### 9. Click "Network" then "Interfaces" then "Edit"



### 10. Change Static LAN IPV4 address



### 11. Click "Save & Apply"



- Record all changes for future reference.
- If additional Client devices are needed for the same Host set them as per steps 1~12 but address static IPs separately.
- If you have multiple Hosts, access the Host interface of Host 2 and subsequent devices and change Wi-Fi-1 ESSID.

## WES5 Status Indicators

PWR ● 48V PoE Power applied.  
○ No power to unit.

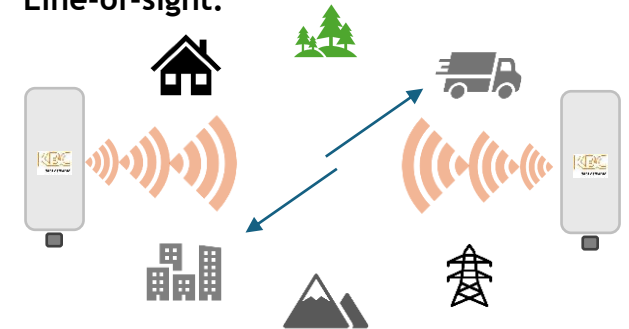
1G ● Link activity established  
★ Link activity (flashing)  
○ No link to device.

N/A – Not used

(All S1~S4 LEDs should be lit up; i.e., S2 will not light if S1 is not on; S3 will light if S1 and S2 are both on.)

S1 ● Weak RF signal ○ No RF link  
S2 ● Weak RF signal ○ No/poor link  
S3 ● Mediocre signal ○ No/mediocre link  
S4 ● Ideal RF signal ○ No/good link

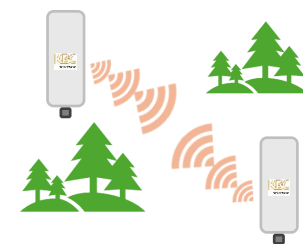
### Line-of-sight:



### NOT line-of-sight:



### Line-of-sight:



### NOT line-of-sight:

