

# Instruction Manual

## Setup Guide

Read to connect and configure the product

**Speed Wi-Fi NEXT WX02**

Technically Certified

### Preface

Thank you for buying the Speed Wi-Fi NEXT WX02 (simply called the "product" from here on). Before using the product, be sure to read the "Setup Guide" (this manual) and the "Notes on usage" to ensure correct use. The "Setup Guide" (this manual) handles only basic operations for main features.

As an instruction manual related to the product, the "Setup Guide" (this manual), the "Notes on usage", and the "取扱説明書 詳細版 (Full Instruction Manual)" (Japanese) are available for download from the WiMAX Support Information website. In this manual, all such manuals are collectively referred to as the "Instruction Manual".

The PDF version of the "取扱説明書 詳細版 (Full Instruction Manual)" (Japanese) is also included in the product. Connect the product to a PC or the like by means of wireless LAN (Wi-Fi) or a microUSB cable, launch the web browser, type "http://192.168.179.1" in the address and log in to the Advanced Settings on the Quick Setting Web to view "情報 (Information)", and access "マニュアル (Manual)".

The PDF versions of the Instruction Manuals can be downloaded from the WiMAX Support Information website. <http://www.necat.co.jp/wimax/support/uqc/wx02/index.html>

Company names and product names referred to in this manual are trademarks or registered trademarks of the respective companies.

The illustrations and screenshots that appear in this manual may not be a precise representation of the actual product. Furthermore, part of the screenshots used may be omitted.

### List of Packaged Items

Before you start using the product, make sure that you have all the following packaged with the product.

- ☐ Speed Wi-Fi NEXT WX02 (main unit)
- ☐ Battery pack (NAD31UAA)
- ☐ Rear cover
- ☐ microUSB cable (AL1-003329-005)  
Use the AC adapter NAD11PQA (sold separately) to charge the product. It is also used to connect the product to the PC.
- ☐ つなぎがたガイド "Setup Guide" (Japanese)
- ☐ ご利用にあたっての注意事項 (保証書付) "Notes on usage" (with warranty) (Japanese)
- ☐ 無線LAN設定用QRコード (シール) "Wireless LAN Setup QR Code (label)" (Japanese)  
Keep this label safe by placing it on the <Wireless LAN Setup QR Code> field described in **STEP 2** of the enclosed つなぎがたガイド "Setup Guide" (Japanese).

### When using the product

- This product can connect with WiMAX 2+ and WiMAX. Although communication will automatically switch between WiMAX 2+ and WiMAX in response to the reception environment, there may be periods of several seconds during switching when communication will not be possible.
- Keep the product at least 1.5 cm away from your body, and make sure that there are no intervening metallic objects when you communicate.
- Communication is not possible even in the service area in places where the signal does not reach (e.g. tunnels and basements). Also, communication is sometimes not possible in poor reception areas. Communication is sometimes interrupted if you move into a poor reception area during communications.
- Since this product uses radio waves, the possibility of communication interception by third parties cannot be eliminated. (The WiMAX 2+ method and the WiMAX method, however, offer secure communication encryption and secrecy functions).
- This product is designed for use in Japan only and cannot be used in any other country.
- Since this product is a radio station under the Radio Law, you may be asked to temporarily submit the product for inspection in accordance with the Radio Law.
- The product is compliant with rules on the technical standard conformance of specified wireless equipment based on the Radio Law/Telecommunications Business Act, and as proof of it, the "Technical Conformity Mark" can be confirmed on the screen display of the product. For the confirmation method, see "Display Menu Operations" on the next page of this manual.
- Do not discard the product together with regular trash. Please cooperate in the collection of the product when it is no longer needed and used battery packs to protect the environment and effectively use resources. Old products and used battery packs are collected at au shops and other places.
- Note that specifications and external appearance are subject to change without notice in the interest of product improvement.
- The illustrations used in this manual are images. Note that images may not be a precise representation of the actual product and parts of the illustrations used may be omitted.

### Data Communication Terminal Etiquette

- Use of the product is not allowed in the following places!
  - Use of this product on board is restricted. Follow the Instructions of each airline.
- Pay attention to the place of use!
  - In a city area, use in a place where you do not bother people walking.
  - It is extremely dangerous to walk while looking at the screen of the product. Do not operate the product while walking or by stopping suddenly.
  - Move to a place where you do not disturb others while you are in shinkansen, a hotel lobby, etc.
  - There may be a person with a cardiac pacemaker nearby at a place filled with people such as in a crowded train. Turn off beforehand.
- When a medical institution has laid down designated areas where use of the product is prohibited or is not allowed to be brought in, abide by the instructions of that medical institution.

### Names and Functions of Components

	Name	Function
①	Display	Lets you view the key settings of the product.
②	POWER button	Turns the power ON/OFF. Used to light up the display that has been automatically turned off. Used to recover the product from a state of waiting or being idle.
③	SET button/ RAKURAKU START button	Used to set display menu and items. Used to configure the product with Rakuraku wireless start.
④	SELECT button	Used to configure WPS-enabled wireless LAN (Wi-Fi) devices and wireless LAN (Wi-Fi). Used to light up the display that has been automatically turned off.
⑤	microUSB port	Used to set display menu and items. Used to connect the enclosed microUSB cable to the product or when placing the product on the cradle (sold separately).
⑥	SIM card slot	Insert the au Micro IC Card (LTE) into this slot.
⑦	Strap hole	Used to put a strap.

### Waiting or Idling

- Waiting: A function to minimize power consumption in order to increase the operating time.
- Idling: A function for prompt start from wireless idling state.

## STEP 1 Preparing for Setup

### Attaching the au Micro IC Card (LTE)

When attaching the au Micro IC Card (LTE), disconnect the product from the power source and make sure to turn off.

Remove the microUSB cable and cradle (sold separately) when they are connected.

1 Insert the au Micro IC Card (LTE) with its IC (metal) part facing down until it clicks into position.

- This product supports only au Micro IC Card (LTE). Other IC cards besides au Micro IC Card (LTE) are not available.
- Confirm the correct inserting direction of the IC card. Failure to do so may cause a malfunction or damage.
- Refrain from inserting the SD card and IC card with a conversion adapter. Doing so may cause failures.
- Be careful not to touch or damage the IC (metal) part of the au Micro IC Card (LTE).

### Attaching the Battery Pack

1 Slide the battery pack into the end with the marked surface (Recycling symbol etc.) facing up.

Contact the terminal of the battery pack with the terminal of this product and then push in.

2 Attach the rear cover.

- Press the cover onto the unit until the clips of the Q side of the UQ logo click into position.
- Be sure to firmly press the edges of the cover so that there are no gaps.

### Charging the Product

Explains how to charge using the specified AC adapter NAD11PQA (sold separately) and microUSB cable (enclosure) with this product.

\* Charge the battery in power off or idle state. If the battery is charged during operation or when temperature of main unit or battery is high, charging may stop even if the battery is not full in order to keep the battery life long.

- Insert the microUSB connector of the microUSB cable into the microUSB port on the product.
  - Plug the microUSB connector straight into the microUSB port of this product with its side bearing the USB mark facing down.
- Attach the other end of the USB connector to the AC adapter (sold separately) and insert the power plug of the AC adapter (sold separately) into a power outlet.
  - Press the POWER button to check the battery status (remaining battery level). The battery level is indicated under the charging icon as a percentage. (An indication estimates the remaining battery level. It varies depending on the usage environment or status of this product.)
  - Plug the USB connector into the AC adapter (sold separately) with its side bearing the USB mark facing down.
  - Make sure that the AC adapter (sold separately) is in a secure position.

\* Charging may stop in order to protect the battery from overheating.

For information on how to charge the battery pack on the cradle (sold separately), refer to the WX02 クレードル (NAD32PUU) 取扱説明書 "Instruction Manual of the cradle" (Japanese).

### Turning the Power On

Hold down the POWER button until "NEC" appears in the display and this product is turned ON.

\*When the "Normal display" (refer to "Displayed Information" on the next page) appears, proceed to **STEP 2**.

\* To turn OFF the product, hold down the POWER button until "Power OFF" appears in the product display.

If "New Firmware is released. Do you want to update?" appears on the display when the power is turned on, update the firmware. (Refer to "Firmware Update" on the next page)

**Consult the homepage for the latest firmware.**  
Check the product version on the "Terminal Info" display. (Reference to "Display Menu Operations" on the next page.)  
When "New Program Released" appears on the display of this product, it indicates that a new firmware exists. In that case, refer to the "Firmware Update" on the next page of this manual to update the version.

### Switching to English display

- Launch the Quick Setting Web and log in (Refer to **STEP 4**).
- Click [English] and then click [Save] from the menu on the left of the Quick Setting Web screen.
  - The display and the Quick Setting Web of this product will switch to English.

### Check

Verify the following product settings.

- Primary SSID (wx02-xxxxxx)
- Primary key (encryption key) (AES) (13 alphanumeric characters)

Confirm the enclosed 無線LAN設定用QRコード(シール) "Wireless LAN Setup QR Code (label)"

How to confirm by the display menu is described below.

- While the product display is in the normal display, press the SELECT button a few times to display [Wi-Fi Info].
- Press the SET button to display the Primary SSID.
- Press the SELECT button to display the Primary Key.

Primary SSID  
wx02-xxxxxx

\* Have these available for **STEP 2**.

\* The Primary SSID and Primary key of this product are also indicated on the sticker under the battery pack.

## STEP 2 Connecting via Wireless LAN (Wi-Fi®)

Data communication can be performed with this product by connecting wireless LAN (Wi-Fi®) devices such as a PC, game console, smartphone, etc. Up to 10 wireless LAN (Wi-Fi®) devices can be connected to this product.

However, the wireless LAN (Wi-Fi®) function and the Bluetooth function cannot be used simultaneously.

### Windows 10/8.1/8

This section explains how to establish a wireless LAN (Wi-Fi®) connection by WPS.

\* For Windows 8.1/8, select [デスクトップ (Desktop)] on the [スタート (Start)] screen.

- Enable the wireless function of your PC.
  - For details on configurations, refer to relevant documentation such as the instruction manual for your PC.
- Click the network icon appearing in the notification area (task tray).

3 Choose the network name (SSID) of the product from the list of networks.

\* The network name (SSID) of the product can be found by clicking [Wi-Fi Info] in the display menu. (See "Check" in **STEP 1**.)

4 Click [接続 (Connect)].

5 In the normal display, press the SELECT button a few times, select [Setup Wi-Fi with Rakuraku/WPS] in the menu and press the SET button.

\* If the display has been turned off, press the POWER button to turn on the normal display.

6 Select [WPS] with the SELECT button, and press the SET button.

7 Hold down the SET button as instructed onscreen with the dialogue of [Starting the waiting... Press [SET] and Hold it..]

8 The message [Setup completes] will be displayed.

9 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

## STEP 3 Verifying the Connection Status

◆ If [WX2+] or [WX] is displayed along with 接続済み (Connected) in the display and this product can be connected to the Internet.



configuration of the product has been completed.

◆ If [WX2+] is displayed along with 接続済み (Connected) in the display and this product cannot be connected to the Internet,

◆ If the Wireless LAN (Wi-Fi®) connection with the product is not established, Select [Functions Maintenance] - [Wi-Fi Management Frame] in the display menu, set [No Protection] and reconnect via Wi-Fi in **STEP 2**.

◆ If "Not available" is displayed, configure the connection destination in **STEP 4**.

\* For an explanation of each icon, see "Displayed Information" on the next page of this manual.

### Mac OS (OS X v10.10)

1 In the Apple Menu, click [システム環境設定 (System Configuration)] - [ネットワーク (Network)].

2 Select [Wi-Fi] from the list of services.

3 From the [ネットワーク名 (Network Name)] pull-down list, select the network name (SSID) of the product.

\* The network name (SSID) of the product can be found by clicking [Wi-Fi Info] in the display menu. (See "Check" in **STEP 1**.)

4 Type the encryption key of the product in the [パスワード (Password)] field and click [接続 (Connect)].

\* The network name (SSID) of the product can be found by clicking [Wi-Fi Info] in the display menu. (See "Check" in **STEP 1**.)

5 [接続済み (Connected)] will be displayed in the [状況 (Status)].

6 Close the window.

7 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

### Smartphone / Tablet (Android)

#### Configuration with Rakuraku QR Start

1 Search the Google Play Store for the "Aterm 5.5 QRスタート for Android (Aterm Rakuraku QR Start for Android)" application to download and install it.

\* This application is also available for download on the "Aterm 5.5 QRスタート (Aterm Rakuraku QR Start)" website listed below (as of October, 2015).

<http://qr.aterm.jp>

2 On the Home screen, tap the "Aterm 5.5 QRスタート (Aterm Rakuraku QR Start)" icon.

3 With the Camera View screen, scan the enclosed 無線LAN設定用QRコード "Wireless LAN Setup QR Code".

\* The 無線LAN設定用QRコード "Wireless LAN Setup QR Code" may be attached to the space provided below.

4 Tap [設定適用 (Apply Changes)].

\* Make sure that the power of the product has been turned ON.

5 The connection will be established.

6 Tap [OK].

7 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

### iPad/iPhone / iPod touch

#### Configuration with Rakuraku QR Start

1 Search the App Store for the "Aterm 5.5 QRスタート for iOS (Aterm Rakuraku QR Start for iOS)" application to download and install it.

\* This application is also available for download on the "Aterm 5.5 QRスタート (Aterm Rakuraku QR Start)" website listed below (as of October, 2015).

<http://qr.aterm.jp>

2 On the Home screen, tap [設定 (Configure)] to turn off the [機内モード (Airplane Mode)] and turn on [Wi-Fi].

3 On the Home screen, tap the "Aterm 5.5 QRスタート (Aterm Rakuraku QR Start)" icon and then tap [OK].

\* After a moment upon being activated, Camera View will be displayed.

4 With the Camera View screen, scan the enclosed 無線LAN設定用QRコード "Wireless LAN Setup QR Code".

\* The 無線LAN設定用QRコード "Wireless LAN Setup QR Code" may be attached to the space provided below.

5 Tap [設定適用 (Apply Changes)].

\* Make sure that the power of the product has been turned ON.

6 Tap [OK].

7 Tap [インストール (Install)].

8 Tap [インストール (Install)].

9 Tap [インストール (Install)].

10 Tap [完了 (Complete)] - [OK].

11 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

12 Tap [インストール (Install)].

13 Tap [インストール (Install)].

14 Tap [完了 (Complete)] - [OK].

15 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

16 Tap [インストール (Install)].

17 Tap [インストール (Install)].

18 Tap [完了 (Complete)] - [OK].

19 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

20 Tap [インストール (Install)].

21 Tap [インストール (Install)].

22 Tap [完了 (Complete)] - [OK].

23 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

24 Tap [インストール (Install)].

25 Tap [インストール (Install)].

26 Tap [完了 (Complete)] - [OK].

27 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

28 Tap [インストール (Install)].

29 Tap [インストール (Install)].

30 Tap [完了 (Complete)] - [OK].

31 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

32 Tap [インストール (Install)].

33 Tap [インストール (Install)].

34 Tap [完了 (Complete)] - [OK].

35 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

36 Tap [インストール (Install)].

37 Tap [インストール (Install)].

38 Tap [完了 (Complete)] - [OK].

39 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

40 Tap [インストール (Install)].

41 Tap [インストール (Install)].

42 Tap [完了 (Complete)] - [OK].

43 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

44 Tap [インストール (Install)].

45 Tap [インストール (Install)].

46 Tap [完了 (Complete)] - [OK].

47 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

48 Tap [インストール (Install)].

49 Tap [インストール (Install)].

50 Tap [完了 (Complete)] - [OK].

51 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

52 Tap [インストール (Install)].

53 Tap [インストール (Install)].

54 Tap [完了 (Complete)] - [OK].

55 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

56 Tap [インストール (Install)].

57 Tap [インストール (Install)].

58 Tap [完了 (Complete)] - [OK].

59 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

60 Tap [インストール (Install)].

61 Tap [インストール (Install)].

62 Tap [完了 (Complete)] - [OK].

63 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

64 Tap [インストール (Install)].

65 Tap [インストール (Install)].

66 Tap [完了 (Complete)] - [OK].

67 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

68 Tap [インストール (Install)].

69 Tap [インストール (Install)].

70 Tap [完了 (Complete)] - [OK].

71 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number indicates the number of connected devices.  
A value of "0" will be displayed when no connections have been established.

72 Tap [インストール (Install)].

73 Tap [インストール (Install)].

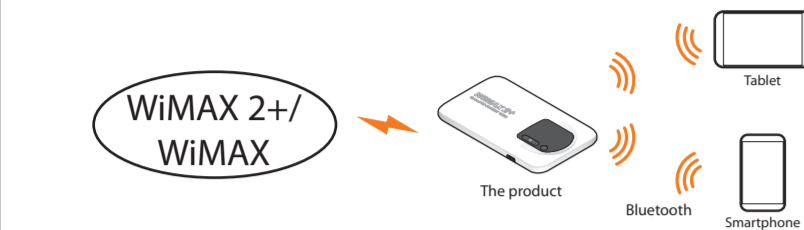
74 Tap [完了 (Complete)] - [OK].

75 Check that a value of "1" or more is displayed under the 接続済み (Connected) icon in the product display.

\* This number

## Connecting via Bluetooth

Use this product as an access point to connect Bluetooth devices such as a smartphone and tablet to the Internet. It is efficient for saving the battery.  
Up to 3 devices can be connected to the product via Bluetooth. (For pairing, up to 3 devices can be registered.)  
However, depending on the ambient reception environment, the number of connected devices may not reach the limit.  
Also, the wireless LAN (Wi-Fi) function and the Bluetooth function cannot be used simultaneously.



- If Bluetooth is disconnected after pairing, tap the Bluetooth device name of this product on the Bluetooth-equipped device screen to reconnect.
- When the number of paired devices reaches the limit, "Registration limit. Delete the pairing information," appears on the display. In that case, delete pairing information displayed in "Bluetooth Pairing Info" on "Bluetooth Settings" in the screen of the Quick Setting Web.

## Checking the Devices

- Your Bluetooth-equipped device supports Bluetooth 2.1 or later.
- Your device supports the profile (PANU) which can connect to the Internet.

For the smartphone models that support PANU, see the manufacturer's website.

## Preparing for the Connection

### Taking a Note of Bluetooth Device Name

- 1 In the normal display, press the SELECT button a few times, select [Terminal Info] in the menu and press the SET button.
- 2 Press the SELECT button to display [Bluetooth Device Name].  
The Bluetooth device name of this product is displayed in "Bluetooth Device Name".  
Bluetooth Device Name  
Memo  
\* Write it down in the location described in the enclosed つなぎガイド "Setup Guide" (Japanese).

### Turning Bluetooth "ON"

- 1 In the normal display, press the SELECT button a few times, select [LAN Selection Wi-Fi/Bluetooth] in the menu and press the SET button.
- 2 Select [Bluetooth] with the SELECT button, and press the SET button.
- 3 Check that [B] is displayed in the normal display.

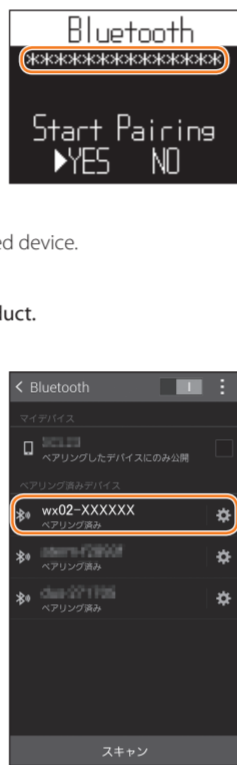
## Configuring the Connection Information

### Smartphone / Tablet (Android)

- 1 In the normal display, press the SELECT button a few times, select [Bluetooth Pairing Setting] in the menu and press the SET button.
- 2 Select [YES] with the SELECT button, and press the SET button.  
The message "Wait for Pairing" is displayed on the product.
- 3 Tap [設定 (Settings)] - [Bluetooth] on your Bluetooth-equipped device and set to "ON".
- 4 On your Bluetooth-equipped device, tap the Bluetooth device name of this product that is displayed on the [Wait for Pairing] screen in advance.



- 5 Check that "\*\*\*\*\* Start Pairing" is displayed on this product.  
\* The Bluetooth-equipped device information, such as the model name, is indicated in "\*\*\*\*\*".



- 6 Tap [ペア設定する (Pairing)] on your Bluetooth-equipped device.  
The displayed item may vary depending on the Bluetooth-equipped device.
- 7 Select [YES] with the SELECT button, and press the SET button.
- 8 The message "Pairing Setting succeeds." is displayed on the product.  
\* If "Pairing Setting fails" is displayed, resume the Step 1.
- 9 On your Bluetooth-equipped device, tap the Bluetooth device name of this product to connect to the Internet.  
If the device cannot be connected to the Internet, tap the icon on the right side of the device name to check that Internet Access<sup>\*)</sup> is marked.  
(\*) Screen display may be different depending on the Bluetooth-equipped device.



- 10 Check that a value of "1" or more is displayed under [B] in the product display.  
\* This number indicates the number of connected devices.

### iPad / iPod touch

\* This function is unavailable, as iPhone does not support PANU. (As of October, 2015)

- 1 In the normal display, press the SELECT button a few times, select [Bluetooth Pairing Setting] in the menu and press the SET button.
- 2 Select [YES] with the SELECT button, and press the SET button.  
The message "Wait for Pairing" is displayed on the product.
- 3 Tap [設定 (Settings)] - [Bluetooth] on your Bluetooth-equipped device and set to "ON".
- 4 On your Bluetooth-equipped device, tap the Bluetooth device name of this product which has been displayed on the [Wait for Pairing] screen in advance.



- 5 Check that "\*\*\*\*\* Start Pairing" is displayed on this product.  
\* The Bluetooth-equipped device information, such as the model name, is indicated in "\*\*\*\*\*".



- 6 Select [YES] with the SELECT button, and press the SET button.
- 7 The message "Pairing Setting succeeds." is displayed on the product.  
\* If "Pairing Setting fails" is displayed, resume the Step 1.
- 8 Check that "\*\*\*\*\* 接続済み (Connected)" is displayed on your Bluetooth-equipped device.  
\* The Bluetooth device name of this product is indicated in "\*\*\*\*\*".



- 9 Check that a value of "1" or more is displayed under [B] in the product display.  
\* This number indicates the number of connected devices.

## Energy-Saving Mode Setting

This function saves energy by limiting the communication speed of WiMAX 2+ and Wi-Fi, and extends the continuous operating time.  
Select from High Performance Mode, Balance Mode, or Eco Mode. The default value is "Balance Mode".  
Set in [Save Energy Set] of display menu or [Network Settings] - [Basic Settings] in the Quick Setting Web.

**High Performance Mode:** Does not limit the communication speed, but the continuous operation time is shorter than other mode.

**Eco Mode:** Limits the communication speed and the continuous operation time becomes longer.

**Balance Mode:** Does not limit the communication speed when the remaining battery level is enough. But when the remaining battery level is low, it limits the communication speed and the communication operation time becomes longer. This function switches when the non-communication state of WiMAX 2+ continues.

## Display Menu Operations

Various configurations can be performed and information can be confirmed by operating menus with the SELECT/SET buttons in the display. The screen displays are examples of some of the configurations.

### Setting Mode

While the display is turned on, using the SELECT/SET buttons switches the screen as follows.

- Switched by pressing the SELECT button  
\* Returns to normal display when the POWER button is pressed while switching menus.
- Switched by pressing the SET button
- Switched by holding down the SET button
- Switched automatically

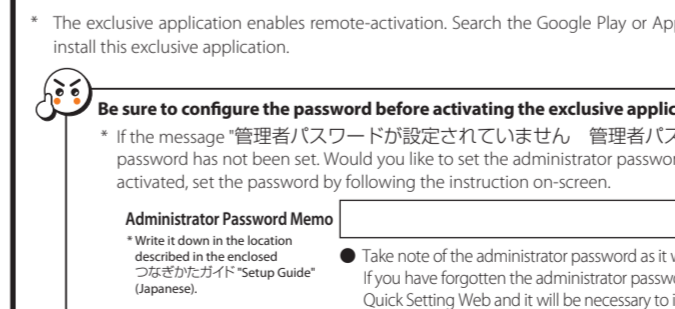
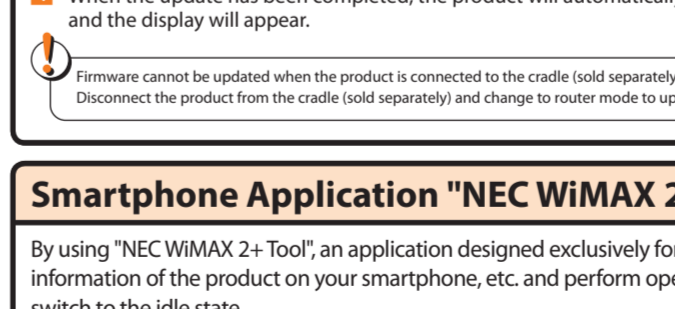
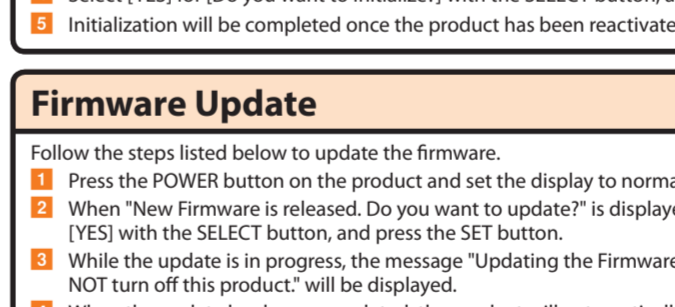
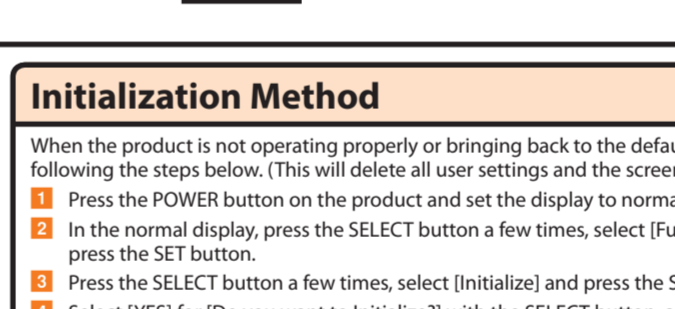
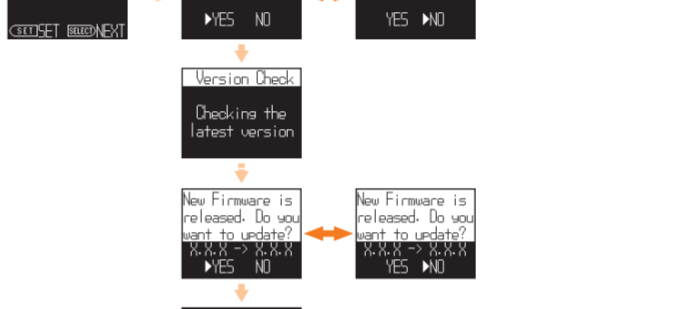
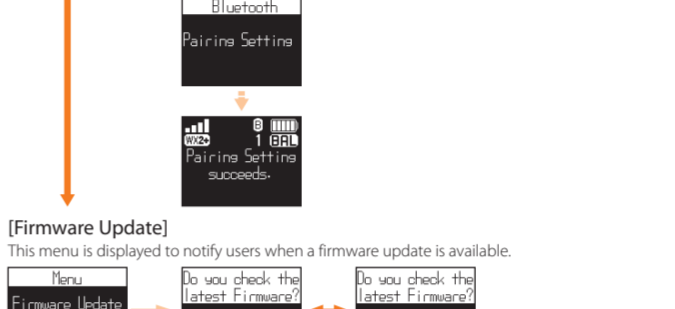
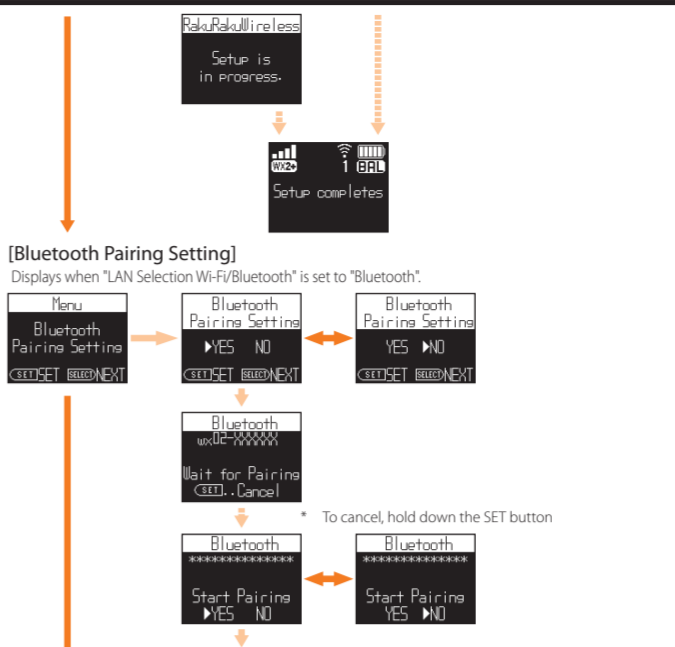
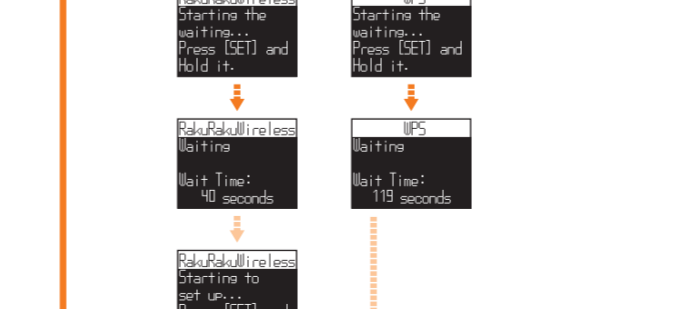
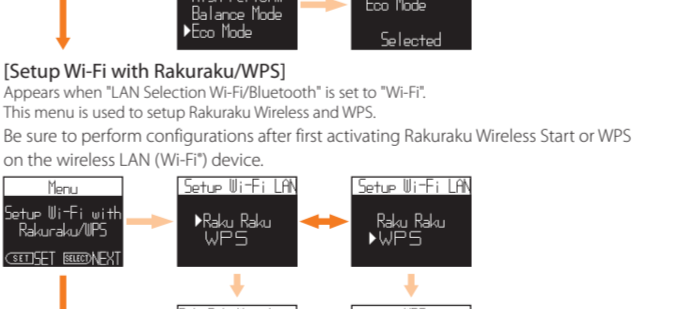
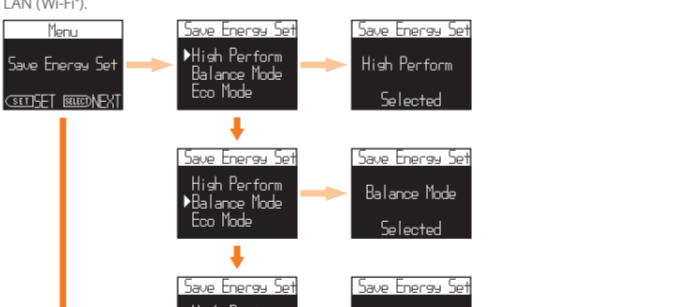
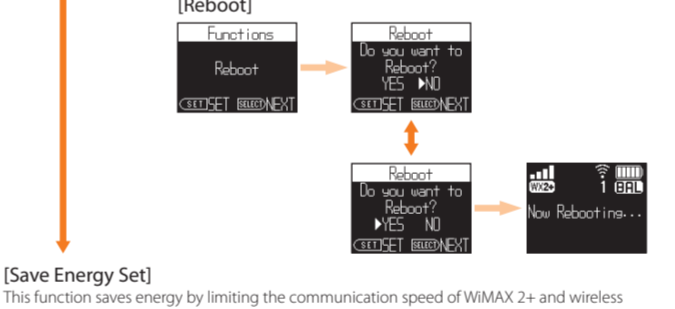
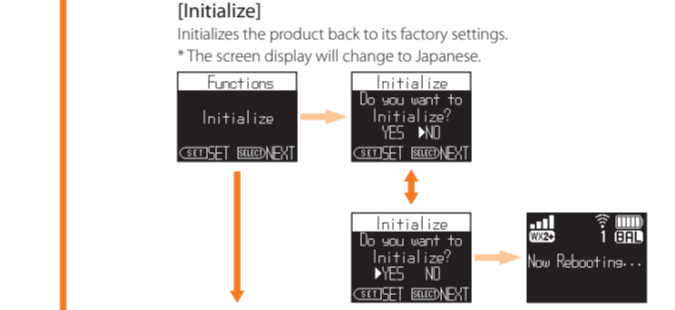
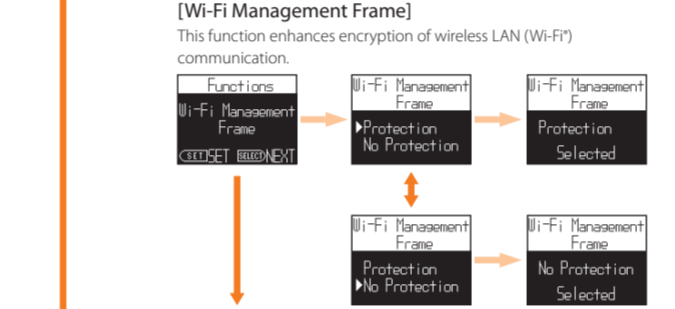
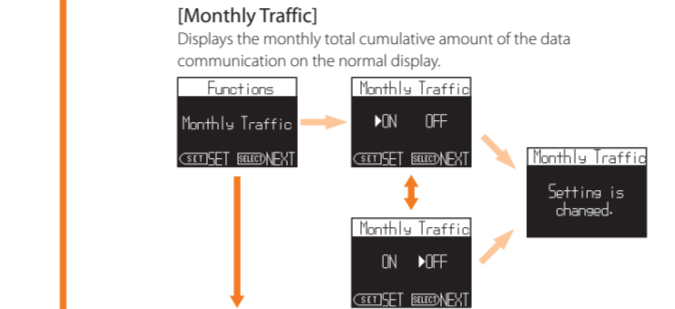
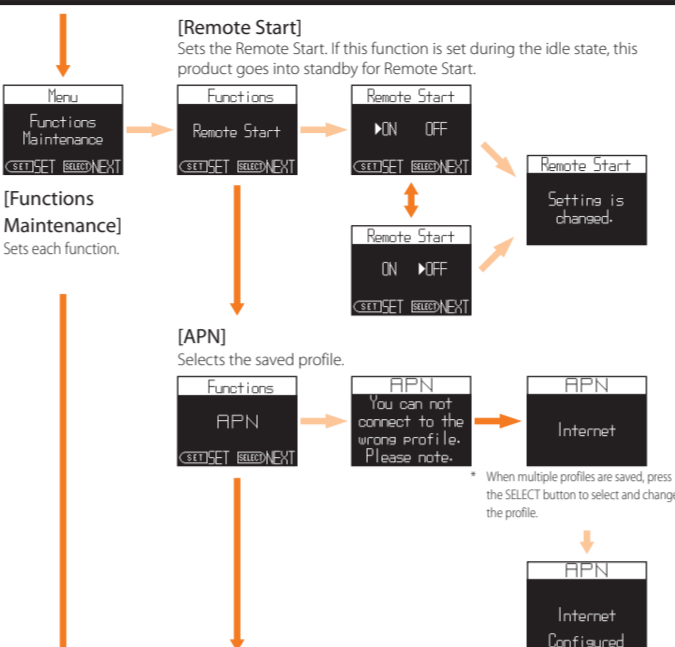
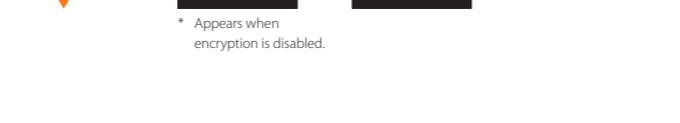
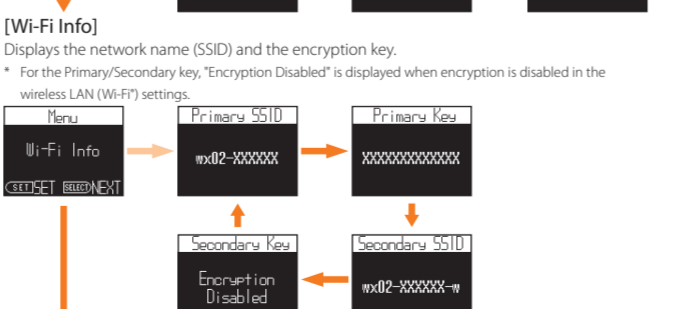
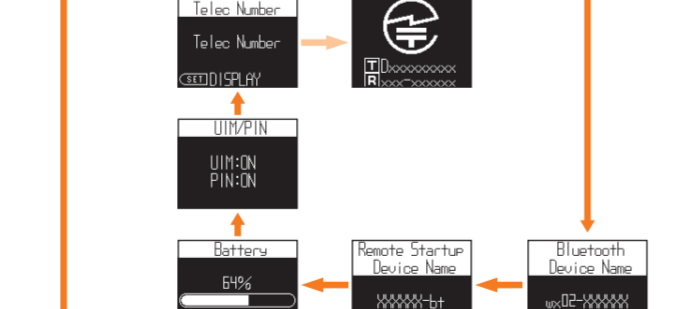
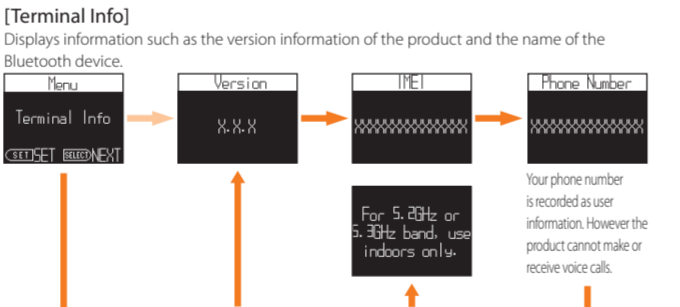
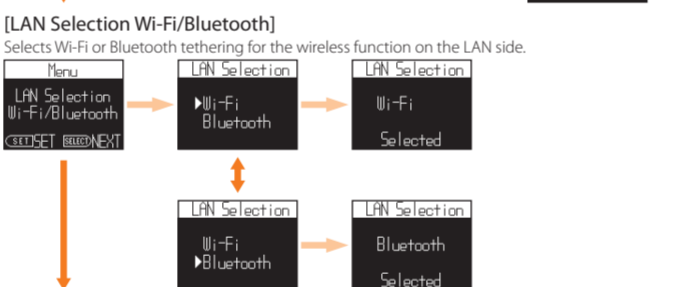
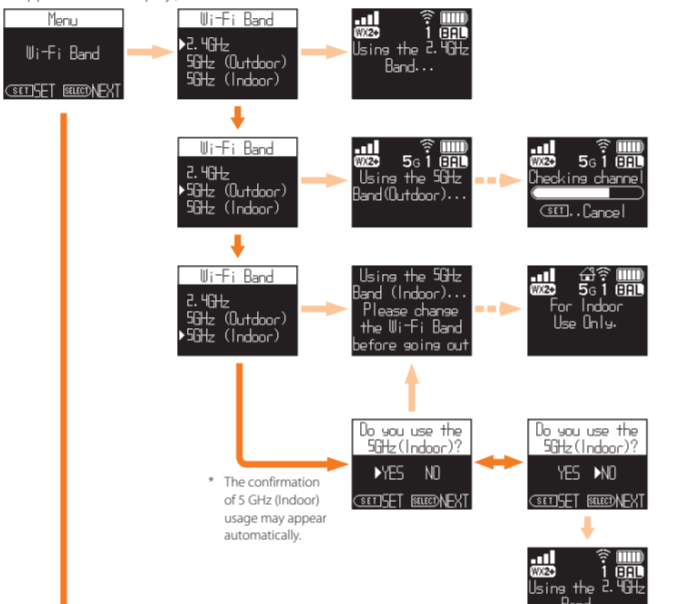
If the screen on the right is displayed while changing settings, change the setting again after waiting about 10 seconds.

### <Setting Menu>

**[Normal Display]**  
Displays the 3 days total cumulative amount of WiMAX 2+ communication. This is not displayed when the product cannot retrieve the time.

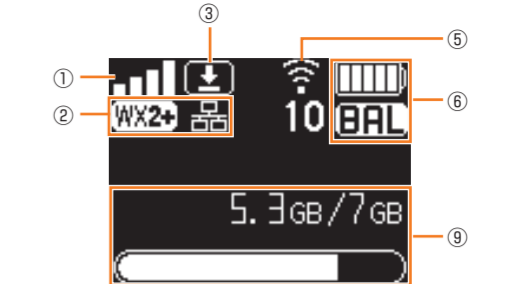


**[Wi-Fi Band]**  
This menu is displayed when the 5 GHz band is set to "Enable" in the Quick Setting Web. Note the following points when using the 5 GHz band.  
• By default, the product is not set to the 5 GHz band.  
• For 5.2 GHz band, use indoors only.  
• When Outdoor is selected, it takes about one minute to search the channel with the DFS function for avoiding interference of a meteorological radar, etc. ("Checking channel" appears on the display)



## Displayed Information

### <Normal display>



### <Idle state display>



Name	Indicator	State	Explanation
① Reception level		Illuminating	Indicates the signal strength of WiMAX 2+ in 5 levels
		Illuminating	Indicates the signal strength of WiMAX 2+ in 6 levels
② Connection status		Illuminating	Indicates that the product is connected to the cradle (sold separately) with wireless LAN access point mode
		Illuminating	Indicates that the product is connected to the Internet with WiMAX
		Illuminating	Indicates that the device is outside the WiMAX 2+/WiMAX service area
		Illuminating	Indicates that the product is connected to the cradle (sold separately) with wireless LAN access point mode
		Illuminating	Indicates that LAN is connected via USB
③ Firmware update notification		Illuminating	Indicates that the product is connected to the cradle (sold separately) and wired LAN
④ Wireless LAN (Wi-Fi) band		Illuminating	Indicates that the product is connected to the 5 GHz band (outdoor)
		Illuminating	Indicates that the product is connected to the 5 GHz band (indoor)
⑤ Wireless status on LAN side		OFF	Indicates that the product is connected to the 2.4 GHz band
		Blinking	Indicates that the wireless LAN (Wi-Fi) on the LAN side is ON (the number below indicates the connected devices)
		OFF	Indicates that the wireless LAN (Wi-Fi) on the LAN side is OFF
		OFF	Indicates that Bluetooth is ON (the number below indicates the connected devices)
		OFF	Indicates that Bluetooth is OFF
⑥ Battery status		Illuminating	Indicates the remaining battery level on a scale of 6 levels
		Illuminating	Appears under the battery icon while Eco Mode is set
		Illuminating	Appears under the battery icon while Balance Mode is set
		Illuminating	Appears under the battery icon while High Performance Mode is set
		Illuminating	Indicates that the battery is being charged
		Illuminating	Appears under the battery icon and provides an approximate visual indication of the remaining battery level while charging
⑦ Idle state		Illuminating	Indicates the idle state (appears when the POWER button is pressed while charging)
⑧ Messages		Illuminating	Indicates various messages
⑨ Data communication amount		Illuminating	Indicates when the data communication amount is set

## Product Specifications

<b>Main Unit</b>	
(Physical dimensions (W x H x D))	Approx. 110 (W) x 66 (H) x 9.3 (D) mm
Weight	Approx. 95 g (Battery pack attached)
Interface	USB connector (micro B type) x 1 Compliant with Bluetooth 4.0 Wireless Technology
Display	Organic electroluminescence display (monochrome), approx. 1.0 inch
Power supply	AC adapter AC 100 V to 240 V ± 10%, 50/60 Hz
Battery pack	Lithium ion, 3.7 V, 2500 mAh
Waiting state standby time <sup>*)1</sup>	Approx. 35 hours
Idle state (Remote start available): Approx. 400 hours	
Idle state (Remote start not available): Approx. 450 hours	
Continuous communication time <sup>*)2</sup>	High Performance Mode: WiMAX 2+ (4 x 4 MIMO communication): Approx. 440 minutes
(During Wi-Fi connection)	Balance Mode: WiMAX 2+ (2 x 2 MIMO communication): Approx. 490 minutes
	Eco Mode: WiMAX 2+ (2 x 2 MIMO communication): Approx. 600 minutes
Continuous communication time <sup>*)1</sup>	High Performance Mode: WiMAX 2+ (4 x 4 MIMO communication): Approx. 540 minutes
(During Bluetooth connection)	Balance Mode: WiMAX 2+ (4 x 4 MIMO communication): Approx. 630 minutes
	Eco Mode: WiMAX 2+ (2 x 2 MIMO communication): Approx. 720 minutes
Operating temperature range: 5°C to 35°C (with no condensation)	
Operating humidity range: 35% to 85% (with no condensation)	
Charging time	Approx. 180 minutes (using the NAD11PQA AC adapter and the enclosed microUSB cable)

<sup>\*)1</sup>: The continuous standby time and continuous communication time may vary depending on the communication network being used.  
<sup>\*)2</sup>: The continuous communication time when connected to a single wireless LAN (Wi-Fi) device.  
<sup>\*)3</sup>: Use of USB 2.0 or later is recommended as a sufficient transfer rate cannot be achieved with USB 1.1. It should be noted that operation is not guaranteed with all computers that are supported.  
<sup>\*)4</sup>: Switch when the non-communication state continues.

<b>WLAN</b>	
Communication methods	WiMAX 2+, WiMAX
Supported frequencies	WiMAX 2+ / WiMAX 2.5 GHz
<b>LAN</b>	
Communication methods	Wi-Fi (compliant with IEEE802.11ac/n/a/g/b), compliant with Bluetooth 4.0 Wireless Technology
Supported frequencies	Wi-Fi: 2.4 GHz / 5 GHz, Bluetooth: 2.4 GHz
Wi-Fi security methods	WEP (128 bit) WPA2-PSK (AES) WPA / WPA2-PSK (AES) WPA / WPA2-PSK (TKIP / AES)
Maximum number of simultaneous connections	Wi-Fi: 10 devices / USB: 1 device / Bluetooth: 3 devices

<b>microUSB cable</b>	
Length	Approx. 1.0 m
Weight	Approx. 30 g
Interface	USB plug Type A microUSB plug Type B

This product can be used with OSs such as Windows\*, Macintosh, Linux, etc., which support TCP/IP protocol stack (Japanese OS only).  
However, the following OSs are supported under USB connection.  
Windows: 10, Windows 8.1, Windows 8, Windows 7 Japanese version, 32 bit (x86) version and/or 64 bit (x64) version, Japanese version of Windows Vista (SP2 and later) 32 bit (x86) version and Mac OS X v10.5 (Intel), v10.6 (Intel), v10.7 (Intel), v10.8 (Intel), v10.9 (Intel), v11.0 (Intel), v11.1 (Intel).  
The following WWW Browsers are available when performing settings in the Quick Setting Web.  
- Internet Explorer 8.0.9.0/10.0/11.0  
Windows Vista (SP2 and later) supporting:  
- Internet Explorer 7.0.6.0/9.0  
Mac OS X v10.11 supporting:  
- Safari 6.0  
Mac OS X v10.10 supporting:  
- Safari 6.0  
Mac OS X v10.9 supporting:  
- Safari 6.0  
Mac OS X v10.8 supporting:  
- Safari 6.0  
Mac OS X v10.7 supporting:  
- Safari 5.1  
Mac OS X v10.6 supporting:  
- Safari 5.0  
Android (2.3.3/3.0/3.1/2.4/4.0/4.1/4.2/4.3/4.4/5.0/5.1) supporting:  
- Google Chrome  
iOS (5.0.5/10.0/10.1/10.2/10.3/10.4/10.5/10.6/10.7/10.8/10.9/11.0/11.1/11.2/11.3/11.4/11.5/11.6/11.7/11.8/11.9/12.0/12.1/12.2/12.3/12.4/12.5/12.6/12.7/12.8/12.9/13.0/13.1/13.2/13.3/13.4/13.5/13.6/13.7/13.8/13.9/14.0/14.1/14.2/14.3/14.4/14.5/14.6/14.7/14.8/14.9/15.0/15.1/15.2/15.3/15.4/15.5/15.6/15.7/15.8/15.9/16.0/16.1/16.2/16.3/16.4/16.5/16.6/16.7/16.8/16.9/17.0/17.1/17.2/17.3/17.4/17.5/17.6/17.7/17.8/17.9/18.0/18.1/18.2/18.3/18.4/18.5/18.6/18.7/18.8/18.9/19.0/19.1/19.2/19.3/19.4/19.5/19.6/19.7/19.8/19.9/20.0/20.1/20.2/20.3/20.4/20.5/20.6/20.7/20.8/20.9/21.0/21.1/21.2/21.3/21.4/21.5/21.6/21.7/21.8/21.9/22.0/22.1/22.2/22.3/22.4/22.5/22.6/22.7/22.8/22.9/23.0/23.1/23.2/23.3/23.4/23.5/23.6/23.7/23.8/23.9/24.0/24.1/24.2/24.3/24.4/24.5/24.6/24.7/24.8/24.9/25.0/25.1/25.2/25.3/25.4/25.5/25.6/25.7/25.8/25.9/26.0/26.1/26.2/26.3/26.4/26.5/26.6/26.7/26.8/26.9/27.0/27.1/27.2/27.3/27.4/27.5/27.6/27.7/27.8/27.9/28.0/28.1/28.2/28.3/28.4/28.5/28.6/28.7/28.8/28.9/29.0/29.1/29.2/29.3/29.4/29.5/29.6/29.7/29.8/29.9/30.0/30.1/30.2/30.3/30.4/30.5/30.6/30.7/30.8/30.9/31.0/31.1/31.2/31.3/31.4/31.5/31.6/31.7/31.8/31.9/32.0/32.1/32.2/32.3/32.4/32.5/32.6/32.7/32.8/32.9/33.0/33.1/33.2/33.3/33.4/33.5/33.6/33.7/33.8/33.9/34.0/34.1/34.2/34.3/34.4/34.5/34.6/34.7/34.8/34.9/35.0/35.1/35.2/35.3/35.4/35.5/35.6/35.7/35.8/35.9/36.0/36.1/36.2/36.3/36.4/36.5/36.6/36.7/36.8/36.9/37.0/37.1/37.2/37.3/37.4/37.5/37.6/37.7/37.8/37.9/38.0/38.1/38.2/38.3/38.4/38.5/38.6/38.7/38.8/38.9/39.0/39.1/39.2/39.3/39.4/39.5/39.6/39.7/39.8/39.9/40.0/40.1/40.2/40.3/40.4/40.5/40.6/40.7/40.8/40.9/41.0/41.1/41.2/41.3/41.4/41.5/41.6/41.7/41.8/41.9/42.0/42.1/42.2/42.3/42.4/42.5/42.6/42.7/42.8/42.9/43.0/43.1/43.2/43.3/43.4/43.5/43.6/43.7/43.8/43.9/44.0/44.1/44.2/44.3/44.4/44.5/44.6/44.7/44.8/44.9/45.0/45.1/45.2/45.3/45.4/45.5/45.6/45.7/45.8/45.9/46.0/46.1/46.2/46.3/46.4/46.5/46.6/46.7/46.8/46.9/47.0/47.1/47.2/47.3/47.4/47.5/47.6/47.7/47.8/47.9/48.0/48.1/48.2/48.3/48.4/48.5/48.6/48.7/48.8/48.9/49.0/49.1/49.2/49.3/49.4/49.5/49.6/49.7/49.8/49.9/50.0/50.1/50.2/50.3/50.4/50.5/50.6/50.7/50.8/50.9/51.0/51.1/51.2/51.3/51.4/51.5/51.6/51.7/51.8/51.9/52.0/52.1/52.2/52.3/52.4/52.5/52.6/52.7/52.8/52.9/53.0/53.1/53.2/53.3/53.4/53.5/53.6/53.7/53.8/53.9/54.0/54.1/54.2/54.3/54.4/54.5/54.6/54.7/54.8/54.9/55.0/55.1/55.2/55.3/55.4/55.5/55.6/55.7/55.8/55.9/56.0/56.1/56.2/56.3/56.4/56.5/56.6/56.7/56.8/56.9/57.0/57.1/57.2/57.3/57.4/57.5/57.6/57.7/57.8/57.9/58.0/58.1/58.2/58.3/58.4/58.5/58.6/58.7/58.8/58.9/59.0/59.1/59.2/59.3/59.4/59.5/59.6/59.7/59.8/59.9/60.0/60.1/60.2/60.3/60.4/60.5/60.6/60.7/60.8/60.9/61.0/61.1/61.2/61.3/61.4/61.5/61.6/61.7/61.8/61.9/62.0/62.1/62.2/62.3/62.4/62.5/62.6/62.7/62.8/62.9/63.0/63.1/63.2/63.3/63.4/63.5/63.6/63.7/63.8/63.9/64.0/64.1/64.2/64.3/64.4/64.5/64.6/64.7/64.8/64.9/65.0/65.1/65.2/65.3/65.4/65.5/65.6/65.7/65.8/65.9/66.0/66.1/66.2/66.3/66.4/66.5/66.6/66.7/66.8/66.9/67.0/67.1/67.2/67.3/67.4/67.5/67.6/67.7/67.8/67.9/68.0/68.1/68.2/68.3/68.4/68.5/68.6/68.7/68.8/68.9/69.0/69.1/69.2/69.3/69.4/69.5/69.6/69.7/69.8/69.9/70.0/70.1/70.2/70.3/70.4/70.5/70.6/70.7/70.8/70.9/71.0/71.1/71.2/71.3/71.4/71.5/71.6/71.7/71.8/71.9/72.0/72.1/72.2/72.3/72.4/72.5/72.6/72.7/72.8/72.9/73.0/73.1/73.2/73.3/73.4/73.5/73.6/73.7/73.8/73.9/74.0/74.1/74.2/74.3/74.4/74.5/74.6/74.7/74.8/74.9/75.0/75.1/75.2/75.3/75.4/75.5/75.6/75.7/75.8/75.9/76.0/76.1/76.2/76.3/76.4/76.5/76.6/76.7/76.8/76.9/77.0/77.1/77.2/77.3/77.4/77.5/77.6/77.7/77.8/77.9/78.0/78.1/78.2/78.3/78.4/78.5/78.6/78.7/78.8/78.9/79.0/79.1/79.2/79.3/79.4/79.5/79.6/79.7/79.8/79.9/80.0/80.1/80.2/80.3/80.4/80.5/80.6/80.7/80.8/80.9/81.0/81.1/81.2/81.3/81.4/81.5/81.6/81.7/81.8/81.9/82.0/82.1/82.2/82.3/82.4/82.5/82.6/82.7/82.8/82.9/83.0/83.1/83.2/83.3/83.4/83.5/83.6/83.7/83.8/83.9/84.0/84.1/84.2/84.3/84.4/84.5/84.6/84.7/84.8/84.9/85.0/85.1/85.2/85.3/85.4/85.5/85.6/85.7/85.8/85.9/86.0/86.1/86.2/86.3/86.4/86.5/86.6/86.7/86.8/86.9/87.0/87.1/87.2/87.3/87.4/87.5/87.6/87.7/87.8/87.9/88.0/88.1/88.2/88.3/88.4/88.5/88.6/88.7/88.8/88.9/89.0/89.1/89.2/89.3/89.4/89.5/89.6/89.7/89.8/89.9/90.0/90.1/90.2/90.3/90.4/90.5/90.6/90.7/90.8/90.9/91.0/91.1/91.2/91.3/91.4/91.5/91.6/91.7/91.8/91.9/92.0/92.1/92.2/92.3/92.4/92.5/92.6/92.7/92.8/92.9/93.0/93.1/93.2/93.3/93.4/93.5/93.6/93.7/93.8/93.9/94.0/94.1/94.2/94.3/94.4/94.5/94.6/94.7/94.8/94.9/95.0/95.1/95.2/95.3/95.4/95.5/95.6/95.7/95.8/95.9/96.0/96.1/96.2/96.3/96.4/96.5/96.6/96.7/