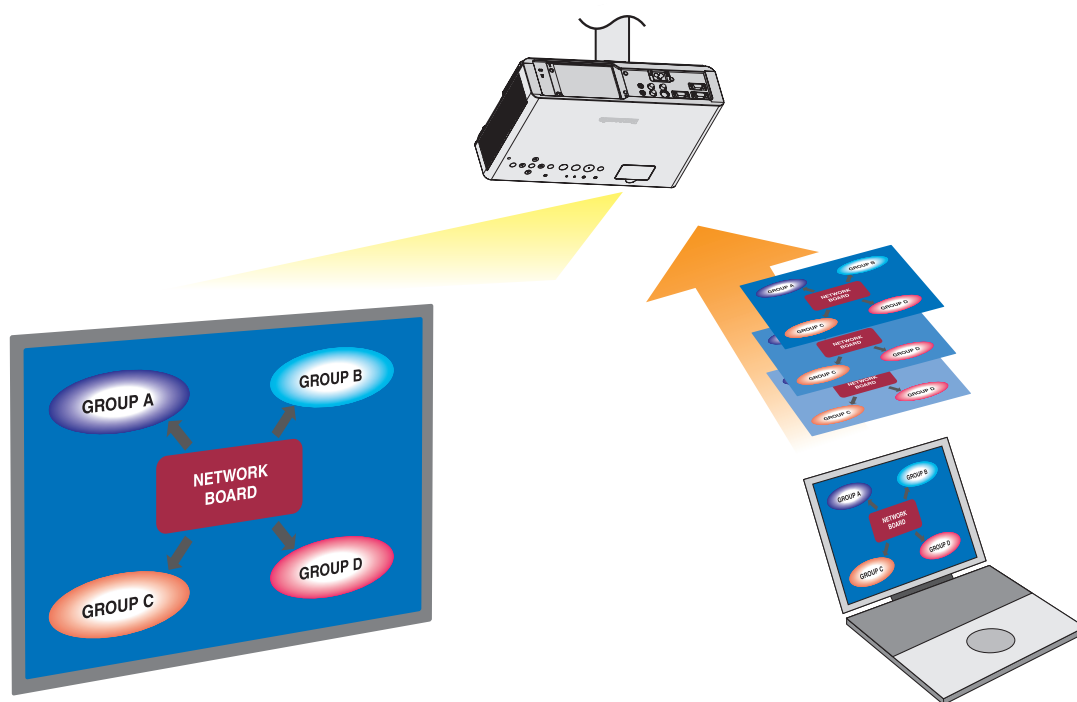


**Macintosh**

**Panasonic®**

## Network Function Edition

(Wireless Manager ME 5.0)



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## ● Article 8 Export Control

Licensee agrees not to export or re-export the Software to any country other than the country of purchase of the projector in any form without the appropriate export licenses under the regulations of the country where Licensee resides or of any other country as may be required by such export or re-export.

Wireless Manager ME 5.0 uses the following software:

Portion of this software are based in part on the work of the Independent JPEG Group

### Please note the following.

- Panasonic cannot be held liable for any direct or indirect damages resulting from the use or malfunction of this projector.
- Panasonic cannot be held liable for damages arising from data corruption or loss as a result of using this projector.

# Notes on Using Wireless Connection

---

Wireless connection function of the projector uses radio waves in the 2.4 GHz band.

A radio station license is not required, but be sure to read and fully understand the following items before use.

## ■ Do not use near other wireless equipment.

The following equipment may use radio waves in the same band as the projector.

When the projector is used near these devices, radio wave interference may make communication impossible, or the communication speed may become slower.

- Microwave ovens, etc.
- Industrial, chemical and medical equipment, etc.
- In-plant radio stations for identifying moving objects such as those used in factory manufacturing lines, etc.
- Designated low-power radio stations

## ■ If at all possible, avoid the use of cellular phones, TV sets or radios near the projector.

Cellular phones, TV sets, radios and similar devices use different radio bands from the projector, so there is no effect on wireless communication or the transmission and reception of these devices. However, radio waves from the projector may produce audio or video noise.

## ■ Wireless communication radio waves cannot penetrate steel reinforcements, metal, concrete, etc.

Communication is possible through walls and floors made from materials such as wood and glass (except glass containing wire mesh), but not through walls and floors made from steel reinforcements, metal, concrete, etc.

## ■ Avoid using the projector in locations prone to static electricity.

If the projector is used in a location prone to static electricity, such as on a carpet, the wireless LAN connection may be lost.

If this happens, eliminate the source of static electricity or electromagnetic noise and reconnect to the wireless LAN.

In rare cases static electricity or electromagnetic noise may make it impossible to establish a connection to the LAN.

If this happens, press the power button on the remote control or on the projector to power off the projector temporarily.

After the cooling fan stops operating (after the power monitor on the projector changes from orange to red), power on the projector and reconnect to the LAN.

## ■ Using the projector outside the country

It is forbidden to take the projector outside the country or region where you purchased it, so use it only in the said country or region. Also, note that depending on countries or regions there are restrictions on the channels and frequencies at which you can use the wireless LAN.



## Notes on Using Wireless Connection (cont.)

---

### ■ Channels that can be used

The channels (frequency range) that can be used differ according to the country or region. Refer to the table below.

Country or region	Standard	Channels used	Frequency band (Center frequency)
Japan	ARIB STD-T66	1 - 13	2,412 MHz - 2,472 MHz
China	SRRC		
England, Germany, France, Spain, Italy, Belgium, Austria, Sweden, Norway, Denmark, Switzerland, Holland, Finland, Portugal, Greece, Thailand, South Korea	ETSI 300.328		
Singapore	IDA		
Australia, New Zealand	C-Tick		
Malaysia	SIRIM		
United States	FCC part 15	1 - 11	2,412 MHz - 2,462 MHz
Taiwan	DGT		

# Request Regarding Security

---

When using this product, the following security issues are foreseen.

- Leakage of your private information via this product
- Illegal operation of this product by a malicious third-party
- Harm to or cessation of operation of this product by a malicious third-party

Please take adequate security measures.

- Make sure the password is as hard to guess as possible.
- Change the password periodically.
- Matsushita Electric Industrial Co., Ltd. and its affiliated companies never directly ask customers for their password.

Do not give out your password even if directly asked by a third-party representing themselves as Matsushita Electric Industrial Co., Ltd.

- Use this product in a network where security is ensured by a firewall, etc.
- Set the password to limit users who can log in.

## Precautions for Security when Using a Wireless LAN Product

With a wireless LAN, information is exchanged between a PC, etc. and a wireless access point using radio waves in lieu of using a LAN cable. The advantage of a wireless connection is that it is possible to freely connect to the LAN as long as you are within the radio transmission range.

On the other hand, because the radio waves can travel through obstacles (such as walls) and are available everywhere within a given range, problems of the type listed below may occur if security-related settings are not made.

- Surreptitious monitoring of transmitted data  
A malicious third-party may intentionally intercept and monitor transmitted data including the content of e-mail and personal information such as your ID, password, and/or credit card numbers.
- Illegal system entry  
A malicious third-party may access your personal or corporate network without authorization and engage in the following type of behavior.
  - Retrieve personal and/or secret information (information leak)
  - Spread false information by impersonating a particular person (spoofing)
  - Overwrite intercepted communications and issue false data (tampering)
  - Spread harmful software such as a computer virus and crash your data and/or system (system crash)

Since most wireless LAN cards and wireless access points are equipped with security features to take care of these problems, you can reduce the possibility of these problems occurring when using this product by making the appropriate security settings for the wireless LAN product.

Some wireless LAN devices may not be set for security immediately after purchase. To decrease the possibility of occurrence of security problems, before using any wireless LAN devices, be absolutely sure to make all security-related settings according to the instructions given in the operation manuals supplied with them. Depending on the specifications of the wireless LAN, a malicious third-party may be able to break security settings by special means.

If you cannot deal with security settings when using this product with a wireless LAN, please contact "Panasonic Projector Support Center."

We recommend that you fully understand the potential problems when using this product with inadequate security and take the necessary measures. Implementation and responsibility for security is at the discretion of the user of this product.

# What you can do with Wireless Manager mobile edition 5.0

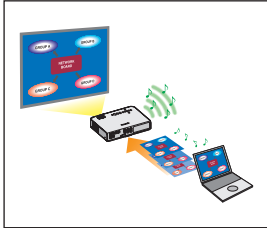
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## ● Network Transmission

You can connect the projector to a computer via the wireless LAN and send still images.  
Refer to page 13 for details on how to connect.

## ● Project with various methods

<Live mode> (See page 28)



Used for normal presentations.

<Multi live mode> (See page 29)

<4-screen multi style> (See page 30)



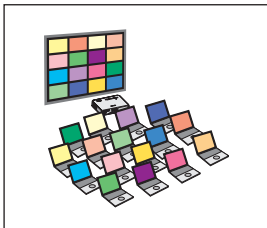
Used for presentations involving multiple computers.

<4-screen index style> (See page 31)



This style is used in cases where you wish to focus attention on one of four presentations displayed simultaneously.

<16-screen index style> (See page 33)

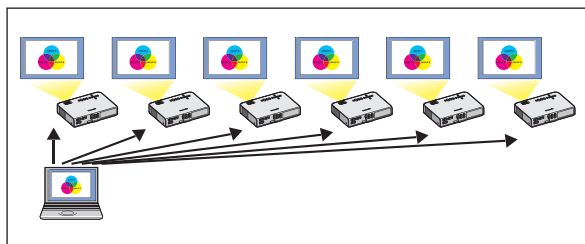


This style is used in cases where you wish to display a large number of presentations as a list.

## What you can do with Wireless Manager mobile edition 5.0 (cont.)

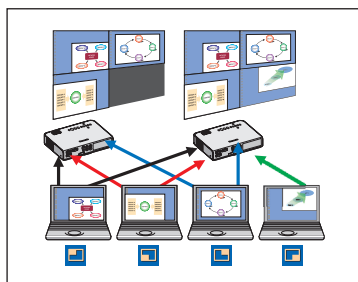
### ● Project with multiple projectors

<Multiple source live mode> (See page 34)



This arrangement can be used when a number of projectors are installed in a large conference room, or when holding simultaneous presentations in several conference rooms, for example.

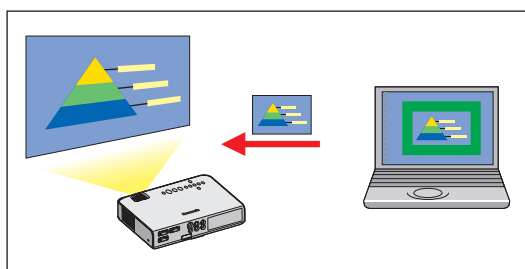
<Multiple source multi live mode> (See page 36)



This arrangement can be used when you wish to simultaneously display multiple presentations using multiple projectors.

### ● Useful functions

<Selective area transmission> (See page 38)



By using the selective area window, you can specify the necessary information alone from the computer screen, and display it on the projection screen.

#### Note

For a list of functions and projectors that can be connected to Wireless Manager ME 5.0, see “Functions used with each projection method” (Page 40).

## What you can do with Wireless Manager mobile edition 5.0 (cont.)

---

### **<WebBrowser control> (See page 51)**

The following operations are possible when using WebBrowser.

- Setting and adjusting the projector
- Displaying the projector status

### **<Virtual remote control function> (See page 27)**

The following operations are possible when using virtual remote control.

- Same operations as the wireless remote control, but from the computer
- Changing the channels
- Turning the power on and off

### **<One-click Connection> (See page 43)**

You can connect to the projector by double-clicking or using drag-and-drop.

### **<Live mode cut-in function> (See page 49)**

During live mode or multi live mode, a different computer can interrupt and project images in live mode.

# Check your computer

---

## Necessary environment for computers to be connected

- First, check your computer to see whether or not it has a built-in wireless LAN\* function.  
※LAN : “Glossary” (See page 58)
- Operation is not guaranteed for all wireless LAN cards and built-in wireless LAN adapters.

# Software Installation

---

## System requirements

The computer must meet the following requirements in order to use the supplied software.

OS:	Mac OS X v10.4 Mac OS X v10.5
CPU:	1 GHz PowerPC G4 or faster, or 1.8 GHz Intel Core processor or faster
RAM:	512 MB or more recommended
Empty hard disk capacity:	60 MB or more
Hardware conditions:	CD or DVD drive (for software installation and viewing the user's manual) IEEE802.11b/g supported internal wireless LAN However, some 802.11b/g wireless LAN may not allow an IEEE802.11g connection to projectors.
WebBrowser:	Safari 2.0 or later

**Operation is not guaranteed for all computers that meet the above conditions.**

## Software Installation (cont.)

---

### Contents on Provided CD-ROM

Set the provided CD-ROM into the CD/DVD-ROM drive.

#### Notes

- Quit all running programs. Otherwise, installation may not be possible.
- [Admin (administrator)] authority is required for installation.

### Wireless Manager ME 5.0

This software is used to send screen images from a computer to the projector via a wireless LAN .

## 1 Set the provided CD-ROM into the CD/DVD-ROM drive of a computer.

## 2 Double-click [WMmac5.0.dmg] in the CD/DVD-ROM drive. [WMMac5.0] appears on the desktop.

#### Note

The user's manual (Index.pdf) is on the CD/DVD-ROM disc.  
Double-click it to view it.

## 3 Double-click [Wireless Manager.pkg].

Installation begins.  
Follow the instructions on the screen and install the software.

#### Notes

- When a window for inputting a [Name] and [Password] appears, input the [Admin (administrator)]'s name and password.
- Install Wireless Manager ME 5.0 in the [Applications] folder (./Applications).



# Connect

## Easy Wireless Set Up

There are 3 different connection methods, “S-MAP” (Projector Signal Map) Connection, “1-4/U” Connection, and “PC Search” Connection.

(When using Easy Wireless Set Up to connect to a conventional model projector, use “1-4/U” Connection (see page 15).)

- [S-MAP] Connection: Search and connect to the projectors set up using [Network Number] [S-MAP] (see page 45).  
The projectors that can be connected to are displayed in order of wireless reception strength (see page 13).
- [1-4/U] Connection: Search and connect to the projectors set up using [Network Number] [1]-[4] or [USER1]-[USER3].  
Projectors that can be connected to are displayed in a list (see page 15).
- [PC Search] Connection: Use the [Computer search] function on the projector to search and connect (see page 18).

## “S-MAP” Connection

Select the projector to connect from the computer.

(The projectors that can be connected to are displayed in a list. Search and select the projector that you want to connect to using easy set up.)

### 1 Click the install target or in the Dock.

<Projector search> window – [S-MAP] is displayed.

#### • When the <Input User Name> window appears

Set the icon and user name, and click [OK].

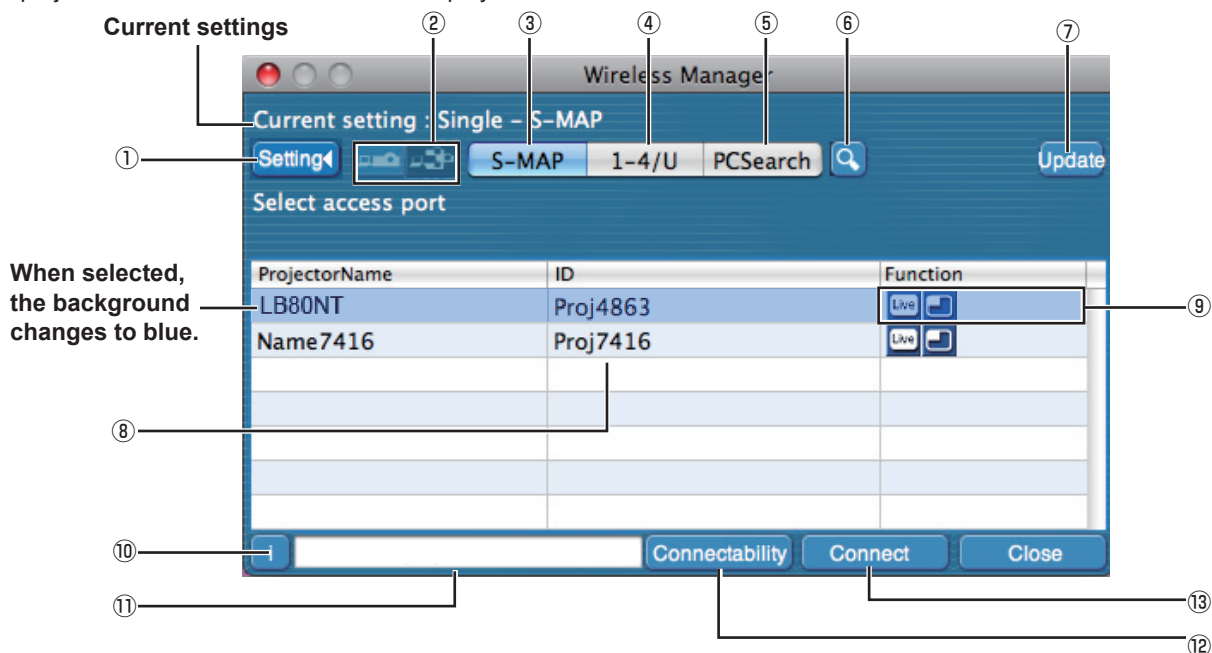
##### Notes

- Enter the user name in up to 8 alphanumeric.
- The icon and user name are set when Wireless Manager ME 5.0 is first launched.
- The icon and user name settings can be changed in the <Option> window. (See page 41)





#### <Projector Search> window – [S-MAP]

The projectors that can be connected are displayed.



① **Setting menu display**  
You can choose to display or hide the ② ~ ⑥ buttons.

② **Access Devices** (See page 36)  
When only one projector is connected, select . When multiple projectors are connected, select .  
※[Multiple Projectors] can be used when [1-4/U] is selected.

③ **S-MAP** (See page 13)  
Display <Projector Search> window – [S-MAP].




④ **1-4/U** (See page 15)  
Display <Projector Search> window – [1-4/U].

⑤ **PC Search** (See page 18)  
Display <PC Search> window.

⑥ **Other search** (See page 23)  
From the projectors that are currently switched on, search for the projector of specified IP address, domain name, and ID from all network numbers except for [U].

⑦ **Update**  
Update the connection status display.

⑧ **ID** (See page 23)  
Display projector's ID.

⑨ **Available modes and functions**  
Unavailable modes/functions among [Live mode ] and [Multi live mode ] are displayed with  overlaid on them.

⑩ **Connection message**  
Blinks when connection is not possible. Click to display information on resolving the issue. (See page 20)

⑪ **Display the projector's name and name given in the favorites.** (See page 43)

⑫ **Connectability**  
The projector name and ID are displayed at top left of the selected projector screen. If the projector name and ID are displayed correctly, the message “Projector is available.” will appear on the computer screen.

⑬ **Connection**  
Connect to the selected projector.

## Connect (cont.)

### 2 Select the desired projectors, and click [Connection].

- If the <Confirmation Dialog> box is displayed

Click [Yes(Y)].



- When the <Network Adapter Selection> window appears

Select the adaptor from the list, and click [OK].

If the <Confirmation Dialog> box is displayed, click [Yes].



#### Notes

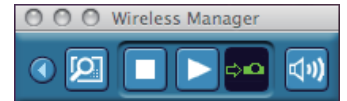
- For details on how to connect, refer to page 22.
- Only the built-in adapter appears on the <Network Adapter Selection> window.
- The following models are compatible with the wired LAN communication that can be used with this Software.  
PT-F100NT, PT-FW100NT, PT-F200NT
- When enabling a network adapter, first exit Wireless Manager and then enable the network adapter.

### 3 Connection completed.

When the connection with the projector is established, the launcher appears. ("Description of the launcher" → See page 26)

#### Note

The launcher is projected on the projector.



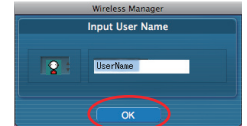
## Connect (cont.)

### “1-4/U” Connection

- 1 Click the install target or  in the Dock.  
<Projector search> window – [S-MAP] is displayed.

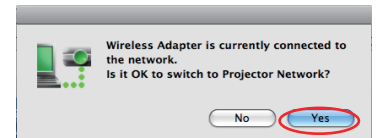
- When the <Input User Name> window appears

Set the icon and user name, and click [OK].

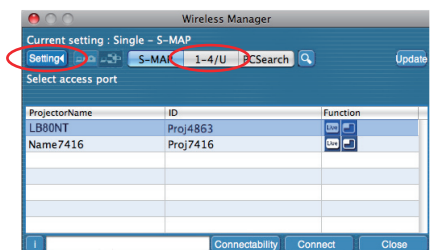


- When the <Confirmation dialog> box appears

Click [Yes].



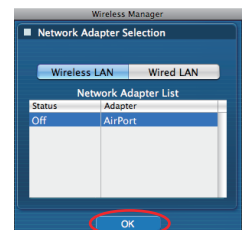
- 2 Click [Setting ►], and click [1-4/U] in the setting menu.



- When the <Network Adapter Selection> window appears

Select the adapter from the list and click [OK].

If the <Confirmation dialog> box appears, click [Yes].

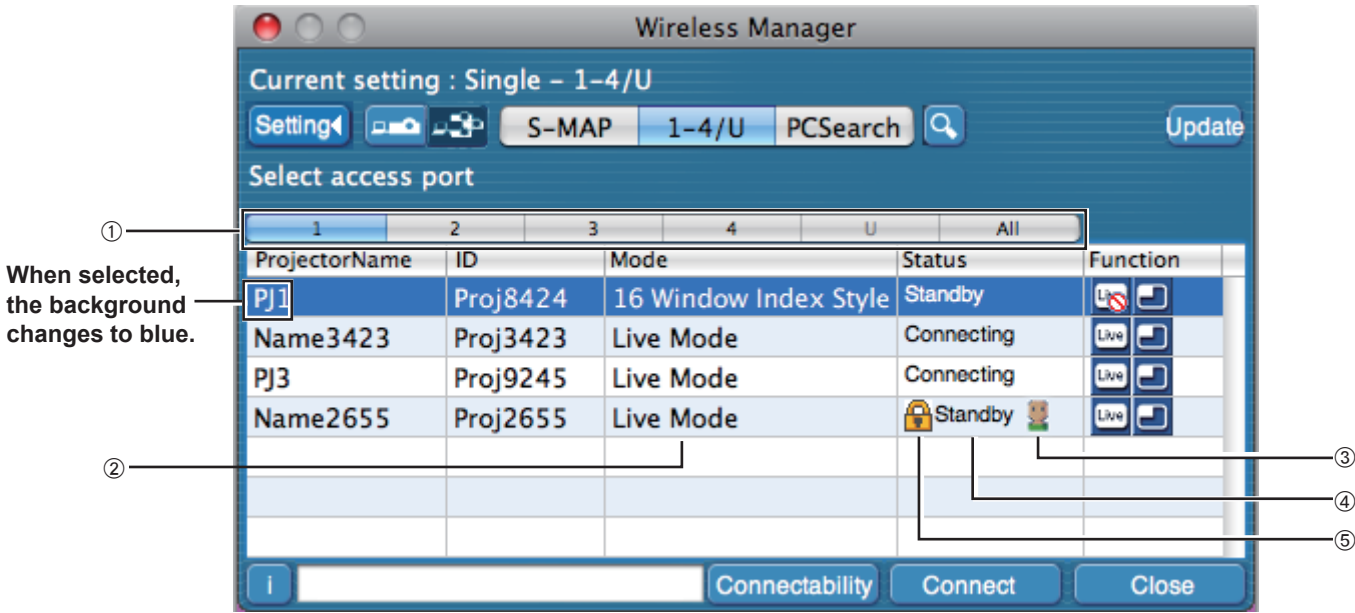


#### Notes

- For details on how to connect, refer to page 22.
- Only the built-in adapter appears on the <Network Adapter Selection> window.
- Enter the user name in up to 8 alphanumerics.
- The icon and user name are set when Wireless Manager ME 5.0 is first launched.
- The icon and user name settings can be changed in the <Option> window. (See page 41)
- The following models are compatible with the wired LAN communication that can be used with this Software.  
PT-F100NT, PT-FW100NT, PT-F200NT
- When enabling a network adapter, first exit Wireless Manager and then enable the network adapter.

# Connect (cont.)

3 A list of projectors that can be connected to are displayed in the <Projector Search> window – [1-4/U].

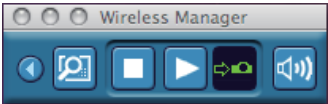


- ① **“Network” number**  
When you specify the network number (See page 45) set on the projector from [1], [2], [3], [4], [U]\*1, and [Display all], all projectors that are presently switched on in the selected network number are displayed in [Projector Name]. The initial value for both the computer and the projector is [S-MAP]\*2.  
\*1 - \*2 (See page 17)
- ② **Mode** (See page 28)  
Display projector’s mode or style.
- ③ **The status of this projector**  
Display the projector’s connection status.
- ④ **The number of people connected to this projector**  
Display the number of people connected to the projector.
- ⑤ **[Lock icon] appears when password entry is needed for connection.** (See page 23)

**Note**  
For details of other button operations, see [S-MAP] Connection (pages 13-14).

4 **Select the same network number (1 - 4) from the [Network] number as is displayed in the ① [NETWORK] menu (See page 45) of the projector you want to connect to.**  
Projectors powered on in the chosen network group are listed.

5 **Select the desired projectors, and click [Connections].**  
The launcher appears and the connection with the projector is established.  
("Description of the launcher" → See page 26)



**Note**  
Launcher is displayed on the projection screen.

## Connect (cont.)

---

### Notes

- Easy Wireless Set Up cannot be made between the projector and the computer. (See page 60)
- Automatic connection setting (See page 43)

#### ※1

- In the following situations, connections other than [U] are not possible.
  - When not installed in the [Applications] folder
- Depending on the computer and wireless LAN card used, Easy Wireless Set Up may not be possible. If this is the case, the [Network] number of <Projector search> window automatically switches to [U]. For details of the connection procedure, first close Wireless Manager ME 5.0, and then refer to pages 21.

#### ※2

- The initial network number for both the projector and Wireless Manager ME 5.0 is [S-MAP]. These numbers must match for the connection. To check the network number, refer to the network menu of the projector.
- When importance is placed on security, select the network number [2] - [4], because WEP (wireless communication encryption)\* is set on these network numbers.
- Important video/audio data is protected because AES\* encryption processing takes place in advance for all network numbers, even if [ENCRYPTION] is set to [NONE].
- Other network adapters may not be usable under Easy Wireless Set Up connections.
- Connections to other networks connected through the wireless LAN card are broken under Easy Wireless Set Up connections.

※ "Glossary" (See page 59)

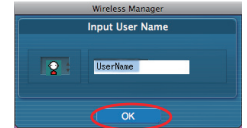
## Connect (cont.)

### “PC Search” Connection

- 1 Click the install target or  in the Dock.  
<Projector search> window – [S-MAP] is displayed.

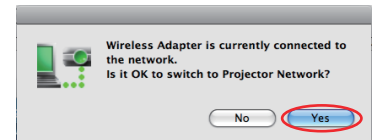
- When the <Input User Name> window appears

Set the icon and user name, and click [OK].

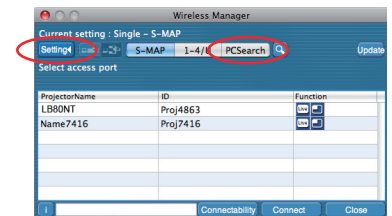


- When the <Confirmation dialog> box appears

Click [Yes].



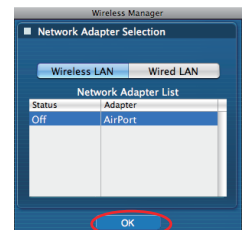
- 2 Click [Setting ►], and click [PC Search] in the setting menu.



- When the <Network Adapter Selection> window appears

Select the adapter from the list and click [OK].

If the <Confirmation dialog> box appears, click [Yes].



#### Notes

- For details on how to connect, refer to page 22.
- Only the built-in adapter appears on the <Network Adapter Selection> window.
- Enter the user name in up to 8 alphanumeric characters.
- The icon and user name are set when Wireless Manager ME 5.0 is first launched.
- The icon and user name settings can be changed in the <Option> window. (See page 43)
- When enabling a network adapter, first exit Wireless Manager and then enable the network adapter.

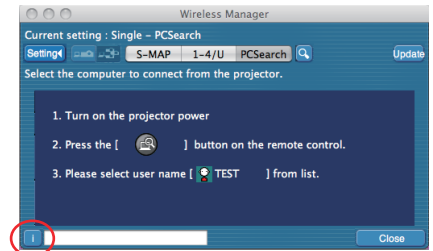
## Connect (cont.)

### 3 Select the projector to connect.

<PC Search> window appears.

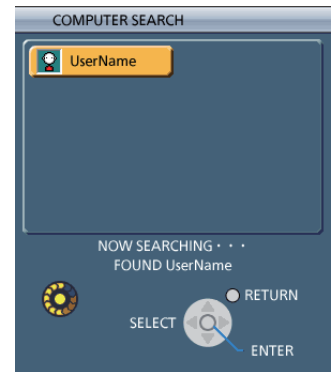
#### Note

Click on [i] in the <PC Search> window, and the models of projector that can perform [PC Search] are displayed.



#### ■ Operations on the projector

- ① Turn on the power to the projector unit.
- ② Press the [COMPUTER SEARCH] button on the remote control.  
The computers that can be connected to the projector are displayed in a list.
- ③ Select from the list displayed on the projector an item with the same icon/ user name as is displayed on the computer.

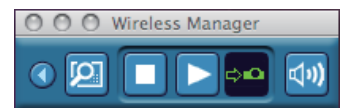


### 4 Connection completed.

When the connection with the projector is established, the launcher appears.  
("Description of the launcher" → See page 26)

#### Note

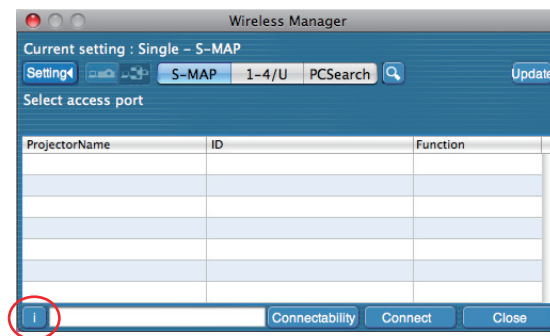
The launcher is projected on the projector.



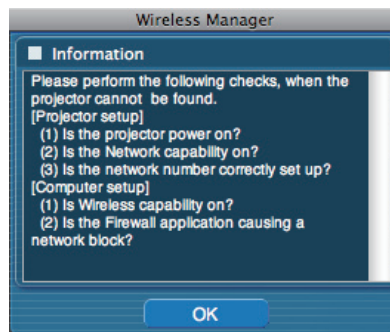
## Connect (cont.)

### Connection error messages

When wireless LAN connection cannot be established, the projector is not displayed.



Click the  button at this time to display information on resolving the issue as shown below.





## Connect (cont.)

### Connecting through the access point

You can make the setting for infrastructure mode\* (connection through the access point\*); however, confirm to your system administrator on network settings before changing any settings.

※“Glossary” (See pages 58 - 59)

#### ① Projector settings

- 1** Turn on the projector and press the [NETWORK] button on the remote control.
- 2** Select [NETWORK] from [USER 1] - [USER 3] at the wireless menu and press the [ENTER] button.
- 3** Set the details of network and select [OK].  
As for network setting items, see pages 45 - 47.  
Confirm to your system administrator on network settings before changing any settings.

#### Note

The projector's MAC address\* can be checked with [STATUS] in the wireless menu of the projector unit.  
("Verifying settings" → see page 50) ※“Glossary” (See page 58)

#### ② Computer settings

- 4** Turn on the computer.
- 5** Make the network setting according to your system administrator.

#### Note

When the user does not have the [Admin (administrator)] authority, the [Admin (administrator)]'s name and password are required to make network settings.

- 6** Connect to your access point.

- 7** Start Wireless Manager ME 5.0.

A confirmation message appears asking whether to switch the projector to the network or not. Select [No].



- 8** Select the desired projector in the <Projector Search> window and click [OK].

The launcher appears and the connection with the projector is established.  
("Description of the launcher" → See page 26)

#### Note

If the connected projector is not displayed in the <Projector Search> window, click [🔍]. (See page 23)

#### Note

If you are unable to connect to the wireless LAN through the access point even after performing the steps in “① Projector settings,” contact the manufacturer of the access point.

# Selecting the connection method

---

## Note

The following models are compatible with the wired LAN communication that can be used with this Software.

PT-F100NT, PT-FW100NT, PT-F200NT

- When enabling a network adapter, first exit Wireless Manager and then enable the network adapter.

When the <Network Adapter Selection> window appears, select [Wireless LAN] and click [OK].  
Connects to the wireless LAN.



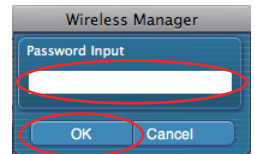
# Other operations for connection

## Operations when password entry is required for connection

A  mark is displayed for projectors that have passwords set.

When connecting, the window shown to the right appears. Enter the password and click [OK].

(See page 48)



### Notes

- Click [CANCEL] at the password entry window to return to <Projector Search> (See page 13).
- When an incorrect password is entered, an error message appears.  
Click [OK] to return to the password entry window and enter the correct password again.

## Other search

Apart from “Easy Wireless Set Up” (See page 14), there are 3 other ways to search for and connect to a projector, namely “IP address Search”, “Domain Name Search”, and “ID Search”.

These methods can be used if you cannot search using “Easy Wireless Set Up”.

- **IP address Search**  
Search for and connect to a projector from the IP address\*.  
The projector that you want to connect to must have a network number of [USER1]-[USER3] and must have the IP address set. (See page 45)
- **Domain Name Search**  
Search for and connect to a projector from the domain name\*.  
The projector that you want to connect to must have a network number of [USER1]-[USER3] and must have the IP address set. (See page 45)  
※ “Glossary” (See page 58)
- **ID Search**  
Even if there are two or more projectors with the same name, an ID ([Proj] + 4-digit number) is assigned to each projector to enable the projectors to be identified.  
A search for the projector of the specified ID is carried out from among the projectors that are presently switched on, from all network numbers other than [USER1]-[USER3].  
It is necessary to know ID in advance. When input selection is switched to [NETWORK] on a projector, the ID appears on the upper right of the projection screen for approximately 5 seconds.  
If you write down the ID displayed in the [ID] column of the <Projector search> window in advance, you can search a projector by the ID from next time.

**1** Click  at the <Projector search> window.  
<Other search> window appears.

**2** Enter the information of the projector you want to search for, and select the search criteria.

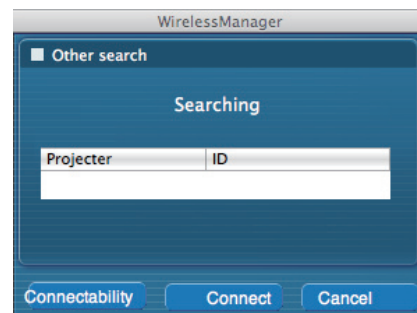
- When using “IP address Search”
  - ① Enter the IP address (including its periods).  
Example: 192.168.10.100
  - ② Select [IP Address Search]
- When using “Domain Name Search”
  - ① Enter the domain name.
  - ② Select [Domain Name Search].
- When using “ID Search”
  - ① Enter the ID.
  - ② Select [ID Search].



## Other operations for connection (cont.)

### 3 Click [Search].

When <Other search> window – [Searching] is displayed, the search starts.

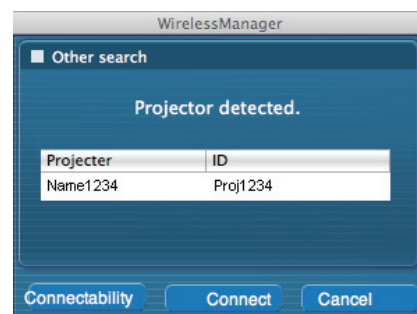


### 4 Check the search results.

When the projector of the applicable ID is found, the [Projector Name] and [ID] appear.

#### Note

If a projector of the applicable ID is not found, [Could not find a connection point] appear.



### 5 Click [Connections].

When the connection with the projector is established, the launcher is displayed.

("Description of the launcher" → See page 26)

#### Note

The launcher is projected by the projector.

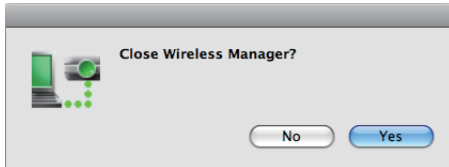


## Other operations for connection (cont.)

### Canceling the connection

#### 1 Click [Exit] in the launcher menu.

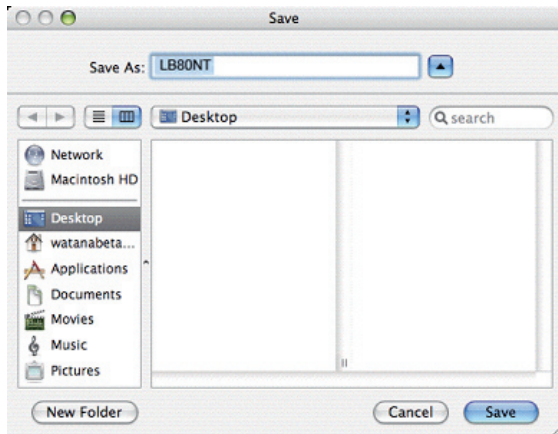
The following window appears.



#### ■ When connecting the projector for the first time


The "Preservation of a Profile" window appears.  
Create a profile with information about connected projectors.  
You can use the created profile to connect automatically.  
This function is called "One-click Connection".

Set the save destination and file name, and click [OK].  
If you do not need to create a profile, click [Close].



#### When connecting automatically using "One-click Connection"

Perform step ① or ②.

- ① Double-click the profile.  
(This function cannot be used when using without installation.)
- ② Drag and drop the profile to the  on the desktop.  
The computer connect to the projector that was connected when the profile was created.

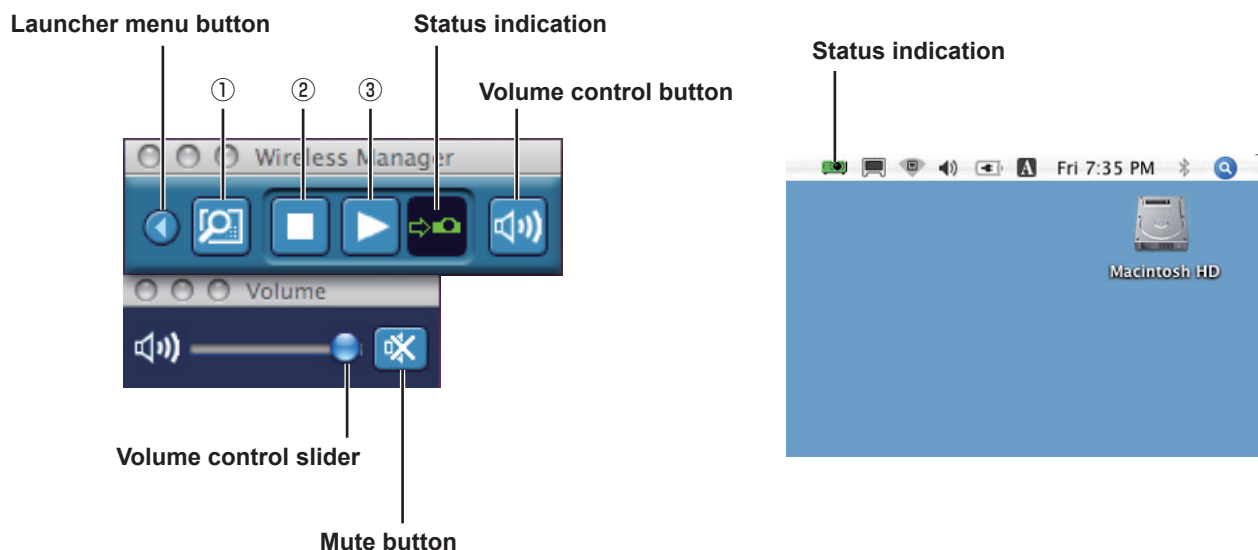
#### 2 Click [Yes].

The computer returns to the original network settings when the connection is ended.  
However, note that some time may be needed to return to the original network settings.  
Click [No] to return to the launcher.

# Various projection methods

## Description of the launcher

The launcher always appears on the computer screen, and can be used to perform various operations.



### ■ Status indication

When connected to one projector

	(Green, lit):	Transmission possible
	(Blue, lit):	Own computer currently transmitting (when in live mode)
	(Yellow, lit):	Other user currently transmitting
	(Red, lit):	Communication impossible
	(Black, lit):	When the projector has not been selected

When connected to multiple projectors

	(Green, lit):	All transmission possible
	(Blue, lit):	Currently Transmitting
	(Yellow, blinking):	Communication impossible for more than one unit
	(Red, lit):	All communication impossible
	(Black, lit):	When the projector has not been selected

### ■ Volume control button

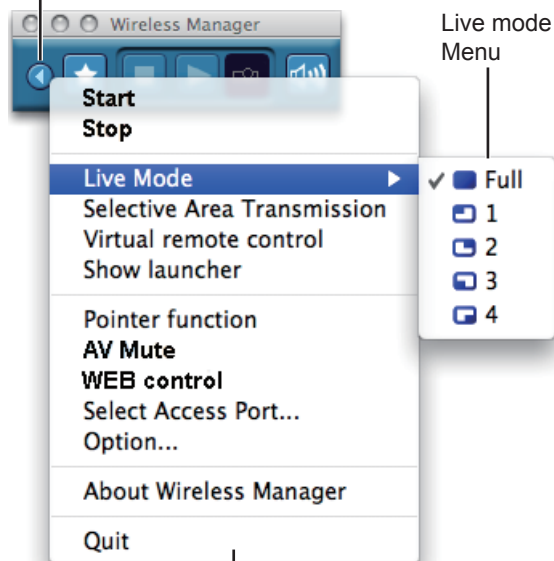
The volume control slider and mute button are displayed. Click again to close.

### ■ Operating Button


- ① Favorite Function Button: You can set your favorite function to this button. (See page 43)
- ② Stop Communication Button: Stops live mode.
- ③ Start Communication Button: Starts live mode. During communication the display changes to (paused).

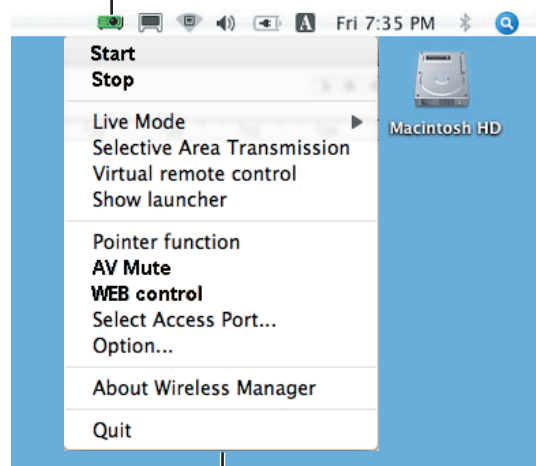
## Various projection methods (cont.)

Launcher menu button



Launcher Menu

Click [  ] in the status display on the menu bar to display the launcher menu.



Launcher Menu

### ■ Launcher Menu

- ① **Launcher menu button:** The launcher menu will appear. You can operate it by clicking the various items.
- [Start]: Starts live mode.
- [Stop]: Pauses live mode.
- [Live Mode]: The live mode menu will appear. Set the shape of the projected screen when in live mode. (See pages 28-29)
- [Selective Area Transmission]: By using the selective area window, you can specify the necessary information alone from the computer screen, and display it on the projection screen. (See page 38)
- [Virtual remote control]: The projector remote control is displayed on the computer screen, where it can be operated.
- [Show launcher]: Displays the launcher menu. (When operating from the system menu bar)



- [Pointer function]: Switches the pointer shape on the projected screen. (See page 39)
- [AV Mute]: Temporarily mutes the projector screen and volume. (See page 39)
- [WEB control]: Control a projector through the WebBrowser of a computer. (See page 51)
- [Select Access Port]: Displays the <Projector Search> window. (See page 13)
- [Option]: Displays the <Option> window. (See page 41)
- [About Wireless Manager]: Display the version information for the application.

#### Notes

- The virtual remote control can only be used with the 2 screen function when the connected projectors support 2 screen function.

## Various projection methods (cont.)

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### Live mode

Connect a computer to a projector, and display the computer screen over the entire projection screen.

**1 Check the status indication on the launcher to make sure that transmission is possible (  ). (See page 26)**


**2 Click [  ] on the launcher.**

The current computer screen is transmitted to the selected projector. In the live mode the projector is occupied by a single computer, so operations from other computers are not possible.

#### Notes

- Picture quality or other options can be set on the <Option> window by clicking [Option] in the launcher menu. (See page 41)
- For presentations in live mode, the [PAGE ▲ ▼] buttons on the remote control will function in the same way as the computer's Page Up and Page Down keys. This means that if you run a computer application that supports the Page Up and Page Down keys, the presentation screen can be changed using the remote control.
- Some portions of images are not projected under some applications (MS Office Assistant, IME Bar, animation and locus of the mouse cursor, and others).
- If the connection error occurs during projection, the message [Stop "Live mode"] will appear. Check the communication environment, then restart projection by clicking launcher buttons.
- Set the [LIVE MODE CUT IN] of the unit to [ON] in advance to enable a different computer to interrupt and project images in live mode. (See page 49)

### ■ Quitting live mode

Click [  ] on the launcher.



## Various projection methods (cont.)

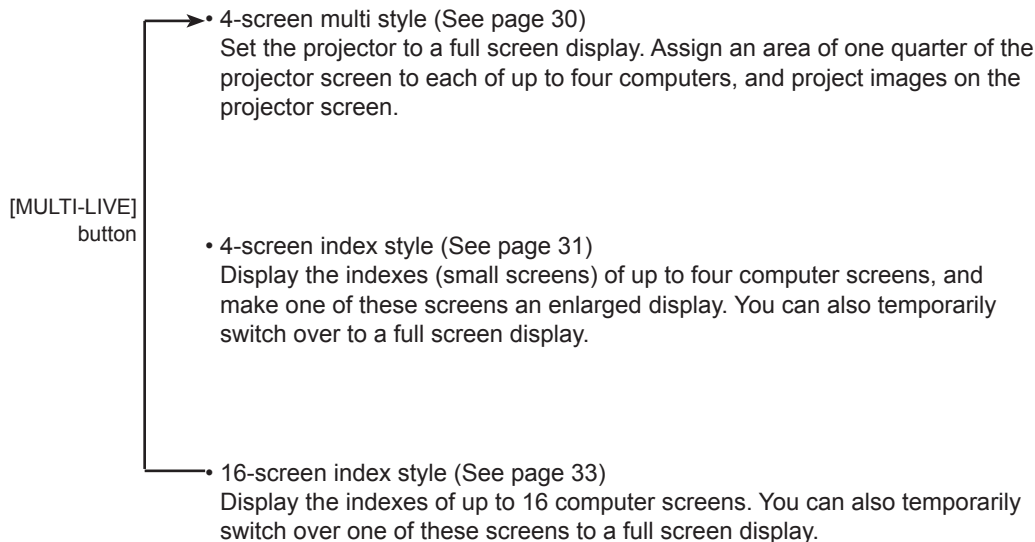
### Multi live mode

#### Switching from one style to another

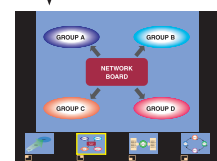
Multi live mode has “4-screen multi style”, “4-screen index style” and “16-screen index style”.

#### ■ How to operate

Press the [MULTI-LIVE] button of the remote control to change the style.



[MULTI-LIVE] button



[MULTI-LIVE] button



#### Notes

- When the projector starts up, it resumes in the current style the last time the projector was turned off.
- When transferring to the live mode, first select the 4-screen multi style, and then click [▶] on the computer.
- If you switch over to a 4-screen multi style when five or more computers are connected in a 16-screen index style, the connections to the fifth and higher numbered computers will be nullified.
- You cannot use the “MULTI-LIVE” button on the remote control when in full screen display.

## Various projection methods (cont.)

### 4-screen multi style

Connect up to four computers to one projector, and then divide the projector screen into four parts, and simultaneously display the screens for the four computers on the projector screen.

- 1 Press the [MULTI-LIVE] button on the remote control to turn the projection screen into a full screen display (the status when no index window (small screens) is displayed). (See page 29)**

If you press the [MULTI-LIVE] button once or twice when index windows are displayed on the projection screen, the screen will switch over to a full screen display.

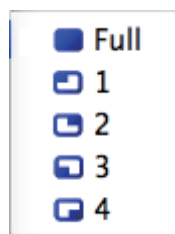
- 2 Check the status indication on the launcher to make sure that transmission is possible (  ). (See page 26)**

- 3 Click [  ].**

The launcher menu will appear.

- 4 Click [Live Mode] in the launcher menu.**

The window shown to the right appears.



- 5 Select and click the projection position.**

- 6 Click [  ] on the launcher.**


The computer image is transmitted to the selected quarter of the projection screen.




#### ■ Switching to a different position

Select and click a different projection position in step 4 above.

#### ■ Enlarged display

If [Live Mode] – [  Full Screen] is clicked in the launcher menu, projector screens temporarily change to full screen display. To return to the original display, click [Live mode] on the launcher and select original projection positions with each computer.

#### ■ Quitting 4-screen multi style

Click [  ] on the launcher.

#### Notes

- Picture quality or other options can be set on the <Option> window by clicking [Option] in the launcher menu. (See page 41)
- If the connection error occurs during projection, the message [Stop "Live mode"] will appear. Check the communication environment, then restart projection by clicking launcher buttons.

## Various projection methods (cont.)

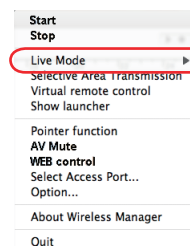
### 4-screen index style

When the projector is set to “4-screen index style”, connect up to four computers to one projector, and then simultaneously display the screens for the four computers on the index windows and also on a large screen.

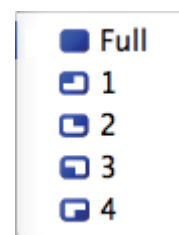
**1** Press the [MULTI-LIVE] button of the remote control to switch the projection screen to “4-screen index style”. (See page 29)

**2** Check the status indication on the launcher to make sure that transmission is possible (🔌). (See page 26)

**3** Click [🔌].  
The launcher menu will appear.

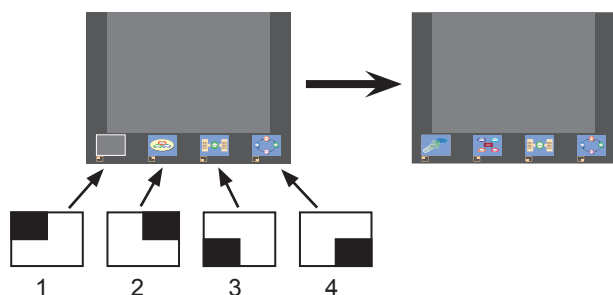


**4** Click [Live Mode] in the launcher menu.



**5** Select and click the projection position.

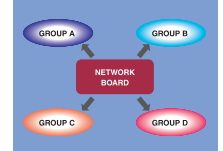
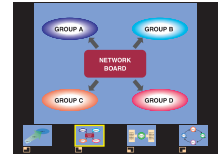
**6** Click [▶] on the launcher.  
The computer image is transmitted to the area of corresponding window.



## Various projection methods (cont.)

### ■ Enlarged display

- Use the [◀ ▶] buttons on the remote control to move the focus (yellow box) to the image to be enlarged, and press the [ENTER] button. The image is enlarged and displayed at the top of the projection screen.
- The image display will fill the entire screen if the [ENTER] button is pressed again.
- To return to the 4-screen index style, press the [ENTER] button again.



#### Notes

- While an enlarged image is displayed, the [PAGE ▲ ▼] buttons on the remote control will function in the same way as the computer's Page Up and Page Down keys. This means that if you run a computer application that supports the Page Up and Page Down keys, the presentation screen can be changed using the remote control.
- Picture quality or other options can be set on the <Option> window by clicking [Option] in the launcher menu. (See page 41)
- If the connection error occurs during projection, the message [Stop "Live mode"] will appear. Check the communication environment, then restart projection by clicking launcher buttons.

### ■ Quitting the 4-screen index style projection

Click [■] on the launcher.

#### Note

In the 4-screen index style, the status display lamp remains (🔌💡).  
Other computers can send images only to the windows which are not being used.

## Various projection methods (cont.)

### 16-screen index style

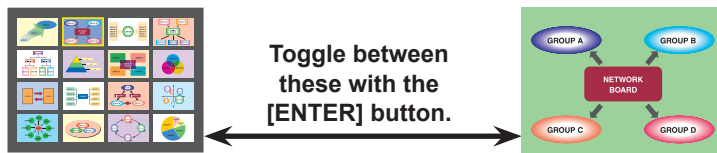
When the projector is set to “16-screen index style”, connect up to 16 computers to one projector, and simultaneously display the screens for the 16 computers on index windows and also on a large screen.

- 1 Press the [MULTI-LIVE] button of the remote control to switch the projection screen to “16-screen index style”. (See page 36)
- 2 Check the status indication on the launcher to make sure that transmission is possible (🔌). (See page 26)
- 3 Click [▶] on the launcher.

The computer images are automatically sent to the empty windows on the 16-screen display. Display position is not selectable.

### ■ Enlarged display

- Use the [◀▶▲▼] buttons on the remote control to move the focus (yellow box) to the image to be enlarged and press [ENTER] to expand that image to fill the display.
- Press [ENTER] again to return to the 16-screen index style.



### Notes

- While an enlarged image is displayed, the [PAGE ▲▼] buttons on the remote control will function in the same way as the computer's Page Up and Page Down keys. This means that if you run a computer application that supports the Page Up and Page Down keys, the presentation screen can be changed using the remote control.
- Picture quality or other options can be set on the <Option> window by clicking [Option] in the launcher menu. (See page 49)
- If the connection error occurs during projection, the message [Stop “Live mode”] will appear. Check the communication environment, then restart projection by clicking launcher buttons.

### ■ Quitting the 16-screen index style projection

Click [■] on the launcher.

## Various projection methods (cont.)

### Multiple Source Live Mode

You can simultaneously project one computer's screen on up to eight projectors.

#### Notes

Can be displayed in projectors that have a network number of [1]-[4] or [USER1]-[USER4].

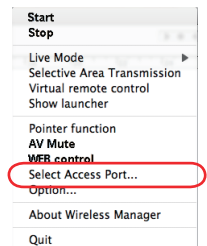
- 1 Press the **[MULTI-LIVE]** button on the remote control to turn the projection screen into a full screen display (the status when no index window is displayed). (See page 29)

If you press the **[MULTI-LIVE]** button once or twice when index windows are displayed on the projection screen, the screen will switch over to a full screen display.

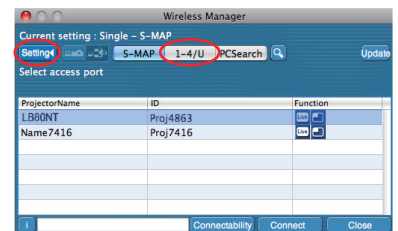
- 2 Click .

The launcher menu will appear.

- 3 Click **[Select Connection Point]** in the launcher menu.



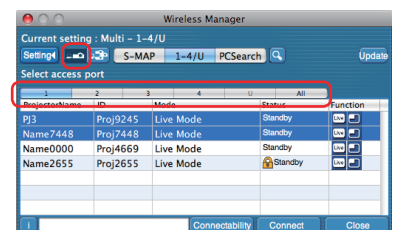
- 4 Click **[Setting ►]**, and click **[1-4/U]** in the setting menu.  
<Projector Search> window – [1-4/U] is displayed.



- 5 Click .

- 6 Select the network number of the desired projectors.  
(See page 45)

Projectors powered on in the chosen network group are listed.

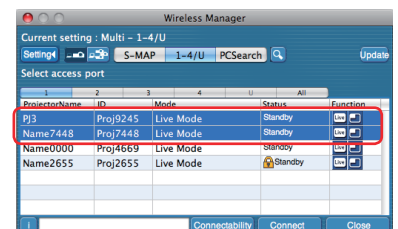


- 7 Select the desired projectors, and click **[Connections]**.

Selected projectors are displayed in blue.

To select a continuous range of projectors, click the first projector, and then click the last projector while holding down the Shift key. To select multiple projectors that are not next to each other, click each projector while holding down the Command key.

If click **[OK]**, the connection with the projectors is established.



## Various projection methods (cont.)

---

**8** Check the status indication on the launcher to make sure that transmission is possible (). (See page 26)


**9** Click [>] on the launcher.

The same image is projected from all projectors selected in step 5.

### Notes

- From the selected projectors, multiple projectors that have the same network number are projected in live mode.
- When one of the selected projectors is communicating with another computer, or its projection screen is not set to full screen display, the images are projected onto the other selected projectors.
- The greater the number of projectors, the slower the transmission.
- Picture quality or other options can be set on the <Option> window by clicking [Option] in the launcher menu. (See page 41)
- Sound cannot be output in the multiple source live mode.
- If the connection error occurs during projection, the message [Stop “Live mode”] will appear. Check the communication environment, then restart projection by clicking launcher buttons.
- Set the [LIVE MODE CUT IN] of the unit to [ON] in advance to enable a different computer to interrupt and project images in live mode. (See page 49)

### ■ Quitting multiple source live mode

Click [>] on the launcher again.

## Various projection methods (cont.)

### Multiple Source Multi Live Mode

Connect up to four computers to each of up to eight projectors, and project in each projector by the 4-screen multi style.

#### Notes

Can be displayed in projectors that have a network number of [1]-[4] or [USER1]-[USER3].

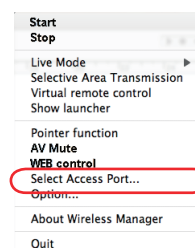
- 1 Press the [MULTI-LIVE] button on the remote control to turn the projection screen into a full screen display (the status when no index window is displayed). (See page 29)

If you press the [MULTI-LIVE] button once or twice when index windows are displayed on the projection screen, the screen will switch over to a full screen display.

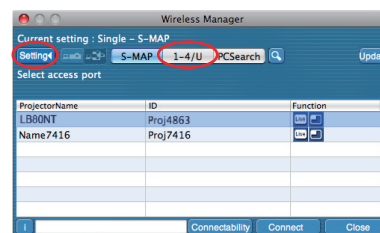
- 2 Click .

The launcher menu will appear.

- 3 Click [Select Connection Point] in the launcher menu.



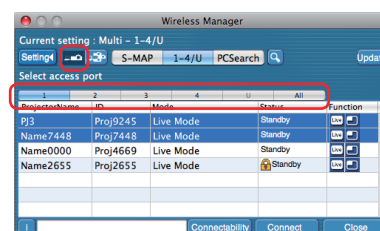
- 4 Click [Setting ►], and click [1-4/U] in the setting menu.  
<Projector Search> window – [1-4/U] is displayed.



- 5 Click .

- 6 Select the network number of the desired projectors.  
(See page 45)

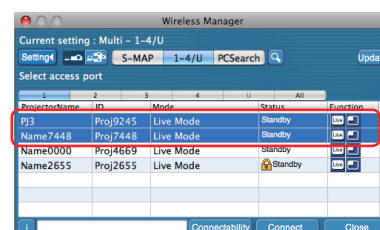
Projectors powered on in the chosen network group are listed.



- 7 Select the desired projectors, and click [Connections].  
Selected projectors are displayed in blue.

If click again, selected items are canceled.

If click [OK], the connection with the projectors is established.

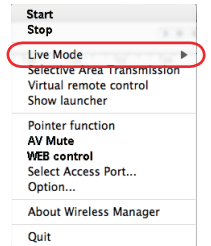




## Various projection methods (cont.)


**8** Check the status indication on the launcher to make sure that transmission is possible (  ). (See page 26)

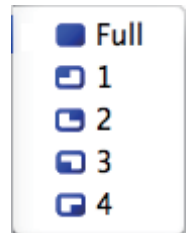
**9** Click [  ].  
The launcher menu will appear.



**10** Click [Live Mode] in the launcher menu.

**11** Select and click the projection position.


**12** Click [  ] on the launcher.  
The computer image is transmitted to the selected quarter of the projection screen.




### ■ Switching to a different position

Select and click a different projection position in step 7 above.

### ■ Enlarged display

If [Live Mode] – [  Full Screen ] are clicked in the launcher menu, projector screens temporarily change to full screen display. To return to the original display, click [Live Mode] on the launcher and select original projection positions with each computer.

### ■ Quitting multiple source multi live mode

Click [  ] on the launcher.

#### Notes

- From the selected projectors, multiple projectors that have the same network number are projected in multi-live mode.
- From the selected projectors, if LB10NT/20NT/30NT is included in the selection, or if one of the projectors is not set to full screen for the projection screen, this does not operate.
- The greater the number of projectors, the slower the transmission.
- In multiple source multi live mode even when the remote projector [MULTI-LIVE] button is pressed no operation will result.
- Picture quality or other options can be set on the <Option> window by clicking [Option] in the launcher menu. (See page 41)
- If the connection error occurs during projection, the message [Stop “Live mode”] will appear. Check the communication environment, then restart projection by clicking launcher buttons.

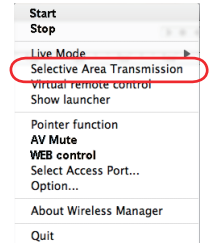
# Useful Functions

## Selective area transmission

By using the selective area window, you can specify the necessary information alone from the computer screen, and display it on the projection screen.

### 1 Click [⏏].

The launcher menu will appear.



### 2 Click [Selective Area Transmission] in the launcher menu.

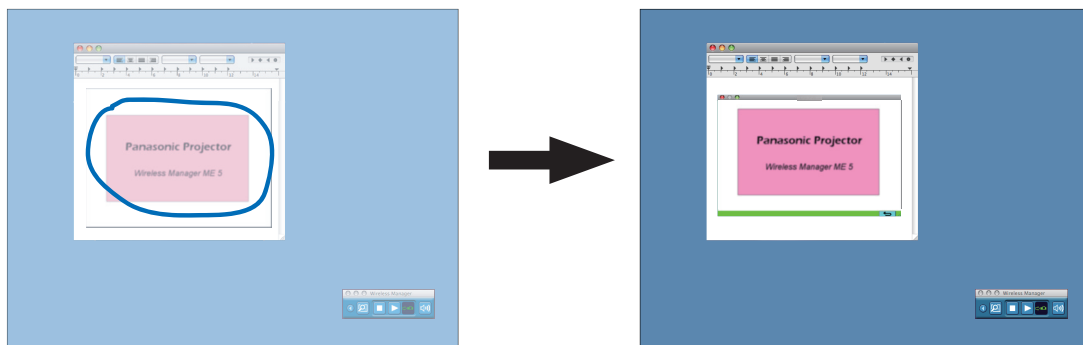
The range selection screen is displayed.

### 3 With the left mouse button held down, surround the area you want to send to the projector.

Selective area window (green) appears on computer screen.

You can perform operations in the selective area window with the same operation for moving or changing the window on the computer screen.

- If clicking [↶], the selective area window changes to its default size.



#### Note

If you have drawn a straight line, a selective area window is displayed in the diagonal direction from your line.

### 4 Check the status indication on the launcher to make sure that transmission is possible (🔄). (See page 26)

### 5 Click [▶] on the launcher.

The picture in the selective area window is projected.

#### Note

The picture inside the selective area window is displayed as big as possible with keeping the original aspect ratio to be fit for the resolution of projection screen.

## ■ Quitting selective area transmission

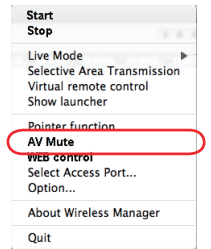
Click [Selective area transmission] in the launcher menu. Alternatively, the selective area transmission function is exited when the selective area window is closed.

## Useful Functions (cont.)

### AV mute function

Blanks the screen for a moment.

- 1 Click [⏮].**  
The launcher menu will appear.
- 2 Click [AV mute] in the launcher menu.**  
The image is turned off.  
When sound is output, the sound also goes out.
- 3 Click [AV mute] in the launcher menu again.**  
The image comes back.  
When sound is output, the sound can also be heard.



#### Note

The shutter function is available only in live mode or in multiple source live mode.

### Pointer function

You can change the shape of the pointer appearing on the projection screen in live mode or multiple source live mode to one that can be used for presentation purposes.

**Click [Pointer] in the launcher menu.**

#### ■ Quitting pointer function

Click [Pointer] in the launcher menu again.



## Useful Functions (cont.)

### Launcher menu functions used with each projection method

Wireless Manager ME 5.0 can be used when connected to the following projectors.

When using PT-LB80NT/PT-LW80NT/PT-F200NT/ PT-F100NT/PT-FW100NT/PT-LB51NT/PT-LB50NT/ PT-LB55NT/PT-LB60NT		Selective area transmission	AV mute	Pointer	Note
When connected to one projector	Live mode	✓	✓	✓	
	Multi live mode	✓	×	×	
When connected to multiple projectors	Multiple Source Live Mode	✓	✓	✓	
	Multiple Source Multi Live Mode	✓	×	×	

✓= Yes, ×= No

- Sound can be output only in live mode. (See page 41)
- Sound is not output when multiple projectors are connected.

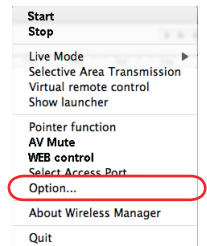
# Setting options

You can make various settings related to Wireless Manager ME 5.0.

## Setting option window

### 1 Click [⌘].

The launcher menu will appear.



### 2 Click [Option] in the launcher menu.

The <Option> window shown to the right appears.

### 3 Click the desired tab to be set.

### 4 Click [OK].



## Transmission

### ■ Resolution

Select the quality of the image transmitted from the computer to the projector.

### ■ Live Mode Settings

- [Remove image when shutting down Live Mode]  
Check this box to clear the projection screen from the projector when live mode ends.
- [Disable Screen Saver]  
This disables the computer screen saver function while Wireless Manager ME 5.0 is operating. Check this box to disable screen saver operation during live mode.
- [Display sender's name in Multi Live Mode]  
The characters (max. 8) which have been entered are displayed at the upper right of the transmitted screen. In the 4-screen and 16-screen index style modes, they are also displayed at the bottom of each image. (Alphanumerics are not displayed when the check mark has been removed.)
- [Produce audio along with video at live mode]  
You can set this when you want to output audio data from a projector in live mode. Furthermore, the launcher audio settings are only effective when sound is output from the projector. Sound can be output only in live mode.
- [Start Live mode at the same time as connection]  
Projection starts when the connection is made without having to click the live button.

#### Note

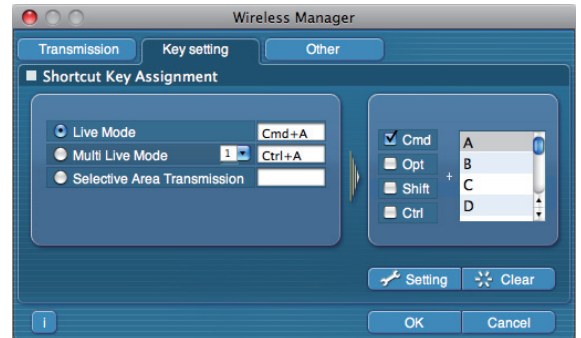
In the initial settings, [Disable Screen Saver] is disabled. Please remember that the password protected screen saver is disabled if you need to leave your computer.

## Setting options (cont.)

### Key setting

You can set shortcut key combinations that let you control the Wireless Manager ME 5.0 functions by computer keyboard operations.

- 1 Select the mode or the function to be set for the shortcut key, and click it.**
- 2 Select one from [Cmd], [Opt], [Shift] and [Ctrl]. (Multiple selections can be made)**
- 3 Select one alphabet to be used with the key chosen in step 2.**
- 4 Click [Setting].**  
The shortcut key set in step 2 - 3 appears in the blank space.  
If click [Clear], the shortcut settings are canceled.



#### Note

In live mode and multi live mode, the shortcut key switches the mode without stopping live mode.

## Setting options (cont.)

### Other

#### ■ Setting Favorites

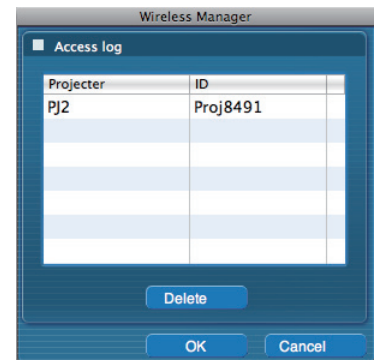
It is possible to assign a different name to connected projectors.  
When connected, a field is displayed at the bottom of the <Projector Search> window.

#### ■ Automatic connection setting

You can perform automatic settings for newly connected projectors.



- If the [Make an automatic connection] box is checked and a projector is registered as a destination for automatic connection when Wireless Manager ME 5.0 is started, <Projector Search> window does not appear and connection is performed automatically.
- When [Setting] is clicked, <Access Log> window appears and you can select projector(s) for automatic connections.  
Up to 5 projectors may be displayed in the order of most recent connection history.  
When it is desired to remove a projector from the display list, select it and press the [DELETE] → [OK] button.



#### ■ User settings

- User name  
When [Setting] is clicked, the <User name setting> window to the right appears.  
Specify the icon and user name shown on the <Projector search> window.

##### Note

Enter the user name in up to 8 alphanumerics.

- Favorites Button  
Assign whichever function you like to a specific launcher button. (See page 27)



: [Select Access Port]



: [WEB control]



: [Option]



: [AV Mute]



: [Selective Area Transmission]

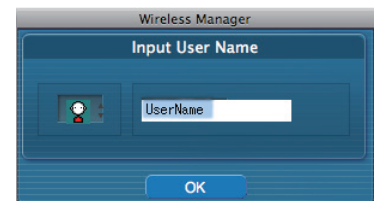


: [Virtual remote control]



: [Favorite]

- Adaptors  
Set the adaptor that is used normally. (Wireless/wired LAN adaptor).



### Version information

The version information of Wireless Manager ME 5.0 is displayed when [i] on the <Option> window is clicked.

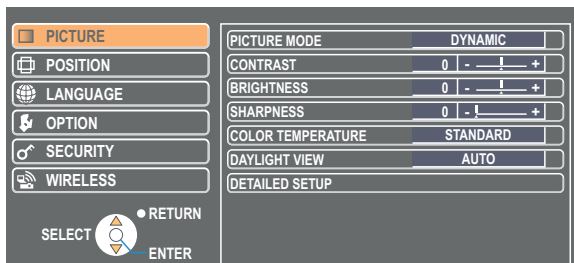
# Network/Security setting of the projector

When making a connection between a computer and a projector with settings other than the default settings, perform the procedure below to display the menu required when changing the initial settings. For details on how to perform detailed settings, see the projector user's manual.

## Displaying the Wireless Menu

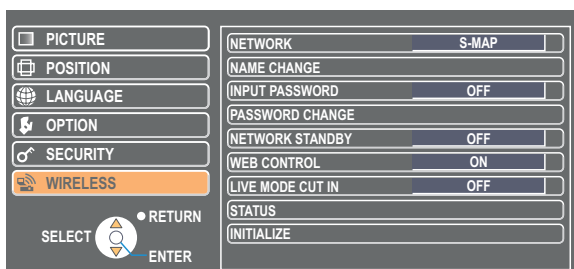
### 1 Press the [MENU] button on the projector.

The main menu appears.



### 2 Select [WIRELESS] with the [▲▼] buttons.

The wireless menu appears.



#### Note

Depending on the signals which are input to the projector, it may not be possible to adjust some of the items and use some of the functions.

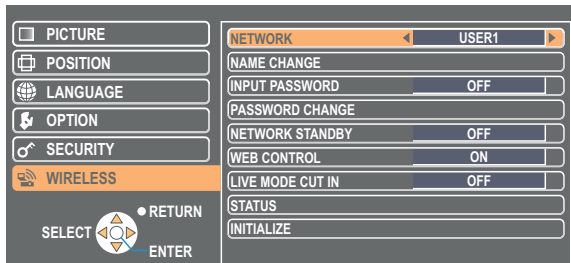
In the case of an item that cannot be adjusted or a function that cannot be used, the corresponding on-screen item will not be displayed, and you will not be able to execute it even when you press the [ENTER] button.



## Network setting of the projector (cont.)

### Changing the network number

- 1 Select [NETWORK] at the wireless menu.
- 2 Select the number to be connected with the [◀ ▶] buttons.



- Network number  
Off, [S-MAP], [1]-[4], [USER1]-[USER3]

#### Note

You can disable the wireless LAN by selecting [Off].

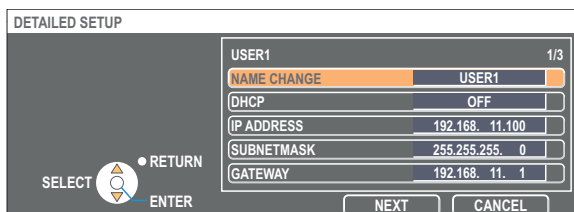
### [USER] settings

If you selected one of [USER1] to [USER3] for [NETWORK] in the wireless menu, you can make detailed network settings. Confirm to your system administrator before changing any settings.

### IP address settings

#### ■ How to display IP address setting menu

Press [NETWORK] → [USER1] - [USER3] → [ENTER] on wireless menu.



DHCP※:

ON: If a DHCP server exists in the network to which the projector is connected, the IP address will automatically be acquired.

OFF: If a DHCP server does not exist in the network to which the projector is connected, additionally set [IP ADDRESS※], [SUBNETMASK※] and [GATEWAY※].

※ "Glossary" (See page 58)

#### Note

A wired LAN and wireless LAN cannot be used in the same segment.

## Network setting of the projector (cont.)

### Wireless settings

Select [NEXT] on the IP address setting window to switch to the wireless setting window.  
Make the settings related to the wireless connection between the projector and the network.

DETAILED SETUP

USER1 2/3

SSID Panasonic Projector

MODE AD HOC

AUTHENTICATION OPEN

ENCRYPTION NONE

CHANNEL 1

RETURN NEXT CANCEL

SELECT ENTER

- SSID\* : If the mode is [INFRASTRUCTURE\*], enter the SSID registered at the access point. If the mode is [AD HOC], enter the same character string as that of SSID set on the computer to be connected.
- MODE : Select [AD HOC] or [INFRASTRUCTURE].
  - AD HOC\* : Connect projector and computer directly without access point.
  - INFRASTRUCTURE\* : Connect through access point.
- AUTHENTICATION : Set the user authentication method used by the network to be connected.
  - OPEN : Select when making a connection using [AD HOC], or when the access point authentication method is OpenSystem\*.
  - SHARED : Select when making a connection using [AD HOC], or when the access point authentication method is Shared Key\*.
  - WPA-PSK\* : Select when the access point authentication method is WPA-PSK.
  - WPA2-PSK\* : Select when the access point authentication method is WPA2-PSK.
- ENCRYPTION : Select the encryption method to be used for communication between the projector and the network.
  - NONE : Select when transmit without encryption. It is selectable only when [AUTHENTICATION] is [OPEN] or [SHARED].
  - WEP\* : Select when ENCRYPTION is WEP.
  - TKIP\* : Select when ENCRYPTION is TKIP.  
Selectable when [Authentication] is either [WPA-PSK] or [WPA2-PSK].
  - AES\* : Select when ENCRYPTION is AES.  
Selectable when [Authentication] is either [WPA-PSK] or [WPA2-PSK].

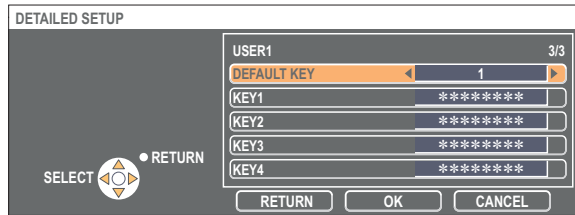
※ “Glossary” (See page 59)

#### Notes

- If you are unable to connect to the wireless LAN through the access point even after performing the steps in “① Projector settings (See page 21),” contact the manufacturer of the access point.
- IEEE802.1x is not supported.

## Network setting of the projector (cont.)

Additionally perform the following setting using the [AUTHENTICATION] setting.



■ When setting [OPEN] or [SHARED] as authentication and setting [WEP<sup>®</sup>] as the encryption method:

DEFAULT KEY : Set 1 – 4 numerals for the default key.

KEY 1 – 4 : Set these to match the WEP key registered in [DEFAULT KEY].

Either the 64-bit or 128-bit WEP key can be set. For the 64-bit key, input five alphanumerics (or a 10-digit string for the hexadecimal format) for the 128-bit key, input 13 alphanumerics (or a 26-digit string for the hexadecimal format).

■ When using [WPA-PSK<sup>®</sup>] or [WPA2-PSK<sup>®</sup>] : Set key and select [OK].

Input either 8 to 63 alphanumerics or a 64 digit string in the hexadecimal format.

※ “Glossary” (See page 59)

### Note

Important video/audio data is protected because AES<sup>®</sup> encryption processing takes place in advance for all network numbers, even if [ENCRYPTION] is set to [NONE].

※ “Glossary” (See page 59)

## Default settings of [USER1] - [USER3]

The following settings as network [USER1] - [USER3] are set before the projector leaves the factory.

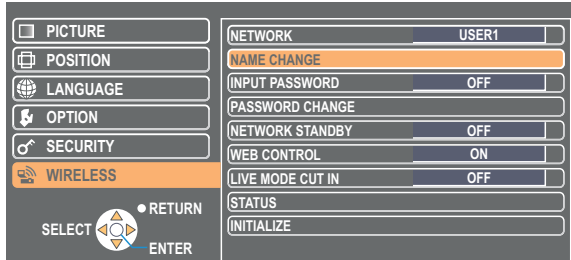
SSID	: Panasonic Projector
DHCP	: OFF
IP ADDRESS	: 192.168.11.100
SUBNETMASK	: 255.255.255.0
GATEWAY	: 192.168.11.1
MODE	: AD HOC
AUTHENTICATION	: OPEN
ENCRYPTION	: NONE
CHANNEL	: 11

## Network setting of the projector (cont.)

### Changing the projector name

You can change the projector name on the network.  
It makes easy to recognize projectors in <Projector Search> window.

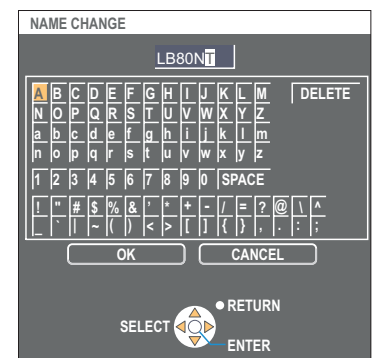
- 1 Select [NAME CHANGE] at the wireless menu and press the [ENTER] button.



- 2 Enter the projector name using the [◀▶▲▼ENTER] buttons.

- 3 After entering the projector name, select [OK] and click [ENTER].

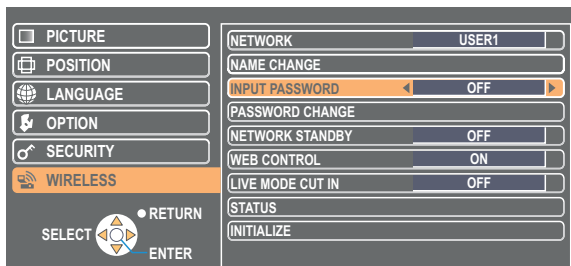
To cancel the change, select [CANCEL] and press the [ENTER] button.



### Password setting

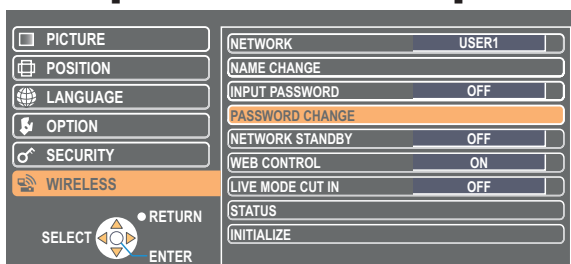
This setting is used to limit the users that can connect to the projector.

- 1 Select [INPUT PASSWORD] at the wireless menu.



- 2 Select [ON] with the [◀▶] buttons.

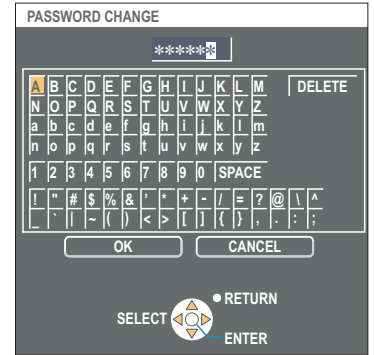
- 3 Select [PASSWORD CHANGE] at the wireless menu and press the [ENTER] button.



## Network setting of the projector (cont.)

**4** Enter the password using the [◀▶▲▼ENTER] buttons.

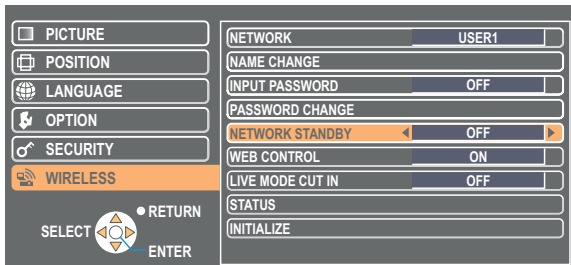
**5** After entering the password, select [OK] and click [ENTER].  
To cancel the change, select [CANCEL] and press the [ENTER] button.



### Network standby

You can leave the projector connected to the computer, even when it is in standby mode.

**1** Select [NETWORK STANDBY] at the network menu.

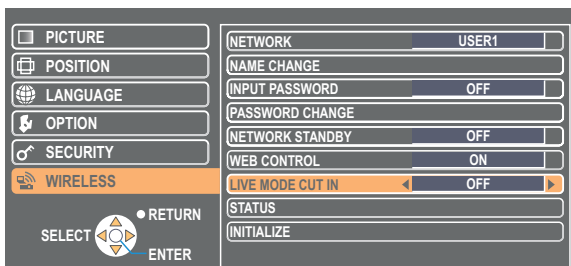


**2** Select [ON] or [OFF] with the [◀▶] buttons.

### Live mode cut-in

During live mode or multi live mode, a different computer can interrupt and project images in live mode.

**1** Select [LIVE MODE CUT IN] at the wireless menu.



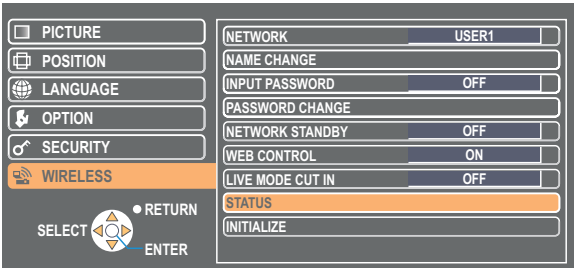
**2** Select [ON] or [OFF] with the [◀▶] buttons.

# Network setting of the projector (cont.)

## Verifying settings

Select [STATUS] at the wireless menu and press the [ENTER] button.

Your current settings appear.



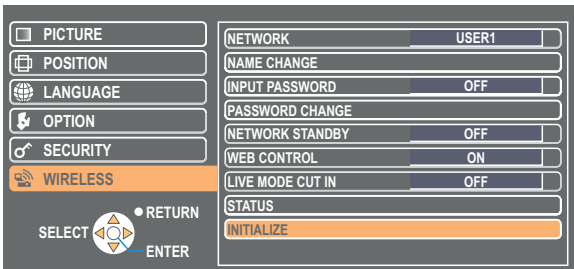
The status of the following will appear.

ANTENNA LEVEL	(The strength of the connection will appear.)
NETWORK	"DISABLE", "1" - "4", "USER1" - "USER3", "S-MAP"
MODE	"AD-HOC" - "INFRASTRUCTURE"
CHANNEL	Refer to page 5 for usable channels.
SSID	(See page 46)
AUTHENTICATION	"OPEN" - "SHARED" - "WPA-PSK" - "WPA2-PSK"
DEFAULT KEY	"-" - "1" - "4"
ENCRYPTION	"NONE" - "WEP" - "TKIP" - "AES"
DHCP	"OFF" - "ON"
IP ADDRESS	(See page 45)
SUBNETMASK	(See page 45)
GATEWAY	(See page 45)
MAC ADDRESS	

## Returning to the initial settings

You can return the changed settings to the initial conditions.

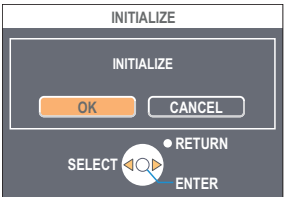
**1** Select [INITIALIZE] at the wireless menu and press the [ENTER] button.



**Note**

You will be prompted to enter the password if [ON] has been selected as the [INPUT PASSWORD] setting on the [SECURITY] menu.

**2** Select [OK] with the [◀ ▶] buttons and press the [ENTER] button.



# Using WebBrowser

Control a projector through the WebBrowser of a computer. It is called “WEB Control”.  
(The example is when using Safari.)

## Before using the WebBrowser control

Connect projector and computer. (See page 14)

### ① Projector settings

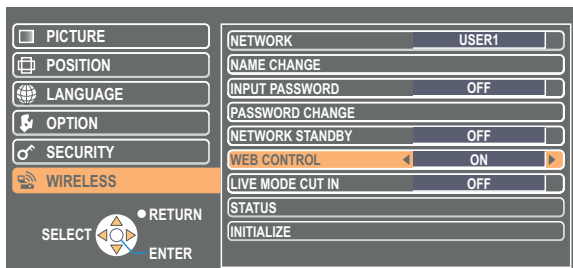
Set the [WEB CONTROL] of wireless menu [ON].

#### 1 Select [WEB CONTROL] on the wireless menu.

#### 2 Select [ON] or [OFF] with the [◀ ▶] buttons.

**ON** : This enables control on the WebBrowser.

**OFF** : This disables control on the WebBrowser.



### Notes

- When the projector settings have been changed using a WebBrowser, the projector will not appear on the connection list until the projector network is switched to [USER 1] - [USER 3].
- After the projector network has been switched to [USER 1] - [USER 3], manually release the proxy settings of the WebBrowser used.

### ② Computer settings

#### ■ Proxy server settings

Release the proxy settings of the WebBrowser used.

#### 1 Click [Preferences] from the [Safari] menu.

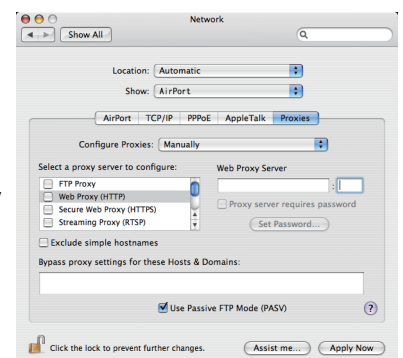
The <General> window appears.

#### 2 Click [Change Settings...] next to [Proxies] on the [Advanced] tab.

Click [Proxies] and select a proxy server.

#### 3 If a checkmark appears in the [Web Proxy] checkbox, remove it. If a checkmark appears in the [Automatic Proxy Configuration] checkbox, remove it.

#### 4 Click [Apply Now].



### Note

When the user does not have the [Admin (administrator)] authority, the [Admin (administrator)]'s name and password are required to make network settings.

## Using WebBrowser (cont.)

### ■ Enabling JavaScript

If JavaScript has been set to disable, enable it.

- 1 Open the [Security] tab in Safari.
- 2 Place a checkmark in the [Enable JavaScript] checkbox next to Web Content.

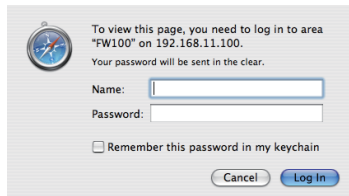
## Accessing from the WebBrowser

### 1 Select [WEB control] from the menu.

The WebBrowser starts up and the authentication window appears.



<Top window>



### 2 Enter the user name and the password.

### 3 Click [OK].

<Monitored information> window appears. (Next page)

#### Notes

- The default user name and password settings are as follows.  
User name: user1  
Password: (The password is not set.)
- Password used in this page is for accessing the web control window. (See page 56)  
This password is different from the password set in page 48 for accessing a projector.
- The system locks for several minutes if an incorrect password is entered three times in succession.
- No password is set at time of purchase or after default settings are restored. Be sure to set a password at such times.
- Make sure the password is as hard to guess as possible.
- Change the password periodically.
- If you forget the password, perform [INITIALIZE] using the network menu of the projector (See page 50) and set a password again using the <Change password> window on the WebBrowser. (See page 56)
- Matsushita Electric Industrial Co., Ltd. and its affiliated companies never directly ask customers for their password.  
Do not give out your password even if directly asked by a third-party representing themselves as Matsushita Electric Industrial Co., Ltd.
- The top window may not appear depending on the WebBrowser. In this case start up WebBrowser again, or press the [Ctrl] + [R] keys for example to update the screen.
- Connection cannot be made while the WebBrowser is set to dial-up network. Cancel the dial-up network setting.
- It may take some moments for WebBrowser to start up.



## Using WebBrowser (cont.)

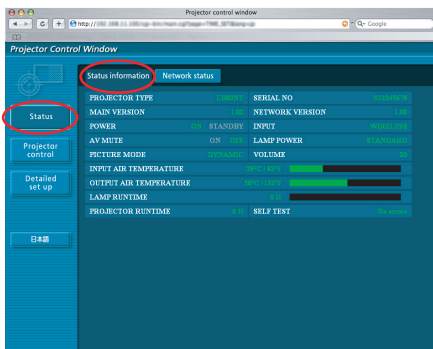
### Monitor information window

This page indicates the projector status.

To access this page from other pages, click [Status] at the left of the window.

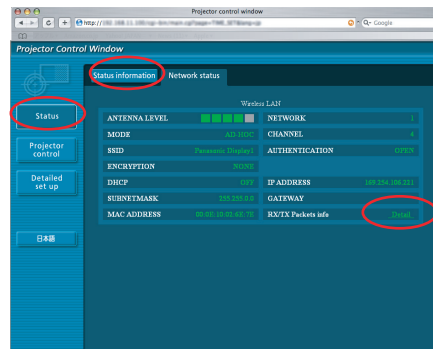
#### ■ Monitored information

On this window, click the [Status information] tab.



#### ■ Network information

On this window, click the [Network status] tab.



Click [Display] to switch to the detailed display window for the sent and received packet information.

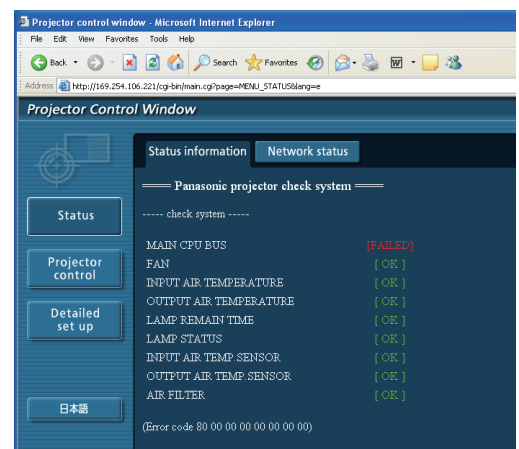
#### Note

The monitor information is refreshed at fixed intervals, but the current exact information can be checked by clicking [View] → [Refresh].

If [SELF TEST Error (Detail)] appears on the monitored information window, click it to view the error details.

SELF TEST

Error ( Detail )



#### ■ If [FAILED] appears

Item	Description
MAIN CPU BUS	There is a problem with a microcontroller circuit. Contact your dealer.
FAN	There is a problem with the fan or fan drive circuit. Contact your dealer.
INPUT AIR TEMP. OUTPUT AIR TEMP.	Excessive temperature by the air intake or around the lamp area. The following may be causing the problem. <ul style="list-style-type: none"><li>• The ambient temperature is too hot; the projector may be near a heater</li><li>• The exhaust vent is obstructed</li></ul>
LAMP REMAIN TIME	The lamp has been used for longer than its rated useful life, and it is time to replace it.
LAMP STATUS	The lamp could not be lit. Allow the bulb of the light source to cool, and then turn on the projector.
INPUT AIR TEMP.SENSOR	There is a problem with the air intake temperature sensor. Contact your dealer.
OUTPUT AIR TEMP.SENSOR	There is a problem with the exhaust temperature sensor. Contact your dealer.

## Using WebBrowser (cont.)

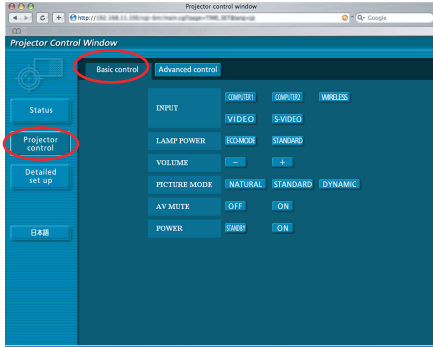
### Projector control window

You can make various projector settings.

To access this page from other pages, click [Projector control] at the left of the window.

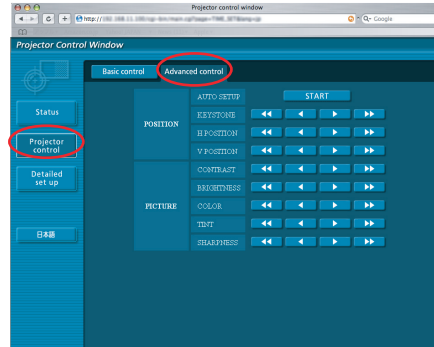
#### ■ Basic control window

On this window, click the [Basic control] tab.



#### ■ Advanced control window

On this window, click the [Advanced control] tab.



#### Note

Connection with the projector may not be possible immediately after the power is turned on. In this case wait a bit and then make the connection again.

# Using WebBrowser (cont.)

## Detailed settings window

You can make detail network settings on projector, when connecting without the administrator authority or when connecting through an access point (infrastructure mode).

### ■ LAN settings

1 Click [Detailed set up] in the menu.

2 Select the items to change and click [Next].

The settings window appears, showing the current settings.

- To change the LAN settings, click [Change].
- To return to the previous window, click [Back].

Settings in this page are the same when setting [USER 1] - [USER 3] from network menu of the projector. (See page 45)

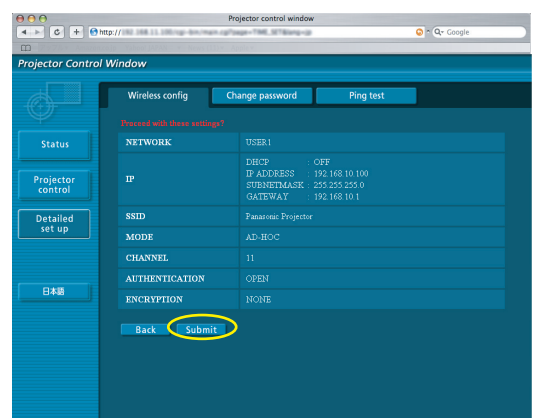
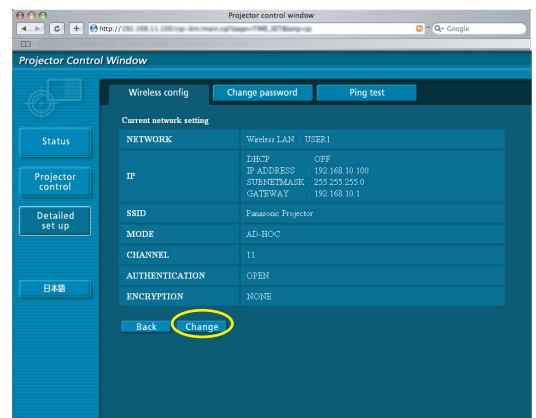
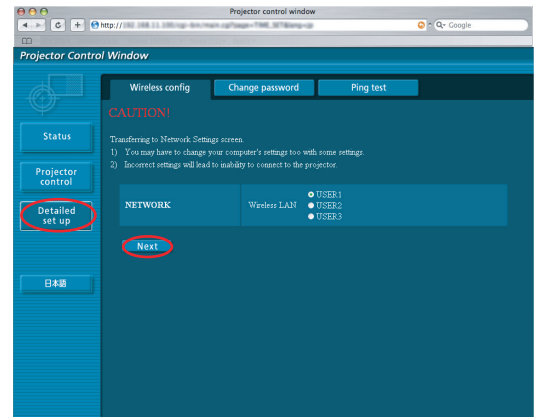
3 Complete the detailed settings and click [Next].

When [Next] is clicked, the next page appears, enabling you to complete the detailed settings as desired.

After all required items have been entered, a confirmation window appears.

4 Click [Submit].

The settings will be registered.



### ■ Making the above settings effective

Select [NETWORK] in the wireless menu of the projector, and use the [◀ ▶] buttons to select the network set in this page.

#### Notes

- Important video/audio data is protected because AES\* encryption processing takes place in advance for all network numbers, even if [ENCRYPTION] is set to [NONE]. \* "Glossary" (See page 59)
- If you have changed the LAN settings that are currently in use, the connection may break off.

## Using WebBrowser (cont.)

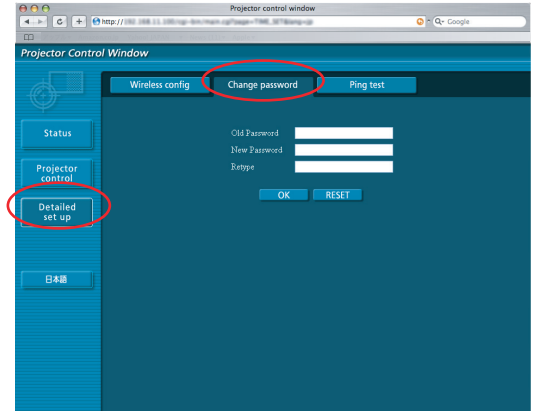
### ■ Password settings

Click [Detailed set up]→[Change password] in the menu.

Set a password for access of the [WebBrowser control window].  
Enter the previous password and the new password.  
Enter the new password in [Retype] and click [OK].

#### Note

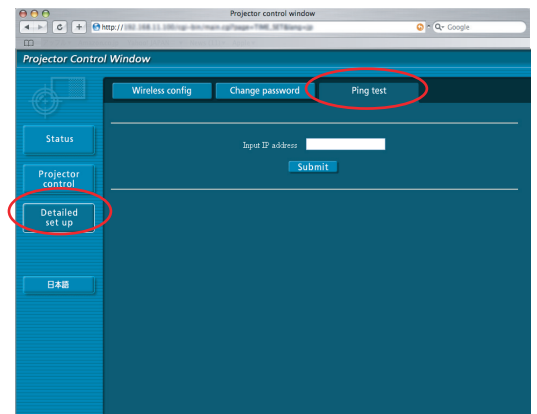
You can enter a password up to 16 characters (upper case/lower case) and symbols.



### ■ Connection test

Performs a test as to whether it is possible to connect to the target computer or access point.

Specify the destination that you want to test in the [Connection point IP address] field, and click [Submit].



## Switching Languages

Switch the language of the WEB control window.

To access this page from other pages, click [English] [日本語] at the main menu.

# Software Uninstall


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## Wireless Manager ME 5.0

### ■ Uninstalling Drivers

- 1** Set the provided CD-ROM into the CD/DVD-ROM drive of a computer.
- 2** Double-click [WMmac5.0.dmg] in the CD/DVD-ROM drive.  
[WMMac] appears on the desktop.
- 3** Double-click [WMUninstaller].  
Follow the instructions on the screen and uninstall the software.

### ■ Uninstalling Wireless Manager ME 5.0

- 1** Drag-and-drop  from the [Applications] folder to the [Trash].
- 2** Select [Empty Trash...] from the [Finder] menu.

#### Note

If you have only uninstalled the driver, sound output will no longer be possible.

# Glossary

Category	Item	Descriptions	Page
Common Setting of connections	<b>LAN</b>	Abbreviation for Local Area Network. This is a network with a relatively narrow range such as inside a company.	<b>10</b>
	<b>Access point</b>	These are stations for relaying electromagnetic signals between computers in a wireless LAN. When a computer is connected to an access point, it can communicate through the network connected to the access point.	<b>21</b>
	<b>MAC address</b>	Each network card has its own ID No. A discrete ID No. is assigned to each and every network card around the world. These IDs are used to exchange data between cards. These IDs are a combination of a discrete number managed and assigned by the IEEE to each individual manufacturer and a unique number assigned to each individual card by the manufacturer.	<b>21</b>
	<b>IP address</b>	Internet Protocol (IP) is a protocol for distributing data, and the address corresponding to the data distribution destination is called the IP address. The same IP address cannot be used within the same LAN.	<b>23</b> <b>45</b>
	<b>DHCP</b>	Abbreviation for Dynamic Host Configuration Protocol. This function automatically assigns IP addresses to the connected equipment. If a device with the DHCP server function is present within a LAN, it automatically assigns IP addresses to the connected equipment.	<b>45</b>
	<b>Subnetmask</b>	This limits the range of the IP addresses assigned to computers in order to divide the network into a number of sections during TCP/IP connection. The value used to divide the network at this time is called the subnetmask.	<b>45</b>
	<b>Gateway</b>	This is a relay point for connecting different networks. This refers to the hardware and software used when connecting a network with a network that uses a different protocol, etc. It adjusts the protocol and other differences between networks to allow connection with other networks.	<b>45</b>
	<b>Domain Name</b>	The identifier that corresponds to the location to which data is delivered by the network. It is an alias name consisting of alphabet, numbers, and symbols that replace the more difficult to use enumerated IP address.	<b>23</b>

## Glossary (cont.)

Category	Item	Descriptions	Page
Advanced setting of connection	<b>AD_HOC</b>	This is the mode in which computers communicate with each other directly, rather than via access points.	<b>46</b>
	<b>INFRASTRUCTURE (infrastructure mode)</b>	This is the mode in which communications are performed via the access point.	<b>21 46</b>
	<b>SSID</b>	Abbreviation for Service Set ID. The SSID identification code must be set to distinguish equipment included in a wireless LAN that uses access points from equipment not included in that LAN. This may appear as the "ESSID" or the "network name" for wireless LAN cards made by some manufacturers.	<b>46</b>
	<b>Open System/ OPEN</b>	This is an authentication of wireless signals employing a public key cryptosystem.	<b>46</b>
	<b>Shared Key/ SHARED</b>	This is a secret key cryptosystem for wireless signals in which authentication is performed with a key pre-set in the WEP. Other terms for this method, in which the same key is used for both encryption and decryption, are "shared key cryptosystem" and "common key cryptosystem".	<b>46</b>
	<b>WPA-PSK WPA2-PSK</b>	This is a standard covering encryption methods used in wireless LAN. It provides greater security than WEP, and has functions such as a user authentication function and also TKIP (encryption protocol) which automatically changes the encryption key at fixed intervals. And this authentication requires no authentication server.	<b>46 47</b>
	<b>WEP</b>	Abbreviation for Wired Equivalent Privacy. This is a method for encrypting communication data. The encryption key is created and notified only to the communicating user, so the communication data cannot be decrypted by a third party.	<b>17 46 48</b>
	<b>TKIP</b>	Abbreviation for Temporal Key Integrity Protocol. This encryption protocol provides even greater security than WEP because it changes the encryption key at fixed intervals.	<b>46</b>
	<b>AES</b>	These are the US Government's next-generation standard encryption methods, the selection work of which is performed by the National Institute of Standards and Technology (NIST).	<b>17 46 47 55</b>

# Frequently Asked Questions

Check the following points once more before requesting repair.

<b>No wireless connection can be made between my projector and my computer.</b>
<ul style="list-style-type: none"><li>• <b>Is Wireless Manager ME 5.0 running?</b> Wireless Manager ME 5.0 must be started in the computer in order to enable wireless transmissions of images to the projector.</li><li>• <b>&lt;When the user does not have the [Admin (administrator) authority]&gt;</b><ul style="list-style-type: none"><li>• When the user does not have the [Admin (administrator)] authority, the [Admin (administrator)]'s name and password are required to make network settings.</li></ul></li><li>• <b>&lt;Network setting error&gt;</b> When connecting with Network number [U], make sure whether wireless menu setting of the projector is correct or not. (See page 26)</li></ul>
<b>I get dropped from the network.</b>
<ul style="list-style-type: none"><li>• <b>Did the projector enter [Sleep] mode?</b> If the projector goes to [Sleep] and is disconnected from the network, quit and restart Wireless Manager ME 5.0.</li><li>• <b>Did you connect to the network via an Easy Wireless Set Up (Network [1], [2], [3], [4], [S-MAP] or [PC Search]), use Wireless Manager ME 5.0 and then quit the application?</b> The projector can be disconnected from the network if you connect via an Easy Wireless Set Up ([1], [2], [3] or [4]), use Wireless Manager ME 5.0 and then quit the application. Set up your wireless LAN again.</li></ul>
<b>I cannot connect to the network via an Easy Wireless Set Up.</b>
<ul style="list-style-type: none"><li>• <b>&lt;[1] to [4] or [U (user)] cannot be selected in access point searches despite selecting [Wireless LAN].&gt;</b> Is Wireless Manager ME 5.0 installed in the [Applications] folder? For an Easy Wireless Set Up, Wireless Manager ME 5.0 must be installed in the [Applications] folder (./Applications).</li></ul>
<b>I cannot lower the display brightness.</b>
<ul style="list-style-type: none"><li>• <b>Is a checkmark placed in the [Disable Screen Saver] checkbox?</b> The brightness of the built-in display cannot be lowered if a checkmark appears in the [Disable Screen Saver] checkbox of the &lt;Option&gt; window of Wireless Manager ME 5.0.</li></ul>
<b>I cannot hear sound.</b>
<ul style="list-style-type: none"><li>• After installing the software, always reboot the system. (See page 12)</li><li>• Sound is not output if the driver has been uninstalled. (See page 57)</li></ul>



## Frequently Asked Questions (cont.)

### The connection to the wireless LAN or wired LAN is lost.

- If the live mode is canceled or the connection is lost, start the reconnection procedure from the menu.  
If it is still not possible to establish a connection to the LAN, power off the projector, wait for the cooling fan to stop operating (after the power monitor on the projector changes from orange to red), power the projector back on, and then start the connection procedure from the menu once again. (See page 13)

### The connection cannot be established with IEEE802.11 g.

- In environments with wireless LAN adapters that support both IEEE802.11b and 802.11g, the connection may be established via 802.11b.
- In some operating environments, the connection may be established via 802.11b, depending on the location, radio signal conditions, distance, or other factors.
- Some wireless LAN adapters only support ad hoc connections via IEEE802.11b.

### The transfer rate is slow.

- The transfer rate may be slower in some operating environments (depending on such factors as the location, radio signal conditions or distance).
- Avoid placing metal objects or other conductors near the wireless LAN antenna of a computer, otherwise the transfer rate may be slower.
- When WEP is set the image data is converted, so transfer takes time.

### Image display is slow or animation is not displayed smoothly.

- Is the computer CPU speed slow? (See page 11)  
Live mode depends largely upon the computer CPU performance.
- Adverse effects may be exerted if there is any wireless communication in the vicinity.
- When [Resolution] is set to [High Definition] in the <Option> window (See page 41), it may take longer time to display images.
- The speed may be slower when any other applications are running concurrently.

## Frequently Asked Questions (cont.)

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<b>There is a time lag between operations at the computer and results in the projected image.</b>
<ul style="list-style-type: none"><li>• Wireless Manager ME 5.0 reads the screen, compresses the data and transmits it to the projector. In the projector, the received data are extracted and then projected. Some delays occur in this system, due to the processing time and factors in the wireless environment. Different computers may also produce varying lag times.</li></ul>
<b>The Wireless Manager ME 5.0 color display is strange and characters are difficult to read.</b>
<ul style="list-style-type: none"><li>• Check the [Colors] setting on the [Display] tab in [System Preferences]. Set [Colors] to [Thousands] or higher. The live mode cannot be projected when set to [256 Colors].</li></ul>
<b>Making a wireless LAN connection while using the internet</b>
<ul style="list-style-type: none"><li>• If you have a wireless LAN environment which allows an internet connection, placing the projector on that network will allow you to use the internet and the wireless connection at the same time. (See page 21)</li><li>• If you have a wired internet connection, this projector allows wireless use simultaneously with a wired connection to the internet.</li></ul>
<b>The web control window does not appear.</b>
<ul style="list-style-type: none"><li>• Manually release the proxy settings of the WebBrowser used.</li></ul>

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