

VigorAP 905

802.11ax Access Point

Quick Start Guide

Version: 1.0

Firmware Version: V5.0.3

(For future update, please visit DrayTek web site)

Date: October 24, 2024

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Safety Instructions and Approval

Safety Instructions	● Read the installation guide thoroughly before you set up the device. ● The device is a complicated electronic unit that may be repaired only by authorized and qualified personnel. Do not try to open or repair the device yourself. ● Do not place the device in a damp or humid place, e.g. a bathroom. ● Do not stack the devices. ● The device should be used in a sheltered area, within a temperature range of 0 to +40 Celsius. ● Do not expose the device to direct sunlight or other heat sources. The housing and electronic components may be damaged by direct sunlight or heat sources. ● Do not deploy the cable for LAN connection outdoor to prevent electronic shock hazards. ● Do not power off the device when saving configurations or firmware upgrades. It may damage the data in a flash. Please disconnect the Internet connection on the router before powering it off when a TR-069/ ACS server manages the router. ● Keep the package out of reach of children. ● When you want to dispose of the device, please follow local regulations on conservation of the environment.
Warranty	We warrant to the original end user (purchaser) that the device will be free from any defects in workmanship or materials for a period of two (2) years from the date of purchase from the dealer. Please keep your purchase receipt in a safe place as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary to restore the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. The warranty does not cover the bundled or licensed software of other vendors. Defects which do not significantly affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.



Declaration of Conformity

Hereby, DrayTek Corporation declares that the radio equipment type VigorAP 905 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://fw.draytek.com.tw/VigorAP%20905/Document/CE/>

Manufacturer: DrayTek Corp.

Address: No. 26, Fushing Rd, Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan

Product: VigorAP 905

Frequency Information for Europe area:

2.4G WLAN	2400MHz - 2483MHz, max. TX power: 19.81dBm	*1
5G WLAN	5150MHz - 5350MHz, max. TX power: 22.70dBm	*2
	5470MHz - 5725MHz, max. TX power: 29.47dBm	*2
	Requirements in AT/BE/BG/CZ/DK/EE/FR/DE/IS/IE/IT/EL/ES/CY/LV/LI/LT/LU/HU/MT/NL/NO/PL/PT/RO/SI/SK/TR/FI/SE/CH/HR/UK(NI). 5150MHz~5350MHz is for indoor use only.	

(*1: for 2.4G WLAN model; *2: for 5G WLAN model)

This product is designed for 2.4GHz and 5GHz WLAN network throughout the EC region.



Declaration of Conformity

Hereby, DrayTek Corporation declares that the radio equipment type VigorAP 905 is in compliance with Regulation SI 2017 No. 1206.

The full text of the UKCA Declaration of Conformity is available at the following internet address:

<https://fw.draytek.com.tw/VigorAP%20905/Document/UKCA/>

Manufacturer: DrayTek Corp.

Address: No. 26, Fushing Rd, Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan

Product: VigorAP 905

Frequency Information for UK area:

2.4G WLAN	2400MHz - 2483MHz, max. TX power: 19.81dBm	*1
5G WLAN	5150MHz - 5350MHz, max. TX power: 22.70dBm	*2
	5470MHz - 5725MHz, max. TX power: 29.47dBm	*2
	Requirements in UK. 5150MHz - 5350MHz is for indoor use only.	

(*1: for 2.4G WLAN model; *2: for 5G WLAN model)

This product is designed for 2.4GHz and 5GHz WLAN network use in the UK & Ireland.

UK PSTI STATEMENT OF COMPLIANCE

We, DrayTek Corp., office at No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan, declare under our sole responsibility that the product

The full text of the PSTI Declaration of Conformity is available at the following internet address: <https://fw.draytek.com.tw/UK/PSTI/>

- Product name: Access Point
- Model number: VigorAP 905
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan

is in conformity with the relevant UK Statutory Instruments: The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023 ("Security Requirements").

Standard	Version
The Product Security and Telecommunications Infrastructure Regulations	2023 Schedule 1
Support Period	3 years after the EOL notification

Please note that this statement of compliance, including the Defined Support Period stated herein, is only applicable to products sold in the UK. This Statement of Compliance is retained by DrayTek for 10 years after date of issue.

Hsinchu
(place)

25th Mar., 2024
(date)


Alan Wen
General Manager Office, VP
(Legal Signature)



Regulatory Information

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 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 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.

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 may accept any interference received, including interference that may cause undesired operation.

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 & your body.

USA Local Representative	Company name	ABP International Inc.		
	Address	13988 Diplomat Drive Suite 180 Dallas TX 75234		
	ZIP Code	75234	E-mail	henry@abptech.com
	Contact Person	Mr. Henry N Castillo	Tel.	(972)831-1600 140



Caution

- Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.
- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This equipment complies with CE RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
- Operations in the 5.15-5.35GHz band are restricted to indoor usage only.

*The external power supply used for each product will be model dependent.

		1	2	3	4	5
A	Manufacturer	DVE	DVE	AMIGO	AMIGO	TOPOW Electronics Co.
B	Address	No.5, Pao-Kao Road, Hsin-Tien, New Taipei City 231, Taiwan	No.5, Pao-Kao Road, Hsin-Tien, New Taipei City 231, Taiwan	No.20, Qianyang First Road, Yun-Mao-Tsun, San Xing, Zhongshan, Guangdong, China	No.20, Qianyang First Road, Yun-Mao-Tsun, San Xing, Zhongshan, Guangdong, China	No.8 Xinxing Industrial Park, Xinxing Village, Fuyong Street, Baoan District, Shenzhen, Guangdong, China
C	Model identifier	12PF09-12 FUK	18PFR-12 FUK	1201000FB	1202000FV	18120-EU-22086
		12PF09-12 FEU 12PF11-12 FEU	18PFR-12 FEU		1202000FB	18120-UK-23091
D	Input voltage	100-240V	100-240V	100-240V	100-240V	100-240V
E	Input AC frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Output voltage DC	12.0V	12.0V	12.0V	12.0V	12.0V
F	Output current	1.0A	1.5A	1.0A	2.0A	1.5A
G	Output power	12.0W	18.0W	12.0W	24.0W	18.0W
H	Average active efficiency	84%	85.5%	86.96%	86.2%	85.21%
I	Efficiency at low load 10%	79.3%	83.7%	77.5%	79.1%	80.1%
J	No-load power consumption	0.06W	0.07W	0.10W	0.10W	0.1W

For more update, please visit www.draytek.com.

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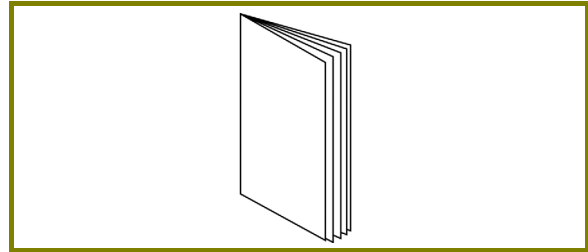
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1. Package Content

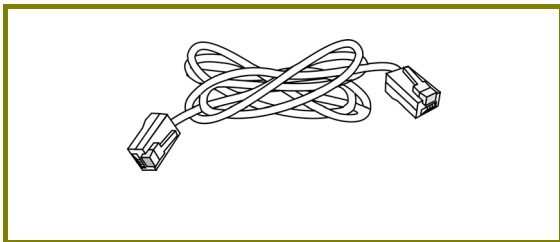
Take a look at the package content. If there is anything missed or damaged, please contact DrayTek or dealer immediately.



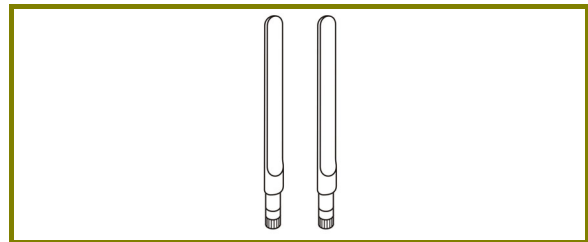
Access Point



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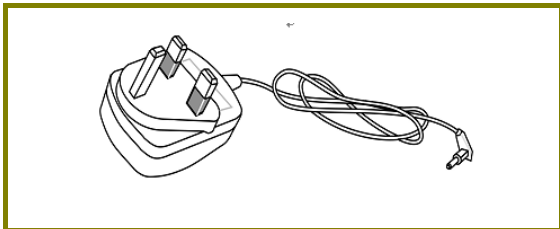


RJ-45 Cable (Ethernet)

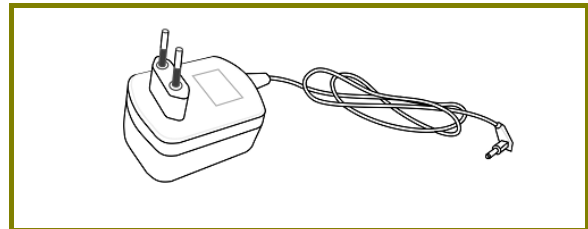


Antenna

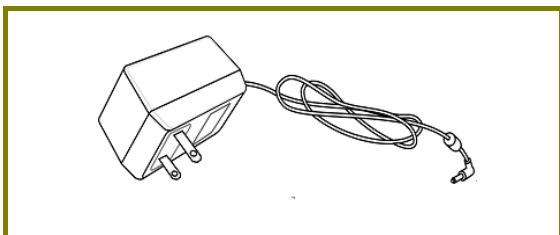
The type of the power adapter depends on the country that the AP will be installed:



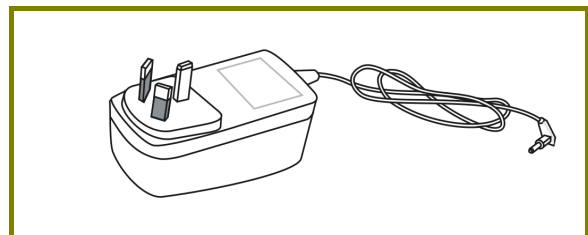
UK-type power adapter



EU-type power adapter



USA/Taiwan-type power adapter



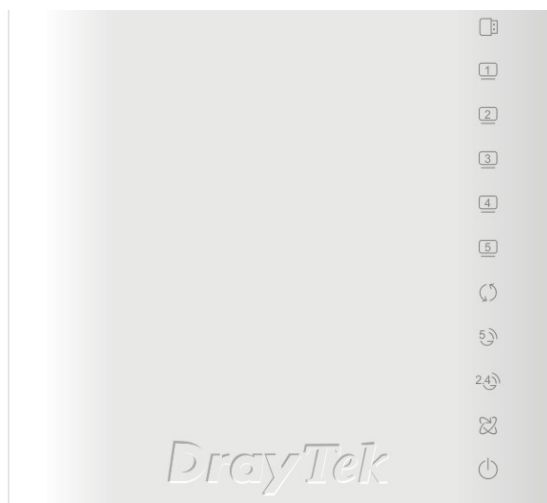
AU/NZ-type Power Adapter

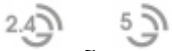


Note

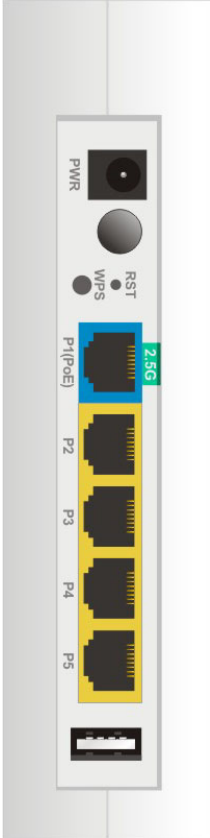
- The antenna/transmitter should be kept at least 20 cm away from human body.
- The maximum power consumption is 17 Watt.

2. Panel Explanation



LED	Status	Explanation
 USB	On	A USB device is connected and active.
	Blinking	The data is transmitting (sending/receiving).
LAN1	On (Blue)	A normal connection (rate with 2500Mbps) is through its corresponding port.
	Blinking(Blue)	The data is transmitting (sending/receiving).
	On (White)	A normal connection (rate with 10/100/1000Mbps) is through its corresponding port.
	Blinking (White)	The data is transmitting (sending/receiving).
LAN 2/3/4/5	On	The LAN port is connected.
	Blinking	The data is transmitting.
	Off	The LAN port is disconnected.
 WPS	Blinking (quickly)	The WPS function is enabled and the system is waiting for a wireless station of connection.
	Off	The WPS button is turned off.
 WLAN	On	Wireless 5G/2.4G is ready.
	Blinking	Ethernet packets are transmitting over wireless LAN.
	Off	Wireless 5G/2.4G is inactive.
 ACT	On	The system is in boot-loader mode.
	Blinking (quickly)	The system is reset to the factory default setting.
	Blinking	The system is ready and can work normally.
	On (WLAN LED blinking slowly)	The system is in TFTP mode.
	Off	The system is not ready or is failed.

 PWR	On	The device is plugged in and the power switch is on.
	Off	No power.

	Interface	Description
		PWR: Connector for a power adapter.
		Power switch.
	RST	Restore the default settings. Usage: Turn on the router. Press the button and keep for more than 10 seconds. Then the router will restart with the factory default configuration.
	WPS	Wireless band will be switched /changed according to the button pressed and released. For example, ● 2.4G (On) and 5G (On) - in default. ● 2.4G (Off) and 5G (On) - pressed and released the button once. ● 2.4G (On) and 5G (Off) - pressed and released the button twice. ● 2.4G (Off) and 5G (Off) - pressed and released the button three times. WPS - When WPS function is enabled by web user interface, press this button for more than 2 seconds. The router will wait for any wireless client connecting to it through WPS.
	 P2-P5 	Connectors for local networked devices. In which the transmission rate for P1(only) can reach 2.5G. In addition, P1 can be supplied with PoE power.
		Connector for a USB device (for temperature sensor).

3. Installation

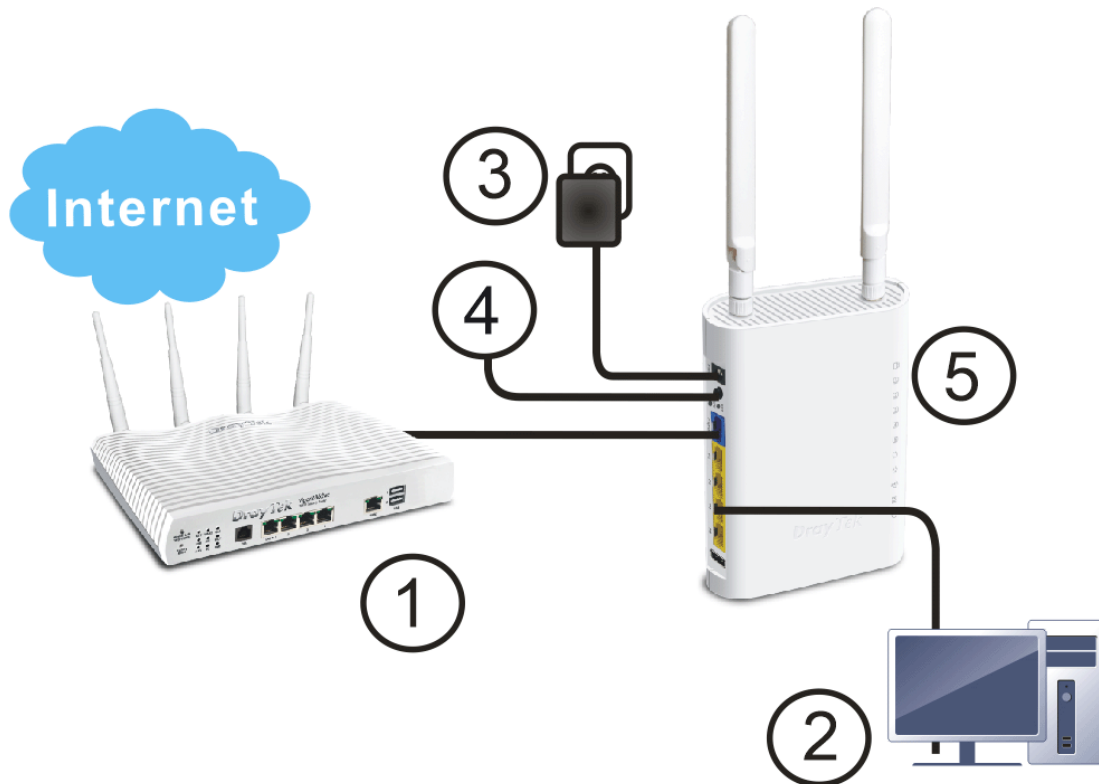
This section will guide you to install the AP through hardware / wall-mounting connection.

For hardware connection, refer to the following steps to connect your devices correctly.

1. Connect VigorAP 905 to xDSL modem, router, or switch/hub in your network through the **LAN 1** port of the access point by Ethernet cable.

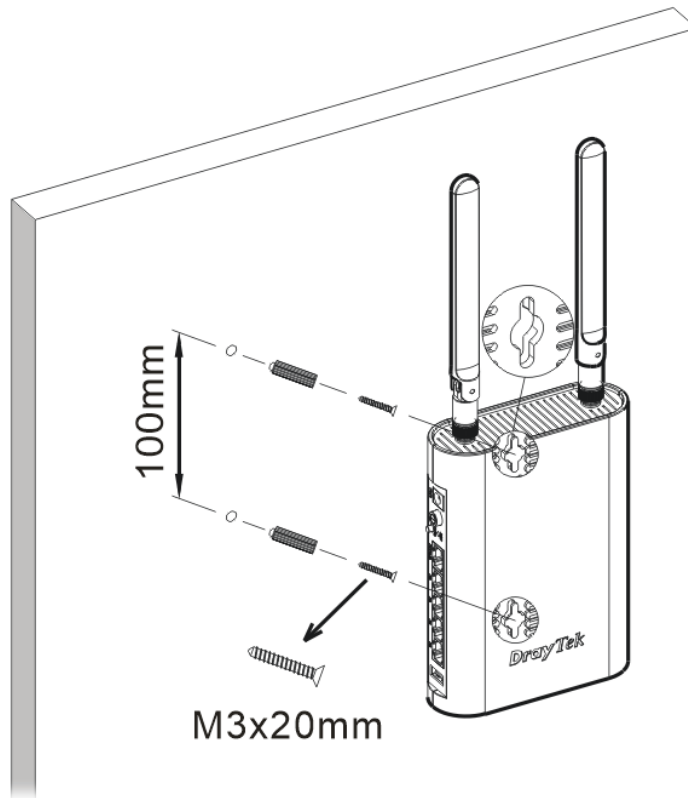
You can also connect VigorAP 905 to a Vigor router via wireless connection. For detailed information, refer to VigorAP 905 User's Guide.

2. Connect a computer to other available LAN port. Make sure the subnet IP address of the PC is the same as VigorAP 905 management IP, e.g., 192.168.1.X.
3. Connect the A/C power adapter to the wall socket, and then connect it to the PWR connector of the access point.
4. Power on VigorAP 905.
5. Check all LEDs on the front and back panel. The ACT LED on the front panel should blink; WAN/LAN LED on the back panel should be on if the access point is correctly connected to the xDSL modem, router or switch/hub.



For wall-mounting, refer to the following steps.

1. Drill two holes on the wall. The distance between the holes shall be 100mm. The recommended drill diameter shall be 6mm (15/64").
2. Fit screws into the wall using the appropriate type of screw plug.
3. Hang the VigorAP directly onto the screws.



4. Connection and Configuration

4.1 Connected As a Mesh Node (in Mesh Network)

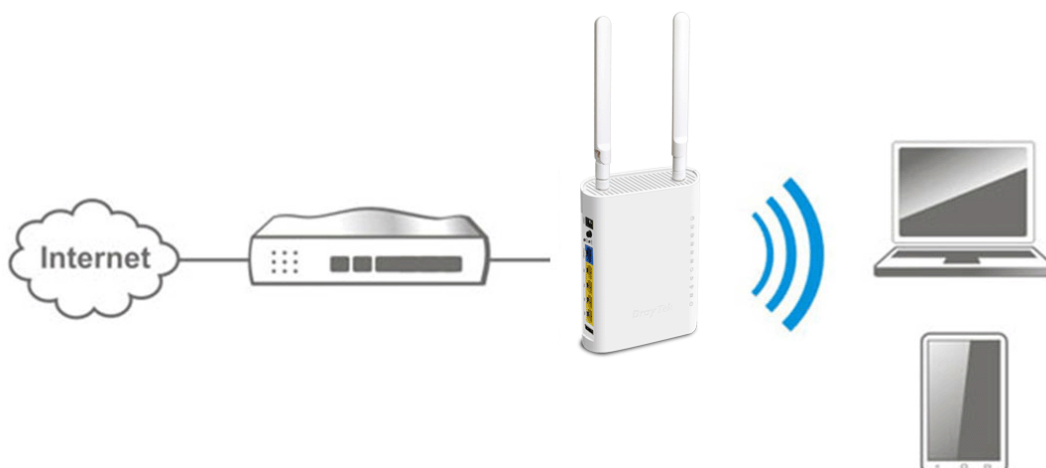


- 1 Install VigorAP on the place you want.
- 2 As a mesh node, settings related to VigorAP 905 must be configured by a remote Mesh Root (e.g., VigorAP 905) within the mesh network. The user must detect VigorAP 905 via a Mesh Root to add it as a mesh node.

4.2 Connected As an Access Point

As an access point, VigorAP 905 must be connected to a router and configured the operation mode.

- 1 Connect VigorAP to a Vigor router.
- 2 Use a twisted-pair cable with RJ-45 plugs at both ends, and plug into Ethernet device (e.g., Vigor router) and Ethernet port of VigorAP.

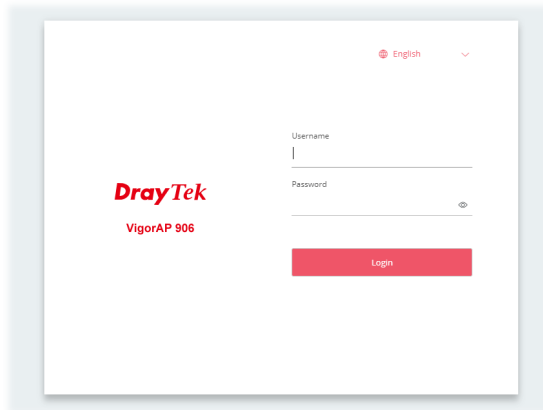


4.3 Web Configurations

There are **two methods** to configure VigorAP.

Method 1:

1. Make sure your PC connects to the device correctly.
2. Open a web browser on your PC and type **http://192.168.1.2**. A pop-up window will open to ask for username and password. Please type “admin/admin” on Username/Password and click **Login**.



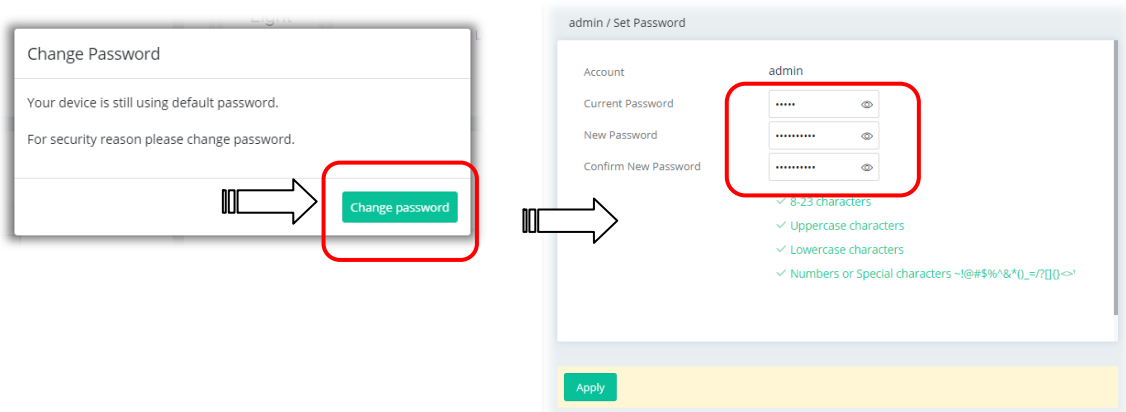
Note

You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be in the same subnet as the IP address of VigorAP 905.

- If there is no DHCP server on the network, then VigorAP 905 will have an IP address of 192.168.1.2.
- If there is DHCP available on the network, then VigorAP 905 will receive its IP address via the DHCP server.
- If you connect to VigorAP by wireless LAN, you could try to access the web user interface through <http://vigorap.com>.

3. Next, the page will appear to guide you change the login password.

You **MUST** change the login password before accessing the web user interface. Please set a new password for network security.



4. After clicking **Apply**, the Main Screen will pop up. When the homepage appears, view the configuration and modify the settings if you want.

Method 2:

1. Use a mobile phone to scan the QR code named with **DrayTek Wireless App** to download DrayTek Wireless APP.

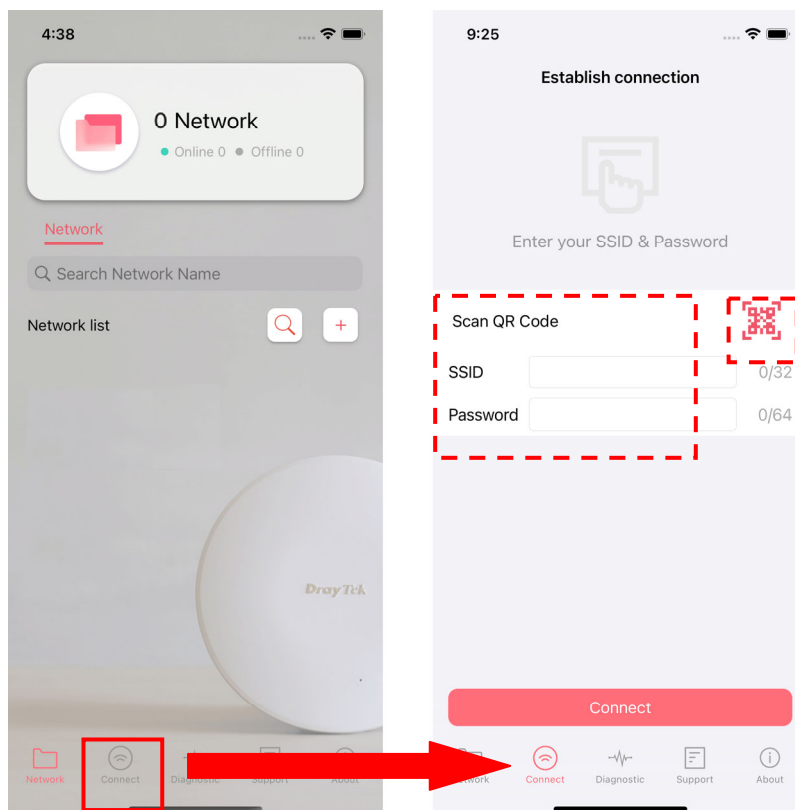


2. After opening the DrayTek website, use the scroll bar to locate the Wireless APP.



3. Based on the mobile phone type (Android or iOS) you have, select the one you need to download the APP. Then, run the APP.
4. From the home page, click the **Connect** icon to access the **Connect** page. Next, press the QR code icon next to Scan QR Code on your phone screen to open the camera.

Scan the QR code named with **Connect SSID** to access the web user interface (configuration wizard) of VigorAP 905. (For iOS users, the SSID and the password will be shown first. Simply click the **Connect** button to access the web user interface of VigorAP.)



5. Customer Service

If the device cannot work correctly after trying many efforts, please contact your dealer/DrayTek for further help right away. For any questions, please feel free to send e-mail to “support@draytek.com”.

Be a Registered Owner

Web registration is preferred. You can register your Vigor router via <https://myvigor.draytek.com>.

Firmware & Tools Updates

Due to the continuous evolution of DrayTek technology, all routers will be regularly upgraded. Please consult the DrayTek web site for more information on newest firmware, tools and documents.

<https://www.draytek.com>

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Version 2, June 1991

For any question, please feel free to contact DrayTek technical support at
support@draytek.com for further information.