

# Wi-Fi Manual Settings Guide

SP 310<sub>SFNw</sub>/311<sub>SFNw</sub>



## ❖ Introduction

This manual describes how to connect to a network via a wireless LAN router and an access point manually. In any of the following cases, you need to configure the settings manually.

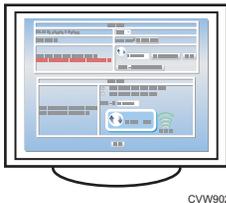
- The access point or a wireless LAN router does not support WPS (Wi-Fi Protected Setup).
- You tried to connect using WPS according to *Wi-Fi Settings Guide*, but it failed.

## ❖ Authentication method and encryption method

The wireless LAN requires an authentication and encryption for security purpose. This section explains about them.

### ★ Important

- You need to select the same authentication method and encryption method that the access point or wireless LAN router is using. You can check them on the settings screen of the access point or the wireless LAN router.



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- If you change the settings of the access point or wireless LAN router, you need to change the settings for devices such as computers that are connected to them also.

The following methods are available with this machine:

Authentication	Encryption
Open system	None
	WEP
Shared Key	WEP
WPA2-PSK	CCMP(AES)
Mix Mode WPA2/ WPA *1	TKIP *2
	CCMP (AES) *2

\*1: Supported authentication methods are as follows:

- WPA2-PSK
- WPA-PSK
- WPA2/WPA mixed mode

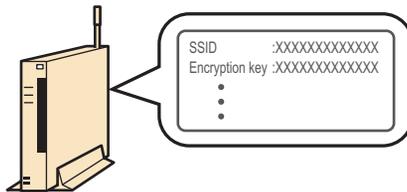
\*2: According to the connected device, either method is automatically selected.

### ↓ Note

- The encryption level becomes increasingly stronger in the following order:  
[None] → [WEP] → [TKIP] → [CCMP(AES)]

## 1 Confirm the SSID and Encryption key

Confirm the SSID and Encryption key, and write them down on the blank space as shown below. The information is used for the Wi-Fi setting.



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- If you are not sure where the information is, refer to the instruction manuals of the wireless LAN router or the access point.

### SSID:

Information to identify an access point or wireless LAN router. It may also be referred to as a network name, access point name, etc.

### Encryption key:

A key to encrypt data to exchange with an access point or wireless LAN router. It may also be referred to as a network key, WEP key, WPA/WPA2 pass phrase, PSK, pre-shared key, etc.

## 2 Connection

1 Check that the wireless LAN router and the access point are working correctly.

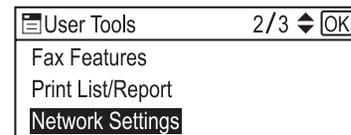
2 Remove the Ethernet cable if connected.

3 Press the [User Tools] key.



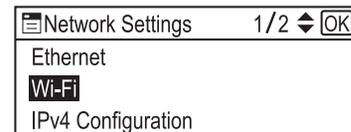
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4 Press the [▼] or [▲] key to select [Network Settings], and then press the [OK] key.

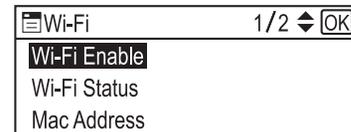


If you are requested to enter a password, enter the password using the number keys, and then press the [OK] key.

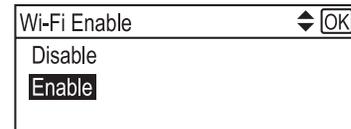
5 Select [Wi-Fi], and then press the [OK] key.



6 Select [Wi-Fi Enable], and then press the [OK] key.



7 Make sure [Enable] is selected, and then press the [Escape] key.



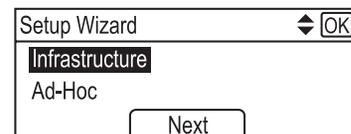
When [Disable] is selected, follow the steps below:

1. Select [Enable], and then press the [OK] key.
2. Press the [User Tools] key to return to the Initial screen.
3. Restart the machine, and then go back to the Step 3 to continue the setting process.

8 Select [Setup Wizard], and then press the [OK] key.



9 Select [Infrastructure], and then press the [Next] key.



**10 Search the SSID to display the list, select the destination SSID, and then press the [Next] key.**

Scan List	1/3
Input SSID	LAN router-001
Previous	Next

- If you cannot find the destination SSID, check that the device is turned on.
- When entering the SSID, select [Input SSID], and then press the [Next] key. The SSID entry screen appears. Enter the SSID using the number keys, and then press the [Next] key.

**11 Select the authentication method, and then press the [Next] key.**

Authentication	2/2
WPA2-PSK	Mix Mode WPA2/WPA
Previous	Next

- Select the same method that the router or access point is using.
- In Mix Mode WPA2/WPA, the authentication method and encryption method are determined according to the connected wireless LAN router or access point. Select Mix Mode WPA2/WPA when the connected device's authentication method is WPA-PSK or TKIP is used as an encryption method.

The next steps differ depending on the authentication method that you have selected. Proceed to Step 12 of the appropriate section.

❖ **Connecting to devices using the WPA2-PSK or Mix Mode WPA2/WPA authentication**

**12 Enter the encryption key using the number keys, and then press the [Connect] key.**

WPA2 Passphrase
Key : <input type="text"/>
(8-63chars)
Previous Connect

**13 Press the [Yes] key.**

Are you sure to connect?
No Yes

After connecting to the network, the Wi-Fi screen is displayed.

**14 Select [Wi-Fi Status], and then press the [OK] key.**

When "Connected" is displayed, the connection has been established.

Wi-Fi Status	OK
Connected	

- "When "Connecting..." is displayed, the connection is being established.
- When "Disconnect" is displayed, the connection has not been established. Start again from the beginning.

**15 Set an IP address to use the machine as a network printer.**

For details about how to set an IP address, see *Network Settings Guide*

❖ **Connecting to the devices using the Open System or Shared Key authentication**

**12 Select the encryption method, and then press the [Next] key.**

Encryption	1/2
WEP 64 bit Hex	WEP 64 bit ASCII
Previous	Next

For the encryption method, refer to the following:

- WEP key: 5 alphanumeric characters "WEP 64 bit Ascii"
- WEP key: 10 alphanumeric characters "WEP 64 bit Hex"
- WEP key: 13 alphanumeric characters "WEP 128 bit Ascii"
- WEP key: 29 alphanumeric characters "WEP 128 bit Hex"

⚠ **Note**

- Do not select [None] except in special circumstances. If selected, the security system will not work.

**13 Enter the encryption key and ID using the number keys, and then press the [Connect] key.**

WEP Key
Key : <input type="text"/> (10 chars)
ID : <input type="text"/> (Input 1~4)
Previous Connect

The ID is used for identifying the encryption key. You can register four encryption keys (ID 1 to 4).

**14 Press the [Yes] key.**

Are you sure to connect?
No Yes

After connecting to the network, the Wi-Fi screen is displayed.

**15 Select [Wi-Fi Status], and then press the [OK] key.**

When "Connected" is displayed, the connection has been established.

Wi-Fi Status	OK
Connected	

- "When "Connecting..." is displayed, the connection is being established.
- When "Disconnect" is displayed, the connection has not been established. Start again from the beginning.

**16 Set an IP address to use the machine as a network printer.**

For details about how to set an IP address, see *Network Settings Guide*

⚠ **Note**

- For details about connecting using WPS and Wi-Fi-related terms, see *Wi-Fi Settings Guide*.
- Refer to the wireless LAN router and access point manuals.

## Troubleshooting

### Connection Problems

If problems occur even after you configure the connection settings again, check the following:

❖ **Are the wireless LAN router and the access point placed in an area in which they can receive radio waves?**

- The area in which the devices can receive radio waves varies depending on the structure of the building. If the machine is away from the wireless LAN router or the access point, place it closer to either of them. Then connect the machine to the devices.

❖ **Is the SSID or encryption key entered correctly?**

- Check that the SSID or encryption key is entered correctly.

### Connection has Succeeded but the Wireless LAN Cannot be Used

If a connection has been established but the wireless LAN cannot be used, check the following:

❖ **Are the IP address settings configured correctly?**

- See *Network Settings Guide* to configure the IP address settings.

❖ **Check that an Ethernet cable is not connected to the machine.**

- If the machine is connected to the network using an Ethernet cable, the Ethernet connection is enabled. To use the wireless LAN, disconnect the Ethernet cable from the machine.

❖ **Connection may fail due to Radio wave interference?**

- If there is another wireless network nearby, the wireless connection may fail. Wait a moment, and then connect to the network again.