

NEC



Thin Client US310e



Keep this document nearby so that you may refer to it as necessary.
Be sure to read this guide carefully.

This document provides information required to use your product safely and properly.







Follow the instructions in this guide for the safe use of US310e.

This document describes hazardous parts of US310e, possible hazards, and how to avoid them.


In the guide, **WARNING** or **CAUTION** is used to indicate a degree of danger. These terms are defined as follows:

 WARNING	Indicates there is a risk of death or serious personal injury
 CAUTION	Indicates there is a risk of burns, other personal injury, or property damage






Precautions and notices against hazards are presented with one of the following three symbols. The individual symbols are defined as follows:

	Attention	This symbol indicates the presence of a hazard if the instruction is ignored. An image in the symbol illustrates the hazard type.	Example  Electric shock risk
	Prohibited action	This symbol indicates prohibited actions. An image in the symbol illustrates a particular prohibited action.	Example  Do not disassemble
	Mandatory action	This symbol indicates mandatory actions. An image in the symbol illustrates a mandatory action to avoid a particular hazard.	Example  Disconnect a plug







A label example used in this document

Symbol to draw attention	Description of a warning	Term indicating a degree of danger
	Plug in to a proper power source. Use a proper wall outlet of the specified voltage. Use of an improper power source may cause a fire or an electric leakage.	WARNING




Attention

	Indicates that improper use may cause an electric shock.
	Indicates that improper use may cause fumes or fire.
	Indicates that improper use may cause an explosion.
	Indicates that improper use may cause personal injury.
	Indicates a general notice or warning that cannot be specifically identified.

Prohibited actions


	Do not disassemble, repair, or modify US310e. Otherwise, an electric shock or fire may be caused.
	Do not touch the component specified by this symbol. Otherwise, an electric shock or burn may be caused.
	Do not place US310e near a fire. Otherwise, a fire may be caused.
	Do not touch the US310e with wet hand. Otherwise, an electric shock may be caused.
	Keep water or liquid away from US310e. Otherwise, an electric shock or a fire may be caused.
	Indicates a general prohibited action that cannot be specifically identified.

Mandatory action


	Unplug the power cord of US310e. Otherwise, an electric shock or fire may be caused.
	Be sure to provide earthing. Otherwise, an electric shock or fire may be caused.
	Indicates a mandatory action that cannot be specifically identified. Make sure to follow the instruction.

Safety notes


General

 **Do not use US310e for services which may directly affect human lives and that critically high reliability is required.**

Your US310e is not intended to be used with or control facilities or devices concerning human lives, including medical devices, nuclear facilities and devices, aeronautics and space devices, transportation facilities and devices; and facilities and devices requiring high reliability. NEC assumes no liability for any accident resulting in personal injury, death, or property damage if US310e has been used in the above conditions.

 **Do not use US310e if any smoke, odor, or noise is present.**

If smoke, odor, or noise is present, immediately turn off US310e and disconnect the power plug from the outlet, then contact your maintenance service representative. Using US310e in such conditions may cause a fire.

 **Do not insert needles or metal objects.**

Do not insert needles or metal objects into ventilation holes or the USB connector. Doing so may cause an electric shock.

CAUTION



Keep water or foreign matter away from US310e.

Do not let any liquid such as water or foreign materials including pins or paper clips enter US310e. Failure to follow this warning may cause an electric shock, a fire, or failure of US310e. When such things accidentally enter US310e, immediately turn off the power and disconnect the power plug from the outlet. Do not disassemble US310e, and contact your maintenance service company.

Power supply and power cord use

⚠ WARNING



Do not hold the power plug with a wet hand.

Do not disconnect/connect the plug while your hands are wet.
Failure to follow this warning may cause an electric shock.

CAUTION



Plug in to a proper power source.

Use a proper wall outlet with the specified voltage. Use of an outlet with a voltage other than that specified may cause a fire or an electric leakage.

Do not install US310e in any environment that requires an extension cord. Connecting to an outlet that does not meet the power specifications of US310e causes overheating, resulting in a fire.



Do not connect many power cords into a single outlet by using extension cords.

The electric current exceeding the rated flow overheats the outlet, which may cause a fire.



Insert the power plug into the outlet as far as it goes.

Heat generation resulting from a halfway inserted power plug (imperfect contact) may cause a fire. Heat will also be generated if condensation is formed on dusty blades and causes the short circuit. The heat may result in fire.





Use the authorized power cord only.



Use only the power cord that comes with US310e. Use of an electric current exceeding the rated current flows, it could cause a fire.

Also, observe the following precautions to prevent an electric shock or fire caused by a damaged cord.



- Do not stretch the cord harness.
- Do not bend the power cord.
- Do not twist the power cord.
- Do not step on the power cord.
- Uncoil the power cord before use.
- Do not pinch the power cord.
- Keep chemicals away from the power cord.
- Do not place any object on the power cord.
- Do not alter, modify, or repair the power cord.
- Do not secure the power cord with staples or equivalents.
- Do not use a damaged power cord. (Replace a damaged power cord with a new one of the same specifications. Ask your maintenance service representative for replacement.)


⚠ CAUTION	
	<p>Do not use the attached power cord for any other devices or usage.</p> <p>The power cord that comes with US310e is designed aiming to connect with US310e, and its safety has been tested. Do not use the attached power cord for any other purpose. Doing so may cause a fire or an electric shock.</p>
	<p>Do not unplug the power cord by holding the cable part.</p> <p>Pull the power cord straight out by holding the plug. Pulling the power cord by holding the cable part or applying extra pressure to the connector may damage the cable part, which may cause a fire or electric shock.</p>

Installation, relocation, storage, and connection






⚠ CAUTION	
	<p>Do not install US310e in any place other than specified.</p> <p>Do not install US310e in the following places or any place other than specified in this guide. Failure to follow this instruction may cause a fire.</p> <ul style="list-style-type: none"> ■ a dusty place ■ a humid place such as near a boiler ■ a place exposed to direct sunlight ■ an unstable place
	<p>Do not use US310e in an environment where corrosive gas is present.</p> <p>Do not install US310e in a place subject to corrosive gases including sodium chloride, sulfur dioxide, hydrogen sulfide, nitrogen dioxide, chlorine, ammonia, or ozone.</p> <p>Do not install US310e in an environment that contains dust, chemicals that accelerate corrosion such as NaCl or sulfur, or conductive materials. Failure to follow this warning may cause the wiring on the printed wiring board to short-circuit, leading to fire.</p> <p>If you have any questions, contact the store where you purchased the product or a maintenance service company.</p>

Battery unit




⚠ WARNING	
	<p>Do not put a battery in fire.</p> <p>Putting the battery in fire or heating the battery may cause an explosion.</p>
	<p>Do not disassemble or alter the battery unit.</p> <p>Do not disassemble or alter the battery unit. Doing so may cause an explosion or a liquid leakage. The quality, performance, and/or safety of the disassembled or altered battery unit will not be guaranteed.</p>

⚠ CAUTION	
	<p>Keep the battery in the place away from children and babies.</p> <p>The toxic substance contained in the battery is harmful if it is taken into the body by mistake. Consult your doctor immediately if it is swallowed.</p>



During operation

⚠ CAUTION	
	<p>Avoid contact with US310e during thunderstorms.</p> <p>Disconnect the power plug from the outlet when a thunderstorm is approaching. If it starts thundering before you disconnect the power plug, do not touch any part of US310e including the cables. Failure to follow this warning may cause a fire or an electric shock.</p>
	<p>Keep pet animals away from US310e.</p> <p>Keep animals such as pets away from US310e. Pet hair or other waste enters US310e, which may cause a fire or electric shock.</p>
	<p>Do not block the ventilation opening.</p> <p>The internal temperature rises, and it may cause the fumes and/or fire.</p>
	<p>Take off the headphone before you plug in the headphone jack.</p> <p>Take off the headphone before you plug in the headphone jack. Failure to follow this warning may cause damage to your ears. Check if the sound volume is appropriately controlled before connection.</p>
	<p>Pay attention to the ventilation opening.</p> <p>The temperature of the ventilation opening and its periphery is higher than the room temperature. Exposing yourself to exhaust from the ventilation opening may cause a low temperature burn. Special care must be taken if you have sensitive skin.</p>

Wireless features

⚠ WARNING	
	<p>Keep US310e at least 30 cm away from the internal artificial cardiac pacemaker.</p> <p>Pay attention to use US310e at the place at least 30 cm away from the internal artificial cardiac pacemaker. The internal artificial cardiac pacemaker may be influenced by the radio wave.</p>
	<p>Turn off the power or wireless communication features of US310e in a place where use of US310e is prohibited.</p> <p>Turn off the power or wireless communication features of US310e in a place where use of US310e is prohibited (e.g., medical treatment facility).</p> <p>If any medical equipment is being used near US310e, turn off the power or wireless communication features of US310e even though the use of US310e is not prohibited. The medical equipment may be influenced and cause an accident. For more information, ask the relevant medical treatment facility.</p>
	<p>Turn off the wireless communication features of US310e if US310e cause the radio interference.</p> <p>If your US310e causes the radio interference to any other equipment, immediately turn off the power or wireless communication features of US310e. The equipment may be influenced and cause an accident due to malfunction.</p>

Cleaning and working with internal devices

⚠ WARNING	
	<p>Do not disassemble, repair, or alter US310e.</p> <p>Never attempt to disassemble, repair, or alter US310e on any occasion. Failure to follow this instruction may cause an electric shock or fire as well as malfunctions of US310e.</p>
	<p>Disconnect the power plug before working with US310e.</p> <p>Make sure to power off US310e and disconnect the power plug from a power outlet before cleaning, attachment or connecting/disconnecting internal cables. Touching any internal component of US310e with its power cord connected to a power source may cause an electric shock even if US310e is off-powered.</p> <p>Disconnect the power plug from the outlet occasionally and clean the plug with a dry cloth. Heat will be generated if condensation is formed on a dusty plug, which may cause a fire.</p>

Transfer and disposal

- **Transfer to third party**
To transfer (or sell) US310e to a third party, be sure to provide this document, all the accessories including license agreement along with US310e.
- **Disposal**
As for disposal of US310e and battery, follow all national laws and regulations. Of the details, consult with your service representative.

Setup procedure

This guide describes the procedures from removing the thin client from its box to getting it ready for use. Perform these procedures according to the instructions in this guide.

* When UWF is enabled, the settings specified in Steps 6 to 8 are lost after the terminal is restarted. (In US310e, UWF is enabled by default.)

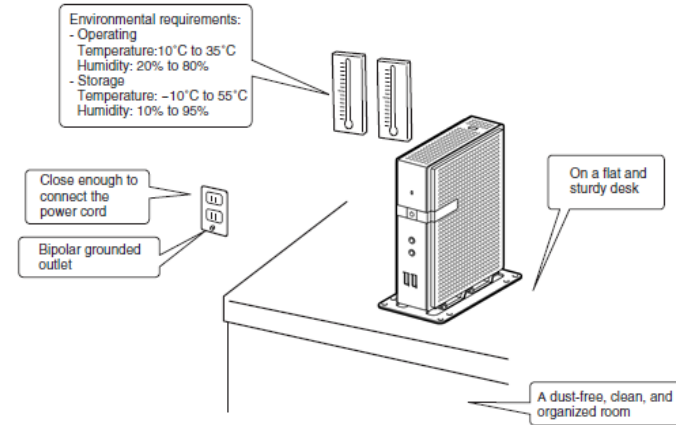
Step 1 Check the accessory box

- US310e
- AC adapter
- Getting Started (this document)
- End user license
- DVI-VGA adapter

Step 2 Install US310e

Decide where to locate US310e.

For details, see *Chapter 1, "3. Installation and Connection"* in the User's Guide.

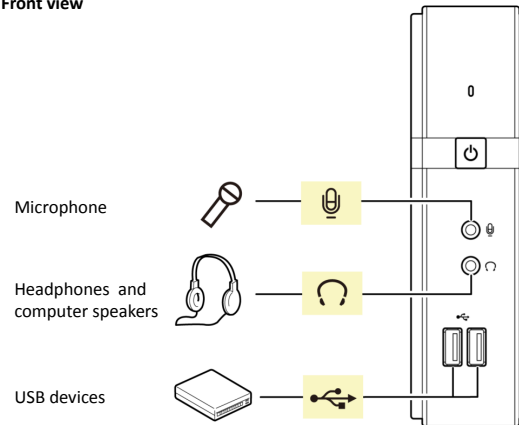


Step 3 Connect the cables

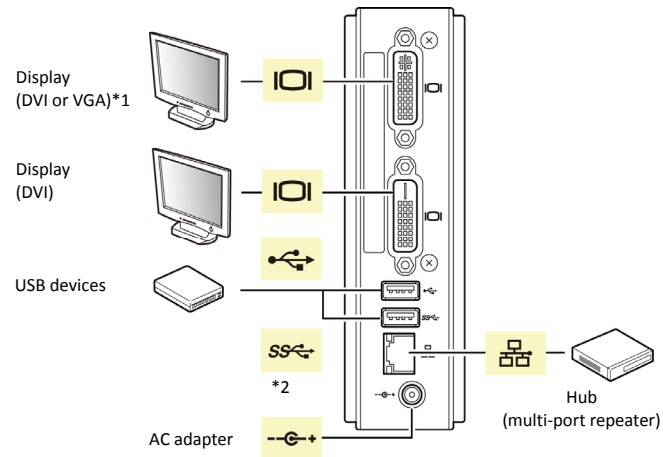
Connect cables to US310e.

For details, see *Chapter 1, "3. Installation and Connection"* in the User's Guide.

Front view



Rear view

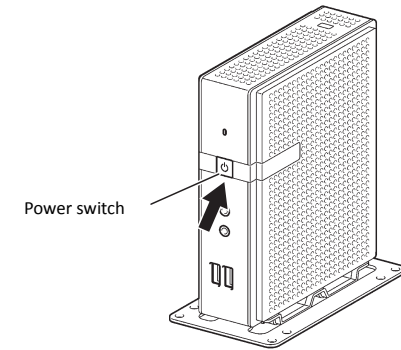


*1. Use the supplied DVI-VGA adapter to connect a display that uses a VGA interface.

*2. The USB 3.0 port is disabled by the factory default settings.

Step 4 Turn on US310e

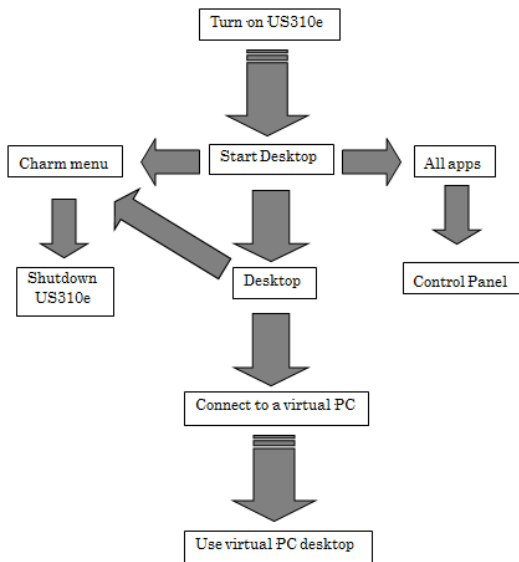
Press the power switch to turn on US310e.



Step 5 Understand basic operations

You can perform basic operations on US310e by using the program for connecting to the virtual PC, which can be launched from a shortcut icon on the desktop, and tools on Control Panel.

- When US310e is turned on, the Start screen appears. From the Start screen you can open the desktop and connect to a virtual PC from a shortcut icon on the desktop.
- To change the settings of US310e, use the tools on Control Panel. Open Control Panel by clicking **Start, Apps, Windows System** and then **Control Panel**.
- US310e can be turned off from the Charm Bar. On the Charm Bar, click **Settings, Power** and then **Shut down**.
- Automatic logon to a user desktop is enabled on US310e by default. The default user name is "User", and the password is "User".

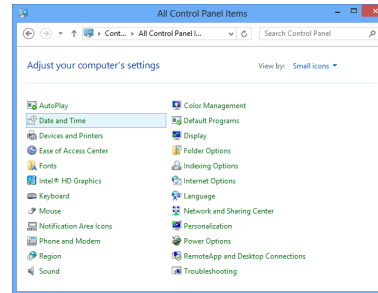


Step 6 Set the date and time

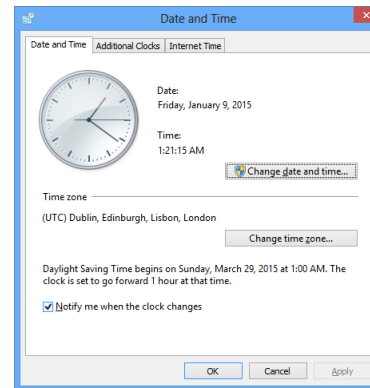
Set the date and time as described below.

* Time server settings cannot be changed from a user account.

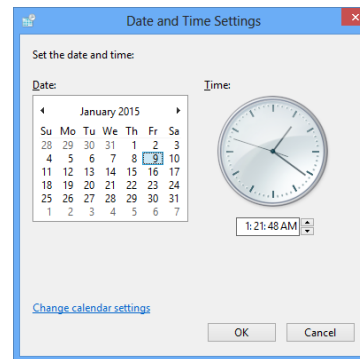
1. Turn on US310e.
2. Click **Start, Apps, Windows System**, and then **Control Panel**.
3. On Control Panel, click **Date and Time**.



4. Click **Change date and time**.



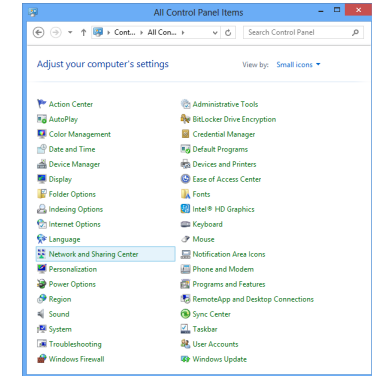
5. Set the date and time, and click **OK**.



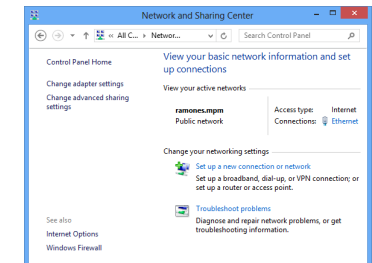
Step 7 Configure the network

By default, the **Obtain an IP address automatically** option is selected as the network setting. To change the configuration, perform the following:

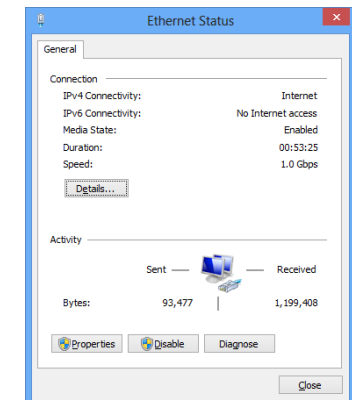
1. Determine the network to which US310e is connected, and connect an appropriate LAN cable to US310e.
2. Turn on US310e and log on as an administrator.
* For how to log on as an administrator, see *Chapter 2, "3.1. Switching the Sign-In User"* in the User's Guide.
3. Click **Start, Apps, Windows System**, and then **Control Panel**.
4. On Control Panel, click **Network and Sharing Center**.



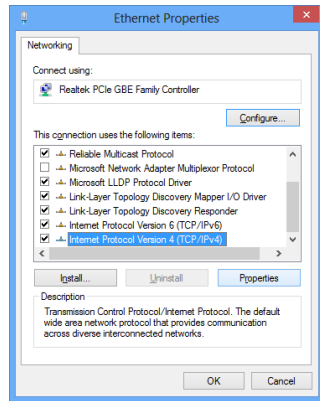
5. Click **Ethernet**.



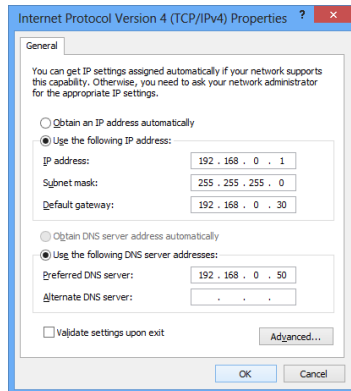
6. On the **General** tab, click the **Properties** button.



7. Select **Internet Protocol Version 4 (TCP/IPv4)** and click **Properties**.



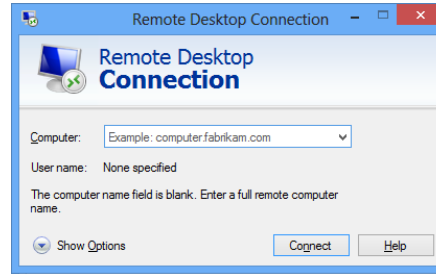
8. Specify the IP address, subnet mask, default gateway, DNS server, and other settings appropriate to your network environment. Click **OK**.



Step 8 Configure the virtual PC connection

Configure the virtual PC to be connected by using Remote Desktop Connection, which can be launched from a shortcut icon on the desktop.

1. Sign in to US310e and launch **Remote Desktop Connection** from its shortcut icon on the desktop.
2. In the **Computer** box, type the computer name or the IP address of the virtual PC to be connected.

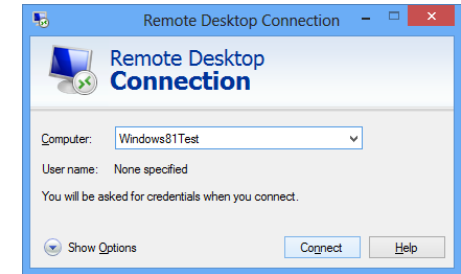


- * To configure the virtual PC in detail, click the **Show Options** button and configure the relevant settings.
- * To connect to a Citrix server, launch **Citrix Receiver** from its shortcut icon on the desktop and specify the connection destination.
- * To connect to a VMware Horizon View environment, launch **VMware Horizon View Client** from its shortcut icon on the desktop and specify the connection destination.

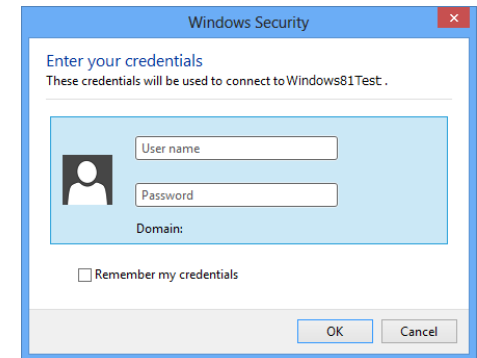
Step 9 Connect to the virtual PC

Connect to the virtual PC based on the settings you specified in Step 8.

1. Launch **Remote Desktop Connection**, confirm that the computer name or IP address is displayed, and then click the **Connect** button.



2. The network level authentication dialog box is displayed. Enter **User name**, **Password** and **Domain**, then click **OK**.

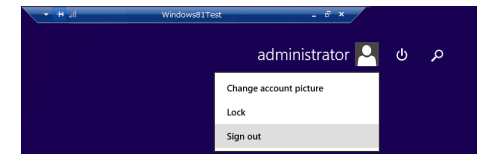


* If network level authentication is disabled, the network level authentication dialog box is not displayed and instead the virtual PC sign in or logon screen is displayed.

3. After sign in or logon, you can use the programs installed in the virtual PC.

Step 10 Log off from the virtual PC

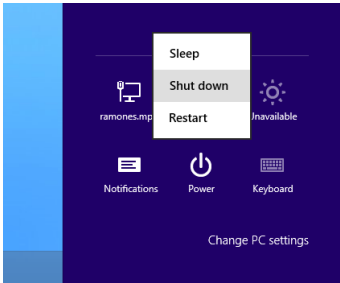
After finishing your work on the virtual PC, sign out or log off from the virtual PC.



When you log off from the virtual PC, the US310e desktop appears.

Step 11 Shut down US310e

On the US310e Charm Bar, click **Settings**, **Power** and then **Shut down**.



Configuration of the thin client completes with the above mentioned procedures.

Sudden voltage drop prevention

This product may be affected by sudden voltage drops caused by lightning, etc. To prevent sudden voltage drops, an AC uninterruptible power supply (UPS) unit should be used.

FCC Statement:

This equipment has been tested and found to comply with the limits for either Class A or Class B digital devices, 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 the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interconnect cables and shielded AC power cable must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

Industry Canada Class B Emission Compliance Statement/
Avis de conformité à la réglementation d'Industrie Canada:

CAN ICES-3(B)/NMB-3(B)

WEEE Directive



Disposing of your used product

In the European Union

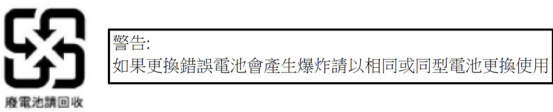
EU-wide legislation as implemented in each Member State requires that used electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes Information and Communication Technology (ICT) equipment or electrical accessories, such as cables or DVDs.

When disposing of used products, you should comply with applicable legislation or agreements you may have. The mark on the electrical and electronic products only applies to the current European Union Member States.

Outside the European Union

If you wish to dispose of used electrical and electronic products outside the European Union, please contact your local authority and ask for the correct method of disposal.

台灣電池規制 (廢棄物清理法)



Turkish RoHS information relevant for Turkish market

EEE Yönetmeliğine Uygundur

Vietnam RoHS information relevant for Vietnam market

Complying with “CIRCULAR, No.30/2011/TT-BCT (Hanoi, August 10 2011), Temporary regulations on content limit for certain hazardous substances in electrical products”

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