Panasonic®

Supplementary Instructions
for Wireless LAN

This manual contains supplementary instructions regarding the use of the computer. It explains the cases where the operation of the computer differs from that in the Operating Instructions.
Your computer is equipped with Wireless LAN enabling you to communicate using radio frequencies.

For U.S.A.

Replace the "Federal Communications Commission Radio Frequency Interference Statement" (☞ Operating Instructions "Read Me First") with the following.

Federal Communications Commission Radio Frequency Interference Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the Panasonic Service Center or an experienced radio/TV technician for help.

Warning

To assure continued compliance, use only shielded interface cables when connecting to a computer or peripheral. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC RF Exposure Warning:

- This computer is provided with PC Card slots that could be used with wireless transmitter(s), which will be specifically recommended, when they become available. Other third-party wireless transmitter(s) have not been RF exposure evaluated for use with this computer and may not comply with FCC RF exposure requirements.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment must be installed and operated in accordance with provided instructions and minimum 1.5 cm spacing must be provided between antenna and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.
- This equipment may use multiple installed transmitters, which may be capable of simultaneous transmission.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: Matsushita Electric Corporation of America
One Panasonic Way
Secaucus, NJ 07094
Tel No:1-800-LAPTOP-5 (1-800-527-8675)

Information to the User

This product and your Health

This product, like other radio devices, emits radio frequency electromagnetic energy. The level of energy emitted by this product however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Because this product operates within the guidelines found in radio frequency safety standards and recommendations, we believe this product is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of this product may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

- Using this product on board of airplanes, or
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization or environment (e.g. airports), you are encouraged to ask for authorization to use this product prior to turning on the product.

Regulatory Information

We are not responsible for any radio or television interference caused by unauthorized modification of this product. The correction of interference caused by such unauthorized modification will be the responsibility of the user. We and its authorized resellers or distributors are not liable for damage or violation of government regulations that may arise from failing to comply with these guidelines.

Specifications

Wireless LAN module

Data transfer rates	IEEE802.11g : 54 Mbps/48 Mbps/36 Mbps/24 Mbps/18 Mbps/12 Mbps/9 Mbps/6 Mbps (automatically switched)
	IEEE802.11b : 11 Mbps/5.5 Mbps/2 Mbps/1 Mbps (automatically switched)
Standards supported	IEEE802.11g/IEEE802.11b
Transmission method	OFDM system, DSSS system
Wireless channels used	Channels 1 to 11
RF frequency band	2.412 GHz ~ 2.462 GHz

Wireless LAN

If you use a wireless LAN, you can use a network without cable connections.

CAUTION

- Communication is performed through the wireless LAN antenna. Do not block the antenna area with your hand or otherwise interfere with the passage of the radio signals.

NOTE

- The communication speeds and distances differ depending on the devices that support the wireless LAN, the installation environment and other ambient conditions.
- One characteristic of radio waves is that their transmission rate tends to drop as the communication distance increases. It is recommended that the devices supporting the wireless LAN be used in close vicinity to each other.
- The rate may drop while a microwave oven is being used.

Windows XP

- Do not use the Fast User Switching function.

Precautions

■ Do not use wireless LAN on airplanes, in hospitals, or in other locations where wireless LAN signals may affect the operation of devices in the vicinity.

- If you intend to use the computer in the environments described above, turn the wireless LAN off using the following method:

  1. Double-click  or  on the taskbar.
  2. Select your wireless LAN adaptor and select [General].
  3. Select [Off] for [Switch radio].
  4. Select [OK].

     The icon will turn to  .

■ To prevent theft of data or unauthorized access to the hard disk via a wireless LAN.

- If you plan to use wireless LAN functions, we recommend that you do so only after making the appropriate security settings, such as for data encryption.

■ We recommend turning the wireless LAN off when it is not used or out of range.

- If you leave the wireless LAN on, the battery's operating time is shortened.

The Settings

To use the wireless LAN, set the profile using the following procedure.
The settings will vary for different network environments depending on the network system being used. For more details, ask your system administrator or the person in charge of the network.

CAUTION

- Set profiles for each user using the following procedure.

NOTE

Windows XP

- If [Windows XP is currently configured to manage the Intel(R) PRO/Wireless LAN adaptor.] is displayed, select [Yes].

Windows 2000

- After setting the profile, delete the profile displayed at the time of purchase (profile name: Default).

1. Double-click  on the taskbar.
2. Select your wireless LAN adapter and select [General].
3. Select [On] for [Switch radio].

4 Select [Networks] and select [Add].

5 Enter the profile name and network name (SSID), and then make other necessary changes, then select [Next].

6 Make necessary changes and select [Finish].

7 Select [OK].

NOTE

- About WLAN Security Client
  WLAN Security Client is an implementation of the client side of the IEEE 802.1X-Port Based Network Access Control protocol.
  - Since the WLAN Security Client has already started when is displayed on the taskbar, do not double-start it. If is not displayed, start up the WLAN Security Client in the following menu.
    Windows XP
    Select [Start] - [All Programs] - [Intel] - [WLAN Security Client Manager].
    Windows 2000
    Select [Start] - [Programs] - [Intel] - [WLAN Security Client Manager].
  - For more information about how to use the WLAN Security Client, refer to [Help] in the menu bar or;
    Windows XP
    Select [Getting Started Guide] or [User's Guide] in [Start] - [All Programs] - [Intel].
    Windows 2000
    Select [Getting Started Guide] or [User's Guide] in [Start] - [Programs] - [Intel].

Check the Communication Status

Select or on the taskbar to check the communication status.

For more information about how to use the Intel PROSet, refer to [Help] in the menu bar.

If the function fails to operate correctly

Read the operating instructions for the access point carefully and check the settings.

■ The access point fails to be displayed in [Available Networks]

- Select the profile you are using, and select [Advanced] in [Networks]. [Connect to ad hoc networks only] may have been selected in [Connection preference]. In this case, select [Connect to infrastructure and ad hoc networks].
- This computer uses channels 1 through 11[*1]. Check the channel being used.

[*1] In the case of wireless communications, the frequency band being used can be divided into segments, so that different communications can be conducted on each band segment. A "Channel" refers to the individual frequency bandwidth divisions.

■ The access point cannot be accessed

- The network key setting may not conform to the access point.
  Check the network key setting of the access point and, if necessary, set it again correctly.
- Depending on the access point and settings, access may not be accepted unless the computer's MAC address is registered beforehand. In this case, check the computer's MAC address using the following procedure and register it according to the operating instructions of the access point.

  1. Display [Command Prompt].
     Windows XP
     Select [Start] - [All Programs] - [Accessories] - [Command Prompt].
     Windows 2000
     Select [Start] - [Programs] - [Accessories] - [Command Prompt].
  2. Input [ipconfig /all], and press **Enter**.
  3. Make a note of the 12-digit string of alphanumerics displayed on "Physical Address" line on Wireless LAN side. Then input [exit], and press **Enter**.

■ The IP address of the access point is wrong

- Following the operating instructions of the access point, set the IP address of the access point again correctly.