

Supplementary Owner's Manual for Wireless LAN Function (Version 1.05)

This document discusses the functions that have been added to support the Wireless LAN Function. Please read this along with the FR-1x owner's manual.

Check the version

The wireless LAN function was added in FR-1x version 1.05. If the version is earlier than 1.05, download the update from the support page (<http://www.roland.com/support/>) → Downloads → product name (FR-1x Button or Piano type) → FR-1x System Program Version 1.05, and update your FR-1x.

* If this supplementary manual was included with the FR-1x you purchased, your instrument has already been updated to version 1.05 or later; you do not need to update.

How to check the version

Switch on the FR-1x while holding down the treble registers [2].

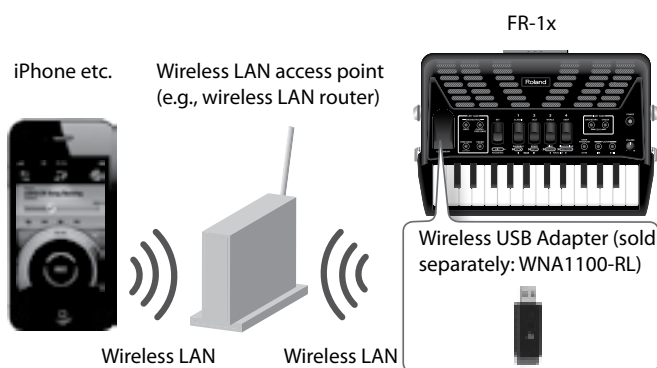
- *1 The wireless LAN access point you use must support WPS. If your wireless LAN access point does not support WPS, you can connect using the procedure described in "Connecting in Ad-Hoc mode (Ad-Hoc Mode)" (p. 2).
- *2 The ability to connect with all kinds of wireless LAN access points is not guaranteed.
- *3 If you're unable to connect to the wireless LAN access point, try connecting using Ad-Hoc mode (p. 2).

Basic Connection Method (Connect by WPS)

The first time you connect the FR-1x to a wireless network, you'll need to perform the following procedure (WPS) to join the wireless network. This procedure is required only the first time. (Once you've joined the network, this procedure will no longer be necessary.)

What is Wireless LAN Function?

By inserting the wireless USB Adapter (WNA1100-RL; sold separately) into the FR-1x's USB MEMORY port, you'll be able to use wireless-compatible applications (such as the "Air Recorder" iPhone app).



What is WPS?

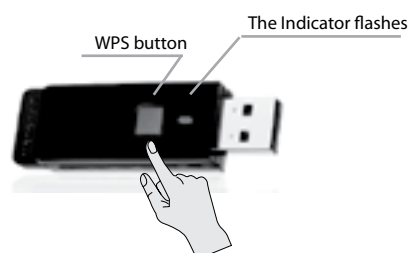
This is a standard that makes it easy to make security settings when connecting to a wireless LAN access point. We recommend that you use WPS when connecting to a wireless LAN access point.

1. Turn ON the power of the FR-1x.
2. Insert the wireless USB Adapter (WNA1100-RL; sold separately) into the FR-1x's USB MEMORY port.
3. Press and hold the WPS button for three seconds while taking care to hold it firmly with two finger at least, to prevent it from bending.

The indicator of the wireless USB Adapter flashes.

Items required to use the wireless LAN function

- Wireless USB Adapter (sold separately: WNA1100-RL)
- Wireless LAN access point (e.g., wireless LAN router) *1*2*3
- Phone or iPad touch etc.



NOTE

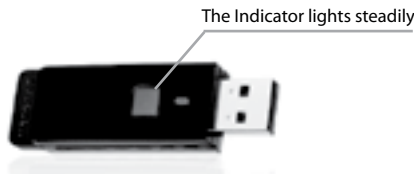
If you apply excessive force to the USB adapter when pressing

the button, you may damage it.

4. Perform the WPS operation on your wireless LAN access point (e.g., press and hold the WPS button on your wireless LAN access point).

For details on WPS operation of your wireless LAN access point, refer to the documentation for your wireless LAN access point.

Once successfully connected the indicator of the wireless USB adapter lights steadily.



NOTE

The device (e.g., iPhone) running the app must be connected to the same network.

MEMO

- The connection data is stored in memory when you perform the WPS procedure; the device will automatically connect to the wireless network the next time.
- All connection data will be erased if you perform a factory reset.
- Connection data is not included in a backup.

Wireless LAN Function Settings

You can view or edit the wireless settings.

1. Press and hold the [SET] register to enter PARAMETER mode.

The display shows the name of the last parameter you selected

2. Use treble register [3] or [4] (PARAM LIST) to select the desired wireless parameter.

You will find the wireless parameters at the end of the parameter list.

The wireless parameters are:

Parameter	Display	Explanation
Wireless ID	8 id	Specifies the final digits of the FR-1x's device name and Ad-Hoc SSID (FR-1x) that will be shown as the instrument in the wirelessly connected app. Normally, you should specify "dEF", but if you have more than one of the same instrument, you can set the Wireless ID in the range of 1-99 to change the device name and Ad-Hoc SSID for each instrument, as follows. If Wireless ID="dEF", "FR-1x" (default value) If Wireless ID=1, "FR-1x_1" : If Wireless ID=99, "FR-1x_99"
Ad-Hoc Mode	Adh	Turns Ad-Hoc mode on/off (default = "oFF").
Ad-Hoc Channel	ChC	Specifies the channel (1-11) for Ad-Hoc mode (default = 1).
Ad-Hoc Key	Key	This is the Ad-Hoc key (5 digits). The FR-1x shows only the last 3 digits of the numeric key. The first two digits are to be regarded as "00xxx". This numeric key is fixed and unique for each FR-1x. You'll have to type it in the password field on the iPhone or other wireless device that you want to connect.

3. Use treble register [1] (◀VALUE) or [2] (VALUE▶) to set the desired value.

4. Press the [SET] register to leave this mode or Proceed to step 5 to confirm and save your changes.

Saving your changes

5. Press and hold the [SET] register until the display shows "4-5".

6. Press register [2] (VALUE▶) to save your settings.

The display shows "4E5".

If you don't want to save your changes, press [1] (◀VALUE). The display briefly shows the "00" message.

7. Press the [USER PROGRAM] (ENTER) button to confirm your intention.

The settings are stored internally and the display briefly shows the "4.E.5." message (the three dots flash), then "0000" when the settings are stored. Next, the display returns to the master page.

8. Switch off the FR-1x, then switch it back on again.

The changed wireless parameter are now effective.

Connecting in Ad-Hoc mode (Ad-Hoc Mode)

Here's how to connect in Ad-Hoc mode.

What is Ad-Hoc mode?

Ad-Hoc mode lets you connect the FR-1x directly to an iPhone or other wireless device without using a wireless LAN access point. This is a convenient way to use the FR-1x with an iPhone or other wireless device if you're in a location where the wireless LAN access point you normally use is unavailable, such as when you're away from home.

iPhone etc.



FR-1x



Limitations

The iPad touch or other wireless device connected in Ad-Hoc mode will be unable to communicate with the Internet or with another wireless device. However, an iPhone or other wireless device that has cellular capability will be able to connect to the Internet via the cellular connection.

Please be aware that if you use a cellular connection for Internet connectivity, you may incur costs depending on your rate plan.

1. Insert the wireless USB Adapter (WNA1100-RL; sold separately) into the FR-1x's USB MEMORY port.

2. Turn the Ad-Hoc Mode "On". Please follow the instructions in "Wireless LAN Function Settings" (p. 2)

You can use Channel to specify a channel (1-11) for Ad-Hoc mode. Normally, you won't need to change the channel. Try changing the channel only if you have problems connecting.

MEMO

After setting Ad-Hoc Mode "On" or "Off", remember to save your changes and then switch the FR-1x off and switch it on again.

3. On the iPhone or other wireless device that you want to connect, select the Ad-Hoc SSID to make the connection. (For example, on an iPhone, choose [Settings] → [Wi-Fi] → [Choose a Network] to select the above Ad-Hoc SSID. A password entry screen will appear; enter "00" followed by

the FR-1x Ad-Hoc key (3 digits). See "Ad-Hoc Key" p. 2)

For details on how to connect to a wireless LAN from an iPhone or other device, refer to the owner's manual of that device.

4. When you want to end the Ad-Hoc mode connection, restore the iPhone settings in [Settings] → [Wi-Fi] → [Choose a Network] to their previous state.

Troubleshooting

* For problems related to communication, refer also to the owner's manual of your wireless LAN access point.

* For details on operating your wireless LAN access point, refer to its owner's manual.

Problem	Action
Can't connect to a wireless LAN access point	<ul style="list-style-type: none"> Make sure that your wireless LAN access point supports WPS. If your wireless LAN access point does not support WPS, you can connect using the procedure described in "Connecting in Ad-Hoc mode (Ad-Hoc Mode)" (p. 2). Have you entered the correct password in the iPhone or other wireless device? Disconnect and reconnect the wireless device and then enter the right FR-1x Ad-Hoc Key. (For example, on an iPhone, to disconnect, choose [Settings] → [Wi-Fi], press the arrow icon on the right of the network name and then press "Forget this Network". The 802.11a/b wireless standard is not supported. Please use the 802.11g/n (2.4 GHz) wireless standard. The WEP authentication method is not supported. Please use the WPA or WPA2 authentication method. Make sure that DHCP is enabled for your wireless LAN access point. If you don't get connected to the previously-connected wireless LAN access point when you turn on the power, check and make sure the setting described in "Connecting in Ad-Hoc mode (Ad-Hoc Mode)" (p. 2) is OFF. There is a limit to the connection data that can be remembered. Making a new connection may cause older connection data to be deleted. All connection data will be deleted if you execute a factory reset. If the connection data has been deleted, please re-connect to the wireless LAN access point.
Communication is unstable	<p>Communication may be unstable depending on the usage of the radio frequency spectrum.</p> <p>If communication is unstable, the response may be sluggish, or if using audio communication, there may be dropouts in the audio.</p> <p>The following actions may improve the situation.</p> <ul style="list-style-type: none"> Move the wireless LAN access point and the FR-1x closer to each other. Change the channel setting of the wireless LAN access point.
The FR-1x is not found in the instrument connections of the app (such as the iPhone app Air Recorder)	<ul style="list-style-type: none"> Is the FR-1x powered up? Is the wireless USB adapter (WNA1100-RL) inserted to the FR-1x? Is the FR-1x connected to the wireless LAN? Are the FR-1x and the iPhone connected to the same network (the same wireless LAN access point)? Is the wireless LAN access point set to allow communication between wireless LAN devices? <p>For details on settings, refer to the owner's manual of your wireless LAN access point.</p>
Your iPhone or iPad touch won't connect to the Internet	<ul style="list-style-type: none"> Is the wireless LAN access point connected to the Internet? Could you be connected in Ad-Hoc mode? <p>The iPad touch or other wireless device connected in Ad-Hoc mode will be unable to communicate with the Internet or with another wireless device. However, an iPhone or other wireless device that has cellular capability will be able to connect to the Internet via the cellular connection. Please be aware that if you use a cellular connection for Internet connectivity, you may incur costs depending on your rate plan.</p> <p>A wireless device such as an iPad touch that does not have cellular capability will become unable to connect to the Internet in this case.</p>

Checking the MAC Address

The MAC address indicated on the bottom of the wireless USB adapter (WNA1100-RL; sold separately).



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