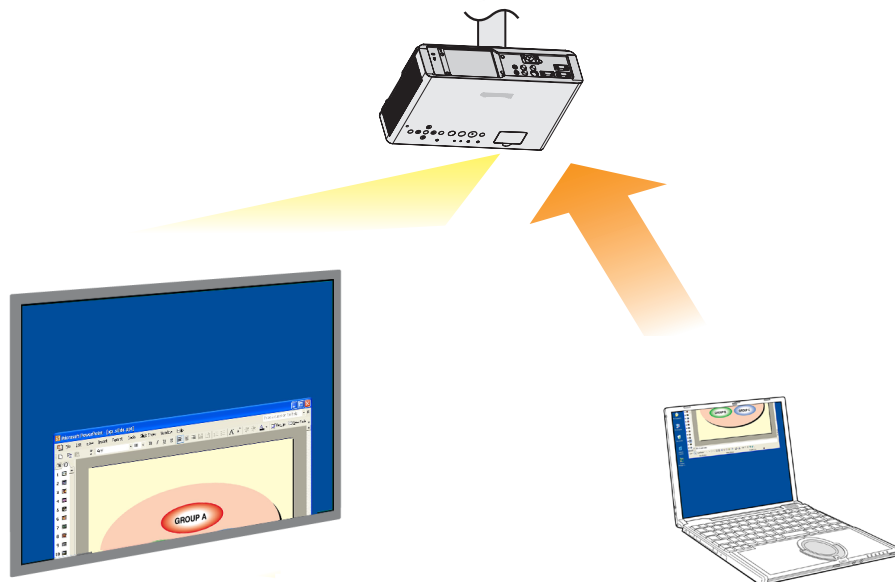


Secondary Display Transmission Function Advanced Operation

(Wireless Manager ME 5.0)



Secondary Display Transmission Function Advanced Operation

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Wireless Manager mobile edition 5.0 (hereafter referred to as “Wireless Manager ME 5.0”) must be installed in order to use the secondary display transmission function. For details on installation, see the “Network Function Edition.”

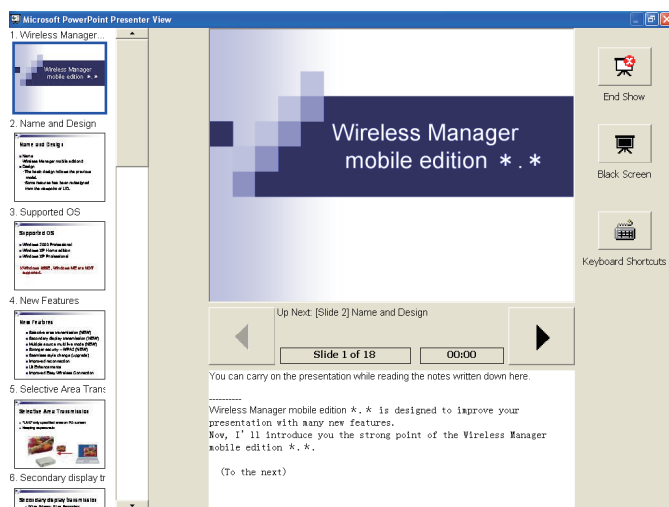
This manual offers explanations using examples from the Windows XP (Home Edition) operating system. PowerPoint examples use the 2003 version.

Using the Secondary Display Transmission Function to its Best Advantage (1)

- Have you ever had difficulties memorizing the contents of your presentation?
- Have you ever become confused when giving presentations containing documents prepared by your colleagues?
- Have you ever worried that a colleague giving a presentation you prepared might misinterpret the intended message?
- Have you ever forgotten what was on the next slide during a presentation?
- In the middle of presentation, have you ever wanted to change things around to adjust to circumstances?

At times like these, you can use the Secondary Display Transmission Function to give presentations with Microsoft Office PowerPoint (hereafter “PowerPoint”) while simultaneously viewing your notes, the amount of elapsed time since starting the presentation and thumbnails of the slides.

[Computer screen]



[Projector screen]



You can display the regular slide show images on the projector screen while displaying on your computer screen the notes you made and a counter that shows the elapsed time since starting the slide show.

What's more, you can jump to specific slides without interrupting the flow of the slide show, ensuring a smooth presentation. This is useful, for example, when you need to skip slides due to time constraints or when a slide that is several slots behind the current one needs to be temporarily displayed.

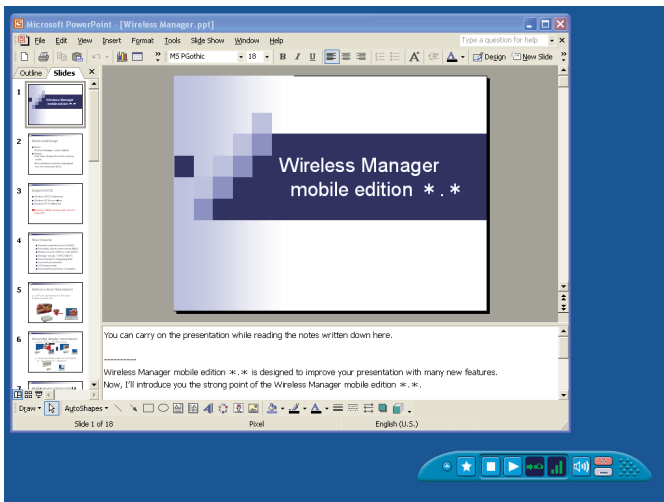
(→ See page 10 for the operating procedure.)

Using the Secondary Display Transmission Function to its Best Advantage (2)

- Have you ever wanted to take meeting or conference minutes while you were displaying materials through a projector?

At times like these, you can use the Secondary Display Transmission Function to give presentations while simultaneously making notes in PowerPoint's note field.

[Computer screen]



[Projector screen]



If the display destination of the slide show is set to the projector screen ahead of time using PowerPoint, the regular PowerPoint window will appear on your computer screen even while presenting the slide show. While the slide show is displayed on the projector screen, Q&A notes or other points can be added into PowerPoint's note field as seen on your computer screen.

(→ See page 14 for the operating procedure.)

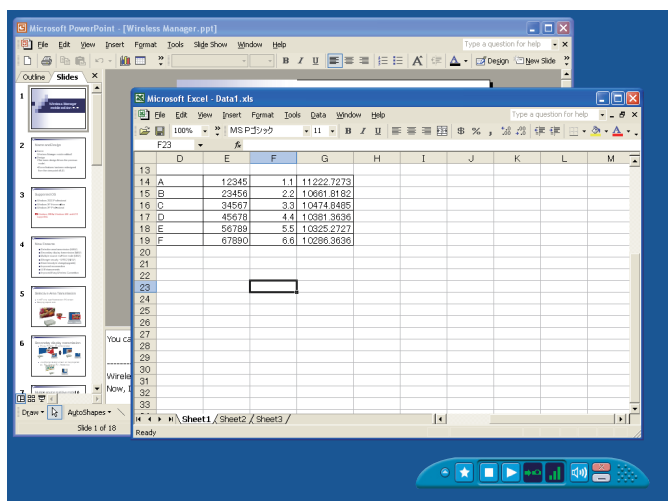
Using the Secondary Display Transmission Function to its Best Advantage (3)

When using PowerPoint

- At a conference, have you ever wanted to sneak a look at additional or supplementary materials for your presentation?

At times like these, you can use the Secondary Display Transmission Function to give presentations while simultaneously viewing other materials.

[Computer screen]



[Projector screen]



If the display destination of the slide show is set to the projector screen ahead of time using PowerPoint, regular Windows operations can be performed on your computer screen even while presenting the slide show. Other materials can be displayed on your computer screen and referred to while slides are being displayed on the projector screen without interrupting the flow of the slide show.

(→ See page 17 for the operating procedure.)

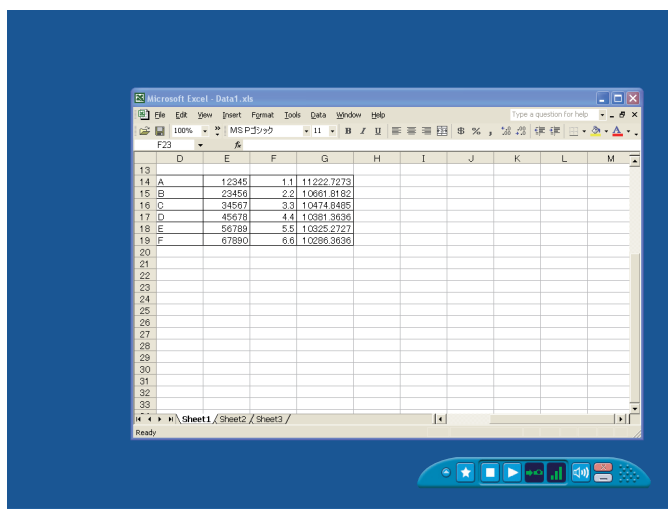
Using the Secondary Display Transmission Function to its Best Advantage (4)

When using applications other than PowerPoint

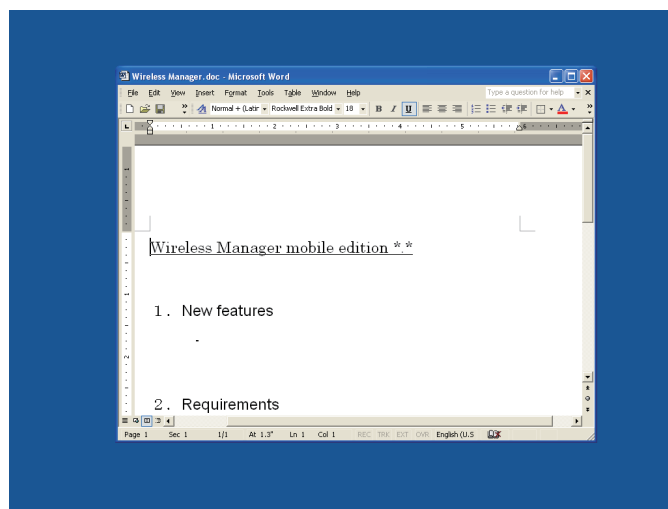
- At a conference, have you ever wanted to sneak a look at materials you don't want others to see?
- Have you ever been in a quandary at a conference because you wanted to prepare the next material but ended up showing it while operating your computer?

At times like these, you can display one application on your computer screen and a different application on the projector screen using the Secondary Display Transmission Function.

[Computer screen]



[Projector screen]



One application is shown on your computer screen and another one appears on the projector screen.

For instance, a document can first be displayed using Microsoft Office Word (hereafter "Word") on the projector screen, then a Microsoft Office Excel (hereafter "Excel") document loaded onto your computer screen, and commentary or an explanation can be given while referring to a separate document.

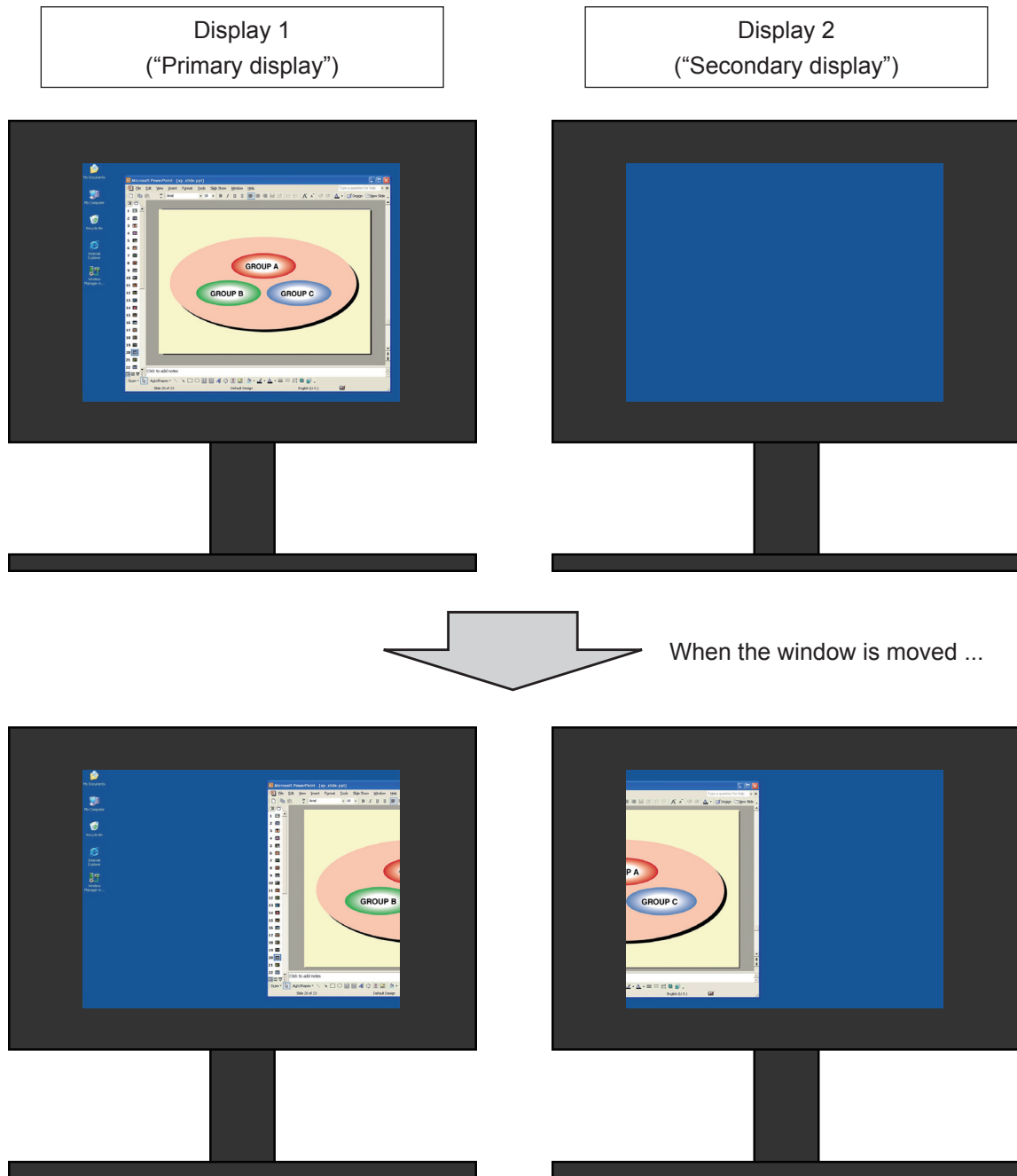
(→ See page 21 for the operating procedure.)

What “Secondary Display” Can Do for You

A function that uses two displays with one computer to show the images of two display screens which are joined together to look like one is called a “multi-display” function.

It is supported by Microsoft Windows XP and Microsoft Windows 2000. (RGB connectors used for external connections or an additional video adapter card must be provided for this function to work.)

With this function, the first display is referred to as the “primary display” and the second as the “secondary display.”

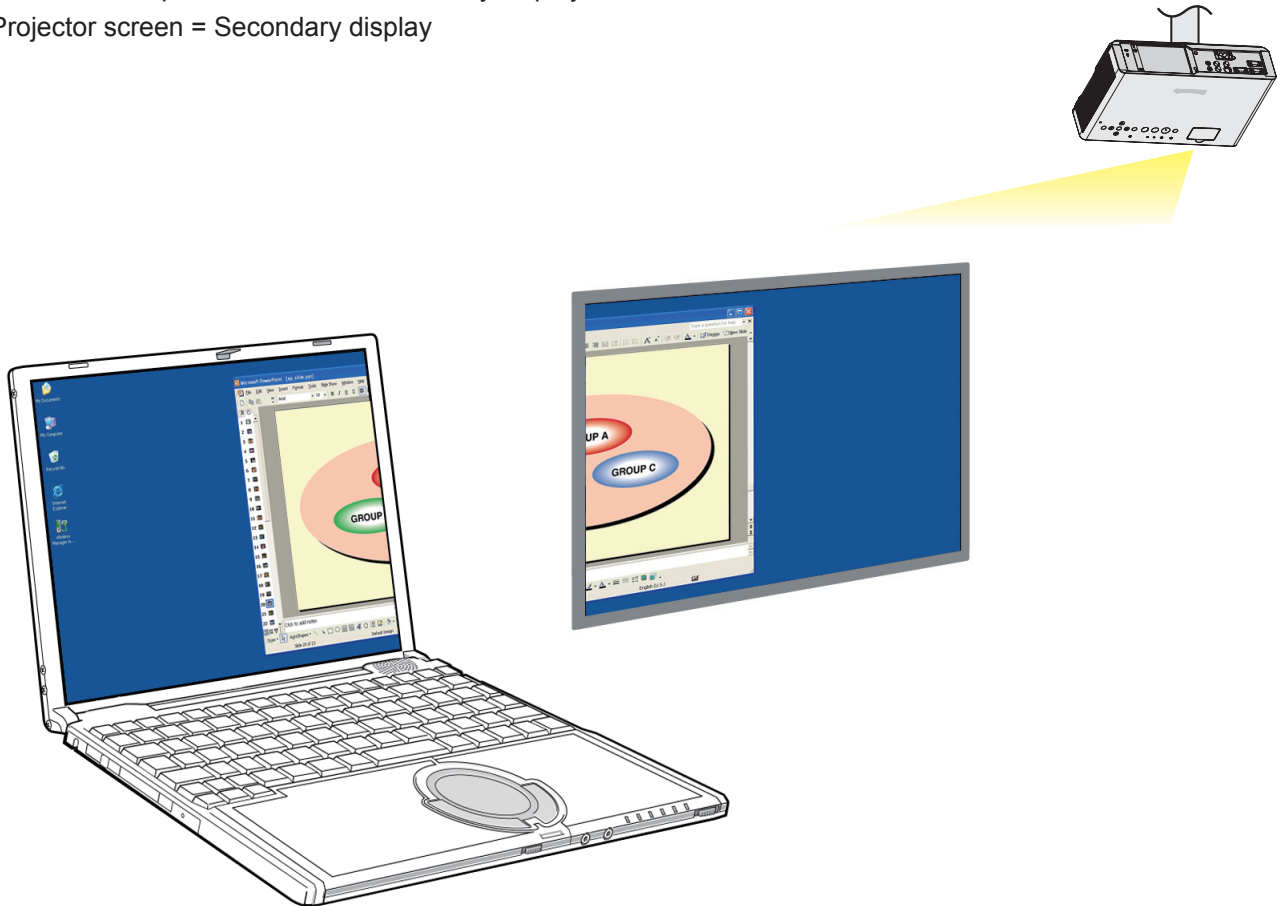


What “Secondary Display” Can Do for You (Continued)

Using Wireless Manager ME 5.0, the original display on your computer can be made to serve as the primary display and the projector display as the secondary display even without RGB connectors used for external connections or an additional video adapter card.

If, for instance, a notebook computer is being used:

- Notebook computer LCD screen = Primary display
- Projector screen = Secondary display



Computer = Primary display

Projector = Secondary display

In the past, the same images appeared on both the computer and projector screens, but this function adds another screen, allowing images that are different than those appearing on the projector screen to be shown on the computer screen.

This makes for neat presentations using PowerPoint and other applications.

System Requirements

The computer should meet the following requirements in order to use the secondary display function.

OS: Microsoft Windows 2000 Professional SP4/XP Home Edition/XP Professional

CPU: Intel® Pentium® III 800MHz or faster, or compatible processor
(1 GHz or faster is recommended when using live mode)

RAM: 256 MB or more

Hardware conditions:

CD or DVD drive (for software installation and viewing the user's manual)

LAN terminal (10BASE-T/100BASE-TX/1000BASE-T)

An IEEE802.11 b/g built-in wireless LAN system or an IEEE802.11 b/g wireless LAN adapter must be installed and running properly. However, some IEEE802.11 b/g wireless LAN may not allow connection to IEEE802.11 g projectors.

Application software:

Microsoft Office PowerPoint 2002 or newer version is required when using "Presenter View."

Note

Note that operation is not guaranteed when used with system environments other than the above or on homemade computers.

■ Precautions when using Windows Vista

Installing the Wireless Manager ME 5.0 into computers with Windows Vista is possible, but the secondary display transmission function cannot be used.

Operation is not guaranteed for all computers even if they meet the above conditions.

Operating Procedures Using PowerPoint


Giving presentations while displaying notes on the computer only

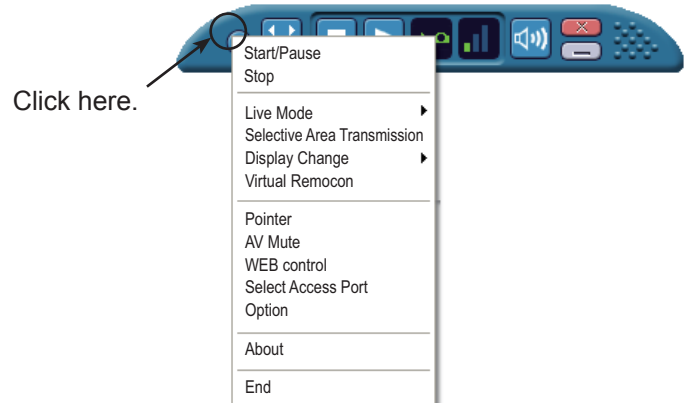
“Presenter View,” which comes standard with PowerPoint (version 2002 or newer), allows you to view your notes, the elapsed time and slide thumbnails of the presentations only on the computer screen.

To give a presentation using PowerPoint’s Presenter View, follow the operating procedure below.

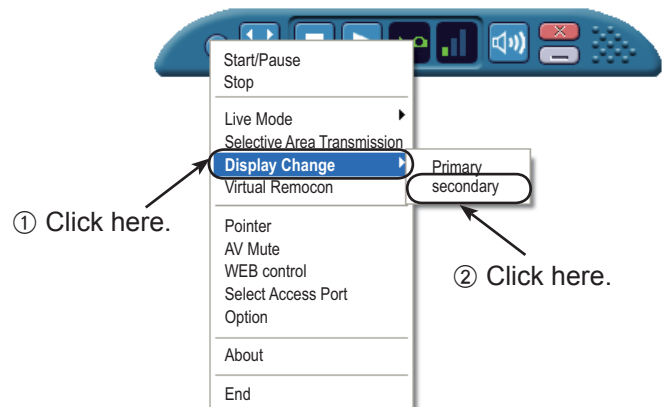
For operation of the Wireless Manager ME 5.0, see the “Network Function Edition.”

1 Start up Wireless Manager ME 5.0, and select the projector.

2 The launcher is displayed. Click [] at the far left to display the launcher menu.



3 ① Click [Display Switchover] on the launcher menu, the menu of [Primary] and [Secondary] is displayed.
② Click [Secondary].



(→ Continued on next page)

Operating Procedures Using PowerPoint (Continued)

- 4** Click [▶].
An image consisting only of the wallpaper appears on the projector screen.



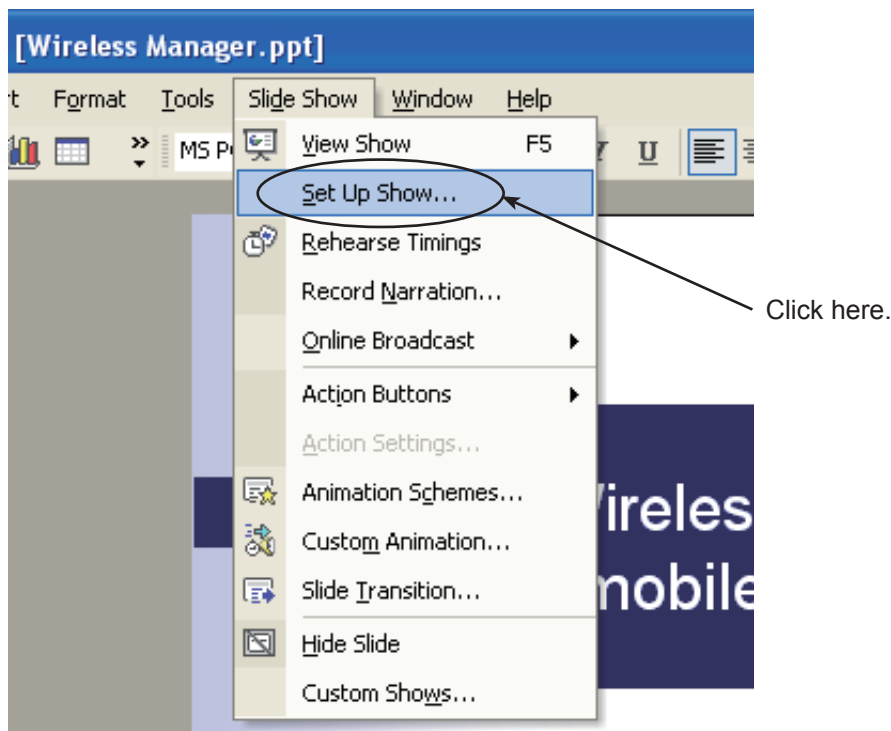
[Computer screen]



[Projector screen]



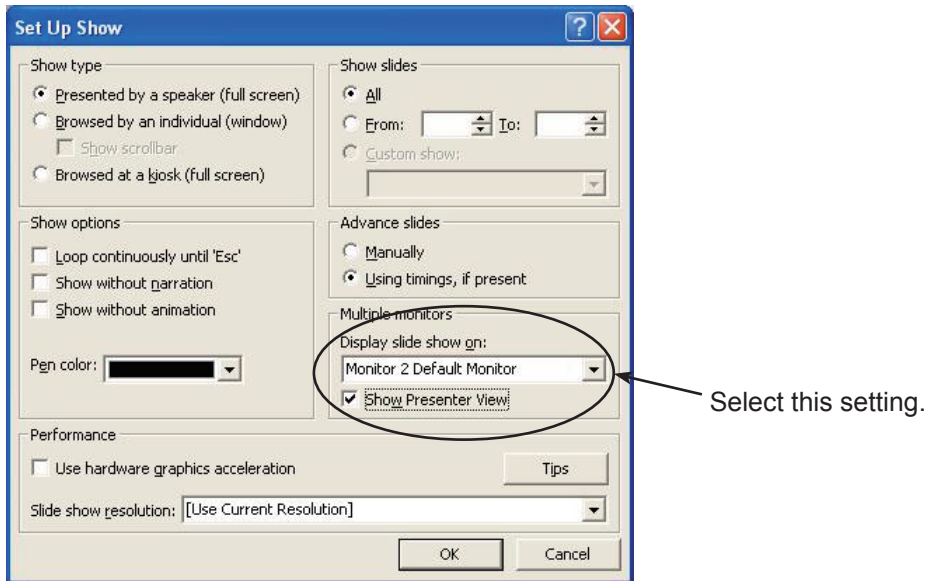
- 5** Start up PowerPoint and click [Slide Show] → [Set Up Show].
The "Set Up Show" window now appears.



(→ Continued on next page)

Operating Procedures Using PowerPoint (Continued)

- 6** In the [Multiple monitors] area, select [Monitor 2 Default Monitor]^{※1} under [Display slide show on], select the [Show Presenter View] check box, and click [OK].



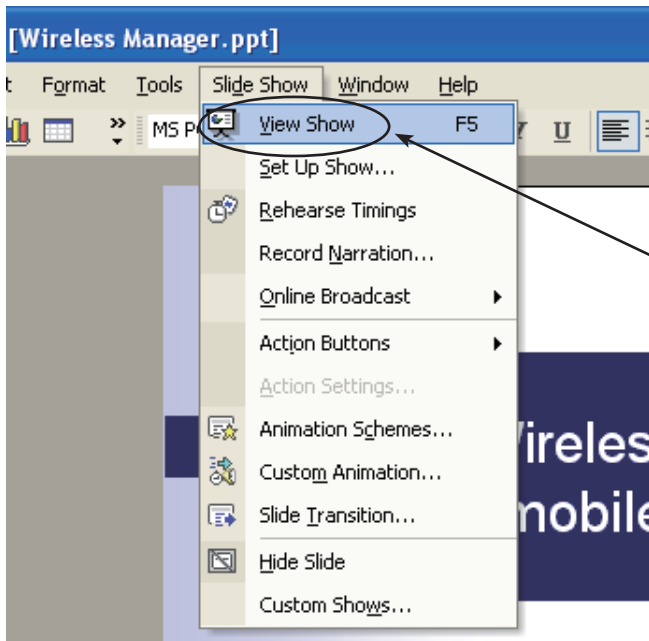
You are now ready to display the slide show on the projector screen using “Presenter View.”

※1: This display may differ depending on the computer you are using.

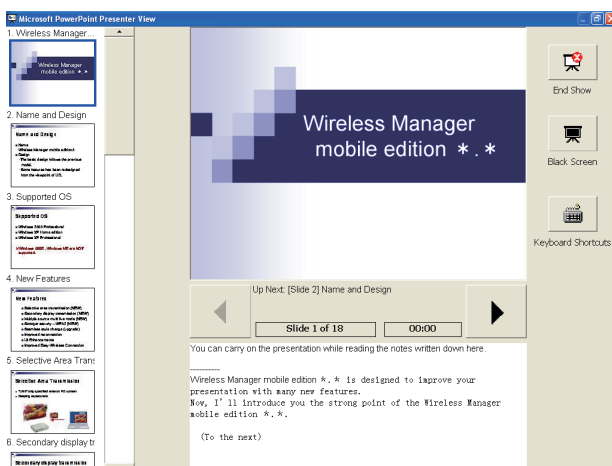
(→ Continued on next page)

Operating Procedures Using PowerPoint (Continued)

- 7 Click [Slide Show] → [View Show] to start the slide show.
“Presenter View” appears on the computer screen, and the slide show appears on the projector screen.



[Computer screen]



[Projector screen]




Note


When closing the Secondary Display Transmission Function, be sure to exit the slide show first, or “Presenter View” may not be displayed properly.

Operating Procedures Using PowerPoint (Continued)

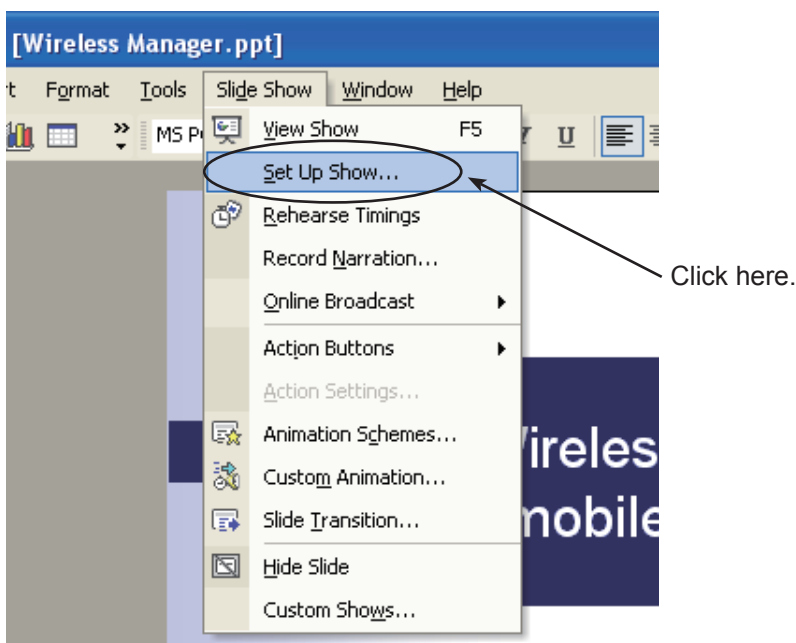
Giving presentations while taking notes or minutes

To jot down points or Q&A notes in the note field during a PowerPoint presentation, follow the operating procedure below.

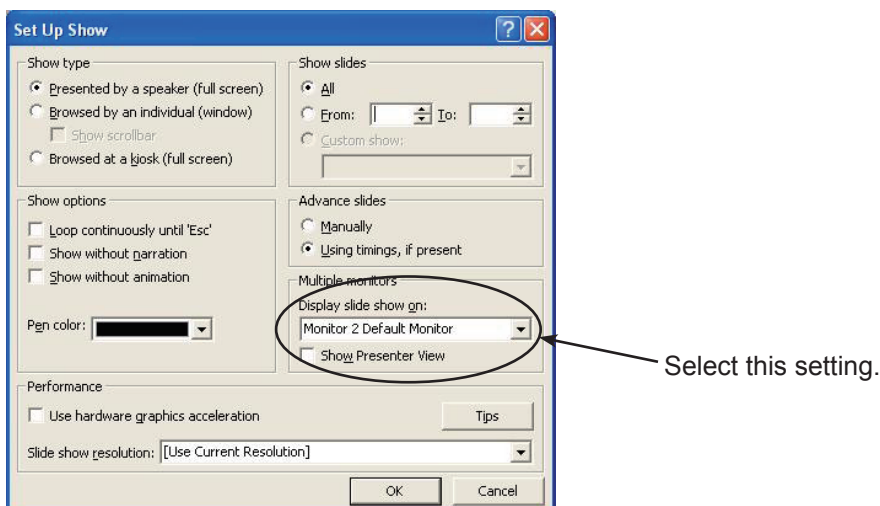
1 Start up Wireless Manager ME 5.0, and select the projector.
The launcher is displayed. Click [] at the far left to display the launcher menu.

2 Click [Display Switchover] → [Secondary], and click [].
(→ See pages 10-11, steps 2-4.)

3 Start up PowerPoint and click [Slide Show] → [Set Up Show].
The “Set Up Show” window now appears.



4 In the [Multiple monitors] area, select [Monitor 2 Default Monitor]^{※1} under [Display slide show on]. Clear the [Show Presenter View] check box if it is selected. When the setup is complete, click [OK].

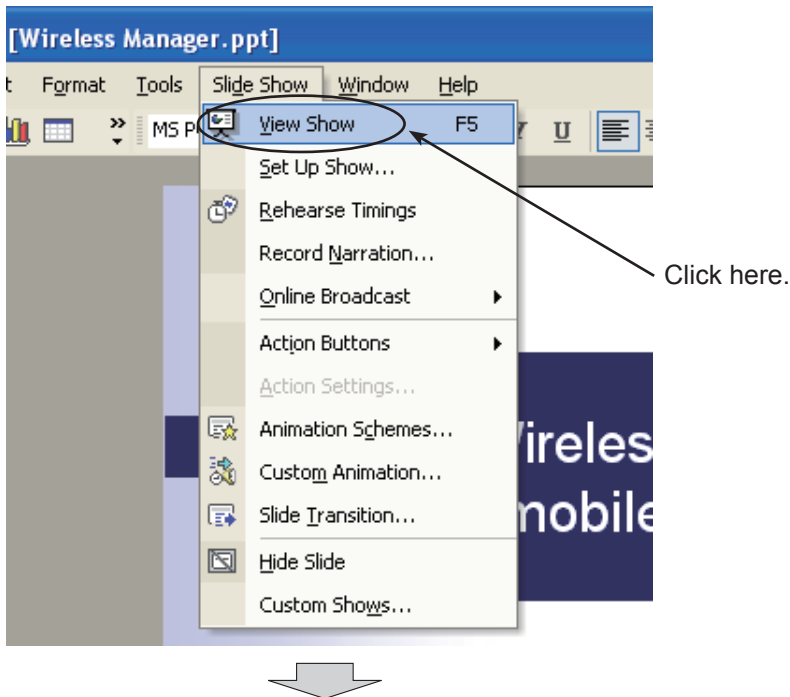


※1: This display may differ depending on the computer you are using.

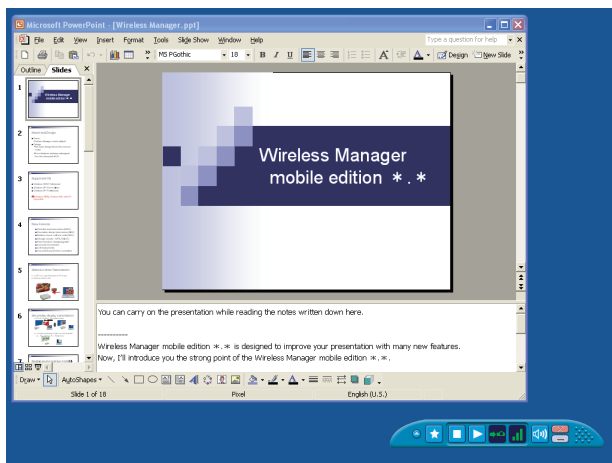
(→ Continued on next page)

Operating Procedures Using PowerPoint (Continued)

- 5** Click [Slide Show] → [View Show] to start the slide show.
The computer screen display remains the same while the slide show appears on the projector screen.



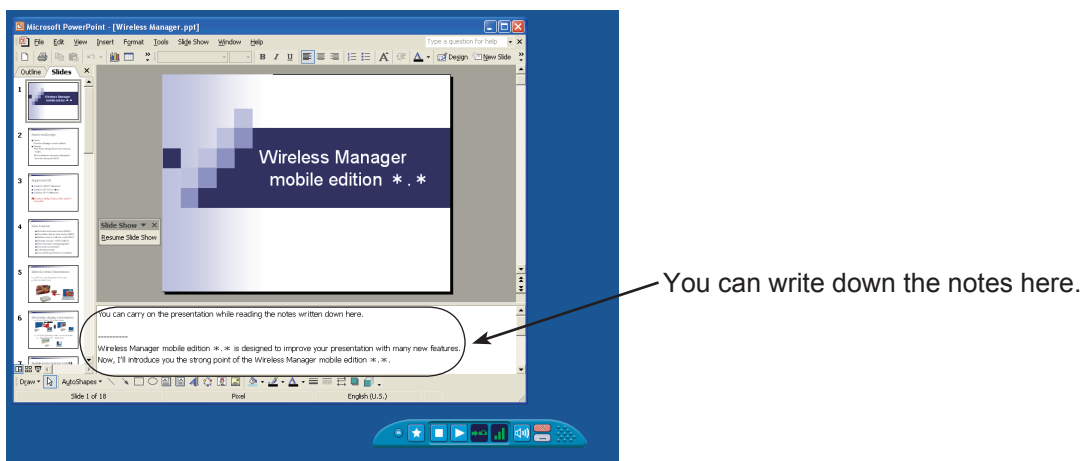
[Computer screen]



[Projector screen]



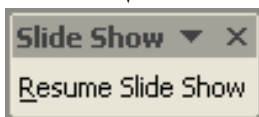
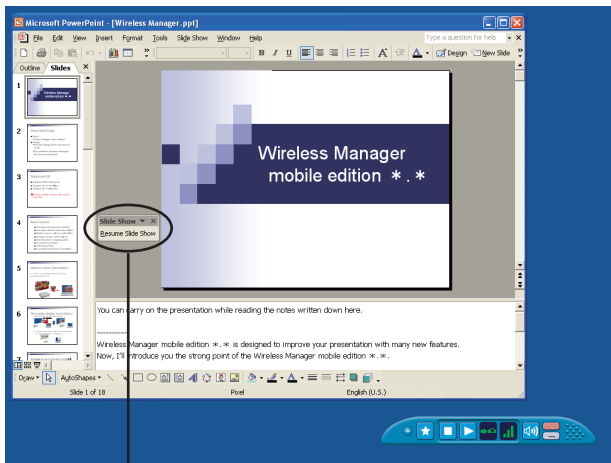
The regular PowerPoint screen appears on the computer so you can proceed with the slide show while jotting down Q&A notes or other points in the note field.



(→ Continued on next page)

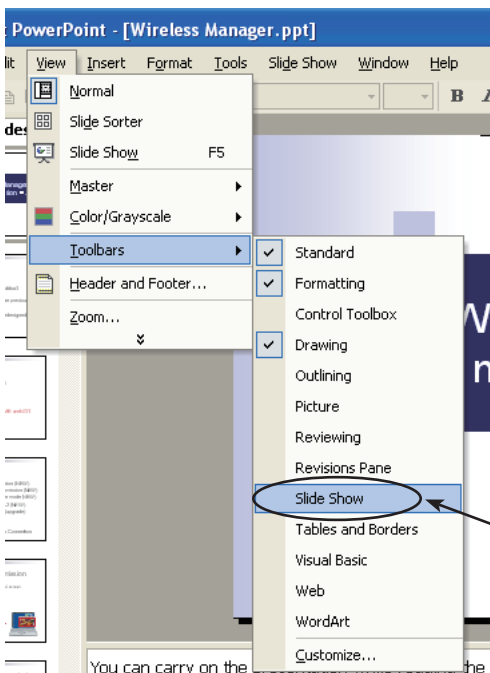
Operating Procedures Using PowerPoint (Continued)

- 6** The small “Slide Show” toolbar now appears on the PowerPoint screen. Click [Resume Slide Show] to restage the slide show.



Click here. (The position where this appears may differ depending on the computer.)

If the “Slide Show” toolbar fails to appear, select [View] → [Toolbars] → [Slide Show] in PowerPoint to display it.





Click here.

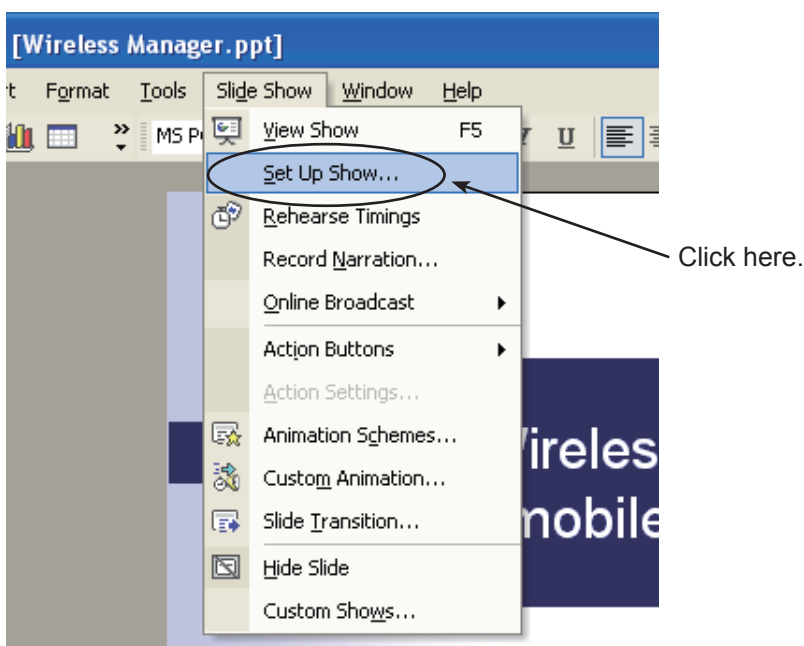
- 7** The slide show can now be restaged. Proceed with the slide show using the [↑], [↓], [Page Up] and [Page Down] keys.

Operating Procedures Using PowerPoint (Continued)

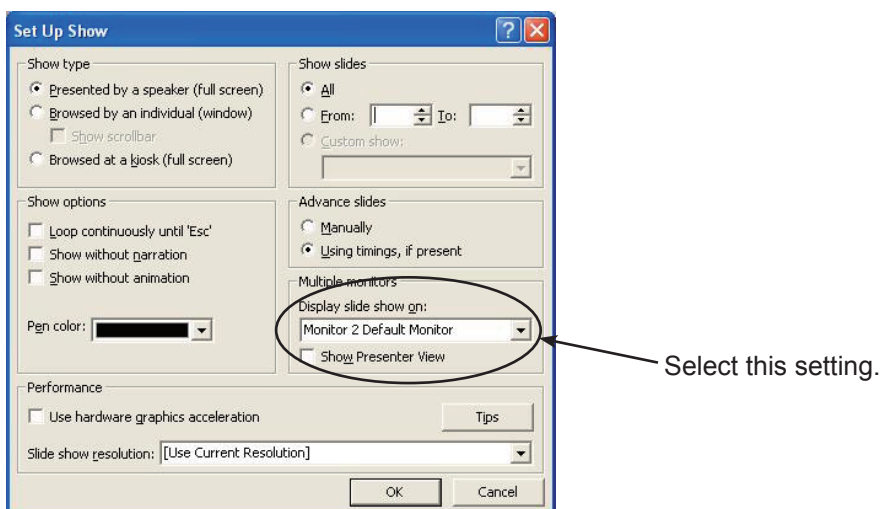
Giving presentations while referring to other documents

To run another application on the computer screen while staging a slide show, follow the operating procedure below.

- 1 Start up Wireless Manager ME 5.0, and select the projector.
The launcher is displayed. Click [] at the far left to display the launcher menu.
- 2 Click [Display Switchover] → [Secondary], and click [].
(→ See pages 10-11, steps 2-4.)
- 3 Start up PowerPoint and click [Slide Show] → [Set Up Show].
The “Set Up Show” window now appears.



- 4 In the [Multiple monitors] area, select [Monitor 2 Default Monitor]*¹ under [Display slide show on]. Clear the [Show Presenter View] check box if it is selected. When the setup is complete, click [OK].

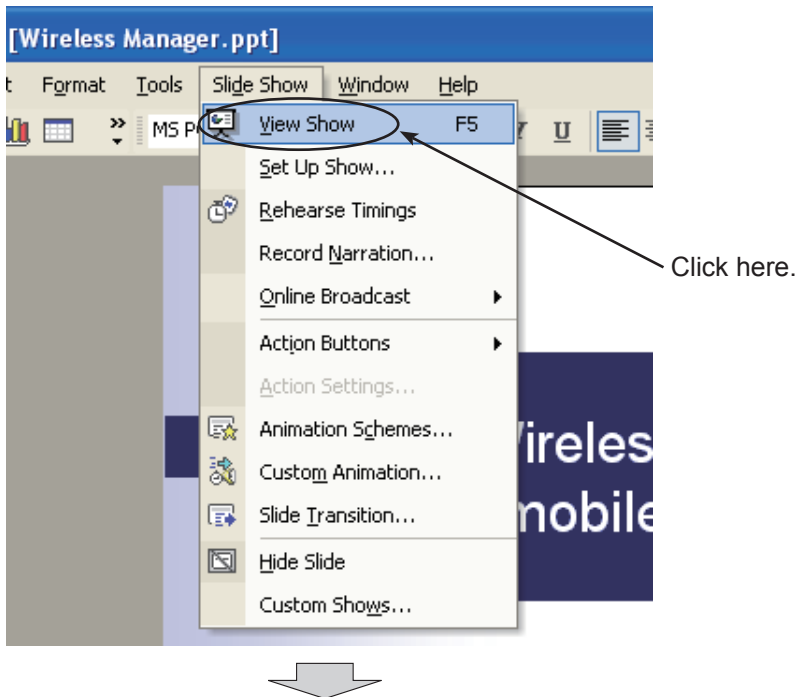


※1: This display may differ depending on the computer you are using.

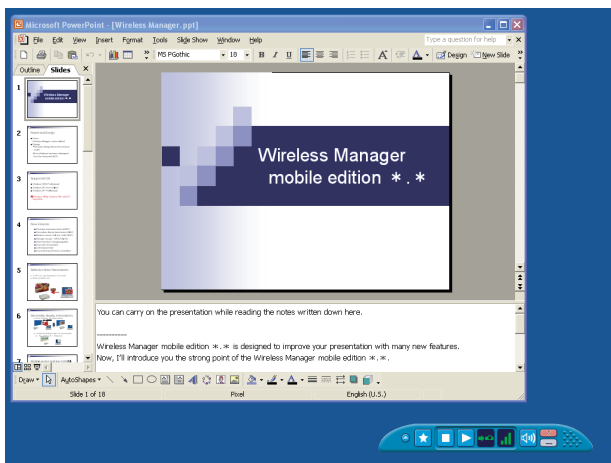
(→ Continued on next page)

Operating Procedures Using PowerPoint (Continued)

- 5** Click [Slide Show] → [View Show] to start the slide show.
The computer screen display remains the same while the slide show appears on the projector screen.



[Computer screen]



[Projector screen]



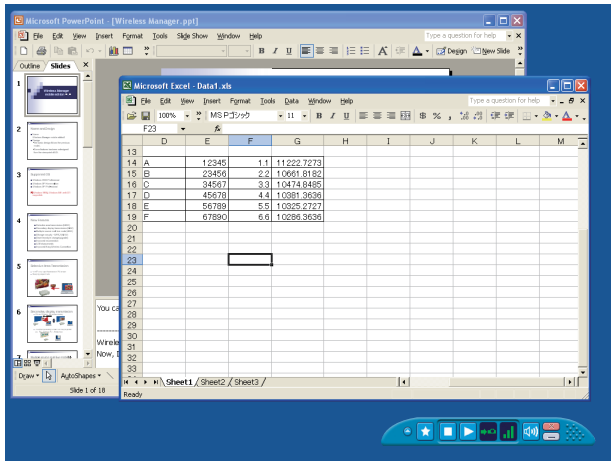
The slide show will remain displayed on the projector screen even if another application on the computer screen is started up, and regular Windows operations can be performed.

For example, follow the operating procedure on the next page to return to the slide show after starting up and displaying an additional document on Excel.

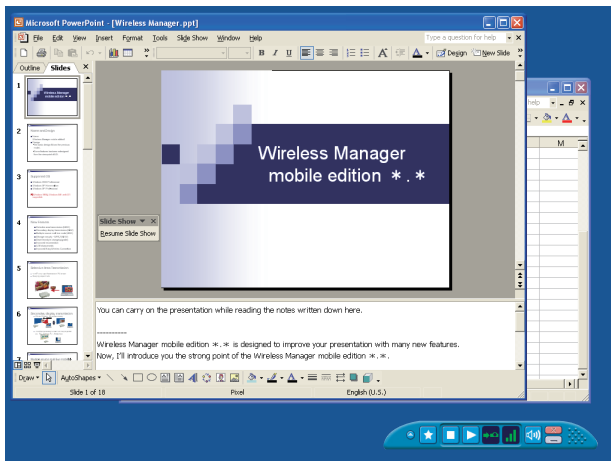
(→ Continued on next page)

Operating Procedures Using PowerPoint (Continued)

- 6 Start up Excel and open the additional document. You can refer to the Excel document while giving your presentation.

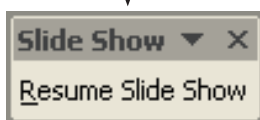
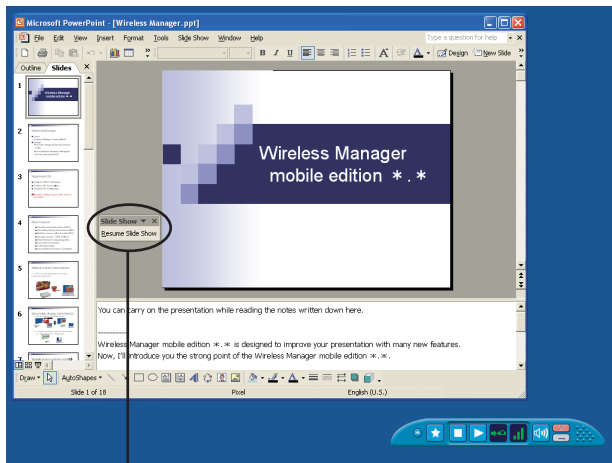


- 7 To move on with the slide show, click any visible part of the PowerPoint window to operate PowerPoint.



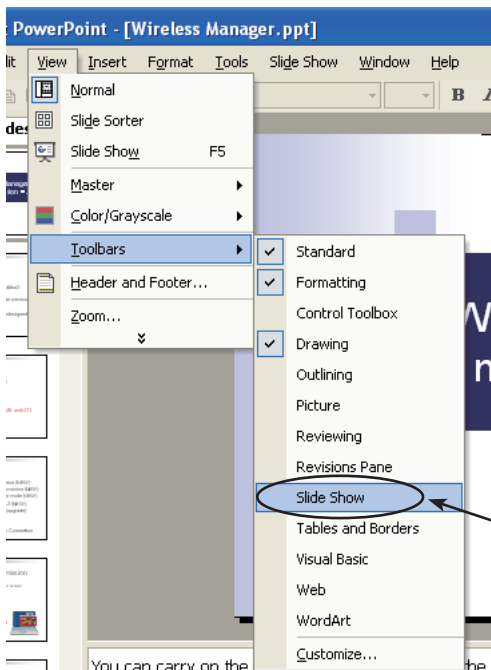
Operating Procedures Using PowerPoint (Continued)

- 8 The small “Slide Show” toolbar now appears on the PowerPoint screen. Click [Resume Slide Show] to restage the slide show.



Click here. (The position where this appears may differ depending on the computer.)

If the “Slide Show” toolbar fails to appear, select [View] → [Toolbars] → [Slide Show] in PowerPoint to display it.



Click here.

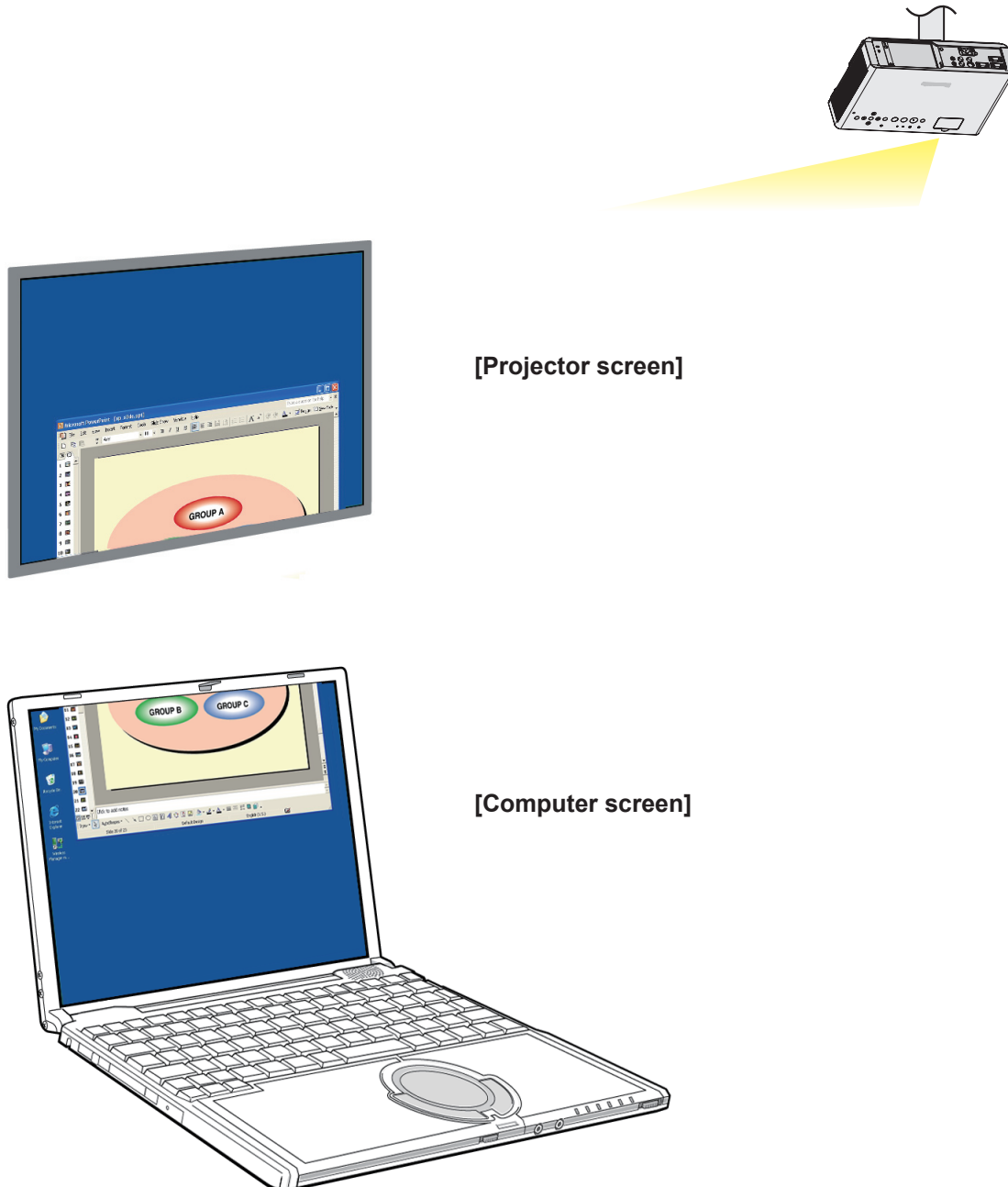
The slide show can now be restaged. Proceed with the slide show using the [↑], [↓], [Page Up] and [Page Down] keys.

Procedures for Displaying Different Applications

When giving presentations using programs other than PowerPoint, move the window manually to the projector screen, and proceed with operation.

Arrangement of displays in the initial condition



In the initial condition of Wireless Manager ME 5.0, the projector and computer screens are treated as a joint screen, with the projector screen as the top half of the joint screen.

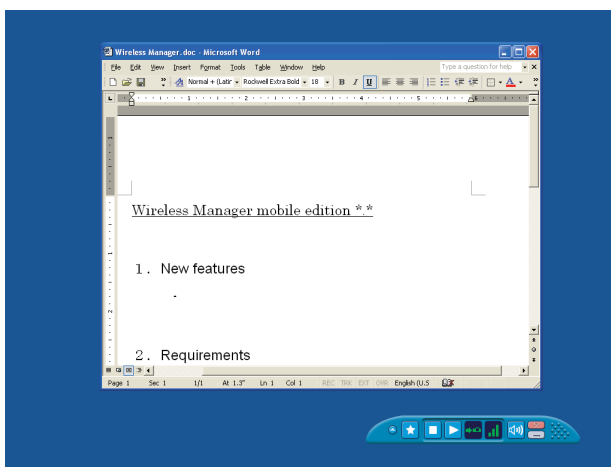


Procedures for Displaying Different Applications (Continued)

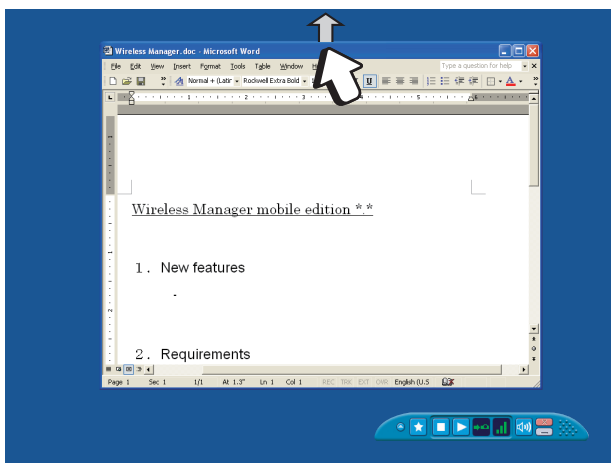
Moving the window between the displays

To move the application window that is displayed on the computer screen to the projector screen, follow the operating procedure below.

- 1 Start up Wireless Manager ME 5.0, and select the projector.
The launcher is displayed. Click [] at the far left to display the launcher menu.
- 2 Click [Display Switchover] → [Secondary], and click [].
(→ See pages 10-11, steps 2-4.)
- 3 Start up the application to be displayed on the projector screen (to be used for the presentation).
[Computer screen]



- 4 Press the left button of the mouse on the title bar of the application, and drag the window to the top of the screen.



Note

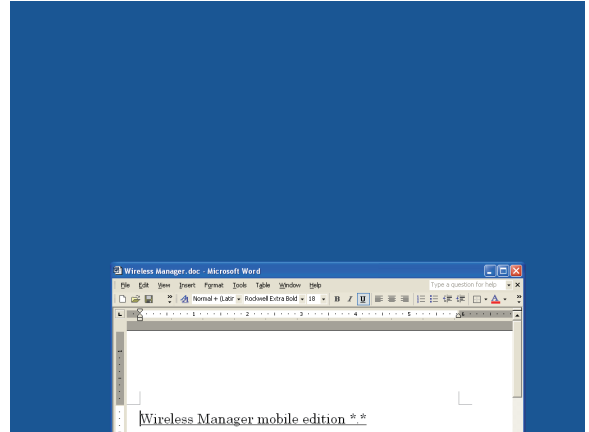
The application window cannot be moved if the window is maximized. If so, return the window to its original size and proceed.

(→ Continued on next page)

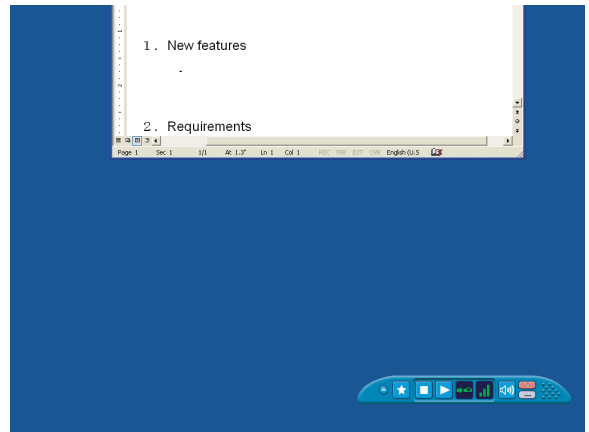
Procedures for Displaying Different Applications (Continued)

- 5** When the mouse pointer is moved beyond the top edge of the computer screen, the protruding part now appears on the projector screen.

[Projector screen]

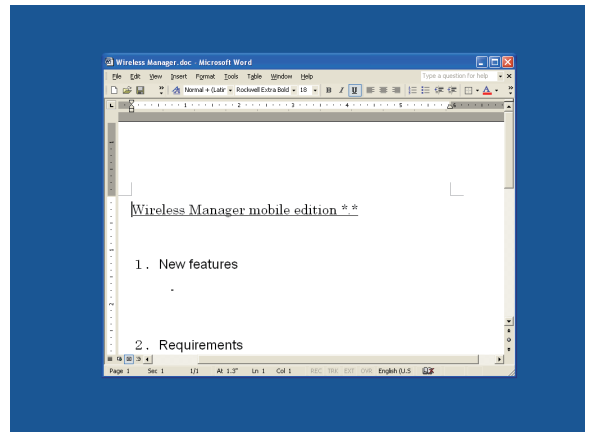


[Computer screen]

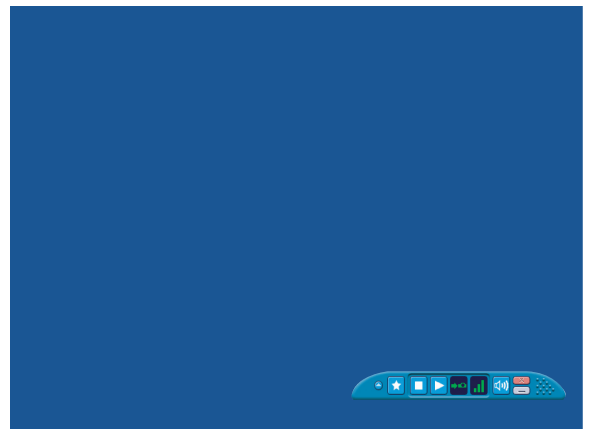


- 6** Keep moving the mouse pointer upward until the whole window appears on the projector screen. Release the mouse button once the whole window is displayed on the projector screen.

[Projector screen]



[Computer screen]

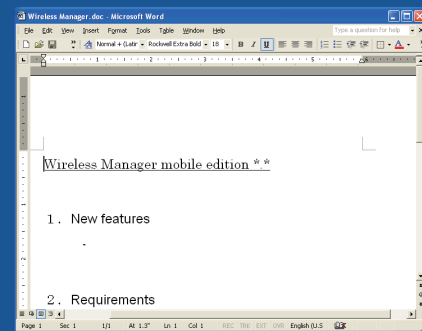


(→ Continued on next page)

Procedures for Displaying Different Applications (Continued)

- 7 Start the application you want to refer to on the computer screen only. Different applications can now be displayed on the computer screen and projector screen.

[Projector screen]



[Computer screen]

A screenshot of a Microsoft Excel spreadsheet. The data is organized in a table with columns labeled D through M and rows numbered 13 through 33. The table contains numerical data, including integers and decimal values.

	D	E	F	G	H	I	J	K	L	M
13										
14	A	12345	1.1	11222 7273						
15	B	23456	2.2	10561 8182						
16	C	34567	3.3	10474 8485						
17	D	45678	4.4	10381 8536						
18	E	56789	5.5	10325 8727						
19	F	67890	6.6	10269 8936						
20										
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30										
31										
32										
33										

To return the application that is displayed on the projector screen to the computer screen, press the left button of the mouse on the title bar of the application and drag the window toward the bottom of the screen.

Note

The mouse pointer can be moved freely on both the computer screen and projector screen. If it does not appear on one screen, it will appear on the other.

Procedures for Displaying Different Applications (Continued)

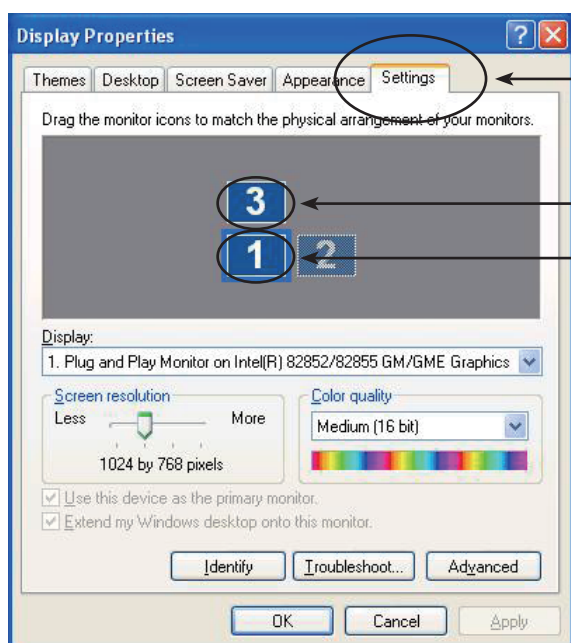
Changing the display arrangement

In the initial condition, the projector and computer screens are treated as a joint screen, with the projector screen as the top half of the joint screen. However, using “Display Properties”, the direction of the arrangement can be changed to your preference. To change from a top/bottom arrangement to a left/right arrangement, for instance, follow the operating procedure below.

- 1 Select [Start] → [Control Panel] → [Appearance and Themes] → [Display] to display the “Display Properties” window, and click the [Settings] tab.

Note

The “Display Properties” window can also be displayed by selecting [Properties] on the menu displayed by right-clicking the mouse on an empty part of the desktop.



Click the [Settings] tab to proceed.

Projector screen

Computer screen

On the “Display Properties” window:

[3] → Projector screen

[1] → Computer screen

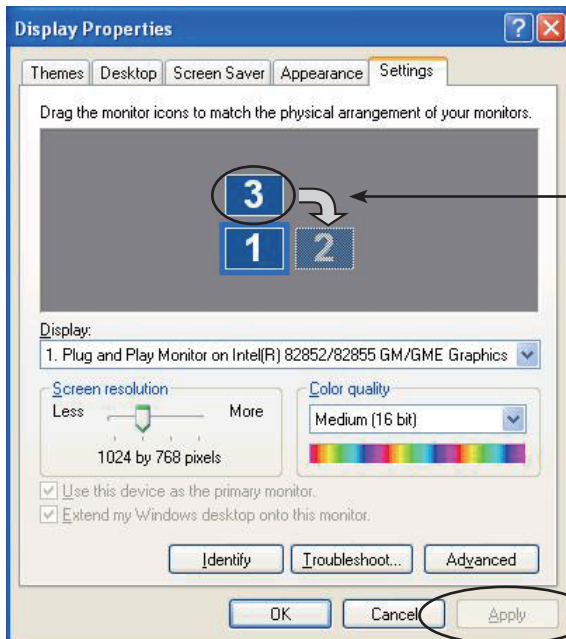
Note

[2] is the icon for the 2-screen display function that is provided originally with the computer and is used to connect an external unit to the computer through the RGB connectors. Depending on the computer, [2] may be allocated to the projector screen instead of [3].

(→ Continued on next page)

Procedures for Displaying Different Applications (Continued)

- 2** Press the left button of the mouse on [3], move the pointer between [1] and [2], release the mouse button (drag and drop), and click [Apply] or [OK].



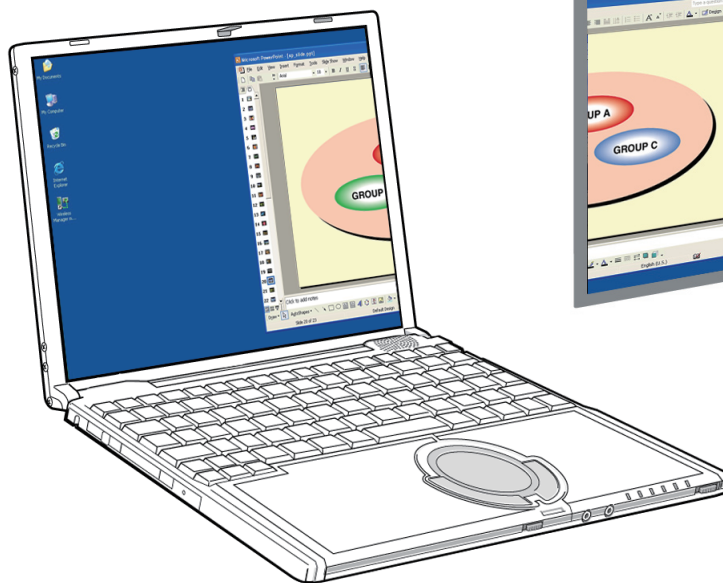
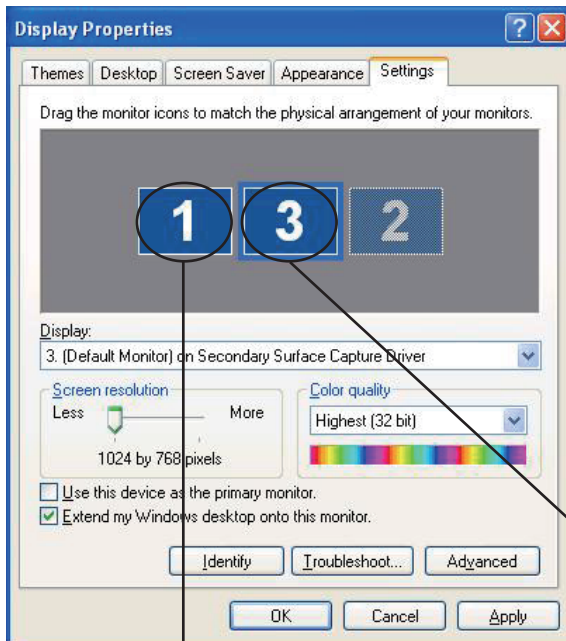
Keep the mouse button pressed when moving.

After moving [3], click this.

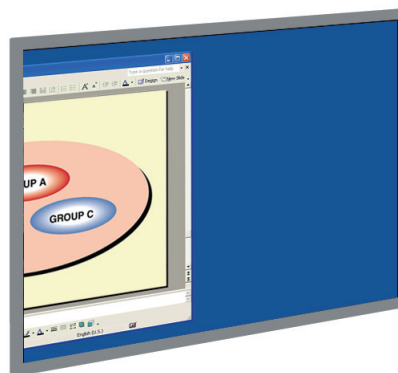
(→ Continued on next page)

Procedures for Displaying Different Applications (Continued)

- 3** The window is arranged with screen [1] on the left and screen [3] on the right. The actual computer screen and projector screen will also appear connected at the left and right.



[Computer screen]



[Projector screen]

Note

- The size of the projector screen is fixed at 1024 x 768, and cannot be changed.
- If the display arrangement is changed, these settings will be maintained even if the computer is shut down.

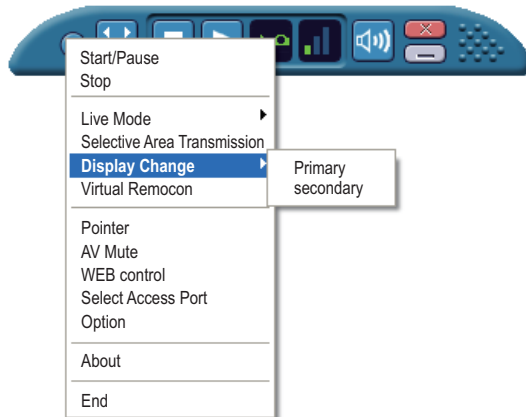
Q1 How can I use the secondary display transmission function?

When using the secondary display transmission function, it is necessary to connect the computer and the projector using wireless LAN or wired LAN or by using an RGB cable.

• Connecting with wireless LAN or Wired LAN

The video adapter card installed inside the computer does not have to support multi-displays.

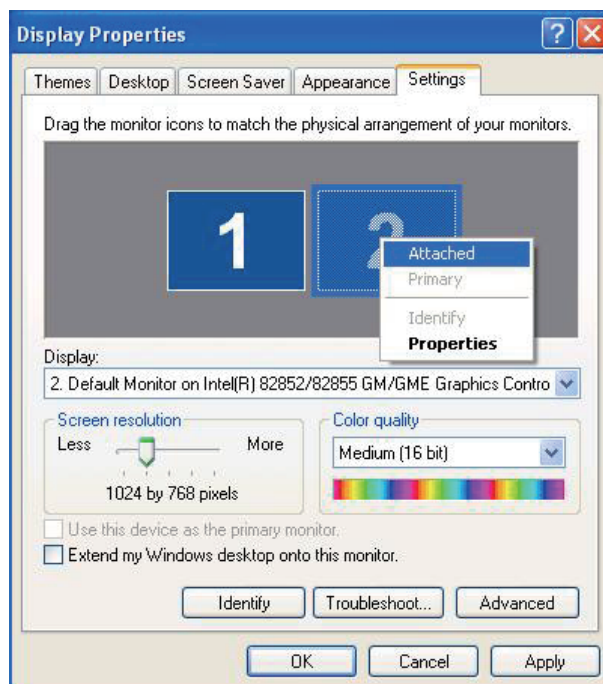
Only by clicking [Display Switchover] → [Secondary] on the launcher menu of the Wireless Manager ME 5.0 starting live mode can the secondary display transmission be used.



• Connecting with an RGB cable

The video adapter card installed inside the computer must support multi-displays (2-screen display function).

Connect the projector to the computer's RGB connectors using an RGB cable, select [Display Properties] → [Settings], right-click on [2] (secondary display), and select [Attached].



Q&A (Continued)

Q2 I can use the secondary display transmission function with wired LAN or an RGB cable connection, what is the merit for using wireless LAN connection?

By using a wireless LAN connection you are freed from the restrictions imposed by a cable connection.

Q3 Do I need any additional video adapter card to use the Secondary Display Transmission Function?

No additional video adapter card is required, provided that you use Wireless Manager ME 5.0.

Q4 Can I use the Secondary Display Transmission Function with any other models (in the PT-LB/PT-F/PT-FW series)?

Yes, you can use it with any model that supports the PT-LB/PT-F/PT-FW series network, as long as you can also use Wireless Manager ME 5.0.

Q5 In which modes can I use the Secondary Display Transmission Function?

You can use the function in any mode except One shot function.

However, when using Wireless Manager ME 5.0 in the “Installation free set up”, the secondary display transmission function cannot be used.

Q&A (Continued)

Q6 Why is it that the images displayed by the Secondary Display Transmission Function appear on the computer screen when the 4-screen or 16-screen index style is selected?

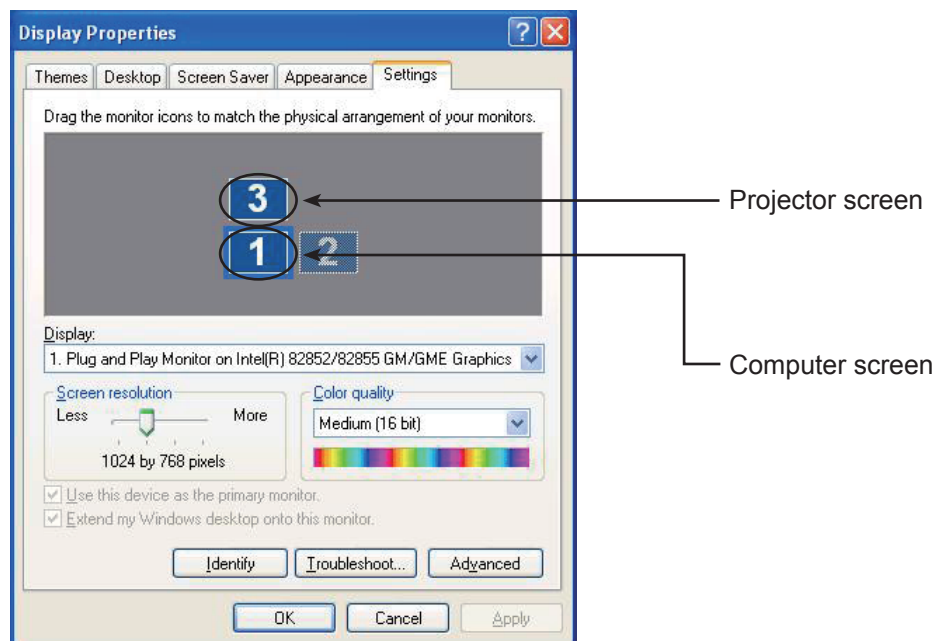
When the Secondary Display Transmission Function is used, different images can be displayed on the computer screen and projector screen. However, when an index style is selected, the images appearing on the projector screen are reduced in size, making operation more difficult. For this reason, what is shown on the projector screen is displayed on the computer screen as (though the application cannot be operated on) the “secondary viewer.”

Q7 What is the relationship between the positions of the projector screen and computer screen?

Under the initial settings, the projector screen is placed on top of the computer screen.

The reason for this arrangement is to prevent the unintended display of applications on the projector screen.

However, their positions can be changed freely for enhanced operational ease. (→ See page 25 for the operating procedure.)



Q&A (Continued)

Q8 What should I do when [Display Switchover] → [Secondary] on the launcher menu is displayed in gray and cannot be selected?

The Secondary Display Transmission Function cannot be used if Wireless Manager ME 5.0 is being used under the [Installation Free Set up] setting.

Q9 Will there be any problems if the Live mode is terminated at any time while an application is being displayed using the Secondary Display Transmission Function?

The application displayed on the projector screen would automatically be moved to the computer screen.

Q10 If I quit an application while it is displayed only on the projector screen, where will the window appear when I restart the application?

If the Secondary Display Transmission Function is used, the window would appear at its original position on the projector screen.

If the Secondary Display Transmission Function is not used, the window would normally appear on the computer screen. Some applications, however, may retain the positions when they were closed on the projector screen, and in its case, the window will not appear on the computer screen. Use the Secondary Display Transmission Function to move the window from the projector screen to the computer screen.

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.

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