

LT1423pwCA Wide Touch Monitor User's Guide



Product numbers 60AC-UAR2-WW

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Safety information

General Safety guidelines

For tips to help you use your computer safety, go to:

http://www.lenovo.com/safety

Before installing this product, read the Safety Information.

Antes de instalar este produto, leia as Informações de Segurança.

在安装本产品之前,请仔细阅读 Safety Information (安全信息)。

Prije instaliranja ovog proizvoda obavezno pročitajte sigurnosne upute.

Před instalací tohoto produktu si přečtěte příručku bezpečnostních instrukcí.

Læs sikkerhedsforskrifterne, før du installerer dette produkt. Ennen kuin asennatt ämän tuotteen, lue turvaohjeet kohdasta Safety Information. Avant d'installer ce produit, lisez les consignes de sécurité. Vor der Installation dieses Produkts die Sicherheitshinweise lesen.

Πριν εγκαταστήσετε το προϊόν αυτό, διαβάστε τις πληροφορίες ασφάλειας (safety information).

לפני שתתקינו מוצר זה, קראו את הוראות הבטיחות.

A termék telepítése előtt olvassa el a Biztonsági előírásokat!

Prima di installare questo prodotto, leggere le Informazioni sulla Sicurezza.

製品の設置の前に、安全情報をお読みください。

본 제품을 설치하기 전에 안전 정보를 읽으십시오.

Пред да се инсталира овој продукт, прочитајте информацијата за безбедност.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften. Les sikkerhetsinformasjonen (Safety Information) før du installerer dette produktet.

Przed zainstalowaniem tego produktu, należy zapoznać się z książką "Informacje dotyczące bezpieczeństwa" (Safety Information).

Antes de instalar este produto, leia as Informações sobre Segurança.

Перед установкой продукта прочтите инструкции по технике безопасности.

Pred inštaláciou tohto produktu si prečítajte bezpečnostné informácie.

Pred namestitvijo tega proizvoda preberite Varnostne informacije.

Antes de instalar este producto lea la información de seguridad. Läs säkerhetsinformationen innan du installerar den här produkten.

សូមអានពត៌មានល្អិតល្អន់ មុនពេលចាប់ផ្តើមបញ្ចូលកម្មវិធី

安装本產品之前,請先閱讀「安全資訊」。

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Safety and Maintenance Guidelines

Important Safety Information

The power cord is designed for use with your monitor. To use a different cord, use only a power source and connection compatible with this monitor.



CAUTION: To protect your monitor, as well as your computer, connect all power cords for your computer and its peripheral devices (such as a monitor, printer, or scanner) to a surge protection device such as a power strip with surge protection or uninterruptible power supply (UPS).

Not all power strips provide surge protection; the power strips must be specifically labeled as having this ability. Use a power strip whose manufacturer offers a damage replacement policy, so you can replace your equipment if surge protection fails.



CAUTION: A certified power supply cord has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. A certified power supply cord not lighter than ordinary polyvinyl chloride flexible cord according to IEC 60227 (designation H05VV-F 3G 0.75mm² or H05VVH2-F2 3G 0.75mm²) shall be used. Alternative a flexible cord be of synthetic rubber.

Safety Precautions

- To prevent electric shock, do not remove enclosure, no user-serviceable parts inside.
- To protect your monitor, please do use this power adapter: PI Electronics (H.K) Ltd./ 51J0249.

Maintenance Guidelines

To enhance the performance and extend the life of your monitor:

- Do not open your monitor cabinet or attempt to service this product yourself. If your monitor is not operating properly or has been dropped or damaged, contact your Lenovo authorized dealer, reseller, or service provider.
- Adjust only those controls that are described in the operating instructions.
- Turn your monitor off when not in use. You can substantially increase the life expectancy of the monitor by using a screen saver program and turning off the monitor when not in use.
- Keep your monitor in a well-ventilated area, away from excessive light, heat, or moisture.
- Slots and openings in the cabinet are provided for ventilation. These openings must not be blocked or covered. Never push objects of any kind into cabinet slots or other openings.
- Unplug the monitor from the power outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
- Do not drop the monitor or place it on an unstable surface.
- When removing the monitor base, you must lay the monitor face down on a soft area to prevent it from getting scratched, defaced, or broken.

The monitor is intended to be powered by the PC/Laptop USB3.0 output, and the PC/Laptop will be IEC60950-1 approved, where the USB3.0 outputs comply with LPS requirement.

Cleaning the Monitor

The monitor is a high-quality optical device that requires special care when cleaning. To clean the monitor, follow these steps:

- 1. Turn off the computer and the monitor.
- 2. Unplug your monitor from the power outlet before cleaning.



CAUTION: Do not use benzene, thinner, ammonia, or any volatile substance to clean the monitor screen or cabinet. These chemicals may damage the monitor. Do not use liquid or aerosol cleaners. Never user water to clean an LCD screen.

- Wipe the screen with a dry, soft, clean cloth.If the screen requires additional cleaning, use an antistatic screen cleaner.
- 4. Dust the monitor housing. Use a damp cloth to clean the cabinet.
 If the cabinet requires additional cleaning, use a clean cloth dampened with isopropyl alcohol.
- 5. Plug in the monitor.
- **6.** Turn on the monitor and the computer.

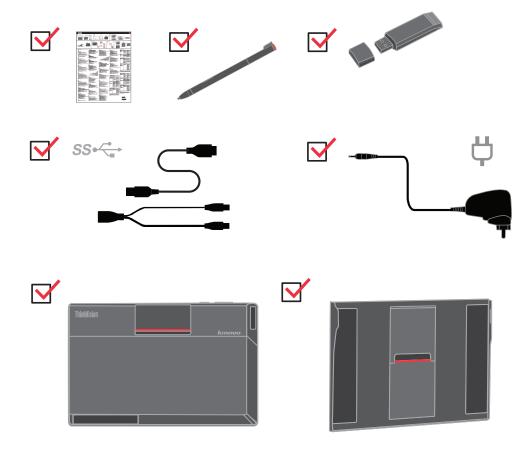
Chapter 1. Getting started

This User's Guide contains detailed information on the ThinkVision $^{\circledR}$ LT1423pwCA Wide Touch Monitor. For a quick overview, please see the Setup Poster that was shipped with your monitor.

Shipping contents

The product package should include the following items:

- Information Flyer
- Stylus Pen
- WIFI dongle
- USB Cable
- Power Adaptor
- Touch Monitor
- Simple Cover



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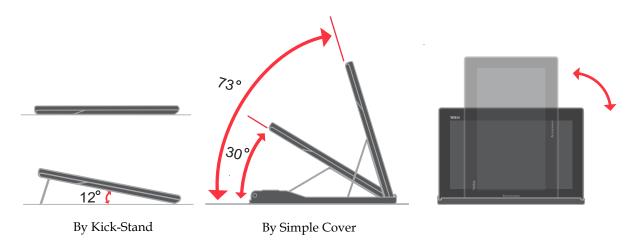
Product overview

This section will provide information on adjusting monitor positions, setting user controls, and using the cable lock slot.

Types of adjustments

Tilt

Please see the illustration below for an example of the tilt range.



User controls

1. 在没有USB Cable连接下,用于开启或关闭无线显示模式; 在无线显示模式下,按开关键可以开启或关闭画面显示。





2. Your monitor has OSD control on the top of which is used to adjust the display.

USB Cable连接下:

Menu Key: 1. To display the OSD menu on the screen.

2. To select the OSD sub-Menu.

Minus Key: 1. Back-Forward selection of the OSD menu.

2. Decease the value of sub-menu selection.

3. Auto config hot key.

Plus Key: 1. Forward selection of the OSD menu.

2. Increase the value of sub-menu selection.

Wi-Fi显示连接成功后:

Menu Key: 用来打开LT1423pwCA 控制面板的主菜单。

Minus Key: 无作用。

Plus Key: 用来旋转显示画面。



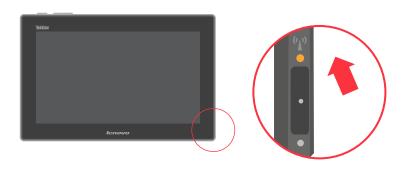
LED indicator

1. Battery charge LED

When charging, the LED will be orange, and if the battery full-charged, the LED will be green.

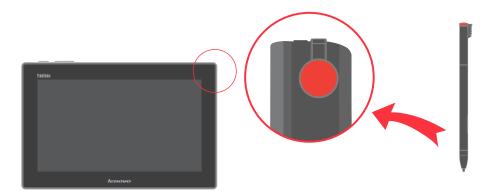


2. Wifi LED When connect by 2.4G, the LED will be blue, when 5G, LED will be amber.



Monitor Stylus Pen storage

A storage slot is available on the monitor to store the Stylus Pen.



Using the Multi-touch screen

Your Monitor support multi-touch function on Win7/Win8 32/64bits OS, can support maximum ten point muti-touch function on Win 8 32/64bits OS.

Tap the screen to use the controls on the screen including icons, menu items, and the on-screen keyboard.

Following provides instructions on how to use the multi-touch screen.

Tap

Tap gently on the screen with your fingertip to launch an application, select an item, open a menu, orinput text using the onscreen keyboard.

Press and hold

Press and hold an object or a blank area on the screen until an action occurs.

To move an item such as an image and an icon on the screen, tap and hold your finger on the item, moveyour finger to the desired location, and then take your finger off the screen.

Swipe or slide

Move your finger in a vertical or horizontal directions on the screen to scroll through the Start screen, Webpages, lists, picture thumbnails, and so on.

Zoom

- Zoom out: Move two fingers closely together on the screen as if you are picking something up to reduce the view of an image or a Web page.
- Zoom in: Move two fingers apart from on the screen to enlarge the view of an image or a Web page.

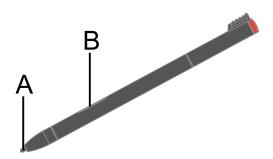
Double-tap

For some applications, quickly double-tap on the screen transforms zoom in and zoom out.

Using the Monitor Stylus Pen

Your Monitor supports touch pen function on Win7/Win8 32/64bits OS. The touch pen is attached to your monitor. You can use it to input text or draw graphics in a natural manner and perform other operations without tapping the screen.

The Monitor Stylus Pen enables you to input texts in a natural manner and take notes as well, annotating PDF files, and drawing graphics together with applications capable of editing and sketching.



The Monitor Stylus Pen consists of a tip A and a click button B. Hold the pen and point the tip on the display to move the cursor .To make a selection (single click), tap the display once with the pen. To double-click, tap twice withoutpausing. To do a right-click, tap the display once and then hold the tip of the pen on the display; the right-click icon appears. Pressing the click button to take a screen capture and snip the captured image.

Cable lock slot

Your monitor is equipped with a cable lock slot located on the side of your monitor



Setting up your monitor

This section provides information to help you set up your monitor.

Connecting and turning on your monitor

Note: Be sure to read the Safety Information located in the Monitor Safety, troubleshooting and Warranty Guide before carrying out these procedures.

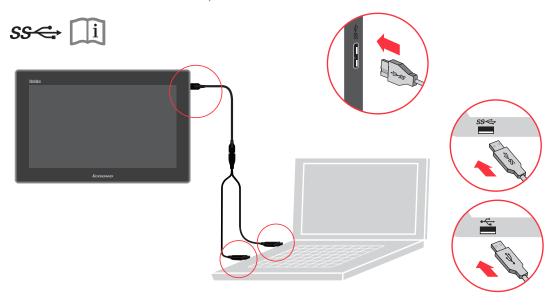
1. Power on the computer.



- 2. To install the monitor driver, follow the on-screen instructions.
 - a. Connect the USB cable to the USB port of the side of the monitor and the other two ends to the appropriate USB ports on your computer.
 - b. To install the monitor driver, you can find the driver setup file in the monitor mass storage USB disk. For detailed Setup steps, please see " Chapter 4".

Remark:

- a. To ensure optimal display performance, connect the monitor to your PC using a USB 3.0 and a USB 2.0 port at the same time. Using only one USB 2.0 port may decrease the level of the display brightness.
- b. 在无线显示模式下,通过USB连接线连接到电脑,无线显示模式会自动关闭并切换到有线模式。 如果需要再次开启无线显示模式,请先移除USB连接线。



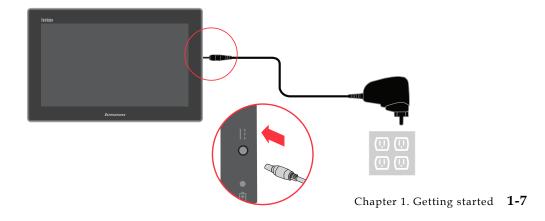
3. Charging the battery

Your monitor is shipped with an AC adapter to charge your monitor from any standard AC power outlet.

Note: The battery is not fully charged when shipped.

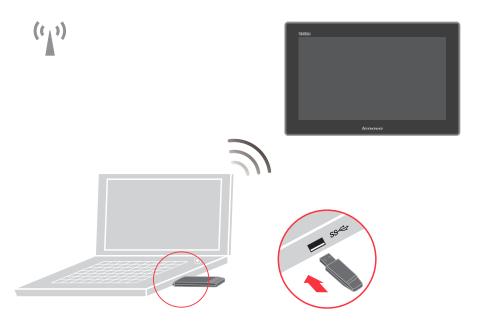
When warning window remind you less than 10% battery to have to shut down, your monitor's battery need charge, please take the following actions:

- 1. Plug the AC adapter into a standard AC power outlet.
- 2. Disconnect the AC adapter from your monitor when the battery power is full, or leave the AC adapter connected to operate from AC power.



4. Wi-Fi Dongle的使用说明:

附件的WiFI Dongle,提供了一个独立的WiFi设备,用来实现WiFi视频连接。 如果你的笔记本电脑内置WiFi网卡正在用于上网, WiFi Dongle可以同时实现 WiFi的显示连接。

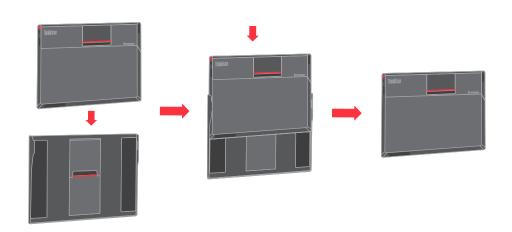


5. Using the convertible simple cover.

A simple cover ships with the monitor for added protection when storing and carrying. The case can also be used as a monitor stand as illustrated below.

If simple cover is attached:

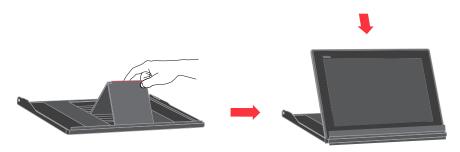
1) Simple cover for storing.



- 2) Simple cover as stand.
 - a. Take out monitor from simple cover and raise stand leg.



b. Put monitor in the front of stand leg.



Chapter 2. Adjusting and using your monitor

This section will give you information on adjusting and using your monitor.

Comfort and accessibility

Good ergonomic practice is important to get the most from your personal computer and to avoid discomfort. Arrange your workplace and the equipment you use to suit your individual needs and the kind of work that you perform. In addition, use healthy work habits to maximize your performance and comfort while using your computer.

For more detailed information on any of these topics, visit the Healthy Computing Web site at: http://www.lenovo.com/healthycomputing

Arranging your work area

Use a work surface of appropriate height and available working area to allow you to work in comfort.

Organize you work area to match the way you use materials and equipment. Keep your work area clean and clear for the materials that you typically use and place the items that you use most frequently, such as the computer mouse or telephone, within the easiest reach.

Equipment layout and setup play a large role in your working posture. The following topics describe how to optimize equipment setup to achieve and maintain good working posture.

Positioning and viewing your monitor

Position and adjust your computer, monitor for comfortable viewing by considering the following items:

- Viewing distance: Optimal viewing distances for monitors range from approximately 510mm to 760mm (20 in to 30 in) and can vary, depending on ambient light and time of day. You can achieve different viewing distances by repositioning your monitor or by modifying your posture or chair position. Use a viewing distance that is the most comfortable for you.
- Monitor height: Position the monitor so your head and neck are in a comfortable and neutral (vertical, or upright) position. If your monitor does not have height adjustments, you have to place books or other sturdy objects under the base of the monitor to achieve the desired height. A general guideline is to position the monitor such that the top of the screen is lightly below your eye-height when you are comfortably seated. However, be sure to optimize your monitor height so the line of site between your eyes and the center the monitor suits your preferences for visual distance and comfortable viewing when your eye muscles are in a relaxed stated.
- **Tilt**: Adjust the tilt of your monitor to optimize the appearance of the screen content and to accommodate your preferred head and neck posture.
- **General location:** Position your monitor to avoid glare or reflections on the screen from overhead lighting or nearby windows.

The following are some other tips for comfortable viewing of your monitor:

- Use adequate lighting for the type of work you are performing.
- Use the monitor brightness, contrast, and image adjustment controls, if equipped, to optimize the image on your screen to meet your visual preferences.
- Keep your monitor screen clean so that you can focus on the screen's contents.

Any concentrated and sustained visual activity can be tiring for your eyes. Be sure to periodically look away from your monitor screen and focus on a far object to allow your eye muscles to relax. If you have questions on eye fatigue or visual discomfort, consult a vision care specialist for advice.

Quick tips for healthy work habits

The following information is the summary of some important factors to consider to help you remain comfortable and productive when you use computer.

- Good posture starts with equipment setup: The layout of your work area and the setup of your computer equipment have a large effect on your posture when using your computer. Be sure to optimize the position and orientation of your equipment by following the tips outlined in "Arranging your work area" on page 2-1 so you can maintain a comfortable and productive posture. Also, be sure to use the adjustment capabilities of your computer components and office furniture to best suit your preferences now and as your preferences change over
- Minor changes in posture can help avoid discomfort: The longer you sit and work in front of your computer, the more important it is to observe your working posture. Avoid as summing any one posture for an extended period of time. Periodically make minor modifications in your posture to help deter any discomforts that might arise. Make use of any adjustments that your office furniture or equipment provide to accommodate changes in posture
- Short, periodic breaks help ensure healthy computing: Because computing is primarily a static activity, it is particularly important to take short breaks from your work. Periodically, stand up from your work area, stretch, walk for a drink of water, or otherwise take a short break from using your computer. A short break from work gives your body a welcome change in posture and helps ensure you remain comfortable and productive while you do work.

Accessibility information

Lenovo is committed to provide greater access to information and technology to people with disabilities. With assistive technologies, users can access information in the way most appropriate to their disability. Some of these technologies are already provided in your operating system; others can be purchased through vendors or accessed at:

https://lenovo.ssbbartgroup.com/lenovo/request_vpat.php

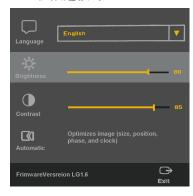
Adjusting your monitor image

This section describes the user control features are used to adjust your monitor image.

Using the On-Screen Display (OSD) controls

The display settings can be viewed through the on-screen-display (OSD), as shown below

USB视频连接时



WIFI准备就绪时



To use the controls:

- 1. Press **■** to open the main OSD menu.
- 2. Use —or + to move across the icons. Select an icon and press to access that function. Then use — or + to make adjustments, when you're satisfied with the settings, press

 to exit the current adjustment.
- 3. Press \longrightarrow to exit from the OSD.
- 4. " "is hot key for adjust the image.

Table 2-2. OSD functions

OSD Icon on Main Menu	Description
 Language	This section lists the languages supported by your monitor. Note: The language chosen only affects the language of the OSD. It has no effect on any software running on the computer.
- C Brightness	Adjusts overall brightness.
Contrast	Adjusts difference between light and dark areas.
Automatic	Automatically optimizes the image. Note: The function is activated during image displayed through USB connection.
Channel	Adjust WIFI channel to meet your WIFI adapter. Note: The function is activated during WIFI is ready to connect.
Exit	Exit from the OSD.

Understanding power management

Power management is invoked when the computer goes to stand-by mode. The monitor states are described below.

For optimal performance, unplug the USB cable and switch off your monitor by monitor's power key at the end of each working day, or whenever you expect to leave it unused for long periods during the day.

Table2-1.Power indicator of USB mode

State	Power Indicator	WIFI Indicator	Screen
On	Green	Off	Normal
Saving	Green	Off	Black
Off	Off	Off	Black

Table2-2.Power indicator of WIFI mode

State	Power Indicator	WIFI Indicator	Screen
On	Green	Blue/Amber	Normal
Saving	Green	Blue/Amber	Black
Off	Off	Off	Black

Caring for your monitor

Be sure to turn off the power before you perform any maintenance on the monitor.

Do not:

- Apply water or liquid directly to your monitor.
- Use solvents or abrasives.
- Use flammable cleaning materials to clean your monitor or any other electrical equipment.
- Touch the screen area of your monitor with sharp or abrasive items. This type of contact may cause permanent damage to your screen.
- Use any cleaner which contains an anti-static solution or similar additives. This may harm the coating of the screen area.

Do:

- Lightly dampen a soft cloth with water and use this to gently wipe the covers
- Remove grease or finger marks with a damp cloth and a little mild detergent.

Selecting a supported display mode

The display mode the monitor uses is controlled by the computer. Therefore, refer to your computer documentation for details on how to change display modes.

The image size, position and shape might change when the display mode changes. This is normal and the image can be readjusted using automatic image setup and the image controls.

Unlike CRT monitors, which require a high refresh rate to minimize flicker, LCD or Flat Panel technology is inherently flicker-free.

Note: If your system has previously been used with a CRT monitor and is currently configured to a display mode outside the range of this monitor, you may need to re-attach the CRT monitor temporarily until you have re-configured the system; preferably to 1600 x 900 at 60 Hz, which is the Native Resolution Display mode.

The display modes shown below have been optimized at the factory.

Table 2-3. Factory set display modes

Addressability	Refresh rate
800 x 600	60 Hz
1280 x 720	60 Hz
1280 x 800	60 Hz
1024 x768	60 Hz
1366 x 768	60 Hz
1440 x 900	60 Hz
1600 x 900	60 Hz

Chapter 3. Reference information

This section contains monitor specifications, troubleshooting information, and service information.

Monitor specifications

Table 3-1. Monitor specifications

Dimensions	Height Depth With	225.44 mm (8.87 in) 12.70 mm (0.50 in) 347.96 mm (13.70 in)
Stand	Tilt range	Range: 0°~95°
Image	Viewable image size Maximum height Maximum width Pixel pitch	337.82 mm (13.3 in) 165.24 mm (6.51 in) 293.76mm (11.57 in) 0.1836 mm (0.0072 in) (V)
Power input	Supply voltage Max supply current	5V DC 1.4A
Adapter power input	Supply voltage Max supply current	5V DC 4A
Power consumption Note: Power consumption figures are for the monitor and the power supply combined.	Max Consumption Typical Consumption Idle mode Consumption	17W 16W 7W
Video input	Input signal Data rates	USB 3.0 5G bps(max)
WIFI Connection	Carrier frequency Bandwidth	2.4GHz/5GHz
Supported Display Modes	Native Resolution	1600 x 900 at 60 Hz
Temperature	Operating Storage Shipping	0° to 40°C (32° to 104° F) -20° to 60°C (-4° to 140° F) -20° to 60°C (-4° to 140° F)
Humidity	Operating Storage Shipping	10% to 80% 5%° to 95% 5% to 95%

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Troubleshooting

If you have a problem with setting up or using your monitor, you might be able to solve it yourself. Before calling your dealer or Lenovo, try the suggested actions that are appropriate to your problem.

In a multi monitor situation if the touch response is on a different monitor than the LT1423pwCA then you can set the touch configurationAs below:

- 1. Open the Control Panel and find the monitor PC Setting which can setting for touch and pen.
- 2. Enter the monitor PC Setting and click the Setup item, then windows will show information "What type of Screen do you want to identify";
- 3. If you want to identify touch, please select "Touch input", otherwise please select "Pen input";
- 4. After you select one of them, you can identify your touch or pen follow the windows prensentation.

Table 3-2. Troubleshooting

Problem	Possible cause	Suggested action	Reference
The LED indicator is greenbut the screen has no display.	The driver is not installed correctly.	Please uninstall the driverthen restart PC and install the driver again.	"Driver Installation" on page 4-1
The image quality is unacceptable.	The USB cable is not connected with the monitor or system completely.	Be sure the USB cable is firmly plugged into the system and monitor.	"Connecting and turning on your monitor" on page 1-3
The power indicator is not lit and there is no image.	The USB cable is loose or disconnected with the monitor or system.	Be sure the USB cable is connected properly.	"Connecting and turning on your monitor" on page 1-3
	Monitor is not power up	Have the battery charged for a while, and then power up the monitor by press power button on the right of the monitor.	"Charging the battery" on page 1-5
One or more of the pixels appear discolored	This is a characteristic of the LCD technology and is not an LCD defect.	If there are more than five pixels missing, contact the Customer Support Center.	Appendix A, "Service and Support," on page A-1
Screen skewing, picture not in the middle.	The desktop background have no clearly boundary when monitor do auto adjust.	Make sure the desktop have clear boundary or open a file and maximize it, then press left button or select Automatic item in the OSD, monitor will do adjust again.	"Using the On-Screen (OSD) controls" on Page 2-3

Table 3-2. Troubleshooting (continued)

Problem	Possible cause	Suggested action	Reference
LT1423pwCA 控制面板没有 出现所需要的 显示器名称	显示器没有正常 开启无线网络 模式	确保没有连接USB 数据线,按开关键 开启显示器	"Setting up your monitor" on Page 1-6
	计算机没有使用 无线网卡	请插入附件的USB网卡, 并确保LT1423pwCA软件 正常安装,设备在系统设 备管理器中正常运行	
	windows系统没 有更新无线设备 的名称	在windows系统的无线 列表中点击刷新按钮	Na

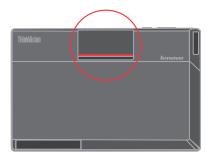
Getting further help

If you still can't solve your problem, please contact the Customer Support Center. For more information on contacting the Customer Support Center, please see Appendix A, "Service and Support," on page A-1.

Service information

Product numbers

The product number for your monitor is located on the back of the Keyboard tilt foot as shown below.



Customer responsibilities

The warranty does not apply to a product which has been damaged due to accident, misuse, abuse, improper installation, usage not in accordance with product specifications and instructions, natural or personal disaster, or unauthorized alterations, repairs or modifications.

The followings are examples of misuse or abuse and not covered by warranty:

- Images burned on to the screen of a monitor. Burned image is preventable by utilizing a moving screen saver or power management.
- Physical damage to covers, bezel, base and cables.
- Scratches or punctures on monitor screens.

Service parts

The following parts are used for Lenovo service, or Lenovo authorized dealers, to support the customer warranty. Parts are for service use only. The table below shows information for model 60 AC-UAR2-WW

Table 3-3. List of service parts

FRU (Field Replaceable Unit) Part number	Description	Color	Machine Type Model(MTM)
03T8733	LT1423p -FRU Monitor_Simple cover (Wireless)	Raven Black	60AC-UAR2-WW
03T8474	USB3.0 cable	Raven Black	60AC-UAR2-WW
03T8476	LT1423p -FRU Simple Cover (Wired&Wireless)	Raven Black	60AC-MAR2-WW
04Y1470	Stylus Pen(Same with Tablet 2)	Raven Black	60AC-UAR2-WW
03T8726	USB WiFi Dongle	Raven Black	60AC-UAR2-WW
03T8738	AC adapter-US	Raven Black	60AC-UAR2-WW
03T8739	AC adapter-JP	Raven Black	60AC-UAR2-WW
03T8740	AC adapter-ANZ	Raven Black	60AC-MAR2-WW
03T8741	AC adapter-EU	Raven Black	60AC-UAR2-WW
03T8742	AC adapter-CHN	Raven Black	60AC-UAR2-WW
03T8743	AC adapter-ASEAN	Raven Black	60AC-MAR2-WW
03T8493	AC adapter-Indonesia	Raven Black	60AC-UAR2-WW
03T8494	AC adapter-Phillipines/ Signapore	Raven Black	60AC-UAR2-WW

Chapter 4. Working with LT1423pwCA Wide WIFI monitor

This section contains instructions to install the monitor driver and display information settings.

Driver Installation

PC Requirements

Lenovo LT1423pwCA control panel software can be used on PCs, from Netbooks, Notebooks/Laptops to Desktops. The driver will run on processors ranging from Atom N270 based PCs, basic single Core CPUs, and of course the latest Dual, Quad Core and Core i3/i5/i7 CPUs.

The performance of the software is dependent upon the processing power available, as well as the operating Sy

system in use. More capable systems offer higher performance.
Lenovo LT1423pwCA control panel software is available for PCs running one of the following Window operating systems: □ Windows 7 (32-bit or 64-bit)
☐ Windows 8 Home or Professional (including monitor edition) with Service Pack 2 or 3
Note : No Windows Server editions are supported.
Recommended typical system requirements are:
Windows 7
For Windows 7, the Windows Experience Index (WEI) is a useful measure of hardware level. The WEI accessible from Computer > Properties, or from Control Panel > System. The recommended typical hardware requirements for the PC are:
 □ WEI score of at least 3 in the 'Graphics; Desktop performance for Windows Aero' category. □ Overall WEI score of at least 3 as recommended by Microsoft. □ At least one USB 3.0 port.
☐ 150 megabytes (MB) of free disk space.
☐ Computer screen for use with the Lenovo LT1423pwCA wireless monitor, if it is not integrated.
Windows 8
☐ For 1-2 monitors, business usage, productivity target. This may not provide full frame rate DVD playback at full screen.
□ 1.2GHz Single Core CPU

W

For 1-2 monitors, business usage, productivity target. This may not provide full frame rate DVD
playback at full screen.
1.2GHz Single Core CPU
512MB memory
For 3 monitors, where 1 could run DVD video while also targeting productivity and business apps.
Will support only 1 video of DVD resolution at full screen:
1.6GHz CPU

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 ☐ 1GB memory ☐ For 6 screens where 1 screen can run full screen DVD video: ☐ 1.8GHz Core Duo ☐ 1GB memory ☐ At least one USB 3.0 port. ☐ 150 megabytes (MB) of free disk space. ☐ Computer screen for use with the Lenovo LT1423pwCA wireless monitor device, if it is not integrated. ☐ Network access for software downloads, or access to a CD-ROM drive.
Graphics Card Support (Windows 7) On Windows 7, Lenovo LT1423pwCA control panel software interacts closely with the primary graphics card. Lenovo LT1423pwCA control panel supports and tests a single graphics card (GPU) installed in a PC from all major GPU vendors (Intel, ATI, NVidia and Via) The following GPU configurations may exhibit compatibility issues on Windows 7 in certainly circumstances:
□ Switchable Graphics (ATI/Intel)
□ Switchable Graphics (ATI/ATI)
☐ Switchable Graphics (NVIDIA/Intel)
□ NVIDIA SLI in SLI mode
Other GPU configurations, including the following, are currently unsupported and will not function on
Windows 7:
☐ Hybrid Graphics
□ Hybrid SLI
☐ Hybrid Crossfire
□ Crossfire
□ SLI not in SLI mode
☐ Multiple WDDM 1.1 graphics drivers active at once
Graphics Card Support (Windows 8) All graphics cards are supported on Windows 8.

Installing the Lenovo DisplayLink USB Graphics Software

The following section shows you how to install the LT1423pwCA control panel software on different operating systems.

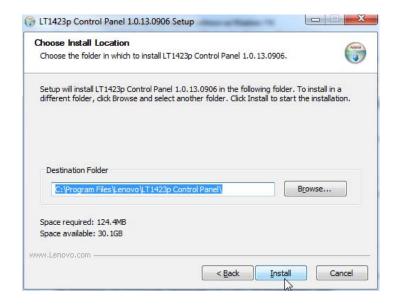
Note: If you have v3.x, R4.1 or R4.2 DisplayLink software installed you must uninstall it, using the Windows Add/Remove Programs feature, before installing this release. Devices will continue working after this release is installed.

To Install the Lenovo LT1423pwCA control panel software on Windows 7/8

The preferred method of installation is using Window 7's Windows Update facility.

- 1. Connect your Lenovo LT1423pwCA monitor via the USB cable to your PC. Windows Detects the new hardware and automatically install the Mass storage USB disk, LT1423pwCA control panel setup file and user manual is in the root directory.
- 2. 在安裝LT1423pwCA 控制面板软件过程中,软件会提示安裝,以及在PC已经有旧版本软件时 提示是否升级。请按照提示点击"下一步","安裝","覆盖旧版本软件","升级软件", 最后点击"完成"。

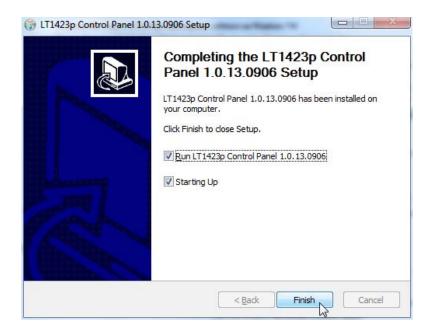






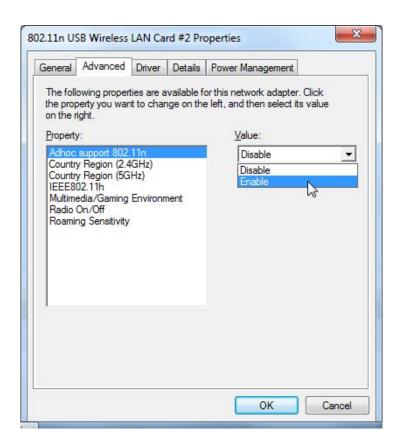






设置网卡工作模式

为保证无线显示的效果,请在Windows系统中进入控制面板>>系统>>设备管理器>>网络适配器,查找无线网卡设备,设备名称一般带有WIFI字样,双击进入"属性"页面,确认802.11n工作模式并将其开启,并点击确认。请注意无线网络设备会切换工作模式并重新开启,如果无线网卡有连接网络设备,会出现短时间的网络中断。



Note: The screen may flash or go black during the install.

On some machines you may reboot before you can use your DisplayLink enabled device.

Wireless monitor using

1. After Lenovo LT1423pwCA control panel software installation, the software will be auto-started with Windows® system. Or you can find the LT1423pwCA control panel in start menu of Windows® 7 or search LT1423pwCA control panel in Windows® 8's programs.



2. You can change settings by favor and click into the Connection Management to found the SSID of LT1423pwCA monitor. You can power up the LT1423pwCA monitor without USB cable, the SSID name and password shows on the screen of the monitor, or you can press menu key to resume the information. The DisplayLink software end user licence agreement window opens.



Click connect button under the monitor SSID name you want to connect.



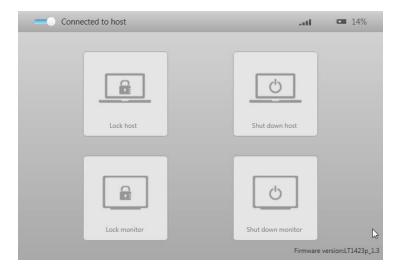
Windows system will install device driver to finish the connection for a few minutes. The status will changed and monitor is ready for using.



The options item is working after connection, you may need to change the Turn off display after ... item for energy saving.



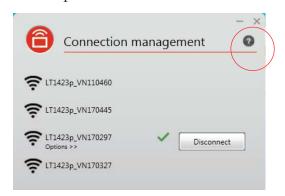
- Disconnect button under the SSID name is for disable wireless monitor from current connection, and the monitor will not power off.
- 3. Press power key shortly within one second will bring monitor into energy saving mode, display and touch function are off but monitor still powered on to recall normal usings. To power off the wireless monitor you can press power button and hold 3 seconds at least to pop up the host and monitor control OSD, and select shut down monitor. Or you can hold the power key 8 seconds to power off the monitor without OSD operations.



4. Pressing menu key can activate LT1423pwCA control panel OSD control menu during wireless using; you can change the settings by favor.



5. LT1423pwCA 控制面板使用详细说明,请点击帮助提示按钮" 🕡 "



USB Monitor Display Information settings

The language shown in pictures below is decided by youroperating system: (Unsupported languages default to English)

Using the DisplayLink Software

This section describes how to use DisplayLink's Software. The section is divided into sub-sections relating to your operating system.

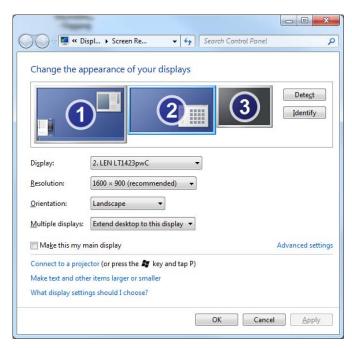
Note: The terminology for mirror mode, can vary between operating systems and the DisplayLink GUI. The terms "Clone", "Mirror" and "Duplicate" essentially all provide the same function of cloning the pixels from one display to another.

Windows 7 - Controlling the Display

On Windows 7, you can configure a DisplayLink device through the use of Windows Display Properties (WDP). WDP provides a simple method to attach, rotate, duplicate or extend screens as well as modify screen resolution.

To open WDP

- 1. Right click on the DisplayLink icon
- 2. Click Advanced Configuration.
- 3. WDP opens.



Setting the Display

Follow these procedure to set the display.

To set the display

- 1. Open Screen Resolution.
- 2. Set the display options. Refer to the table below for details on each option.

Table 4-1. WDP Options

Menu	Sub-Menu	Description
Display		Uses the drop down list to select a
		display to be configured.
Resolution		Uses the drop down list and user
		the slider to choose a resolution.
Orientation	Landscape	Sets the display to landscape
		view.
	Portrait	Sets the display to portrait mode.
	Landscape (flipped)	Sets the display to upside down
		landscape mode.
	Portrait (flipped)	Sets the display to upside down
		portrait mode.
Multiple displays	Duplicates these displays	Reproduces the main display on
		the second display.
	Extend these displays	Extends the main display onto
		the secondary display.
	Show Desktop only on 1	The desktop appears on the
		display marked 1. The display
		marked 2 becomes blank.
	Shows Desktop only on 2	The desktop appears on the
		display marked 2. The display
		marked 1 becomes blank.

To control the behaviour of an attached DisplayLink display, it is also possible to use Windows Key+P to display a menu (and cycle through it) to switch mode.

To control the Display

1. Select the Windows Key+P.

The following menu appears.



2. Click on one of the options.

The display updates to reflect your choice.

The DisplayLink Icon Application

You can configure the behaviour of the DisplayLink Graphics through the DisplayLink icon applications on the taskbar, where present.

To show the DisplayLink Manager menu

1. From the taskbar, click the *Show hidden icons* arrow to show all available icons.



2. Click the DisplayLink icon ____. A menu appears with several options, as described in the following table.

Table 4-2 DisplayLink menu

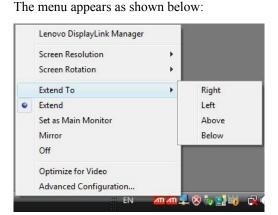
Menu	Description
Check for updates	Connects to the Windows Update and checks for
	newer versions and downloads them, if available.
Optimize for Video	Select this option for better movie playback
	performance on the DisplayLink enabled displays.
	Only select this option when playing back video
	content.
	Note : Texts may appear less clear when enabled.
Advanced	Configuration
	Opens the Windows Display Properties (WDP)

Windows 8 – Controlling the Display

When devices are attached, an icon appears in the taskbar. This gives you access to the DisplayLink manager menu.

To use the DisplayLink Manager Menu

1. Click the DisplayLink icon on the taskbar.



2. Select an option from the menu, using the following table for the options available.

Table 4-3 DisplayLink menu

Menu Option	Sub-menu Option	Description
Screen Resolution		Displays a list of available resolutions. Some resolutions may be enclosed by []. Please see, Inferred Modes.
Screen Rotation	Normal	No rotation is applied to the DisplayLink display
	Rotated Left	Rotates the extended or mirrored display by 270 degrees.
	Rotated Right	Rotates the extended or mirrored display by 90 degrees.
	Upside-Down	Rotates the extended or mirrored display by 180 degrees.
Extend To	Right	Extends the display to the right of the main display.
	Left	Extends the display to the left of the main display.
	Above	Extends the display above of the main display.
	Below	Extends the display below the main display.
Extend		Extends your desktop onto the secondary display.
Set as Main Monitor		Sets the secondary display as the main display.
Notebook Monitor Off		Switches off the display of an attached notebook and makes the DisplayLink display primary.
Mirror		Copies what is on the main display and reproduces it on the secondary display.
Off		Switches off the secondary display.
Optimize for Video (Windows 7 Only)		Configures the secondary display for optimum full screen video performance output. Note: Text may appear less clear.
Advanced Configuration		Opens the Display Settings window.

Additional Information

The following section provides additional information on the use of the DisplayLink Graphics software.

Monitor Calibration

DDC/CI is not supported on displays with integrated DisplayLink technology, for example mini monitors.

Media Playback

On Windows 7, Windows 8 (in extend modes), the DisplayLink USB Graphics device can
display media files and DVDs using the following media players:
☐ Windows Media Player 11 (http://www.microsoft.com/windows/windowsmedia/default.mspx)
□ WinDVD 8 (www.intervideo.com)
□ PowerDVD 7 (www.cyberlink.com)
□ RealPlayer 11 (www.real.com)
The DisplayLink USB Graphics device can display media files and DVDs using most media players. Media
playback in mirror mode (Windows 8) or in Basic mode (Windows 7) is not recommended.

Using Multiple LT1423pwCA devices

The software supports up to six simultaneously USB/WIFI attached screens. It is also possible that different sets of screens are being used at different times, for example two in the office and two at home. The software saves each screen's display profile separately. This allows for different physical positioning, or different resolutions, of connected monitors in the office and the home.

Standby and Hibernate, Shut down and Restart

If the PC that the LT1423pwCA monitor device is connected to is placed into standby or hibernate mode, the display goes blank. When the PC is again powered up (and unlocked if necessary) the connected monitor returns to the same mode as it was before stand by or hibernation.

If the PC is shut down, restarted and logged in, again the connected display returns to the same mode as it was before shutdown.

If you are using the LT1423pwCA monitor through WIFI connection, you may need Windows system to refresh the WIFI device and then connect to the SSID you need in the LT1423pwCA control panel.

LT1423pwCA monitor with Multiple Users

WTM monitor work with multiple users on the PC. The mode settings are saved for each user so each can use their own desktop configuration.

Disconnecting the LT1423pwCA monitor

If the LT1423pwCA monitor device is powered off or the USB cable is removed from the computer, the display blanks. All windows and icons move to the primary screen.

On reconnection or powering up of the LT1423pwCA monitor device, the display returns to the same mode as it was before disconnection. However, windows and icons that were previously on the screen will not be moved back.

Error Messages

DisplayLink Graphics software occasionally displays user messages in a bubble in the notification area. The table below lists the user messages and their descriptions.

Table 4-4 DisplayLink menu

Message	Description
Insufficient system resources exist to complete the requested service	This can occur when entering extend mode with low system resources. The PC does not have enough memory to start an extend display. Close down any unused applications. The situation may also be improved by rebooting the PC.
The requested allocation size was too large	This can occur if trying to mirror a primary display with a resolution above 1600x900 (16:9).
Incompatible Display Driver	This message will appear if the primary graphics card drivers installed are not WDDM compatible. Windows 7 is not designed to operate without WDDM drivers. Download and install the latest Windows 7 (WDDM) drivers for your primary graphics card.
The system cannot write to the specified devices	This warning may be displayed in Windows 8 after changing the display mode several times (e.g. Extend/Dock mode) from the DisplayLink GUI. If this happens, detach and reattach the device to restore normal operation.

Troubleshooting

This section provides tips for correcting problems, should any occur. It also describes how to contact Lenovo should you encounter problems that you cannot resolve.

Before you call Lenovo, please read the troubleshooting advice in this manual and in your computer User's Manual. You may also want to consult with your system administrator or company technical support staffs.

Precautions for Microsoft® Windows®

☐ This product does not support 3D programs or Blue-Ray Disk.	
□ Due to the configurations of computers and Windows® operating systems available, functionality may differ slightly than stated in the user manual. This may be due to the computer manufacture's BIOS and other custom configurations of the hardware, pre-installed software or operating system installed at time of production. If you have specific problems, you may need to contact the computer manufacturer to inquire about BIOS, hardware driver or operating system updates.	
☐ The Fn + F5 functionality detailed in the electronic User's Guide for your Lenovo computer only controls the internal video controller of your computer.	
□ The Lenovo LT1423pwCA Wide Monitor utilizes an advanced video graphics controller to display the video. However, due to USB 3.0 transfer speed limitations and WIFI bandwidth (also affected by environment), some or all portions of DVD playback may appear slow or choppy. This is not a malfunction of the Lenovo LT1423pwCA Wide monitor. Move the video playback from the Leno LT1423pwCA Wide monitor to your computer display for optimal video performance when viewing DVDs.	l a
□ On Windows® 8 system, DVDs may not display correctly on the Lenovo LT1423pwCA Wide monitor. Use your computer's built-in monitor to view DVDs.	
☐ In some software application programs that utilize certain direct draw commands such as some 2D-Games, the display on the Lenovo LT1423pwCA Wide USB monitor will not be supported. If you want to play these games in full screen, we suggest you disconnect the Lenovo LT1423pwC Wide USB monitor.	CA

☐ This product is unable to enter full screen DOS mode when using the Lenovo LT1423pwCA Wide USB monitor.

Problem show

Problem	Solution(s)
The monitor does not turn on	USB connection using: Check the connections. Make sure the USB cable is firmly connected to the monitor. Disconnect and reconnect the USB cable. Check the condition of the USB cable. If the cable is frayed or damaged, replace the cable. If the connectors are soiled, wipe them with a clean cloth. Using through WIFI connection: Make sure the monitor is no connect to a USB cable.Connect the AC adaptor Recharge the monitor for 10 minutes then power up the monitor.
The screen is blank, although the power is on	USB connection using: Make sure the USB cable is properly connected to the computer. Make sure the computer is on and working. The computer may be in sleep or power-saving mode, or displaying a blank screen saver. Move the mouse to "wake up" the computer. Using through WIFI connection: Press power key within 1 second to wake up the monitor from energy saving mode. Make sure the computer is connect to the monitor correctly in WCP (LT1423pwCA control panel). Or you need to press connect under the SSID of the monitor in the WCP connection management. Reboot the monitor and connect with LT1423pwCA control panel.
The picture "bounces" or moves in a wave-like pattern	Move electrical devices that may cause electrical interference away from the monitor.

Minor issues can generally be resolved by:

□ unplugging and re-plugging the LT1423pwCA monitor or, □ Reboot LT1423pwCA monitor and connect again in connect management of LT1423pwCA control panel. □ changing the display mode via the DisplayLink GUI, or,

□ changing the display mode via Windows Display Properties.

On Windows 7 WDDM (Aero and Basic)

DisplayLink software works closely with the graphics card and there may be interoperability issues with some graphics cards. If this happen:

- **1.** Try to upgrade to the latest graphics drivers.
- 2. Try to upgrade to latest LT1423pwCA control panel software.
- **3.** Report the issue via your support channel.
- **4.** If necessary, boot into Safe Mode and use Windows' Backup and Restore Center to recover.

Appendix A . Service and Support

The following information describes the technical support that is available for your product, during the warranty period or throughout the life of your product. Refer to the Lenovo Limited Warranty for a full explanation of Lenovo warranty terms.

Registering your option

Register to receive product service and support updates, as well as free and discounted computer accessories and content. Go to: http://www.lenovo.com/register_

Online technical support

Online technical support is available during the lifetime of a product at: http://www.lenovo.com/support

Product replacement assistance or exchange of defective components also is available during the warranty period. In addition, if your option is installed in a Lenovo computer, you might be entitled to service at your location. A Lenovo technical support representative can help you determine the best alternative.

Telephone technical support

Installation and configuration support through the Customer Support Center will be available until 90 days after the option has been withdrawn from marketing. After that time, the support is cancelled, or made available for a fee, at Lenovo's discretion. Additional support is also available for a nominal fee.

Before contacting a Lenovo technical support representative, please have the following information available: option name and number, proof of purchase, computer manufacturer, model, serial number and manual, the exact wording of any error message, description of the problem, and the hardware and software configuration information for your system.

Your technical support representative might want to walk you through the problem while you are at your computer during the call.

Telephone numbers are subject to change without notice. The most up-to-date telephone list for Lenovo Support is always available at: http://www.lenovo.com/support/phone

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Date and time Update to be Visible on the Website	Country or Regions	Language	Old Telephone Number(s)	New Telephone Number(s)	Hours of Operation	Applicab le to IWS
17-May-2012 1000 GMT +4:00	RUSSIA	Russian,	8 800 100 7888	8-800-555-0317	10 am - 7 pm Monday - Saturday	
30-Jul-2012 0900 GMT +9:00	JAPAN	Japanese, English	0120-20-5550, 0570-064-600 For International: +81-46-266- 4716	0120-000-817	9AM - 6PM Monday - Sunday (Exception : Third Sunday of the month (due to maintenance activities) and December 30th and 31st and January 1st, 2nd, and 3rd)	
12-Sep-12 0900 GMT +9:00	SOUTH KOREA	Korean, English	1588-6782	080-513-0880 (Toll Free) 0234834817 (Standard Charges Apply)	9AM - 6PM Monday - Friday 9AM - 1PM Saturday	
30-Nov-12 0700 GMT -6:00	Costa Rica		0-800-011-1029	Dial 0-800-011-4114, then dial 877-404-9661	7 am - 9 pm Monday - Sunday	Yes
30-Nov-12 0900 GMT -4:00	Dominican Republic		1-866-434-2080	877-396-6150	9 am - 11 pm Monday - Sunday	
30-Nov-12 0700 GMT -6:00	El Salvador		800-6264	800-6037	7 am - 9 pm Monday - Sunday	
30-Nov-12 0700 GMT -6:00	Guatemala	Spanish,	1800-624-0051	Dial 999-9190, then dial	7 am - 9 pm Monday - Sunday	
30-Nov-12 0700 GMT -6:00	Honduras	English	Tegucigalpa: 232-4222 San Pedro Sula: 552-2234	Dial 800-0123, then dial 877- 404-9661	7 am - 9 pm Monday - Sunday	
30-Nov-12 0800 GMT -5:00	Panama		206-6047 001-866-434-2080 (Lenovo Customer Support Center- toll free)	001-800-507-2694	8 AM - 10 PM Monday - Sunday	
3-Dec-12 0800 GMT -5:00	ECUADOR		1-800-426911 OPCION 4	(Andinatel) Dial 1-999-119; then dial 877-404-9661 (Pacifictel) 1-800-225-528; then dial 877-404-9661 (Pacifictel Spanish) 1-800- 999-119; then dial 877-404- 9661	8 AM - 10 PM Monday - Sunday	
3-Dec-12 0800 GMT -6:00	MEXICO	1	001-866-434-2080	01800 0834916	8 AM - 10 PM Monday - Sunday	

Date and time Update to be Visible on the Website	Country or Regions	Language	Old Telephone Number(s)	New Telephone Number(s)	Hours of Operation	Applicab le to IWS
3-Dec-12 0900 GMT -3:00	PARAGUAY	Spanish,	009-800-52-10026	0098004410084 or 009-800-	9 am - 11 pm Monday - Sunday	
3-Dec-12 1000 GMT -2:00	URUGUAY	English	000-411-005-6649	000 411 0026332	10 am - 12 pm Monday - Sunday	1
5-Dec-12 0900 GMT +8:00	HONG KONG	Cantonese, Mandarin, English		(852) 3071-3561	9 AM - 8 PM Monday - Friday 9AM - 1 PM Saturday	Yes
5-Dec-12 0900 GMT +8:00	Macau	. Dagawa	ThinkPad (Technical enquiry hotline): 0800-839 (Macau) ThinkPad Service Center: 2871-5399 (Macau) ThinkCentre, ThinkStation and ThinkServer: 0800-336 (Macau)	0800 807	9 AM - 8 PM Monday - Friday 9AM - 1 PM Saturday	
5-Dec-12 0800 GMT -3:00	CHILE	1	800-361-213	1230 020 0173 or 800530008	8 AM - 10 PM Monday - Sunday	1
5-Dec-12 0800 GMT -5:00	PERU		0-800-50-866 OPCION 2	0800-77-503	8 AM - 10 PM Monday - Sunday	1
5-Dec-12 0830 GMT -4:30	VENEZUELA		0-800-100-2011	08001101111	8:30 am - 10:30 pm Monday - Sunday	
10-Dec-12 0900 GMT -4:00	BOLIVIA],	0800-10-0189	800-10-0982	9 am - 11 pm Monday - Sunday	
10-Dec-12 0800 GMT -5:00	COLOMBIA	Spanish, English	1-800-912-3021	01800 5182433 (Toll Free) 3207635 (Standard Charges Apply)	8 AM - 10 PM Monday - Sunday	
12-Dec-12 1000 GMT -3:00	ARGENTINA		0800-666-0011	0800 2660570	10 am - 12 pm Monday - Sunday	

Date and time Update to be Visible on the Website	Country or Regions	Language	Old Telephone Number(s)	New Telephone Number(s)	Hours of Operation	Applic able to IWS
01-Sep-12 0000 GMT +10:00	Australia	English	131-426 Think Branded Products 1300-880-917 ThinkServer	1800041267	24 hours/day 7 days/week	
01-Sep-12 0000 GMT +10:00	New Zealand		0800-733-222 Think Branded	0508 770 506	24 hours/day 7 days/week	
14-Sep-12 0830 GMT +7:00	VIETNAM	Vietnamese, English	For Northern Area and Hanoi City: +84-4-3 7367625/+84-4-3 7367626 For Southern Area and Ho Chi Minh City: +84 8 3 8243504/ +84 8 3 8243503	12011072	8:30 AM - 5:30 PM Monday - Friday	
28-Sep-12 0830 GMT +8:00	PHILIPPINES	Tagalog, English	1800-1601-0033 (Local number only) +603 8315 6858 (DID)	180089086454 (Domestic Toll Free) 180014410719 (International Toll Free)	8:30 AM - 5 PM Monday - Friday	
12-Oct-12 0800 GMT +8:00	SINGAPORE	English, Mandarin, Bahasa Malaysia	800 6011 343 (Local number only) +603 8315 6856 (DID)	18004155529	8AM - 6:30PM Monday - Friday	Yes
26-Oct-12 0900 GMT +7:00	THAILAND	Thai, English	1-800-060-066(Local number only) 66 2273 4088+603 8315 6857 (DID)	0018004415734	9 AM -6 PM Monday - Friday	
9-Nov-12 0900 GMT +7:00	INDONESIA	Bahasa Indonesia, English	+6221 2992 5823 001-803-606- 282 (Local number only) +603 8315 6859 (DID)	001803442425	9 AM -6 PM Monday - Friday	
14-Nov-12 0900 GMT +8:00	BRUNEI	Bahasa Malaysian, English	801-1041	Dial 800-1111, then dial 8662735446	9 AM -6 PM Monday - Friday	
14-Nov-12 0900 GMT +8:00	MALAYSIA	Bahasa Malaysia, English	1800-88-1889 (Local number only) +603 8315 6855 (DID)	1800880013	9 AM -6 PM Monday - Friday	
30-Nov-12 0000 GMT -4:00	Antigua	English	New	855-882-4402	24 hours a day 7 days a week]
30-Nov-12 0000 GMT -4:00	Aruba	Lugusu	New	855-882-4402	24 hours a day 7 days a week	

Date and time Update to be Visible on the Website	Country or Regions	Language	Old Telephone Number(s)	New Telephone Number(s)	Hours of Operation	Applic able to IWS
30-Nov-12 0000 GMT -5:00	Bahamas		New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -4:00	Barbados]	New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -4:00	Bermuda	English	1-800 426 7378	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -4:00	British Virgin Islands		New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -5:00	Cayman Islands		New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -4:00	Curacao		New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -4:00	Grenada		New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -4:00	Guyana		New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -5:00	Jamaica		1-800 426 7378	855-882-4402	24 hours a day 7 days a week	Yes
30-Nov-12 0000 GMT -4:00	Montserrat		New	855-882-4402	24 hours a day 7 days a week	res
30-Nov-12 0700 GMT -6:00	Nicaragua	Spanish, English	001-800-220-1830	001-800226-0334	7 am - 9 pm Monday - Sunday	
30-Nov-12 0000 GMT -4:00	Puerto Rico		New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -4:00	St Kitts		New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -4:00	St Lucia		New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -4:00	ST MAARTEN	English	New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -4:00	St Vincent	English	New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -3:00	Suriname		New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -4:00	Trinidad and Tobago		New	1-8666269587	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -4:00	US Virgin Islands		New	855-882-4402	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -5:00	CANADA	English, French	1-800-565-3344	8882523099	24 hours a day 7 days a week	
30-Nov-12 0000 GMT -5:00	UNITED STATES	English	1-800-426-7378	855-882-4402	24 hours a day 7 days a week	
17-Dec-12 0800 GMT -2:00	BRAZIL	Portuguese	Calls made from within the Sao Paulo region (11) 3889-8986 Calls made from outside the Sao Paulo region 0800-701-4815	0800 885 0500 (Toll Free) (11) 3140-0500 (Standard Charges Apply)	8 AM - 8 PM Monday - Friday 8 AM - 5 PM Saturday	

Appendix B. Notices

Any reference to a Lenovo product, program, or service is not intended to state or imply that only that Lenovo product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any Lenovo intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any other product, program, or service.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. Lenovo may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

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Any references in this publication to non-Lenovo Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this Lenovo product, and use of those Web sites is at your own risk.

Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Recycling information

Lenovo encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. Lenovo offers a variety of programs and services to assist equipment owners in recycling their IT products.

For information on recycling Lenovo products, go to:

http://www.lenovo.com/lenovo/environment/recycling

環境配慮に関して

本機器またはモニターの回収リサイクルについて

企業のお客様が、本機器が使用済みとなり廃棄される場合は、資源有効利用促進法の規定により、産業廃棄物として、地域を管轄する県知事あるいは、政令市長の許可を持った産業廃棄物処理業者に適正処理を委託する必要があります。また、弊社では資源有効利用促進法に基づき使用済みパソコンの回収および再利用・再資源化を行う「PC 回収リサイクル・サービス」を提供しています。詳細は、

http://www.ibm.com/jp/pc/service/recycle/pcrecycle/ をご参照ください。

また、同法により、家庭で使用済みとなったパソコンのメーカー等による回収再資源化が 2003 年 10 月 1 日よりスタートしました。詳細は、http://www.ibm.com/jp/pc/service/recycle/pcrecycle/ をご参照ください。

重金属を含む内部部品の廃棄処理について

本機器のプリント基板等には微量の重金属(鉛など)が使用されています。使用後は適切な処理を行うため、上記「本機器またはモニターの回収リサイクルについて」に従って廃棄してください。

Collecting and recycling a disused Lenovo computer or monitor

If you are a company employee and need to dispose of a Lenovo computer or monitor that is the property of the company, you must do so in accordance with the Law for Promotion of Effective Utilization of Resources. Computers and monitors are categorized as industrial waste and should be properly disposed of by an industrial waste disposal contractor certified by a local government. In accordance with the Law for Promotion of Effective Utilization of Resources, Lenovo Japan provides, through its PC Collecting and Recycling Services, for the collecting, reuse, and recycling of disused computers and monitors. For details, visit the Lenovo Web site at www.ibm.com/jp/pc/service/recycle/pcrecycle/. Pursuant to the Law for Promotion of Effective Utilization of Resources, the collecting and recycling of home-used computers and monitors by the manufacturer was begun on October 1, 2003. This service is provided free of charge for home-used computers sold after October 1, 2003. For details, visit the Lenovo Web site at www.ibm.com/jp/pc/service/recycle/personal/.

Disposing of Lenovo computer components

Some Lenovo computer products sold in Japan may have components that contain heavy metals or other environmental sensitive substances. To properly dispose of disused components, such as a printed circuit board or drive, use the methods described above for collecting and recycling a disused computer or monitor.

Trademarks

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Lenovo logo

ThinkCentre

ThinkPad

ThinkVision

Microsoft, Windows, and Windows NT are trademarks of the Microsoft group of companies.

Other company, product, or service names may be trademarks or service marks of others.

Turkish statement of compliance

The Lenovo product meets the requirements of the Republic of Turkey Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (EEE).

Türkiye EEE Yönetmeliğine Uygunluk Beyanı

Bu Lenovo ürünü, T.C. Çevre ve Orman Bakanlığı'nın "Elektrik ve Elektronik Eşyalarda Bazı Zarar lıMaddelerin Kullanımının Sınırlandırılmasına Dair Yönetmelik (EEE)" direktiflerine uygundur.

EEEYönetmeliğineUygundur.

Lenovo and the Lenovo logo are trademarks of Lenovo in the United States, other countries, or both.

Ukraine RoHS

Цим підтверджуємо, що продукція Леново відповідає вимогам нормативних актів України, які обмежують вміст небезпечних речовин

Appendix C. Wifi dongle Statement

Federal Communication Commission Interference Statement

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 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 dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

IMPORTANT NOTE:

Radiation Exposure Statement:

The product comply with the US portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Country Code selection feature to be disabled for products marketed to the US/CANADA

SAR compliance has been established in typical laptop computer(s) with USB slot, and product could be used in typical laptop computer with USB slot. Other application like handheld PC or similar device has not been verified and may not compliance with related RF exposure rule and such use shall be prohibited.

The USB dongle transmitter is approved for use in typical laptop computers. To comply with FCC RF exposure requirements, it should not be used in other devices or certain laptop and tablet computer configurations where the USB connectors on the host computer are unable to provide or ensure the necessary operating configurations intended for the device and its users or bystanders to satisfy RF exposure compliance requirements.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

Industry Canada statement:

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution:

- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and
- (iii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.
- (iv) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement:

- (i) les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux:
- (ii) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5 250-5 350 MHz et 5 470-5 725 MHz doit se conformer à la limite de p.i.r.e.;
- (iii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5 725-5 825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.
- (iv) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute

puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radiation Exposure Statement:

The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Déclaration d'exposition aux radiations:

Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé. Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions RF peut être augmentée si l'appareil peut être conservé aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible.

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- IEC 60950-1:2005 (Second Edition) + Am 1:2009
 Safety of Information Technology Equipment
- EN 62311: 2008 / Article 3(1)(a) and Article 2 2006/95/EC)
 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz-300 GHz)
- EN 62209-1: 2006

Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close 13 proximity to the ear (frequency range of 300 MHz to 3 GHz)

- EN 300 328 V1.8.1: 2012-06

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating using wide band modulation techniques; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

- EN 301 893 V1.7.1: 2012-06

Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

- EN 301 489-1 V1.9.2: 2011

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

- EN 301 489-17 V2.2.1 2012

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems

This product complies with EU requirements regarding restriction of exposure of persons to radio-frequency energy (RF) emitted by telecommunication and radio devices as it is designed and manufactured in such a way as not to exceed the exposure limits indicated by the European Union Commission. The permitted SAR limit for the general population is 2.0 W/Kg. This limit guarantees an ample safety margin that protects all persons regardless of age and health condition.

The highest SAR level recorded for this model was equal to 0.821W/kg.

The minimum distance between the user and/or any bystander and the radiating structure of the transmitter is 20cm.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.



⊡Česky [Czech]	[Jméno výrobce] tímto prohlašuje, že tento [typ zařízení] je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
daDansk [Danish]	Undertegnede [fabrikantens navn] erklærer herved, at følgende udstyr [udstyrets typebetegnelse] overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
deDeutsch [German]	Hiermit erklärt [Name des Herstellers], dass sich das Gerät [Gerätetyp] in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
etEesti [Estonian]	Käesolevaga kinnitab [tootja nimi = name of manufacturer] seadme [seadme tüüp = type of equipment] vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
[en]English	Hereby, [name of manufacturer], declares that this [type of equipment] is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]	Por medio de la presente [nombre del fabricante] declara que el [clase de equipo] cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
℡Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ [name of manufacturer] ΔΗΛΩΝΕΙ ΟΤΙ [type of equipment] ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
ffFrançais [French]	Par la présente [nom du fabricant] déclare que l'appareil [type d'appareil] est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
it Italiano [Italian]	Con la presente [nome del costruttore] dichiara che questo [tipo di apparecchio] è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva

	1999/5/CE.
Latviski [Latvian]	Ar šo [name of manufacturer / izgatavotāja nosaukums] deklarē, ka [type of equipment / iekārtas tips] atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo [manufacturer name] deklaruoja, kad šis [equipment type] atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Nederland s [Dutch]	Hierbij verklaart [naam van de fabrikant] dat het toestel [type van toestel] in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Malti [Maltese]	Hawnhekk, <i>[isem tal-manifattur]</i> , jiddikjara li dan <i>[il-mudel tal-prodott]</i> jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
™Magyar [Hungarian]	Alulírott, [gyártó neve] nyilatkozom, hogy a [típus] megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
Polski [Polish]	Niniejszym [nazwa producenta] oświadcza, że [nazwa wyrobu] jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
PtlPortuguês [Portuguese]	[Nome do fabricante] declara que este [tipo de equipamento] está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
slSlovensko [Slovenian]	[Ime proizvajalca] izjavlja, da je ta [tip opreme] v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	[Meno výrobcu] týmto vyhlasuje, že [typ zariadenia] spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
fi]Suomi [Finnish]	[Valmistaja = manufacturer] vakuuttaa täten että [type of equipment = laitteen tyyppimerkintä] tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Taiwan 警語

第十二條→經型式認證合格之低功率射頻電機,非經許可,公司,商號或使用者均不得擅自變更頻 率、加大功率或變更原設計之特性及功能。

第十四條→低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立 即停用,並改善至無干擾時方得繼續使用。

前項合法通信,指依電信法規定作業之無線電通信。 低功率射頻電機須忍受合法通信或工業、科 學及醫療用電波輻射性電機設備之干擾。

無線傳輸設備 (UNII)

在 5.25-5.35 秭赫頻帶內操作之無線資訊傳輸設備,限於室內使用。 (4.7.5)

無線資訊傳輸設備忍受合法通信之干擾且不得干擾合法通信;如造成干擾,應立即停用,俟無干擾 之虞,始得繼續使用。 (4.7.6)

無線資訊傳設備的製造廠商應確保頻率穩定性,如依製造廠商使用手冊上所述正常操作,發射的信 號應維持於操作頻帶中。(4.7.7)

Appendix D. FR Statement

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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 dealer or an experienced radio/ TV technician for help.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

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.

RF Exposure Information (SAR)

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels.

The highest SAR value for the device as reported to the FCC is 1.536 W/kg when placed next to the body.

This device is operation in 5.15 - 5.25GHz frequency range, then restricted in indoor use only, Outdoor operations in the $5150 \sim 5250$ MHz is prohibit.

Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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Canada, avis d'Industry Canada (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-210. Son fonctionnement est soumis aux deux conditions suivantes :

- (1) cet appareil ne doit pas causer d'interférence et
- (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio f requency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the IC Specific Absorption Rate ("SAR") limits when operated in portable exposure conditions.

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce dispositif a été évalué pour et démontré conforme à la Taux IC d'absorption spécifique ("SAR") des limites lorsqu'il est utilisé dans des conditions d'exposition portatifs.

警語

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、 加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停 用,並改善至無干擾時方得繼續使用。

前項合法通信,指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、 科學及醫療用電波輻射性電機設備之干擾。