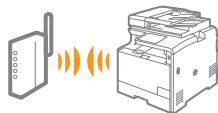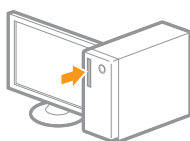# Canon

Wireless LAN

Setting Guide

Prepare for Wireless LAN Connection
➜ P.2

Setting the Wireless LAN
➜ P.4

Installing the Software
➜ P.10

Troubleshooting
➜ P.14

### ➜ Read this guide before setting up the wireless LAN

This guide describes the wireless LAN set up procedure, and problems encountered during the configuration. After you finish reading this guide, store it in a safe place for future reference. See the "Getting Started" for machine installation and settings for connection methods other than the wireless LAN.
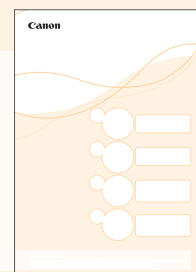
Prepare for Wireless LAN Connection

Step 1   **Check the Following First.**

1   Is the computer connected to the wireless router properly?

For more information, see the instruction manual for the network device you are using, or contact the networking device manufacturer.

2   Have the network settings on the computer been completed?

If the computer is not properly configured, you may not use the wireless LAN connection even after completing the following settings.

Internet   Wireless Router
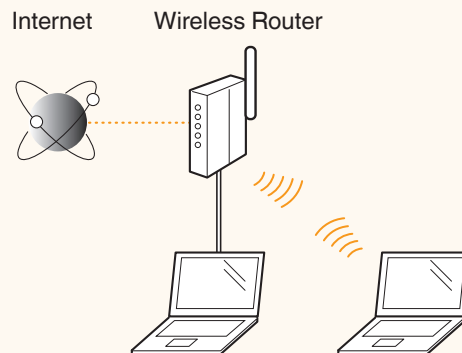
NOTE

- You cannot connect both a wired LAN and wireless LAN at the same time. In addition, the machine is set to the "Wired LAN" by default.
- When you connect to a network environment that is not security protected, your personal information may be disclosed to third parties. Please use caution.

- If you connect through a LAN in the office, contact your network administrator.
- In this manual, a wireless device that is accessed from satellite terminals is generally called as "wireless router." The term "access point" means a master terminal on a wireless LAN that satellite terminals access to.

When proceeding from "Connecting the Power Cord" in the Getting Started ⊙

Step 2   **Switch the Connection Method to Wireless LAN.**

1

2 Press [▲] or [▼] to highlight an option.

```
Menu
Network Settings
Preferences
Timer Settings
Common Settings
Copy Settings
Fax Settings
```

3   OK

```
Network Settings
Select Wired/Wireless LAN
Wireless LAN Settings
TCP/IP Settings
SNMP Settings
Dedicated Port Settings
Waiting Time for Connection ...
```

OK

4

```
Select LAN
Wired LAN
Wireless LAN
```

OK

5

```
Settings applied.
```

2

Step 3   **Check Your Wireless Router.**

Select the method to set up the wireless LAN from the following two methods, depending on the wireless router that you are using.
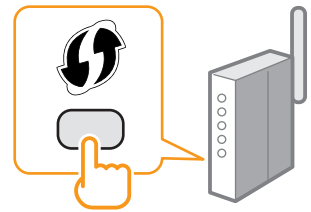
There is a button.   ➔ P. 4 (Push Button Mode)

This machine supports WPS (Wi-Fi Protected Setup). You can easily set up if your wireless router has a button, and if the following mark is on the wireless router.

If you are not sure whether your wireless router supports WPS, please see the manual included in the product, or contact the product manufacturer.

There is no button.   ➔ P. 6 (Manual Selection)

If there is no button on your wireless router, you may manually select the SSID and complete the settings. In this case, you need to specify the SSID and network key of your wireless router. See "Check the SSID (Network Name/Access Point Name) and Network Key" (P.6) to learn how to find out your SSID and network key.
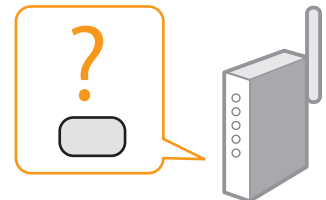
When proceeding from "Connecting the Power Cord" in the Getting Started ❯

Proceed to step ❹ on P. 4.

To set up connection by using WPS PIN code mode or manually entering the setup information:

➔ "Setting Up Connection Using WPS PIN Code Mode" in the e-Manual.

➔ "Setting Up Connection by Specifying Detailed Settings" in the e-Manual.
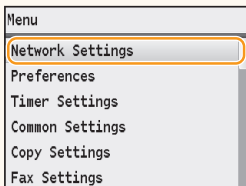
Setting the Wireless LAN

Setting via WPS

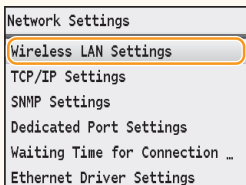Read the instruction manual for your network device first to learn how to configure the settings.

1

2
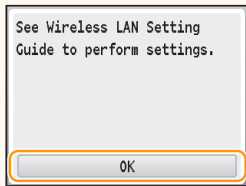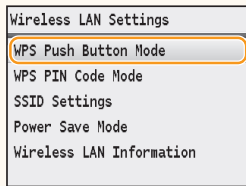
```
Menu
Network Settings
Preferences
Timer Settings
Common Settings
Copy Settings
Fax Settings
```

- Press [▲] or [▼] to highlight <Network Settings>.

OK

3

```
Network Settings
Wireless LAN Settings
TCP/IP Settings
SNMP Settings
Dedicated Port Settings
Waiting Time for Connection …
Ethernet Driver Settings
```

- Press [▲] or [▼] to highlight <Wireless LAN Settings>.

OK

4

```
See Wireless LAN Setting
Guide to perform settings.



      OK
```

- If <Do you want to enable the wireless LAN?> is displayed, press [▲] to highlight [Yes], and then press [OK].

OK

5

```
Wireless LAN Settings
WPS Push Button Mode
WPS PIN Code Mode
SSID Settings
Power Save Mode
Wireless LAN Information
```

- Press [▲] or [▼] to highlight <WPS Push Button Mode>.

OK

6

```
Do you want to connect with
new settings?



         Yes
         No
```
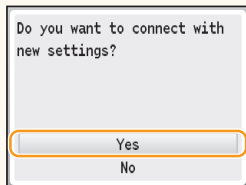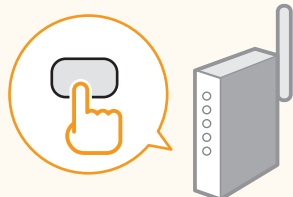
- Press [▲] to highlight <Yes>.
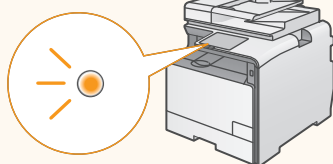
OK

Move to the router

4

7

- You should press the WPS button within 2 minutes after you select <Yes> in step **6**.
- Press and hold* the button until the WPS lamp lights or blinks.

* The time that you should hold the button may vary depending on the wireless router you are using.

▼

Move to the machine

▼

8

- After the <Connected.> screen is displayed, wait until the Wi-Fi indicator stops blinking and turns on.

▼

Wait approximately 2 minutes after the connection is completed.
The IP address is set during this time period.

▼

➡ Proceed to P. 9

When an error message appears:

Press [OK] to close the screen, check whether or not the WPS function of the wireless router is correctly set, and then retry the settings.

If the access point cannot be detected even after retrying, see the following.

➡ "When an Error Message Appears" (P.14)

When checking the network connection:

You can check if the machine is properly connected to the network using a computer that is connected to the same network.

➡ "Checking that the Wireless LAN Setting is Completed" (P.9)

When setting an IP address manually:

➡ "Setting IP Addresses" in the e-Manual
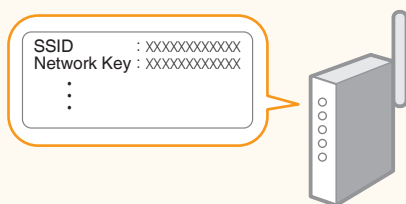
Setting the Wireless LAN

Setting by Selecting the SSID (Network or Access Point)

Check the SSID (Network Name/Access Point Name) and Network Key

Fill in the blanks on the right after checking one of the following methods.

Check a label attached on the wireless router.

```
SSID        : XXXXXXXXXXX
Network Key : XXXXXXXXXXXX
    ⋮
    ⋮
```

Check using Canon MF/LBP Wireless Setup Assistant*

* Included in User Software CD-ROM, which is supplied with the machine.

➡ "Checking SSID or Network Key for a Wireless Router" (P.20)

• SSID
It is sometimes written as the name of network, or name of access point. If there are multiple SSIDs, please write them all down.
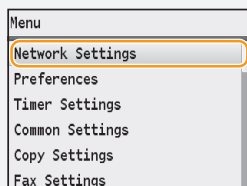
• Network Key
It is sometimes written as PIN, WEP key, WPA/WPA2 passphrase, PSK , or preshared key.

1

▼

2
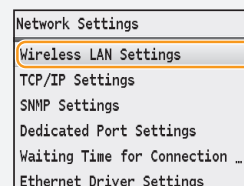
```
Menu
Network Settings
Preferences
Timer Settings
Common Settings
Copy Settings
Fax Settings
```

• Press [▲] or [▼] to highlight <Network Settings>.

OK   ▼

3

```
Network Settings
Wireless LAN Settings
TCP/IP Settings
SNMP Settings
Dedicated Port Settings
Waiting Time for Connection …
Ethernet Driver Settings
```

• Press [▲] or [▼] to highlight <Wireless LAN Settings>.

OK   ▼

4

```
See Wireless LAN Setting
Guide to perform settings.



        OK
```
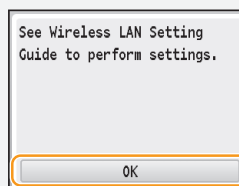
• If <Do you want to enable the wireless LAN?> is displayed, press [▲] to highlight [Yes], and then press [OK].

OK   ▼

5

```
Wireless LAN Settings
WPS Push Button Mode
WPS PIN Code Mode
SSID Settings
Power Save Mode
Wireless LAN Information
```

- Press [▲] or [▼] to highlight <SSID Settings>.

OK ▼

6

```
SSID Settings
Select Access Point
Enter Manually
```

- Press [▲] or [▼] to highlight <Select Access Point>.

If <Cannot find access point> is displayed:

➔ ”When an Error Message Appears” (P.14)

OK ▼

7

```
Select Access Point
SSID_01
SSID_02
SSID_03
SSID_04
SSID_05
    Details
```

- Press [▲] or [▼] to highlight the access point you wrote down.
- If multiple matched SSIDs are displayed, select the ID that is listed first (the one with the strongest signal).

If no SSID has been found:

➔ “Checking SSID or Network Key for a Wireless Router” (P.20)

OK ▼

8

```
Proceeding to the screen for
entering the access point
network key.
```

▼

9

```
WEP Key (5-26 Characters)    A
XXXXXXXX

A/a/12         Apply
```

```
PSK (8-64 Characters)    A
XXXXXXXX

A/a/12         Apply
```

❶ Press ✱ to select the entry mode.
❷ Enter the network key using the numeric keys.

OK ▼

10

```
Do you want to connect with
new settings?

        Yes
        No
```
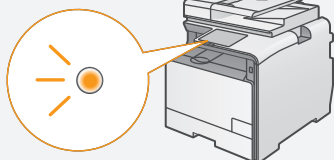
- Press [▲] to highlight <Yes>.

OK ▼

➔ Next Page

11

- After the <Connected.> screen is displayed, wait until the Wi-Fi indicator stops blinking and turns on.

▼

Wait approximately 2 minutes after the connection is completed.
The IP address is set during this time period.

▼

Proceed to P. 9

When an error message appears:

Press [OK] to close the screen, check whether the network key is correct or not, and then retry the settings from step **5**.

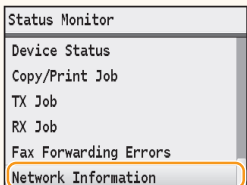If the access point cannot be detected even after retrying, see the following.

"When an Error Message Appears" (P.14)

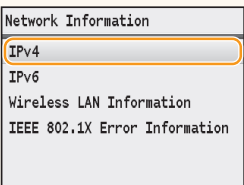## When setting IP address manually:

"Setting IP Addresses" in the e-Manual

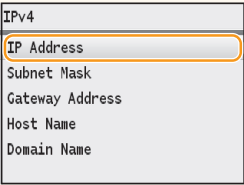## Checking that the Wireless LAN Setting is Completed

1 ⬚ (Status Monitor)

▼

2

```
Status Monitor
Device Status
Copy/Print Job
TX Job
RX Job
Fax Forwarding Errors
Network Information
```

- Press [▲] or [▼] to highlight <Network Information>.

OK ▼

3

```
Network Information
IPv4
IPv6
Wireless LAN Information
IEEE 802.1X Error Information
```

- Press [▲] or [▼] to highlight <IPv4>.

OK ▼

4

```
IPv4
IP Address
Subnet Mask
Gateway Address
Host Name
Domain Name
```
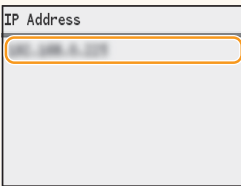
- Press [▲] or [▼] to highlight <IP Address>.

OK ▼

5

```
IP Address

```
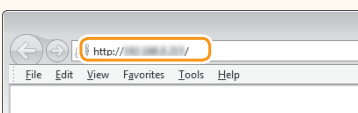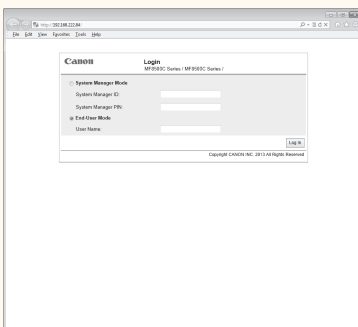
- Take note of the IP address.

▼

6 ⬚ (Status Monitor)

▼

Start a Web browser from the computer

▼

7

⬅ ➡ | http:// |
File Edit View Favorites Tools Help

- Enter [http://<IP address that you have written down in step **5**>/] in the address field, and then press [Enter] on your keyboard.

▼

8

Canon   Login
MF8580C Series / MF8580C Series /
System Manager Mode
System Manager ID:
System Manager PIN:
End User Mode
User Name:
Log In
Copyright CANON INC. 2013 All Rights Reserved

- Check that the screen of the Remote UI is displayed.

Connection is completed when the screen is displayed.

▼

➡ Proceed to P. 10

If the screen is not displayed correctly:

➡ "The Remote UI is not displayed." (P.17)

Installing the Software

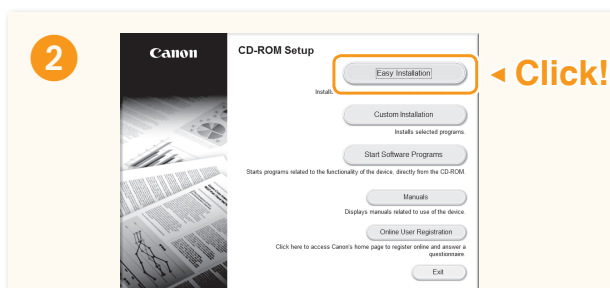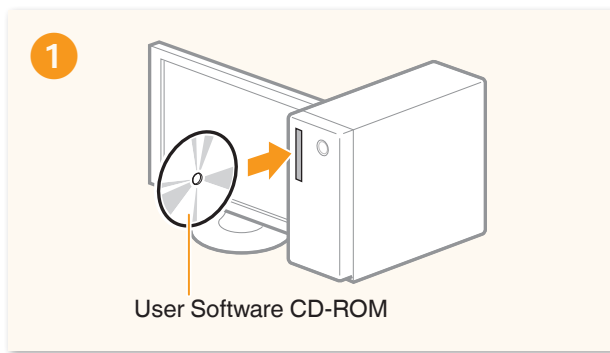Install the MF Drivers and the MF Toolbox. Make sure that the machine is turned ON, and log on to Windows as a user with administrative privileges. Shut down all applications that are running. See MF Driver Installation Guide for details about installation.

NOTE
- If you are operating in the IPv6 environment, you may not be able to install the software following the procedures below. See "Installing the MF Drivers on the WSD Network" in the MF Driver Installation Guide.
- You cannot use the scan function in the IPv6 environment.

1

User Software CD-ROM

▼

2

CD-ROM Setup

Easy Installation ◄ **Click!**

Install.

Custom Installation

Installs selected programs.

Start Software Programs

Starts programs related to the functionality of the device, directly from the CD-ROM

Manuals

Displays manuals related to use of the device

Online User Registration

Click here to access Canon's home page to register online and answer a questionnaire.

Exit

- Printer, fax, scanner drivers, and MF Toolbox will be installed.
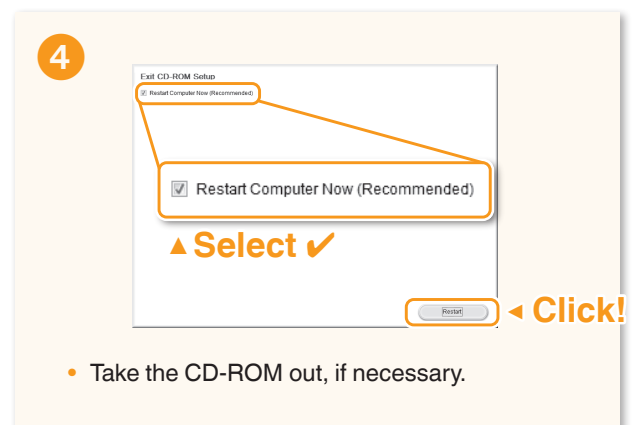- Select [Custom Installation] to install Presto! PageManager and the e-Manual.

When the screen is not displayed correctly:
- Windows XP/Server 2003
  [Start] menu → [Run] → enter [D:\MInst.exe*] → [OK]
- Windows Vista/7/Server 2008
  [Start] menu → [Search programs and files] (or [Start Search]) → enter [D:\MInst.exe*] → press the [Enter] key
- Windows 8/Server 2012
  Right-click the lower-left corner of the screen → [Run] → enter [D:\Minst.exe*] → [OK]

* The CD-ROM drive name is indicated as "D:" in this manual.

▼

3

Select the Type of Connection

Select the type of connection between the device and your computer.

USB Connection
Use a USB cable to connect the device to your computer.

Network Connection
Connect the device to your computer via the network.
* For more information on how to connect the printer using a wireless LAN, refer to Canon's home page.

◄ **Select**

Back **Click!** ► Next Cancel

▼

Follow the instructions
on the screen to continue.

▼

4

Exit CD-ROM Setup

☑ Restart Computer Now (Recommended)

☑ Restart Computer Now (Recommended)

▲**Select** ✔

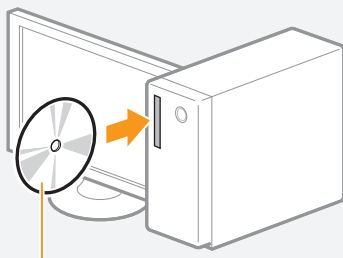Restart ◄ **Click!**

- Take the CD-ROM out, if necessary.

The PC connection via the wireless LAN is now complete.

Macintosh

Install the MF drivers for Macintosh. It requires Mac OS X 10.5.8 version or later. The installation screen varies depending on the version of Mac OS X.

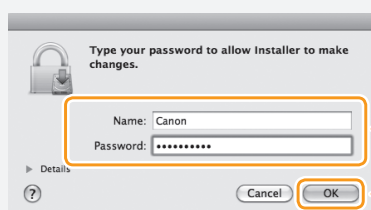This operation is for Macintosh. If using Windows, proceed to P. 10.

1

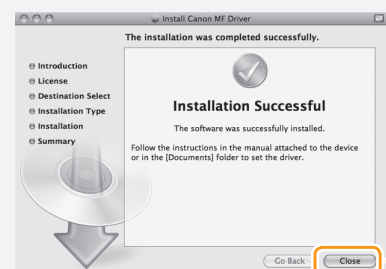Insert the User Software CD-ROM and double-click the CD-ROM icon.

▼

2

◄ **Double-click!**

▼

Follow the instructions on the screen to continue.

▼

3

Type your password to allow Installer to make changes.

Name: Canon
Password: ●●●●●●●●●●

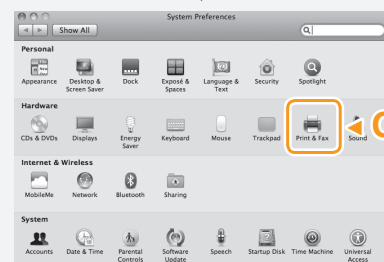◄ **Enter**

▶ Details

Cancel   OK   ◄ **Click!**

- Depending on the system environment, the dialog box may not be displayed. In this case, click [Install Software].

▼

4

Install Canon MF Driver

The installation was completed successfully.

⊖ Introduction
⊖ License
⊖ Destination Select
⊖ Installation Type
⊖ Installation
⊖ Summary

Installation Successful

The software was successfully installed.

Follow the instructions in the manual attached to the device or in the [Documents] folder to set the driver.

Go Back   Close   ◄ **Click!**

- Installing the drivers is now complete. Continued with registration operations on the desktop.

▼

5

System Preferences

◄ **Click!**

System Preferences

◄ ► Show All

Personal
Appearance | Desktop & Screen Saver | Dock | Exposé & Spaces | Language & Text | Security | Spotlight

Hardware
CDs & DVDs | Displays | Energy Saver | Keyboard | Mouse | Trackpad | Print & Fax | Sound   ◄ **Click!**

Internet & Wireless
MobileMe | Network | Bluetooth | Sharing

System
Accounts | Date & Time | Parental Controls | Software Update | Speech | Startup Disk | Time Machine | Universal Access

▼

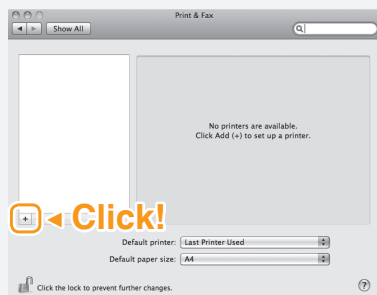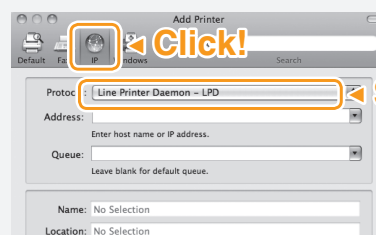(➡) Next Page

Installing the Software

6 ◀ **Click!**

▼

7

① **Click!**

② **Select**

③ **Select**

④ **Click**

② Select a printer name for which [Bonjour] is displayed in the [Kind] or [Connection] column.

③ Select [Select Printer Software], select the corresponding driver, and then click [OK]. If you are using Mac OS X 10.5.x, select the driver from the [Print Using].

• An IP address is automatically configured by the Bonjour function. If there is not the Bonjour function or you want to set the IP address manually, see "Setting IP Addresses" in the e-Manual.

Connecting with the manual setting

◀ **Click!**

◀ **Select**

▼

◀ **Enter**

◀ **Select**

▼

Printer Software

◀ **Select**

◀ **Click!**

▼
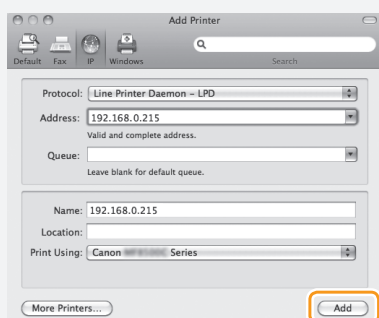
◄ **Click!**

- If you are using Mac OS X 10.5.x, select [Select a driver to use] and the corresponding driver from [Print Using], and then click [Add].

▼

8

◄ ② **Click!**

◄ ① **Check that this machine is added.**
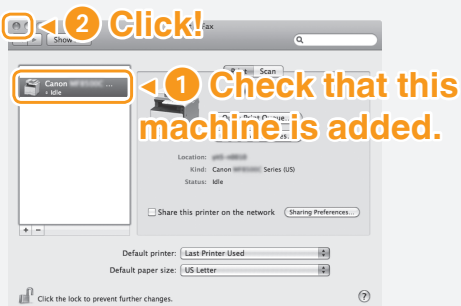
Computer connection via the wired LAN is now complete.

Troubleshooting

When an Error Message Appears

```
More than one access
point was detected.



            Close
```
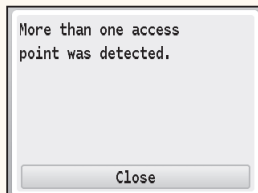
Action

• Wait for a while and try again.

```
Cannot find the access
point.



            Close
```
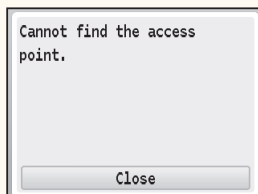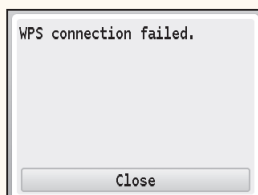
Action 1

• Wireless router's push button might not be pressed in the time limit. Repeat the setup with the proper procedure.

Action 2

• The correct SSID might not be entered. Confirm the wireless router's SSID and repeat the setup.

If the message still appears:

Check network connection referring to "Cannot Connect to the Network" (P.18). If the access point cannot be determined even after checking the network connection, check the security settings on the wireless router.


```
WPS connection failed.



            Close
```

Action

• Check that the wireless router that you are using supports WPS function.

   If the wireless router is WPS capable:
   Check network connection referring to "Cannot Connect to the Network" (P.18).
   If the wireless router is not WPS capable:
   Manually select a specific wireless router for your network identification. (P. 6)

```
Wireless LAN connection
failed.



            Close
```
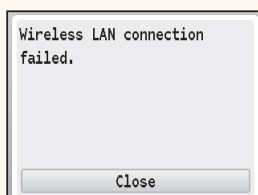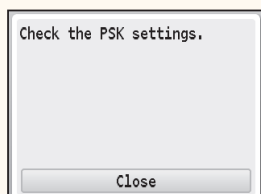
Action

• Turn OFF the machine and turn it back ON, and then repeat the setup.

If the message still appears:

Check network connection referring to "Cannot Connect to the Network" (P.18). If the access point cannot be determined even after checking the network connection, check the security settings on the wireless router.
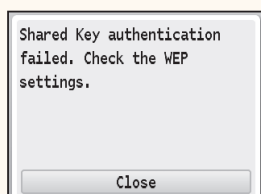
```
Check the PSK settings.



              Close
```

Action

• Enter the correct network key and repeat the setup.

If the message still appears:
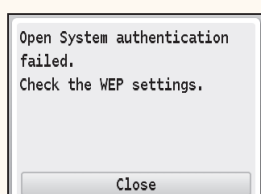Check network connection referring to "Cannot Connect to the Network" (P.18).

```
Shared Key authentication
failed. Check the WEP
settings.



              Close
```

Action

• Enter the correct network key and repeat the setup.

If the message still appears:
Check the WEP authentication settings of the wireless router.

```
Open System authentication
failed.
Check the WEP settings.



              Close
```

Action

• Change the WEP authentication method on the machine to <Shared Key>. Configure all the settings manually to change the setting to <Shared Key>. (See the e-Manual)

If the message still appears:
When the MAC address filter is set at the wireless router, set the MAC address of the machine to the wireless router. To check the MAC address of the machine, see the e-Manual.

Troubleshooting

If Problems Occur

The SSID of the wireless router is not displayed in the list of access points.

Cause 1

The SSID of the wireless router that you wrote down on P. 6 is incorrect.

Action

- Check the wireless router's SSID.
  - ➡ "Checking SSID or Network Key for a Wireless Router" (P.20)
  ▼
- Specify the settings again.
  - ➡ "Setting by Selecting the SSID (Network or Access Point)" (P.6)

Cause 2

The SSID is not broadcasted from the wireless router (stealth function).

Action

- Set the wireless router to broadcast the SSID.
  - ➡ See the instruction manual of the wireless router, or contact the manufacturer.
  ▼
- Specity the settings again.
  - ➡ "Setting by Selecting the SSID (Network or Access Point)" (P.6)

Cause 3

The machine cannot detect the wireless routers because there is a problem with the network connection.

Action

- Check the network connection.
  - ➡ "Cannot Connect to the Network" (P.18)

Cannot detect the SSID or network key of the wireless router.

Action

➡ "Checking SSID or Network Key for a Wireless Router" (P.20)

The Remote UI is not displayed.

Cause 1

The machine's IP address is not set correctly.

Action

- Enable the DHCP function for the wireless router, and specify the setting again.
    - ➔ See the instruction manual of the wireless router, or contact the manufacturer.

Cause 2

The wireless router's network key is not correctly specified to the machine.

Action

- Check the network key set to the wireless router, and specify the setting again.
    - ➔ "Checking SSID or Network Key for a Wireless Router" (P.20)
    ▼
- Specify the settings again.
    - ➔ "Setting by Selecting the SSID (Network or Access Point)" (P.6)

Cause 3

A wrong SSID is selected.

Action

- Check the wireless LAN or access point's SSID.
    - ➔ "Checking SSID or Network Key for a Wireless Router" (P.20)
    ▼
- Specify the settings again.
    - ➔ "Setting by Selecting the SSID (Network or Access Point)" (P.6)

Troubleshooting

Cannot Connect to the Network

Check the following items to make sure that the machine is ready to be connected to a network.

1 Check the status of the computer.
- Have the settings for the computer and the wireless router been completed?
- Are the cables (power cable or network cables) for the wireless router connected properly?
- Is the wireless router turned ON?

If you cannot connect to the network even after checking:
- Turn OFF each device and turn each one back ON.
- Wait a few moments, and reconnect to the network.

**2** Check if the machine is turned ON.
- When the power is already turned ON, turn the power OFF and turn it back ON.

3 Check the installation sites for the machine and the wireless router.
- Is the distance between the machine and the wireless router close enough to communicate?
- Isn't there any obstacle, such as a wall, between the machine and the wireless router?
- Isn't there any electronic device, such as a microwave or a digital cordless phone, that emits electronic wave?

Wireless Router   Within 164' (50 m)   The machine
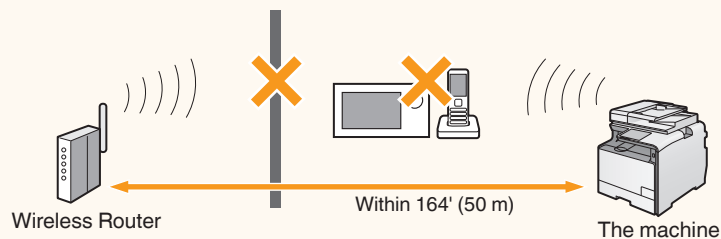
4 Specify the settings again.
- "Setting via WPS" (P. 4)
- "Setting by Selecting the SSID (Network or Access Point)" (P.6)

Proceed to the next page if you still cannot connect the machine to the network.

18

Check the settings of the wireless router.

If one of followings is the case:

⊕ "Setting Up Connection by Specifying Detailed Settings" in the e-Manual

- Deny ANY*: Enabled
- <Select WEP Key>: A wrong WEP key is selected from <WEP Key 1> to <WEP Key 4>.
- WEP key (hexadecimal): Automatically generated by the wireless router.

* A function that makes the wireless router deny a connection when another device's SSID is set to "Any" or "Empty."

If one of following is the case, change the settings of the wireless router.
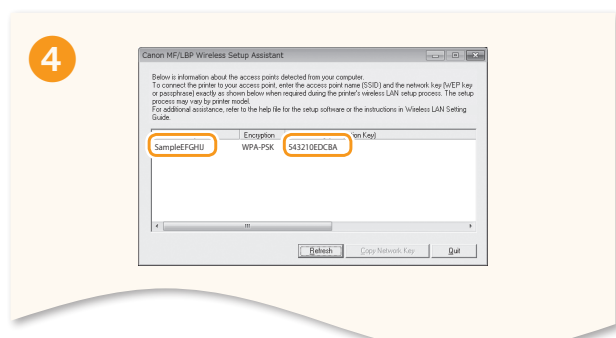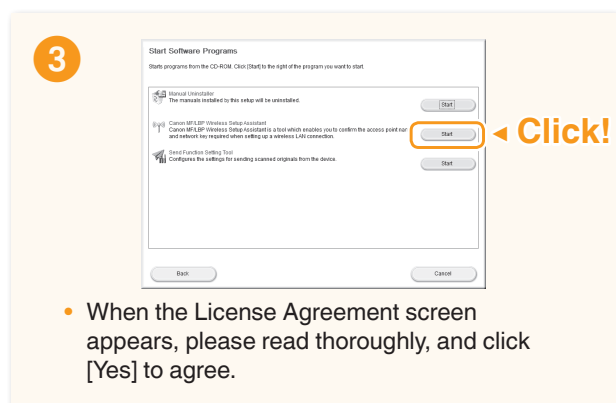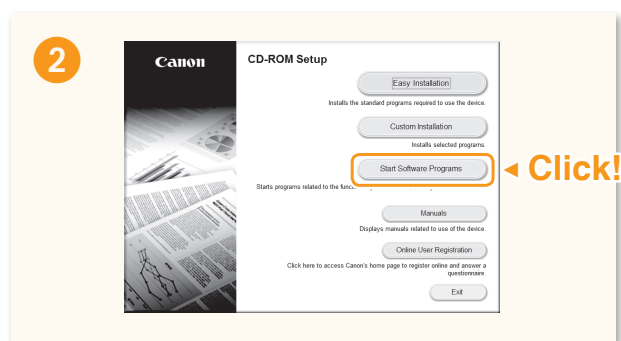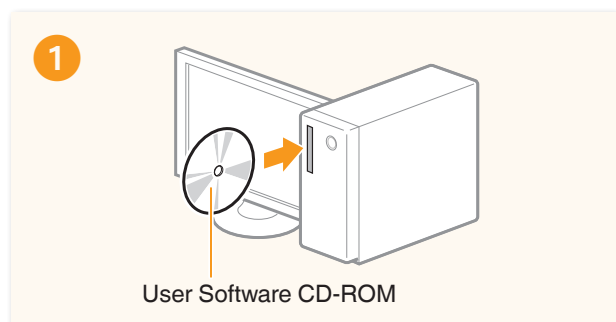
- The MAC address filtering: Enabled
- An encryption method only when communicating using IEEE 802.11n: WEP or TKIP
- Stealth function*: Enabled

* A function that makes SSIDs of the wireless router invisible on other devices.

For the operation method of the wireless router, see the instruction manual of the wireless router, or contact the manufacturer.

Appendix

## Checking SSID or Network Key for a Wireless Router

You can check the SSID or the network key using Canon MF/LBP Wireless Setup Assistant, which is included in the User Software CD-ROM.

1

User Software CD-ROM

2

◄ **Click!**

3

◄ **Click!**

- When the License Agreement screen appears, please read thoroughly, and click [Yes] to agree.

4

- Write down the name of the access point (SSID) and network key on P. 6, and then continue the setup procedure.

If multiple access points are displayed:

1 Write down all SSIDs that are displayed.
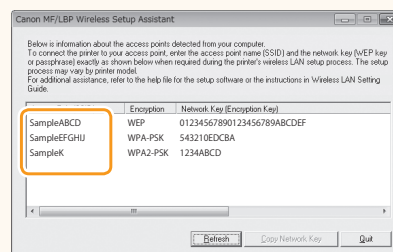
2 Perform the procedure up to step ❻ in "Setting by Selecting SSID (Network or Access Point)" (P. 6).

3 Select the SSID that matches the one you wrote down from the displayed SSID in step ❼.

4 Write down the network key for the SSID you selected.
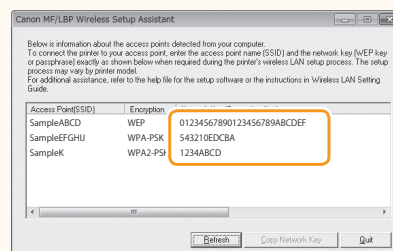
If the information for the wireless router is not displayed:

- Click the [Refresh] button.
- If the information is not displayed when you click the [Refresh] button, check the network connection of the computer and the wireless router.

➡ Return to step ❼ on P. 7

Memo

Memo

Memo

Contacting the Service Center

When you have a problem with your
machine, refer to "Troubleshooting" in the
Basic Operation Guide or the e-Manual first.
If you cannot solve the problem after referring
the manuals, contact the Canon Authorized
Service Facilities or the Canon Customer
Care Center.

Canon Customer Care Center

1-800-OK-CANON

(U.S.A./Canada)

U.S.A.
Monday through Friday
From 8:00 A.M. to 8:00 P.M. EST

Canada
Monday through Friday
From 9:00 A.M. to 8:00 P.M. EST
http://www.canon.ca/

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