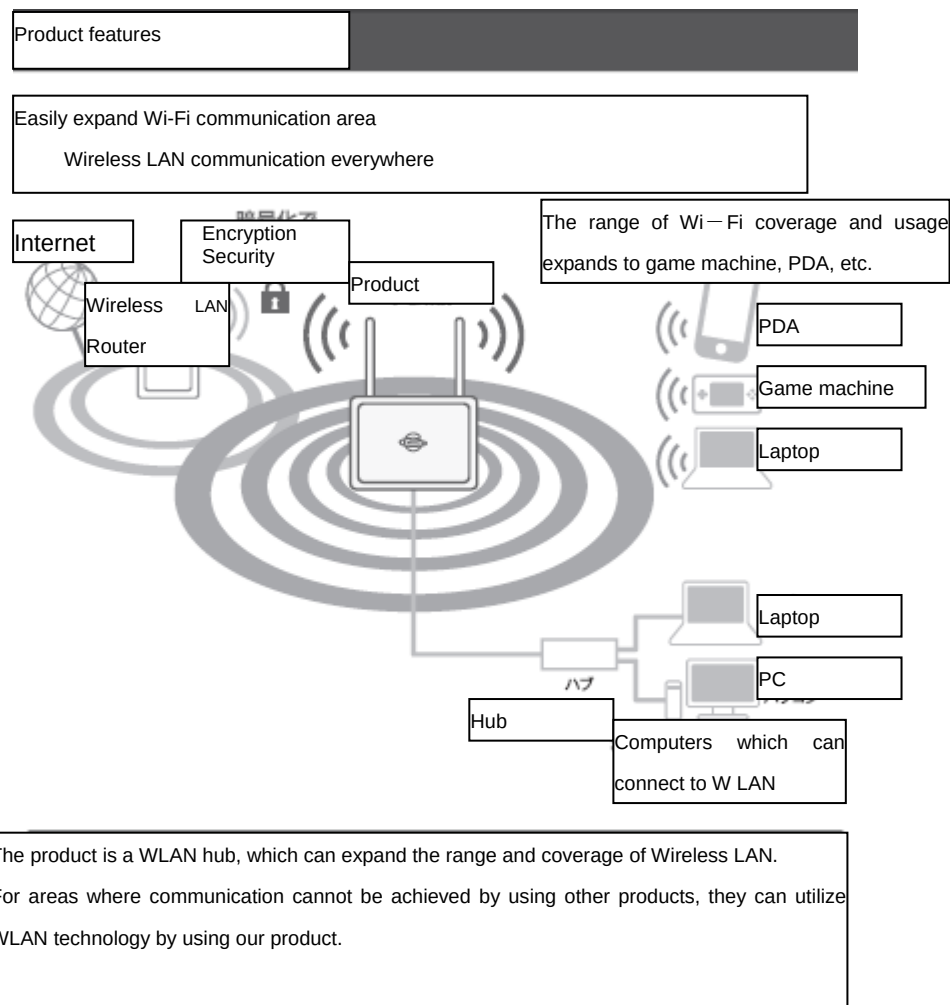


## 300Mbps Wireless LAN Repeater

### Quick Start Guide

Version:MZK-EX300N\_QIG-A\_V1.1

- In order to guarantee the correct usage of our products, this guide gives instructions on how to set and use our products. Please follow the instructions on this guide to set the product. After setting the product successfully, please store this book securely in a safe place that you will remember.
- For other detailed settings that are not included in this guide, please refer to user guide for more information. Please refer to the “User Guide” section located on the backside of this book for information on how to acquire the user guide.
- For technical related inquiries and consultation, please contact the support center listed in the attached document “Must read before use”.



### Installation Steps

#### STEP1 Confirm Internet Connectivity of Wireless LAN router host

※ Make sure whether the router of the Wireless LAN is connected to Internet properly.

#### STEP2 Connect to Wireless LAN Router host

- Router with WPS button

→ If the connecting wireless LAN router equips a WPS button, please refer to step 2-a in “Connect to Router (WPS Button)” section for setup instructions.

- Router without WPS button

→ If the connecting wireless LAN router does not equip a WPS button, please refer to “Connect to Router (Manual Setup)” section for setup instructions.

※ If the setup guideline of “Connect to Router (WPS Button)” does not work, please refer to “Connect to Router (Manual Setup)” section to setup the product.

### Step 3 Placing the Product

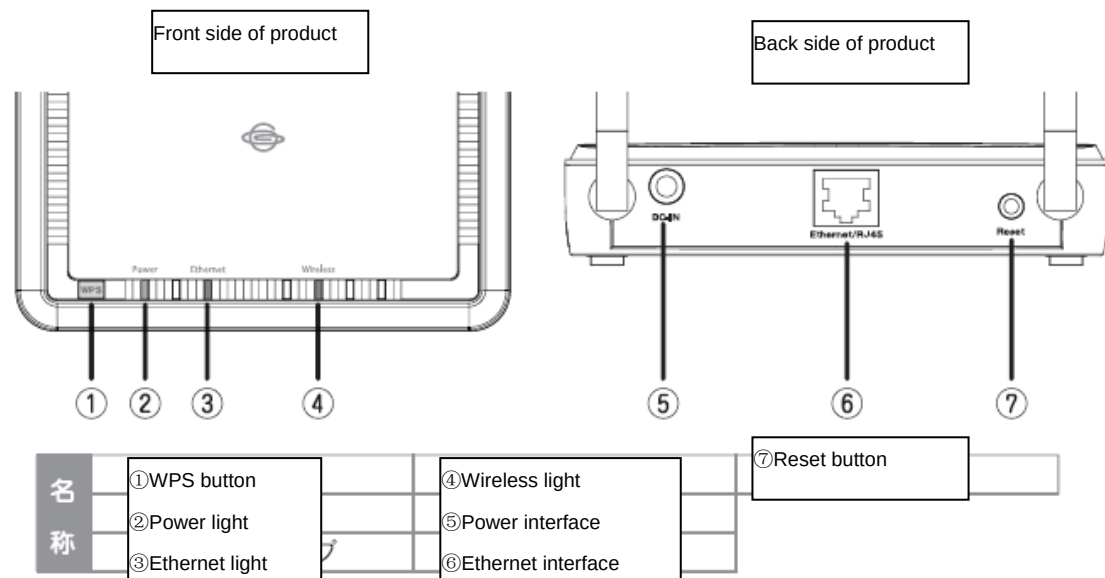
Please place the product in a position where it can communicate with the connecting Wireless LAN router properly.

### Preparation

Please check the following items before advancing:

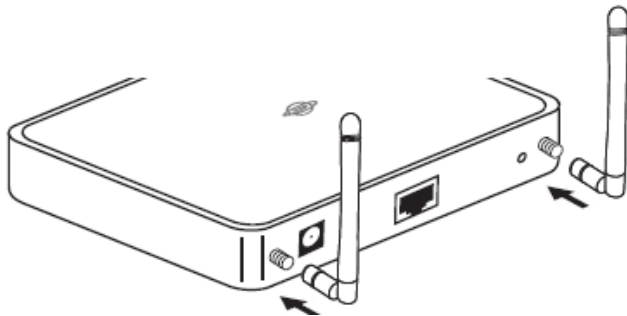
- ☐ Product
- ☐ AC adapter (included in the package) ※Must use the provided AC adapter
- ☐ One LAN cable (included in the package) ※To connect the product with network devices.
- ☐ Two antenna (included in the package)
- ☐ Start Guide (this instruction booklet)
- ☐ Computer
- ☐ Environment which can connect to Internet

### Name of each part



Please confirm the following before proceeding:

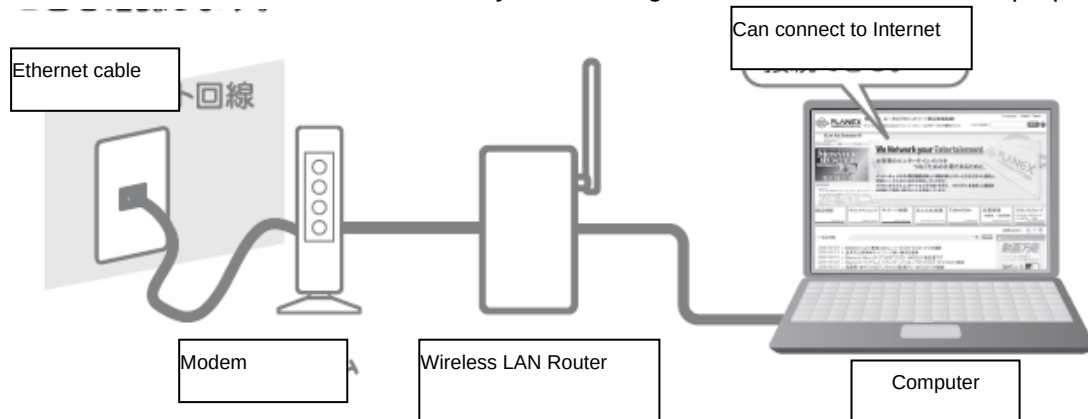
- Please launch Internet service if not launched yet.
- Please connect the two antennas included in the package onto the wireless antenna sockets located on the backside of the product before configuring it.



## STEP1 Confirm Internet Connectivity of Wireless LAN router host

Please make sure the following first

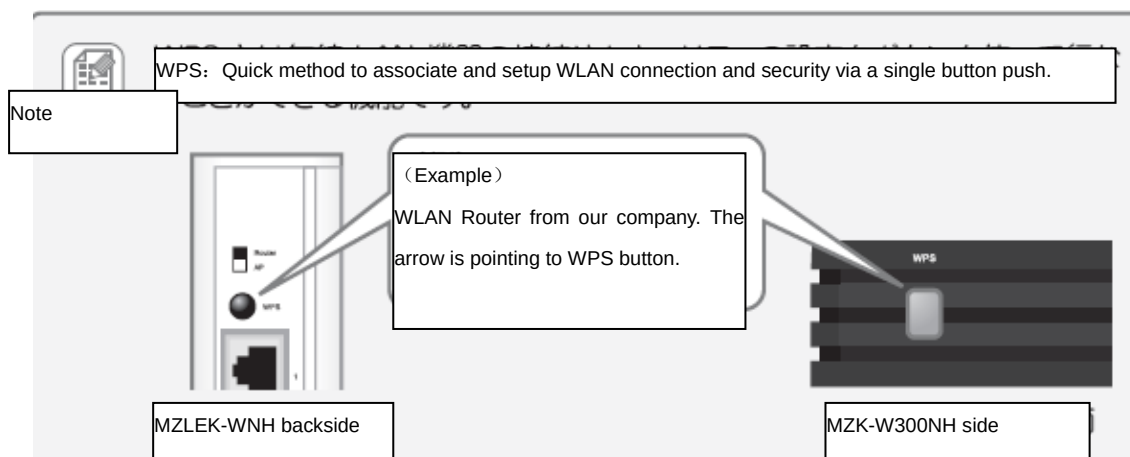
1 Ensure that the Wireless LAN Router you are using is connected to the Internet properly.



! In order to set the following steps, please prepare a Wireless LAN Router. If you do not have one, please acquire one before continuing.

2 Make sure whether or not the Wireless LAN Router (host) supports WPS function.

For more details on the operation of WPS function, please refer to the Wireless LAN router instruction manual.



Router with WPS button

Please follow the procedures in “STEP2-a” → “STEP3” of this instruction booklet.

Router without WPS button

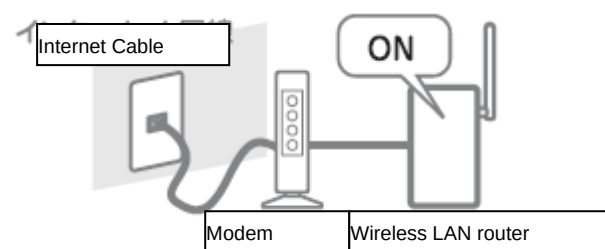
Please follow the procedures in “STEP2-b” → “STEP3” of this instruction booklet.

## STEP 2-a Connect to Router (WPS button)

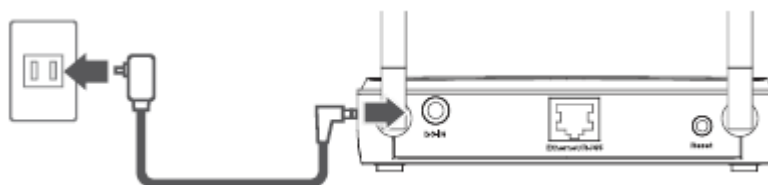
○ This procedure illustrates the steps for using WPS function. If your Wireless LAN router host does not have WPS function, please refer to “Connect to Router (Manual Setup)” section.

By using the WPS button, you can easily configure Wireless LAN security settings. However, using WPS function requires the connecting Wireless LAN router to support the corresponding function.

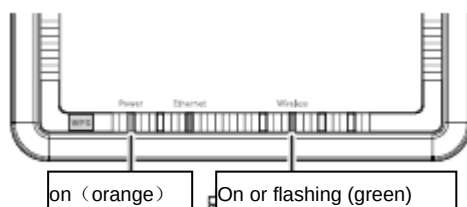
1 Make sure the power of the WLAN router, which needs to connect to the Internet via a modem, is switched on.



2 Connect the AC adapter to the DC Jack located at the backside of the product, and plug the adapter to the power outlet.



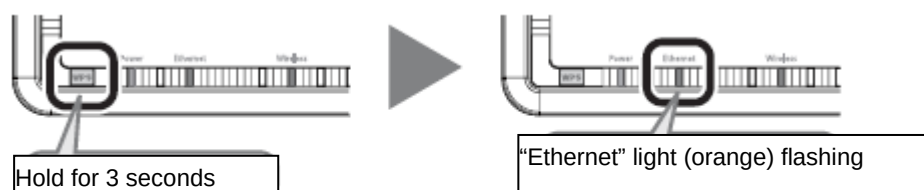
3 Make sure the front panel's “Power” LED light is on, and “Wireless” LED light is on or flashing green.



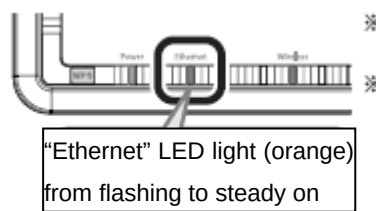
4 Press and hold the WLAN router WPS button for 3 seconds then release it, then Ethernet LED will start to blink rapidly.

5 Within two minutes of pressing MZK-EX300N's WPS button, please press and hold the connecting wireless LAN router host's WPS button for three seconds.

※ For additional details on how to use WPS button for the connecting wireless LAN router host, please refer to its user manual.



6 Make sure the “Ethernet” LED light (orange) switches state from flashing to steady on.



Finish the connection with the wireless LAN router host via the above steps, and proceed to Step 3.

## STEP 2-b Connect to Router (Manual Setup)

- If you cannot establish a connection with the wireless LAN router host in the “Connect to Router (WPS Button)” above, or you would like to set the wireless connection manually, please refer to the steps in this section.
- If the computer you are using to setup the product is already connected a WLAN, please disable the WLAN before proceeding.

### 1. Confirm the Configuration of the Wireless LAN Router Host

Before configuring the product, you need to have the relevant security settings of the WLAN host you are going to establish the connection with. Please refer to the WLAN router’s user manual and record the following contents.

※ The information recorded here will be used in “4 Wireless LAN setting” .

| Name                    | Security information on connection                                                                                                          |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| (1)SSID (connection ID) |                                                                                                                                             |
| (2)authentic type       | <input type="checkbox"/> WEP <input type="checkbox"/> WPA-PSK <input type="checkbox"/> WPA2-PSK                                             |
| (3)authentic method     | <input type="checkbox"/> open <input type="checkbox"/> share ※(1)on “WEP” status                                                            |
| (4)key length           | <input type="checkbox"/> 64-bit <input type="checkbox"/> 128-bit ※(1)on “WEP” status                                                        |
| (5)key format           | <input type="checkbox"/> 16-bit(Hex) <input type="checkbox"/> word sequence (ASCII)                                                         |
| (6)default key          | <input type="checkbox"/> key1 <input type="checkbox"/> key2 <input type="checkbox"/> key3 <input type="checkbox"/> key4 ※(1)on “WEP” status |
| (7)encryption key       |                                                                                                                                             |

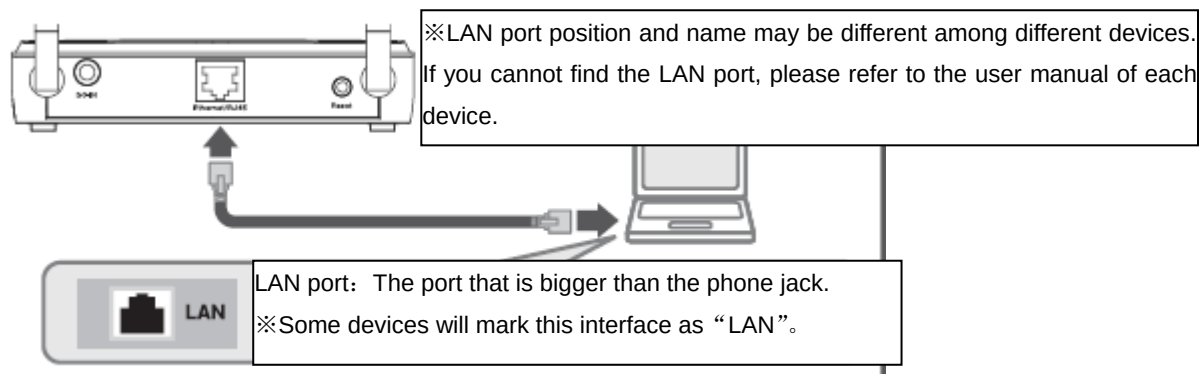
※ Encryption key: For routers using WEP security, please record the value of the “WEP key” , for routers using TKIP/AES security, please record the value of the “pass-phrase” .

※ How to find the relevant security information and settings: Please refer to the user manual of the WLAN router (or WLAN access point) you are using.

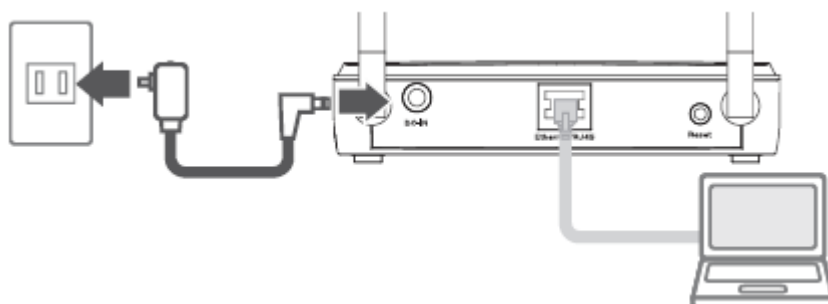
### 2. Accessing the Product via Computer

1 In order to configure the product, you need to change the computer's IP address temporarily.

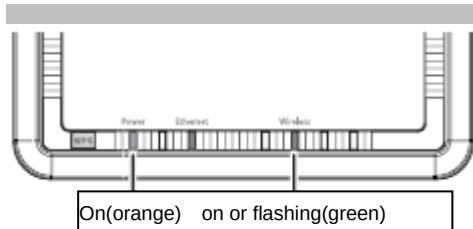
※ To guarantee that the computer can recover back to its original network settings after configuration, please record the current network status before continuing (IP address, Sub-net mask, Default Gateway, DNS server address).



2 Plug the AC adapter included in package into a power outlet and connect it to the product.



3 Check and confirm that the product's front “Power” LED light is on (orange) and “Wireless” LED light is on or flashing (green).



4 Power on the computer.



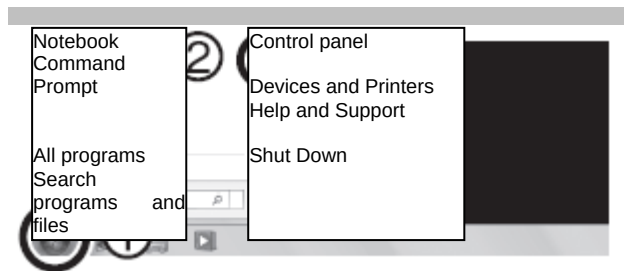
5 Set the computer's IP address to fixed IP “192.168.1.51” .

- Windows 7 ▼Proceed to 2-1
- Windows Vista ▼Proceed to 2-2
- Windows XP ▼Proceed to 2-3
- Mac OS X ▼Proceed to 2-4

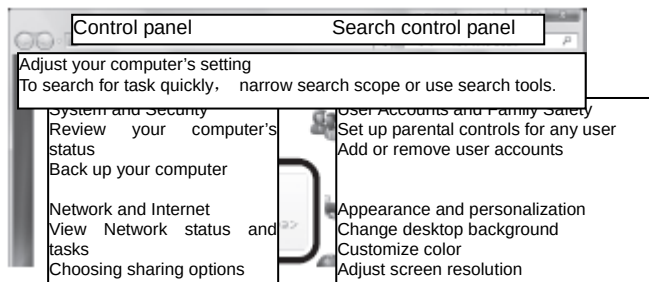
#### 2-1 IP address setting in Windows 7

Here is the introduction on how to set the IP address to “192.168.1.51” in Windows 7.

1 Click “Start” button, and open “Control Panel”.

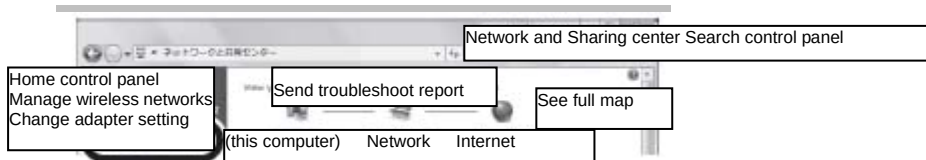


**2 Click “View Network status and tasks” .**



※After displaying all icons, click “Network and Sharing center”.

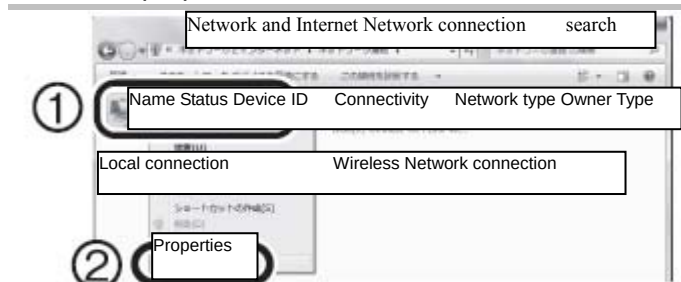
**3 Click “change adapter setting”.**



**4 Open local connection properties**

① Right click “local connection”.

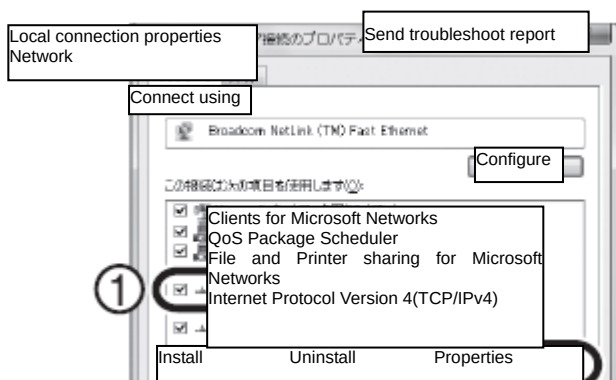
② Select properties.



**5 Open TCP/IPv4 properties.**

① Select “Internet Protocol Version 4 (TCP/IPv4)”.

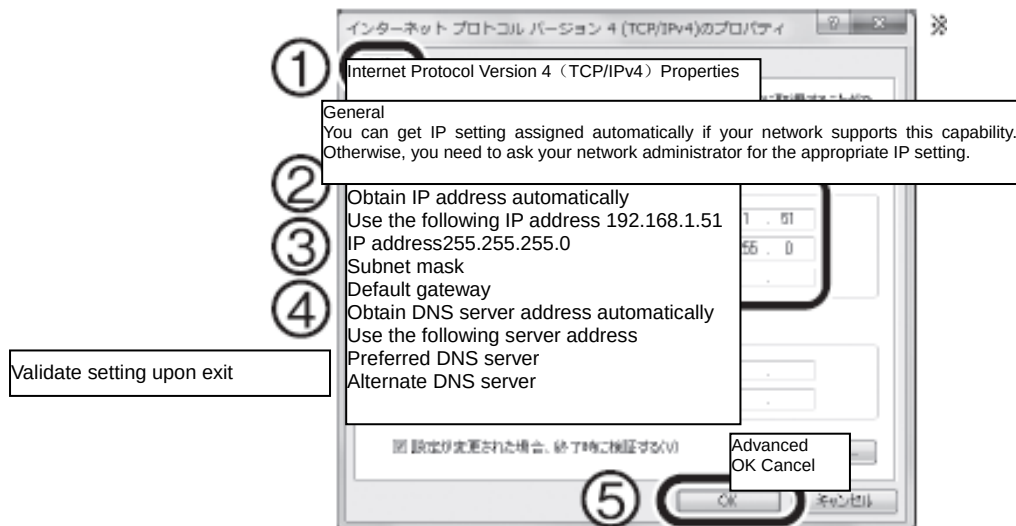
② Click properties



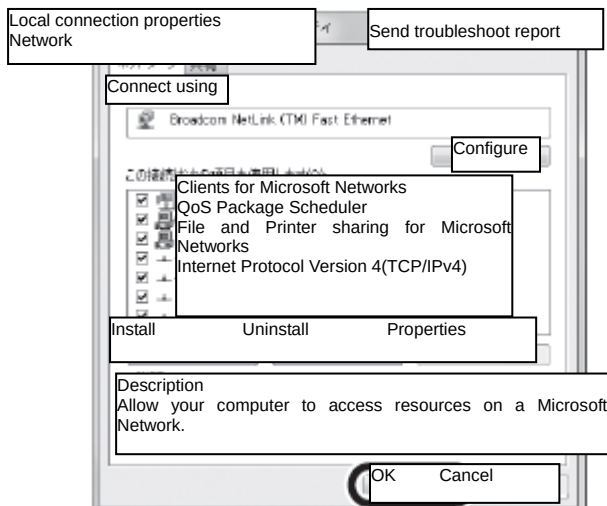
## 6 Setting the IP address “192.168.1.51”.

- ① Click “all” label.
  - ② Select “Use the following IP address”.
  - ③ Enter IP address “192.168.1.51” in the IP address bar.
  - ④ Click subnet mask and it will automatically insert “255.255.255.0”.
- Click “OK” button.

※ Please make sure that you record down the original network settings.



## 7 Click “OK” button to close the page.



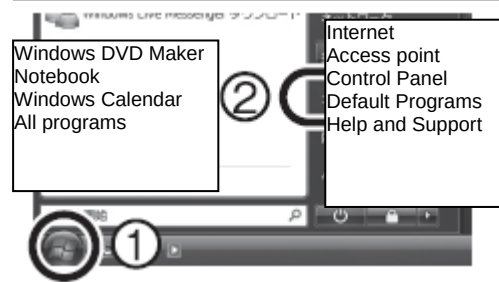
▼ Proceed to “3 Logging into web menu interface” .



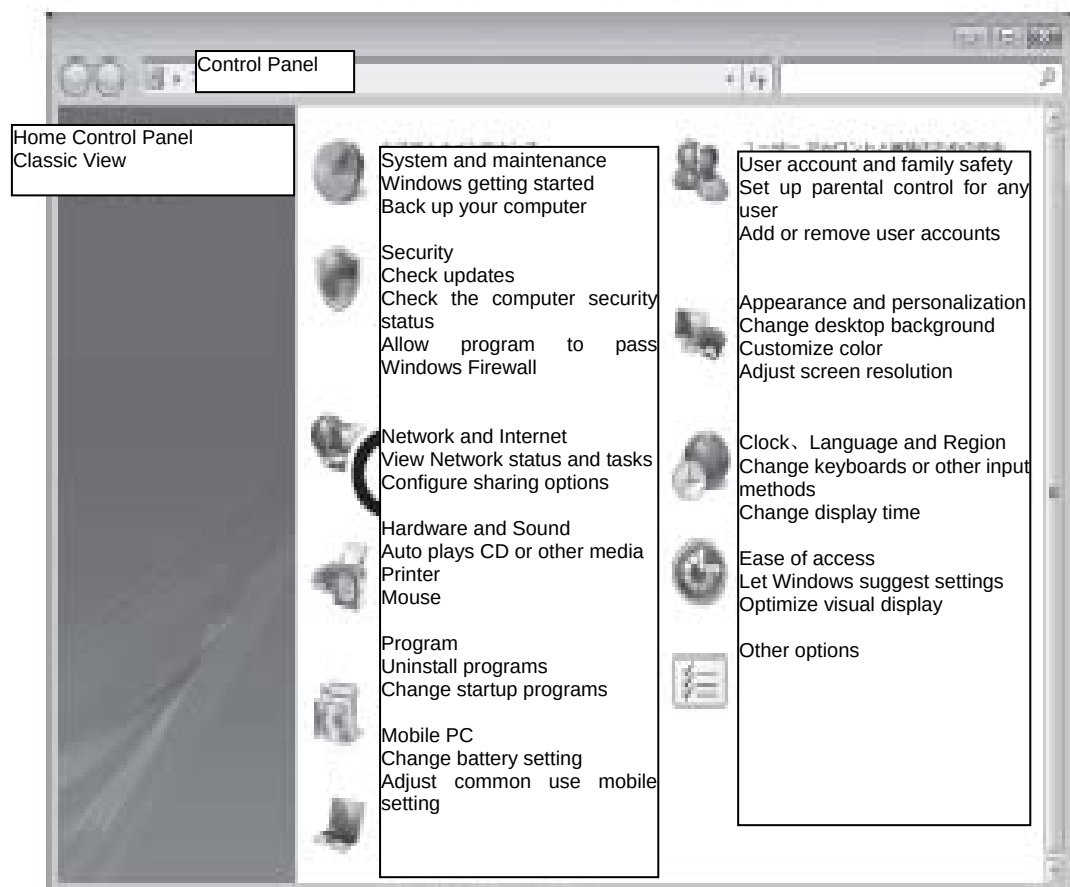
## 2-2 Setting IP Address in Windows Vista

Here are the instructions on how to set the IP address “192.168.1.51” in Windows Vista.

### 1 Click “Start” button, and open “Control Panel”.

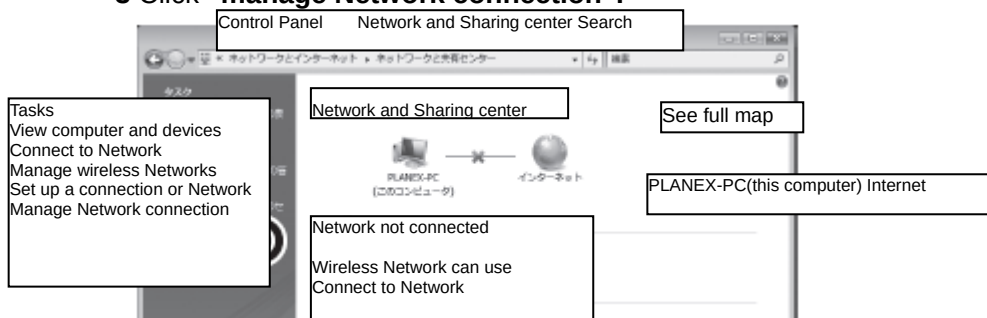


### 2 Click “View Network status and tasks”.



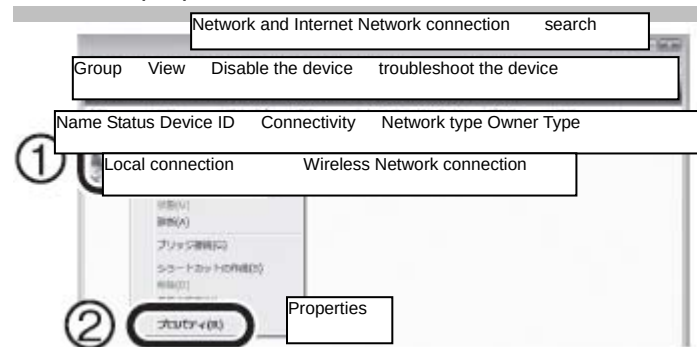
※ After displaying classic menu, double click on “Network and Sharing center”.

### 3 Click “manage Network connection”.



#### 4 Open local connection properties

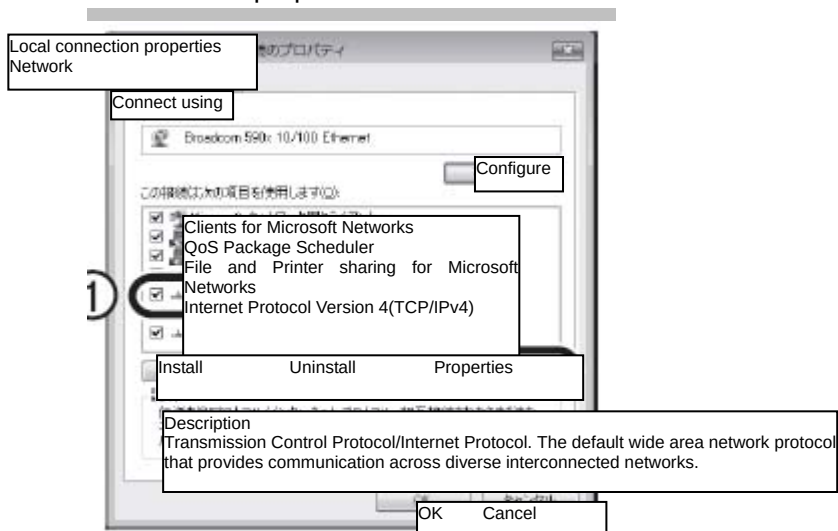
- ① Right click “local connection”.
- ② Select properties.



#### 5 When the pop-up window displaying “manage user account” appears, click “continue”.

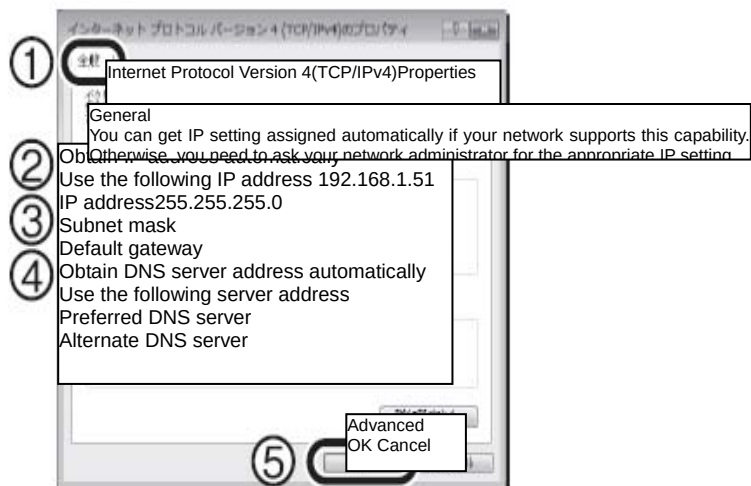
#### 6 Open TCP/IPv4 properties.

- ① Select “Internet Protocol Version 4 (TCP/IPv4)”
- ② Click properties.

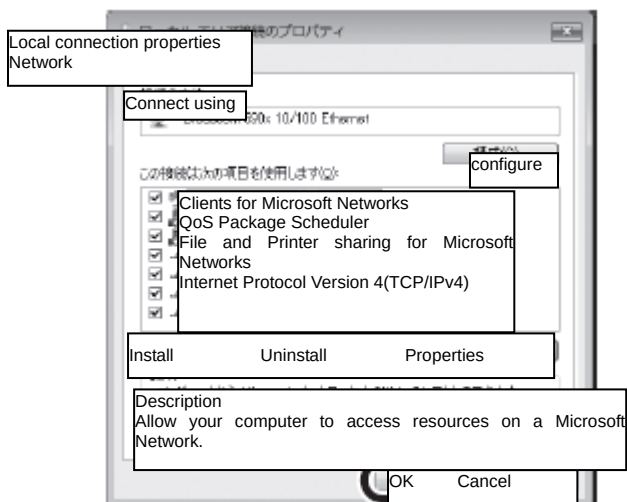


#### 7 Setting the IP address “192.168.1.51”.

- ① Click “all” label.
  - ② Select “Use the following IP address”.
  - ③ Enter IP address “192.168.1.51” in the IP address bar.
  - ④ Click subset mask and it will automatically insert “255.255.255.0”.
- Click“OK”button.
- ※ Please make sure that you record down the original network settings.



**8 Click “OK”button to close the page.**



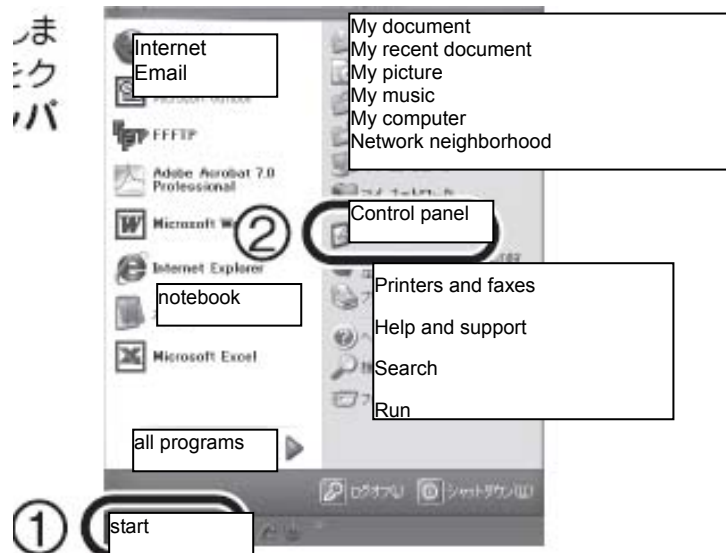
**▼ Proceed to “3 Logging into web menu interface” .**

( “Step 2-b Connect to Router (Manual Setup) continued” )

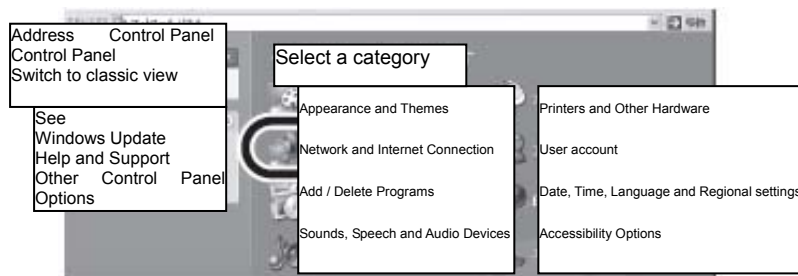
## 2-3 Windows XP IP Address Setting

This section explains how to set the IP address "192.168.1.51" on a Windows XP computer.

**1. Display network connections. Click the "Start" button, and open the "Control Panel"**

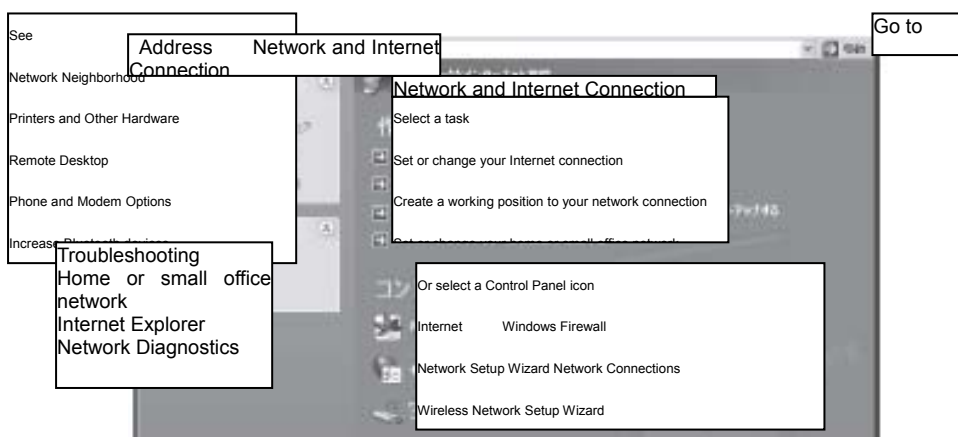


**2 Click “Network and Internet Connection”**



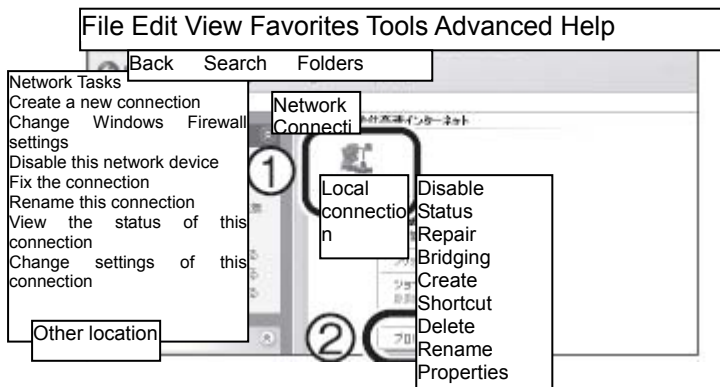
※ If are you viewing the "Control Panel" in category, double-click "Network and Internet Connection", and proceed to 4.

**3 Click "Network Connection"**



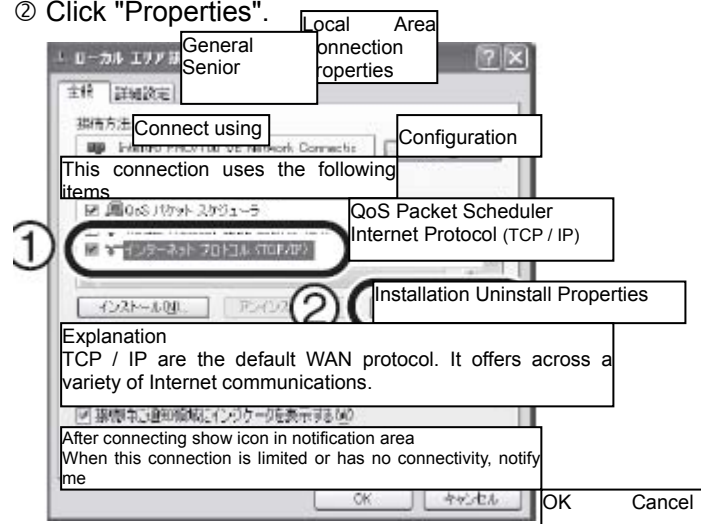
#### 4 Open the Local Area Connection properties.

- ① Right-click "Local Area Connection".
- ② Click "Properties".



#### 5 Open TCP / IP local connection.

- ① Select "Internet (TCP / IP) protocol".
- ② Click "Properties".



#### 6 Setting the IP address to "192.168.1.51".

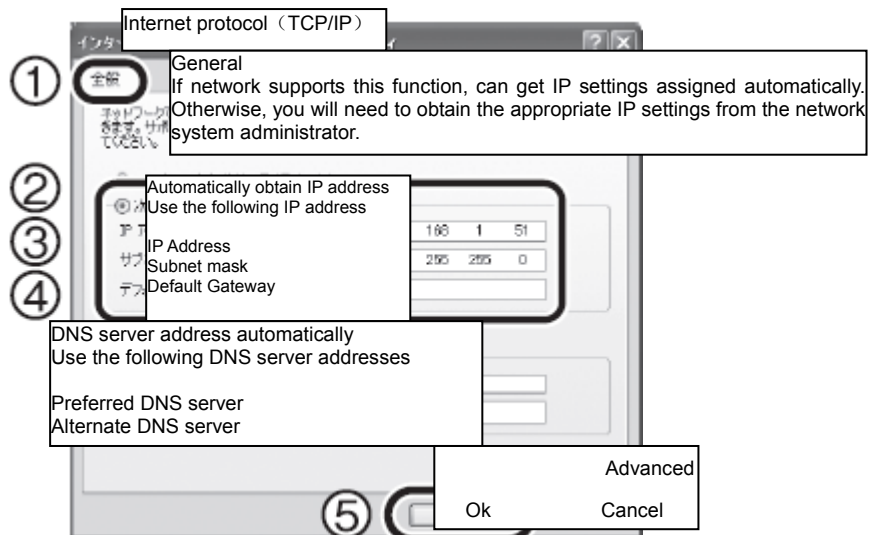
Click the "General" box.

Select "Use the following IP address."

Enter the IP address "192.168.1.51".

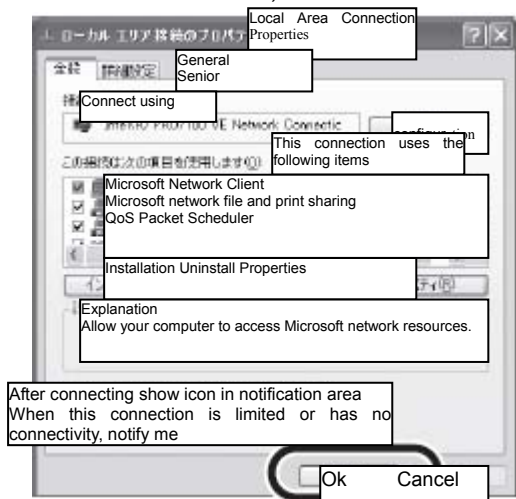
Click the subnet mask, and it will automatically insert "255.255.255.0".

Click "OK".



※ Please make sure that you record down the original network settings.

7 Click "OK" button, and close the dialog box.



▼ Proceed to “3 Logging into web menu interface” .

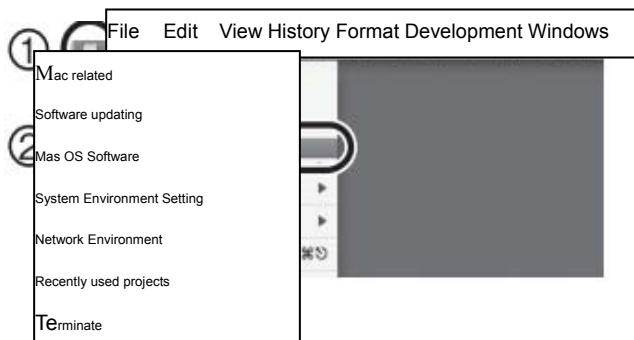
## 2-4 Mac OS X IP Address Setting

This section explains how to set the IP address "192.168.1.51" on a MAC OS X computer.

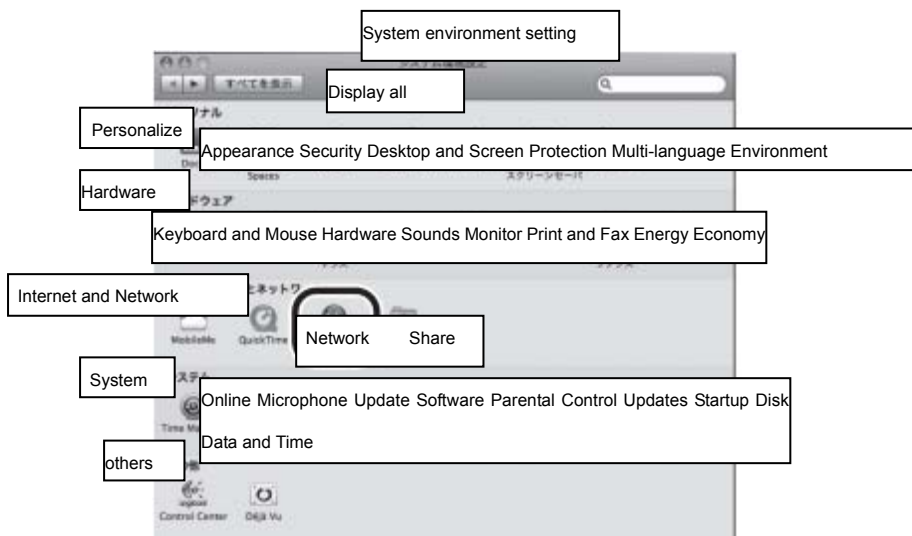
1 Display system environment setting

Display “Mac Menu” .

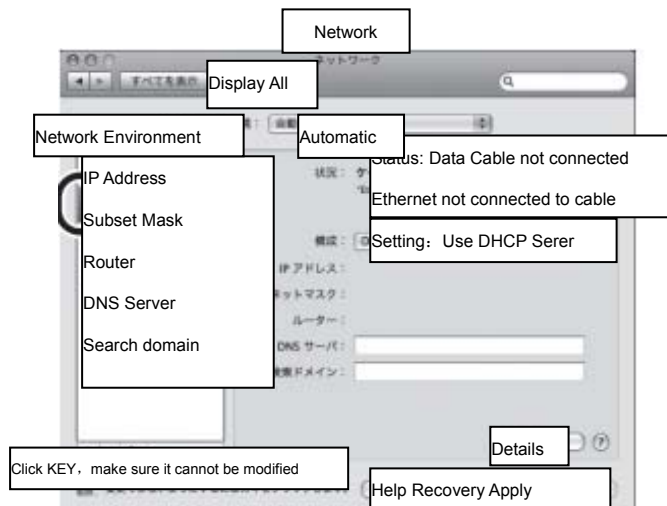
Select “system environment setting” .



2 Left click “Network” icon.



3 Click “Ethernet” in the Service Options to the left side of the screen



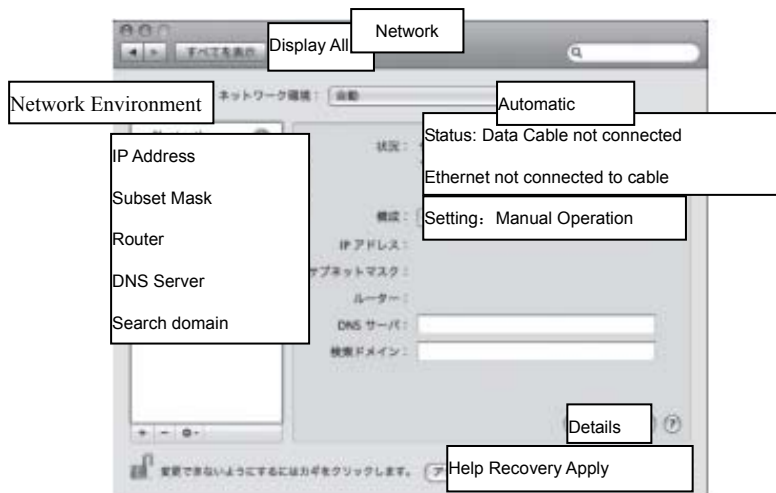
4 Configure “192.168.1.51”

In “setting”, select “Manual Operation”.

Enter “192.168.1.51” in IP Address Bar.

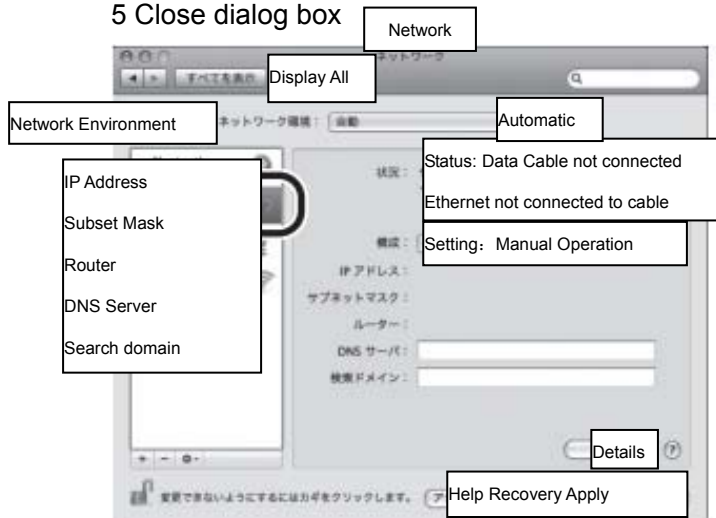
Enter “255.255.255.0” in Subnet Mask Bar.

Click “Apply” .



※Please make sure that you record down the original network settings

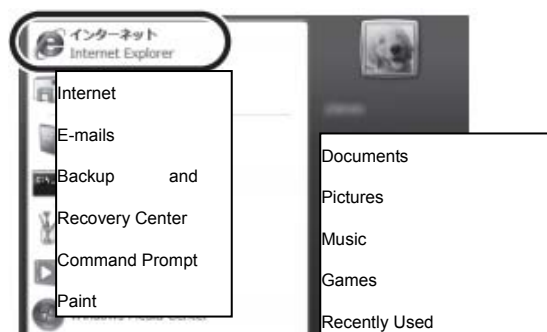
### 5 Close dialog box



▼Proceed to “3 Logging into web menu interface” .

### 3 Logging into web menu interface

1 Open Internet Browser.

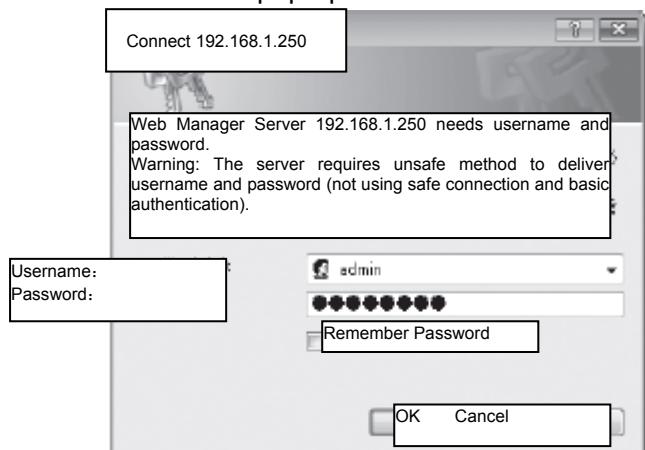


2 Enter “192.168.1.250” in the Address Bar and press “Enter” .





3 When the pop-up window "connect 192.168.1.250" appears, proceed to step 4 below.



4 Enter following contents in the pop-up window above:

Username: Please enter "admin" .

※Mac OS X system will display this field bar as "Name".

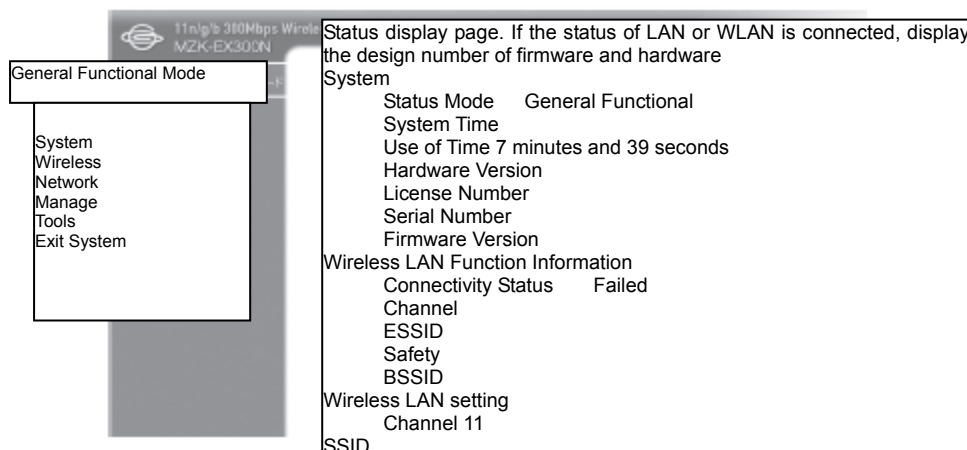
②Password: Please enter "password" .

※Mac OS X system will display this field bar as "Password".

③Click the "OK" button.

。

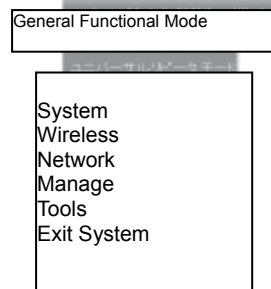
5 Display the main home page of the product's web menu interface.



※ If you cannot log into the product's web menu interface via the IP address 192.168.1.250. Please refer to the "2 Cannot login to the web menu interface" in "Troubleshooting" section located at the bottom of this page.

## 4 Configuring Wireless LAN

1 Click "Wireless" .



Status display page. If the status of LAN or WLAN is connected, display the design number of firmware and hardware

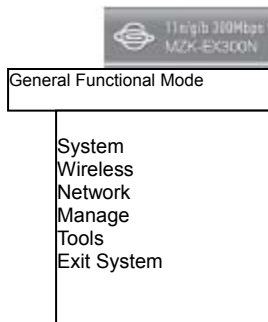
System

- Status Mode General Functional
- System Time
- Use of Time 7 minutes and 39 seconds
- Hardware Version
- License Number
- Serial Number
- Firmware Version

Wireless LAN Function Information

- Connectivity Status Failed
- Channel

2 Click "General Setting" .



Status display page. If the status of LAN or WLAN is connected, display the design number of firmware and hardware

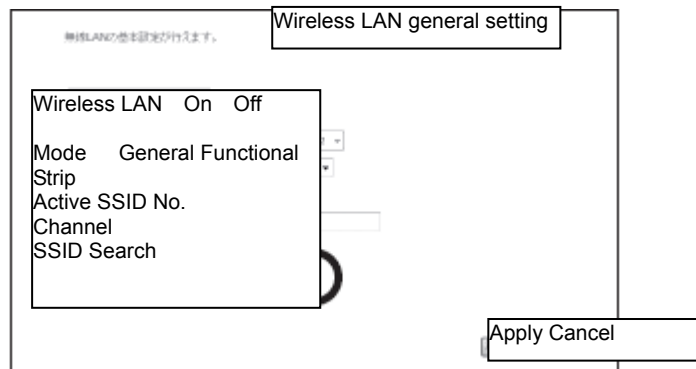
System

- Status Mode General Functional
- System Time
- Use of Time 7 minutes and 39 seconds
- Hardware Version
- License Number
- Serial Number
- Firmware Version

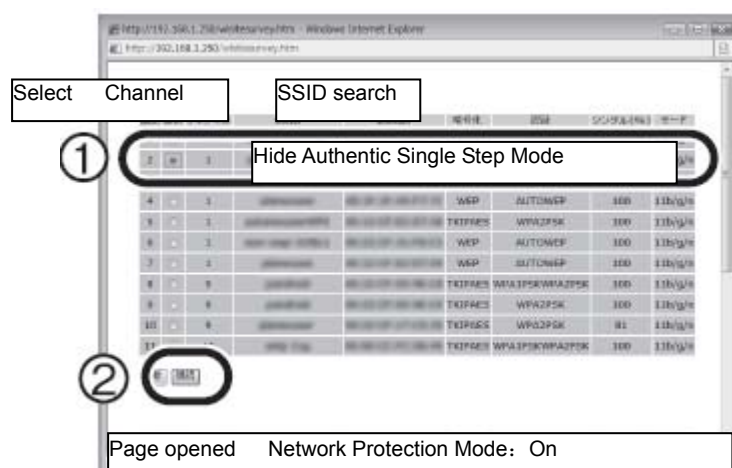
Wireless LAN Function Information

- Connectivity Status Failed

3 Click "SSID Search" .



4 A list of wireless LAN router's SSID will be returned if there are other routers within wireless coverage, select the Wireless LAN router host details recorded previously in 【STEP2-b】 table.



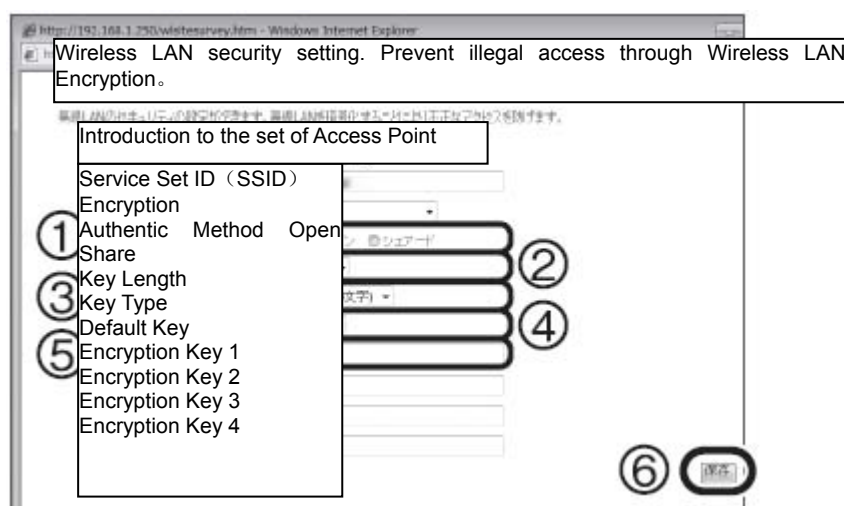
(i) Choose the SSID of the Wireless LAN router host, and click “connect” button.

※If there is no match on SSID, please make sure the power of Wireless LAN router host is working appropriately and all the SSIDs surveyed are correct.

※When the Wireless LAN Channel of the host is set to 12 or 13, please switch between 1 and 11. For more details, please refer to the user manual of the equipment you are using.

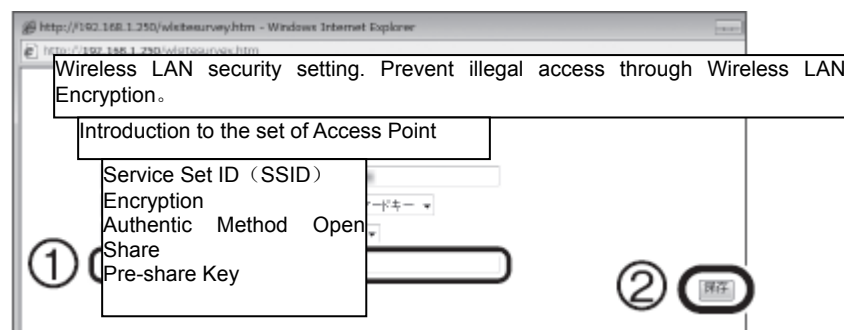
5 When the Wireless LAN security settings window appears, enter the encryption key recorded previously in 【STEP2-b】 table.

- ① Choose the same authentic method as 【STEP2-b】
- ② Choose the same key length as table 【STEP2-b】
- ③ Choose the same key format as table 【STEP2-b】
- ④ Choose the same default key as table 【STEP2-b】
- ⑤ Choose the same encryption key as 【STEP2-b】
- ⑥ Click “Save” .

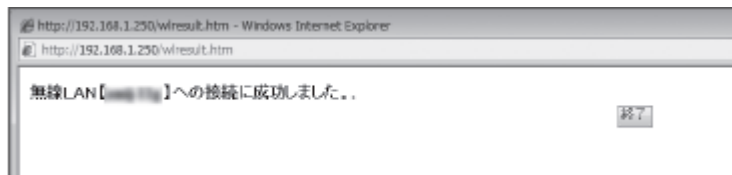


If the Wireless LAN router host uses “WPA-PSK” or “WPA2-PSK” authentication, please enter the following:

- ① Enter the same encryption key (pass-phrase) as the table in 【STEP2-b】 .
- ② Click “Save” .



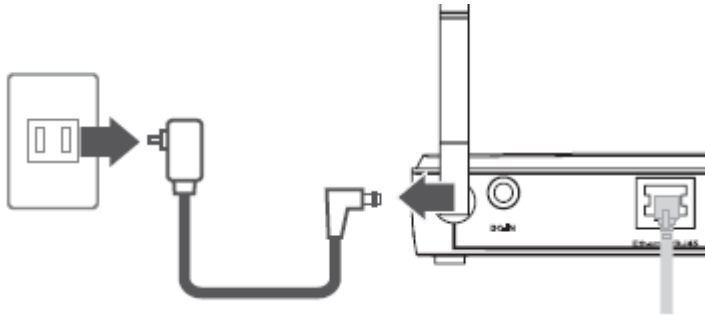
6 If the connection is successful, you will see the text “connected successfully” .



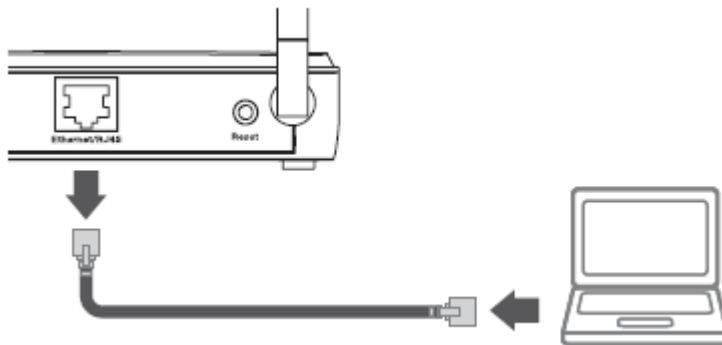
※ If you see the text “connect failed”, you may have entered the wrong information in step 5. Please confirm the security information and try again.

7 Close WEB browser.

8 Remove the AC adapter connected to the product and shut down the power.



9 Remove the LAN cable connected to the product.



10 Product configuration complete.

If you need to recover the network settings of the computer to its original state, please follow the instructions in step **“5 Recover computer network settings to original state”**. If you want to continue the setting of the product, please proceed to **“Step 3 Placing the Product”**.

### **5 Recover Computer Network Settings to Original State”**

Modify the IP Address to its original settings by recovering the settings according to the information recorded previously. If you are not familiar with the setting method, please refer to the following contents below:

#### **5-1 Windows 7**

Please refer to the step **“2-1 IP address setting in Windows 7”** in **“Step 2-b Connect to Router (Manual Setup)”**.

※ When obtaining IP address automatically, in step 6 of **“2-1 IP address setting in Windows 7”**, instead of setting the fixed IP address of “192.168.1.51”, please do the

following:

- ① Click “general” 。
- ② Select “obtain IP address automatically” 。
- ③ Select “obtain DNS server address automatically” 。
- ④ Click “OK” button。

## **5-2 Windows Vista**

Please refer to the step “**2-2 Setting IP Address in Windows Vista**” in

“**Step 2-b Connect to Router (Manual Setup)**”.

※ When obtaining IP address automatically, in step 6 of “**2-2 IP address setting in Windows Vista**”, instead of setting the fixed IP address of “192.168.1.51”, please do the following:

- ① Click “general” 。
- ② Select “obtain IP address automatically” 。
- ③ Select “obtain DNS server address automatically” 。
- ④ Click “OK” button。

## **5-3 Windows XP**

Please refer to the step “**2-3 Setting IP Address in Windows XP**” in

“**Step 2-b Connect to Router (Manual Setup)**”.

※ When obtaining IP address automatically, in step 6 of “**2-3 IP address setting in Windows XP**”, instead of setting the fixed IP address of “192.168.1.51”, please do the following:

- ① Click “general” 。
- ② Select “obtain IP address automatically” 。
- ③ Select “obtain DNS server address automatically” 。
- ④ Click “OK” button。

## **5-4 Mac OS X**

Please refer to the step “**2-4 Setting IP Address in Mac OS X**” in

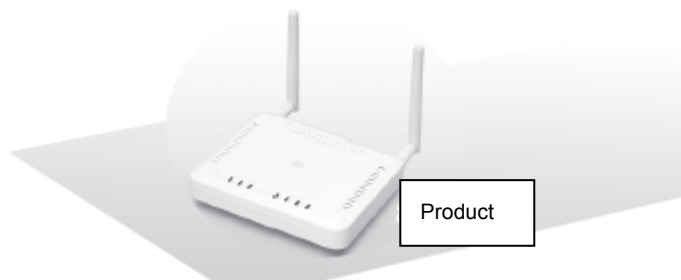
“**Step 2-b Connect to Router (Manual Setup)**”.

※ When obtaining IP address automatically, in step 4 of “**2-3 IP address setting in Windows XP**”, instead of setting the fixed IP address of “192.168.1.51”, please do the following:

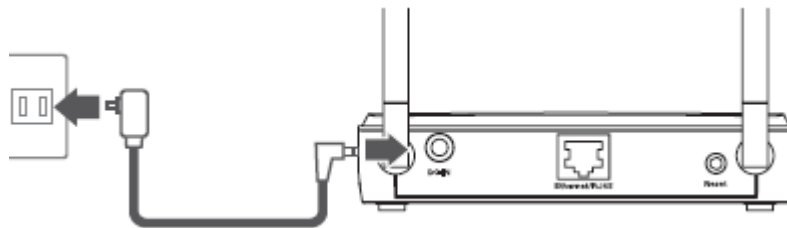
- ① Select “obtain DHCP address automatically” 。
- ② Select “obtain DNS server address automatically” 。

### Step 3 Placing the Product

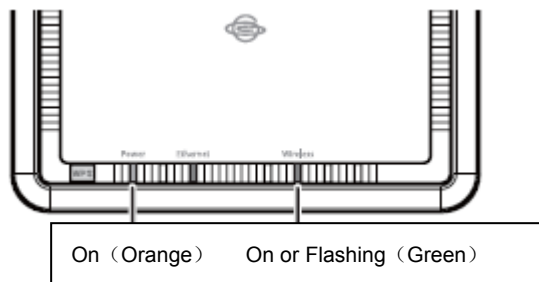
1 Please place the product in an appropriate location where it can communicate with the Wireless LAN router host properly.



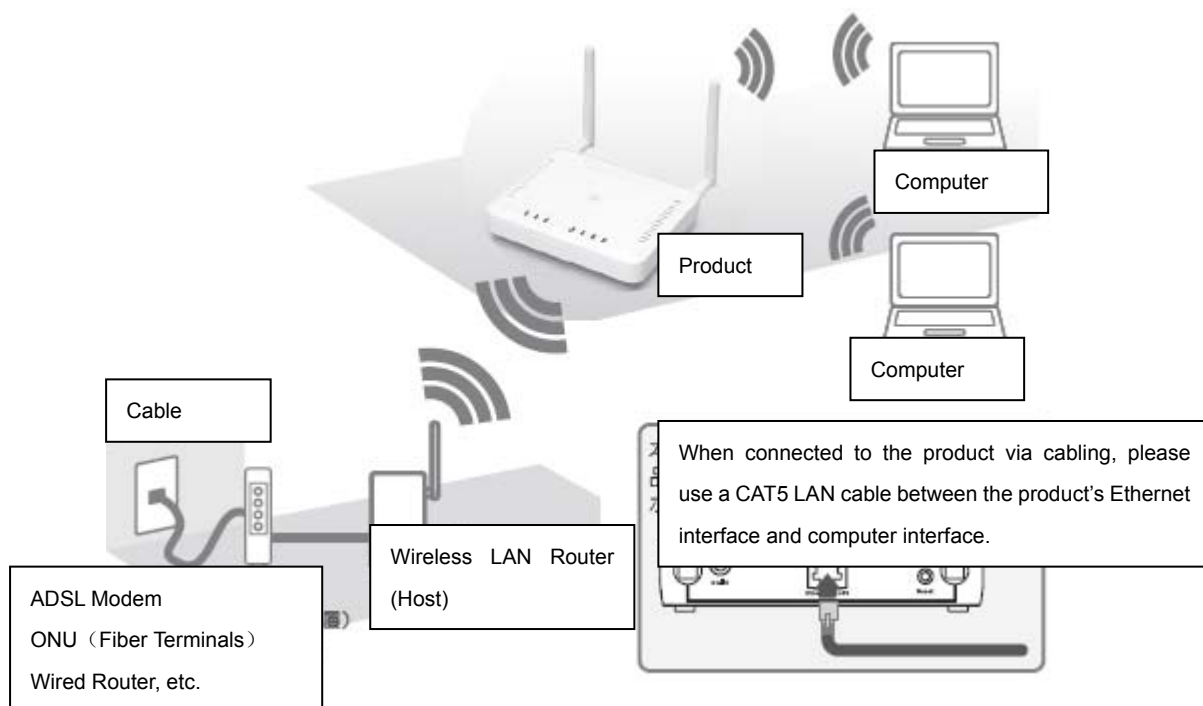
2 Plug the AC adapter included in package into a power outlet and connect it to the product.



3 Check and confirm that the product's front "Power" LED light is on (orange) and "Wireless" LED light is on or flashing (green).



Please check whether the product can connect to the Internet through the Wireless LAN router host or through the designated connection.



## Troubleshooting

If you encounter problems using the product, please check the information below to find a solution:

### 1 No power

When there is no power, please make sure the following:

- Make sure the AC adapter is securely inserted to the power outlet.
- Make sure you are using the AC adapter included with the product.
- You are not using a power extension for the AC adapter
- Switch to another power outlet
- The voltage of the power supply is normal

If you check and verified the conditions above and the problem still persists, there might be something wrong with our product. Please carefully read through the rules "Must read before use" document. According to the rules, you can submit a maintenance request.

※ If you do not agree with the related rules, please pay a visit to the store you bought the product from for item return. Product damage or loss caused by user cannot be returned.

### 【For Product Maintenance and Repair】

You can submit your maintenance request on our company's home page. After applying on our website, the system will automatically e-mail you the details about method and place for maintenance.

### Product repair service (Service and Repair Support)

[http://www.planex.co.jp/i/iss/index\\_iss.shtml](http://www.planex.co.jp/i/iss/index_iss.shtml)

※If you do not receive the automatic email reply, please contact our company's customer support center.

**BK (Joint Stock Company) customer support center**

Technical support phone No.: 0570-064-707 (workday 10: 00~17: 00)

Technical support fax : 03-5766-1615

## **2 Cannot login to the web menu interface**

When you cannot login to the web menu interface, please make sure the following steps are correct.

- When you are using security software such as anti-virus or firewall, please shut down the software temporarily and try to reconnect to the web menu interface.

- IP address of the computer should be "192.168.1. x x x". If you set to obtain IP address automatically in the beginning, please configure the IP to 「192.168.1.51」 and try to reconnect.

- ▼ For detailed setting methods, please refer to "Step 2-b".

- Restore the device back to factory default setting and try to reconnect again.

## **3 Cannot connect to Internet**

When you cannot connect to the Internet, please make sure the following:

- After configuring the device, if it is not connected immediately, please wait for 2 to 3 minutes and try again.

- Shutdown the power of all the machines related to the internet (the product itself, modem and computer), remain powered-off for 60 minutes. When all the machines are power-off for 60 minutes, the memory on ISP is eliminated and recovered to the original connection status. After 60 minutes, power up the machines in the following sequence: modem → product → computer.

- Set the computer to automatically obtain IP address. If the original IP address setting is set manually, please change it to obtain an IP address automatically, and try again.

- ▼ For detailed setting method, please refer to IP address setting of each OS in "Step 2-b".

- On the internet browser's address bar, enter <http://210.197.79.10> and click "Enter", make sure the website is our company's (Planex) official website. If you can connect to "http://210.197.79.10", but unable to connect to 「<http://www.planex.co.jp>」, it is possible that the DNS IP address setting is wrong. Please contact the ISP you are using and consult the correct DNS IP address to use.

## **4 Wireless LAN cannot be connected**

When the connection with the WLAN cannot be established, please make sure the following:

- When there is a distance or obstacle between the product and WLAN router, please remove the obstacle and move to a closer place, and try to connect again.

- Microwave ovens and electromagnetic wave of other communication devices can disturb and interfere with the wireless communication. So the connection of wireless should be moved far away from the microwave ovens and other wireless radio communication devices.

- When WLAN is built-in the computer, please make sure the WLAN is on. For WLAN



router, please make sure the power is on and can be reached normally.

※For information on ensuring that the built-in WLAN is on and whether the WLAN router is working, please refer to the user manual of the corresponding device.

● When the security settings of our product is different from the WLAN router, WLAN will not work. So, please make sure that our security settings are exactly the same as the corresponding WLAN router.

#### **「How to restore the device back to factory default settings」**

When you encounter the following problems below, you can try to restore the device the factory default settings:

● The network settings of the computer is correct, but you are still unable to login to the web menu interface.

● When you forget the new IP address of the device after changing its original IP address.

● When you forget the new username login name and password of the product after changing its original login credentials

**Note: When restoring the device back to default settings, the current configurations for the product will be erased, therefore, please record all the necessary configurations before proceeding**

1) Make sure our product is power-on.

2) Use a fine pin to press the “reset” button on the back side of our product. Press and hold the button for 8 seconds.

3) Wait till the “Power” LED light starts flashing, then release the “Reset” button.

4) Wait until all the lights (except “Power”) are off, and start again to finish the restore factory default settings process.

### **Technical Support Q&A Information**

Problems not covered in this guide can be found in FAQ.

For details, please search for MZK-EX300N

### **Factory Default Setting**

The default factory setting of our product is as follows:

|                        |          |
|------------------------|----------|
| username (register ID) | admin    |
| password               | password |

|            |               |
|------------|---------------|
| IP address | 192.168.1.250 |
|------------|---------------|

### **Package Contents**

Please make sure the package contains the following items:

- |                                               |                                                                 |
|-----------------------------------------------|-----------------------------------------------------------------|
| <input type="checkbox"/> MZK-EX300N (product) | <input type="checkbox"/> LAN cable                              |
| <input type="checkbox"/> Antenna (two)        | <input type="checkbox"/> user guide (the guide you are reading) |
| <input type="checkbox"/> AC cable             | <input type="checkbox"/> Security instructions and Warranty     |

※If there are items missing or damaged in the package contents, please contact the store or company you initially purchased from as soon as possible.

**How to use the user manual**

If you need detailed and advanced settings of our product, please browse to the user manual in the following website.

<http://www.planex.co.jp/support/download/wireless/mzk-ex300n.shtml>

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- Microsoft and Windows are the trademarks of Microsoft Corporation in United States and other countries.
- Macintosh, Mac OS and Apple are trademarks of Apple Computer, Inc. in United States and other countries.
- Other recorded company or product names are trademarks of each company's.
- Notes: Please read the Manual before using our product.

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