


lenovo

Lenovo Blu-Ray Burner User Guide

 <http://www.lenovo.com/safety>

Note: Before installing the product, be sure to read the warranty information in Appendix D “Lenovo Limited Warranty” on page 19.

Fifth Edition (June 2015)

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Safety information

Before using the product, be sure to read the safety documentation that comes with the product.

Antes de usar o produto, certifique-se de ler a documentação de segurança incluída.

Prije korištenja proizvoda svakako pročitajte priloženu dokumentaciju koja se tiče sigurnosti.

Před použitím produktu je třeba si přečíst bezpečnostní dokumentaci, která je dodávána s produktem.

Før du bruger produktet, skal du sørge for at læse de sikkerhedsforskrifter, der følger med produktet.

Lue tuotteen mukana toimitetut turvaohjeet ennen tämän tuotteen käyttöä.

Avant d'utiliser le produit, veuillez à bien lire la documentation relative à la sécurité fournie avec le produit.

Πριν να χρησιμοποιήσετε το προϊόν, διαβάστε τα έγγραφα για την ασφάλεια που το συνοδεύουν.

Vor Verwendung des Produkts sollten Sie unbedingt die Sicherheitsdokumentation lesen, die im Lieferumfang des Produkts enthalten ist.

A termék használatá elött mindenképpen olvassa el a termékhez kapott biztonsági előírásokat.

Prima di utilizzare il prodotto, accertarsi di leggere la documentazione sulla sicurezza fornita con il prodotto.

Пред користење на производот, прочитајте ја документацијата за безбедност што се доставува со него.

Lees, voordat u het product gebruikt, de veiligheidsdocumentatie die met het product is meegeleverd.

Før du bruker produktet, må du lese sikkerhetsdokumentasjonen som følger med produktet.

Przed skorzystaniem z produktu należy zapoznać się z dokumentacją na temat bezpieczeństwa dostarczoną wraz z produktem.

Antes de utilizar o produto, certifique-se de que lê a documentação de segurança fornecida com o produto.

Прежде чем использовать этот продукт, ознакомьтесь с документацией по технике безопасности, входящей в комплект поставки продукта.

Pred používaním produktu si prečítajte bezpečnostnú dokumentáciu dodanú s produktom.

Preden začnete uporabljati izdelek, preberite varnostno dokumentacijo, ki ste jo prejeli skupaj z izdelkom.

Antes de utilizar el producto, asegúrese de leer la documentación de seguridad que se entrega junto con este.

Läs säkerhetsinstruktionerna som följer med produkten innan du börjar använda den.

قبل استخدام المنتج، تأكد من قراءة مستندات السلامة المرفقة مع المنتج.

製品をご使用になる前に、製品に付属の安全に関する資料をお読みください。

제품을 사용하기 전에 제품과 함께 제공되는 안전 문서를 반드시 읽어 주십시오.

使用产品前，务必先阅读产品附带的安全文档。

使用本產品之前，請務必閱讀產品隨附的安全文件。

Chapter 1. About the drive

This chapter provides product and software descriptions for the Lenovo® Blu-ray Burner (hereafter called the drive).

Product description

The drive can read and write to Blu-ray discs. It is compatible with the DVD Multi-Recorder specification and can record and read DVD-RAM, DVD+/-RW, and DVD+/-R (for General, 650 nm) media. The drive also can record CD-R, CD-RW, and High-Speed CD-RW media, and can use the buffer underrun prevention technology for reliable CD burning. The drive can read many other formats including DVD Videos, Video CDs, audio CDs, multi-session discs, extended architecture (XA) CDs, and Kodak Photo CDs.

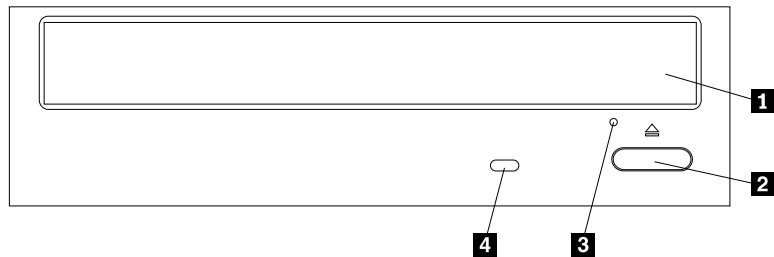
The option package includes:

- Lenovo Blu-ray Burner
- SATA cable
- Screws
- *Software and User Guide Disc*
- *Laser Safety Information*
- Setup and warranty poster

Contact your place of purchase if any item is missing or damaged. Be sure to retain your proof of purchase and packing material. They might be required to receive warranty service.

Locating the drive controls

The following figure shows the location of the controls on the drive.



1 Disc tray: Used to firmly seat the disc with the label facing up.

2 Open/Close button: Press this button to open or close the disc tray.

Note: Be sure to check that nothing is placed in front of the disc tray when opening.

3 Emergency eject hole: Used to open the disc tray in an emergency when the drive is powered off. For more information, refer to “Manually opening the disc tray” on page 7.

4 LED indicator: Used to indicate disc activity.

- **LED is flashing:** The drive is reading or writing.
- **LED is off:** The drive is not reading or writing.

System requirements

To install the drive, your computer must be installed on Windows® operating systems.

To enable satisfactory playback of high definition video, your computer must contain a compatible high-performance video graphics card.

Software description

The *Software and User Guide Disc* contains the following programs:

- **PowerDVD Create**

This program enables you to perform the following tasks:

- Add your own videos and create custom menus for DVD videos that you created
- Author data discs
- Burn saved images to discs
- Copy discs
- Create audio CDs and MP3 CDs
- Create bootable CDs
- Create DVD-RAM, DVD-RW, DVD-R, DVD+RW, and DVD+R media that can be played on both the DVD player of your computer and stand-alone DVD players
- Edit and modify your own video
- Import and edit unprotected DVD discs

- Save disc images for later recording
- View and extract files from ISO disc images

Note: If you have an analog, USB, or IEEE 1394 capture device installed on your computer, you can use this program to record videos from a camera.

- **PowerDVD**

This program enables you to perform the following tasks:

- Play video files
- Play back DVD videos

Note: Lenovo reserves the right to change and update the optical software without notice. For more information, go to <http://www.lenovo.com/support>, and click **Drivers & Software**.

Chapter 2. Installing the drive

This chapter provides information on how to install the drive.

Before you begin

Before installing the drive, read the following information carefully.

- The drive is shipped with a static-protective package. Do not open the package until you are ready to install the drive.
- Limit your movement when installing the drive. Movement can cause static electricity to build up around you.
- Carefully handle the drive. Shaking or dropping the drive might damage the components inside the drive.
- Take caution when connecting the drive to avoid damaging the connectors or the drive.

Installing the drive

You can install the drive horizontally or vertically in a computer. For both installation ways, you must secure the disc that you insert before you close the disc tray, otherwise the drive will not be able to read the disc correctly.

To install the drive, do the following:

1. Turn off all attached devices and the computer. Then, disconnect all power cords from electrical outlets and disconnect all cables that are connected to the computer.
2. Remove the computer cover. Refer to the documentation that came with your computer for instructions on removing the computer cover.
3. Locate the drive bay.
4. Touch the static-protective package that contains the drive to any unpainted surface for at least two seconds. Then, take the drive out of the package.
5. Slide the drive into the drive bay.
6. Align the screw holes in the drive with those in the bracket. Then, tighten the screws to install the drive.

Note: Be sure to use the screws in the option package to install the drive. Using any screws other than those provided might damage the drive.

7. Connect the power cable **1** that comes with your computer and the SATA cable **2** to the rear of the drive. Then, connect the other end of the SATA cable to the appropriate SATA connector on the system board in your computer.

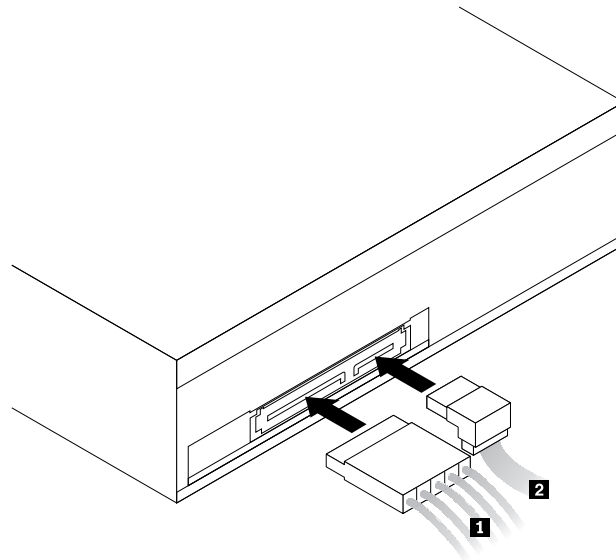


Figure 1. Connecting the power cable and SATA cable to the rear of the drive

8. Reinstall the computer cover.

Notes:

- Ensure that the drive is securely installed and that the cables are firmly connected.
- Ensure that the cables do not interfere with the computer cover, and that they do not block the system fan blades or airflow paths.

Installing software

After you have installed the drive to your computer, you can install the software on the *Software and User Guide Disc*.

To install the software, do the following:

1. Save any open documents and exit all applications.
2. Insert the *Software and User Guide Disc* and do one of the following:
 - If the disc starts automatically, go to step 3.
 - If the AutoPlay window opens, click **Run ViewHtml.exe**. Then, go to step 3.
 - If the disc does not start automatically, go into **My Computer** , **Computer** , or **This PC** , browse the CD/DVD drive, and double-click **ViewHtml.exe**.
3. Select your language.
4. On the left side of the window, click **Software**.
5. Follow the instructions on the screen.

Chapter 3. Using the drive

This chapter provides information on how to use the drive.

Before you begin

For best results, review the following guidelines before using the drive:

- Do not move your computer while formatting or writing to a disc as this might cause data errors. Also, minimize typing while formatting or writing to a disc, as this might also cause data errors.
- Keep the computer on a flat surface when writing to a disc.
- Make sure that the computer is plugged into an ac outlet when using the drive. The disc might be damaged if the battery runs out while writing to a disc.
- Turn screensavers off. Using a screensaver might interrupt the formatting and writing process.
- Do not put your computer into hibernation or suspend mode while writing to a disc.

Note: The read and write results of the drive depend upon the quality and characteristics of the media used.

Inserting a disc

To insert a disc into the drive, do the following:

1. Turn on the computer.
2. Press the Open/Close button.
3. Insert a disc with the label facing up into the disc tray, and make sure that the disc is placed securely.
4. Close the disc tray by pressing the Open/Close button or by gently pushing the disc tray in.

Manually opening the disc tray

If you press the Open/Close button and the disc tray does not open, do the following to manually open the disc tray:

1. Turn off the computer.
2. Straighten a paper clip with the straightened end extending at least 45 mm (1.8 inches).

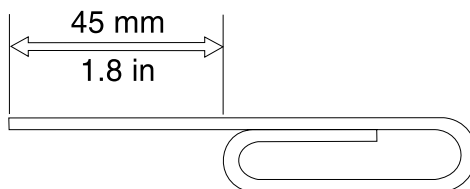


Figure 2. The straightened paper clip

3. Insert the straightened end into the emergency eject hole, and push the paper clip into the hole until the disc tray opens.
4. Gently pull the disc tray out until you can remove the disc.

Caring for the drive

To protect your drive when using, take the following precautions:

- Avoid exposing the drive to the following conditions:
 - Direct sunlight
 - Excessive dust
 - High humidity
 - High temperature
 - Mechanical vibration
 - Placement on an inclined surface
 - Sudden shock or dropping
 - Sudden temperature change
- Do not insert foreign objects into the drive.
- Do not move the drive when it is in use. Such movement might cause data error or damage the drive or disc.
- Do not move the drive without removing any discs from the disc tray and making sure that the disc tray is closed.
- Do not remove the drive cover or attempt to repair the drive.
- Do not stack objects on the drive.

Note: Keep the original packaging materials. If you need to ship the drive to a different location, use the original packaging materials to ensure that the drive is transported safely.

Caring for discs

Discs are high-density media that must be handled with care and kept clean to ensure that they remain readable. Take the following precautions to extend the service life of your discs:

- Check discs for cracks before each use.
- Do not bend or flex discs.
- Do not insert discs into the drive or packaging materials with force.
- Do not touch the disc surface.
- Do not use commercial cleaners to clean discs.
- Do not write on the disc surface.
- Handle discs by the edges or the center hole.
- Remove discs from the disc tray when they are not in use.
- Store discs away from direct heat sources.
- Store discs in their original packaging materials.
- Store discs out of direct sunlight.

Using Blu-ray discs

The drive can read pressed Blu-ray discs and can read and write BD-R and BD-RE discs.

Pressed Blu-ray discs are read-only and can contain movies or data. Pressed Blu-ray discs are available in two sizes, 25 GB and 50 GB. The drive can read both single-layer (25 GB) and dual-layer (50 GB) discs.

BD-R discs can be written once, and cannot be erased. You can use BD-R discs to store data, archive files, and copy files from another disc.

BD-RE discs can be erased and rewritten. You can use BD-RE discs to store data, archive files, and copy files from another disc.

You can easily copy Blu-ray discs to a hard disk drive or other media. Data files that are copied will act as if they were on the discs. Movies that are copied from Blu-ray discs are protected by the Advanced Access Content System (AACS) and cannot be played back after copying.

Notes:

1. Blu-ray discs cannot be read at all in a normal DVD drive or player.
2. The drive does not write HD DVD discs.

Chapter 4. Using the software

This chapter provides information on how to use the software.

Viewing Blu-ray movies

You can use WinDVD to watch Blu-ray movies with the drive. These movies are usually of very high resolution, and have better picture and sound performance than normal DVDs. Blu-ray movies also have additional features such as games and Internet content. WinDVD can play back Blu-ray movies with excellent sound and picture quality.

Most Blu-ray movies are recorded at 1920 × 1080 resolution. WinDVD can scale this size to fit on your monitor or into a screen window. If the resolution of your monitor is sufficient, you can watch the movies at full size.

The cost of such a large resolution is that few video cards have enough power to display some Blu-ray movies without jerking. For best results on Blu-ray video, the **Hardware Acceleration** box in the WinDVD control panel should be checked.

Blu-ray movies are more interactive than DVD movies. The disc is enabled to determine what controls (stop, pause, and so on.) function and whether the mouse can be used. Most Blu-ray discs have chapter and setup menus that can be used while the movie is playing. Right-clicking on the video window and selecting **Pop-up on** will activate any in-line menu.

DVD copy protection

Commercial DVD movies are protected by the Content Scrambling System (CSS). Blu-Ray movies are protected by AACS. These schemes determine what can be played, copied, or displayed. There are three portions of CSS and AACS: Regionalization, Copy control, and Output control.

Regionalization

DVD and Blu-ray specifications divide the world into regions for playback of different discs. Content designated for one region cannot be read by playback systems in another region.

DVD specifications divide the world into seven unique regions. These regions are numbered “1” to “7.” The region codes for DVD are stored on the drive. The DVD specifications enable an initial setting and four setting changes. On the initial setting, no disc is required to change the code. On a region change, a single region disc from the proper region must be in the drive. After the last change is made, the drive becomes locked into the last setting forever. As the drive manages the regionalization of DVD, both the drive and the disc can be checked for the region. WinDVD will alert you if a wrong region disc is inserted, and offer you the choice of changing the region. You can decide to change the region or cancel playback at that time.

The Blu-ray specification divides the world into three unique regions. Blu-ray regions are lettered “A” to “C.” The region code for Blu-ray is stored in the registry of your computer. Blu-ray enables an initial setting and four setting changes. Blu-ray does not enable a player to check the region before playing. Thus any region can be set regardless of whether the disc is in the drive or not. After the last change is made, the Windows operating system becomes locked into the last setting forever. With the setting stored in the software, re-installing the Windows operating system will reset the Blu-ray player to “no region.”

Copy control

There are several types of copy control used in DVD and Blu-ray video. Copy control is used to prevent a physical copy of the disc from being made. The types of copy control are Content Scrambling System Encryption (CSSE), AACS Encryption, and Copy Generation Management System (CGMS).

CSSE physically prevents a DVD from being read. The drive cannot read CSS encrypted sectors unless using CSS keys from an authorized player.

AACS encryption is employed on a file basis. The files on the disc are decrypted for playback using keys stored outside the disc data area and in the software. The AACS keys in the drive software expire every 18 months and must be renewed. Renewal is an automatic Internet process that happens when the player detects that the AACS keys have expired. AACS encrypted files can be copied freely, but cannot be played without having the disc and an authorized player. Blu-ray uses AACS in slightly different ways. Blu-ray forbids any use of the files except on the original media.

CGMS is a data section on a CD, DVD, or Blu-ray disc. The CGMS bits mark a disc as “copy freely,” “copy one generation,” “copy never,” or “already copied.” Software and hardware that can copy discs should follow the CGMS bits and only copy when permitted. Almost all pressed video discs are set to “copy never.”

Output control

Output control is applied to the video signals that are displayed by the drive. The important forms of output control are Macrovision, High Definition Content Protection (HDCP), Serial Copy Management System (SCMS), and Disc Tokens.

Macrovision is a kind of technology applied to video signals to prevent copying to Video Tape Recorders. Macrovision signals are embedded in the video itself. Content protected by Macrovision cannot go to any analog device that does not support placing 4-bar color stripe marker signals in the video. When a protected video signal is encountered when playing to an output device that does not support color stripe, playback might halt. Content protected by Macrovision might halt on any attempt to send the video to a digital output device such as a DVI-connected monitor. DVD and Blu-ray support Macrovision.

HDCP is a digital encryption scheme to prevent protected video from being recorded from a digital connector such as DVI, USB, or Firewire. Video protected by CSS, AACS, or Macrovision cannot be sent to an unencrypted digital connection. Devices that are HDCP compliant establish an encrypted data link over which high-resolution video can be sent. Playback will halt if any protected video is sent to a digital output that is not HDCP compliant.

SCMS is a digital audio protection scheme. SCMS is used to prevent recording of digital audio through connections such as SPDIF or Toslink. SCMS consists of bits in a digital audio stream that specify “copy freely,” “copy one generation,” “copy never,” or “already copied.” These bits are placed in the audio whenever protected video is encountered. Recording devices use these bits to know they are enabled to copy the audio.

Disc Tokens are a Blu-ray specific implementation. Blu-ray has several disc bits defined to forbid video from going to an analog monitor or a digital link, or to reduce quality. These bits will entirely blank the video unless a permitted output device is being used.

Appendix A. Product specifications

This appendix includes the following information about the drive:

- Physical specifications
- Power requirements
- Environmental requirements
- Read speeds
- Write speeds

Physical specifications

The physical specifications¹ of the drive are listed in this table:

Height	42 mm (1.65 inches)
Width	146 mm (5.75 inches)
Length	172 mm (6.77 inches)
Weight	approximately 800 g (1.76 lb)

Power requirements

The following table lists the power specifications by voltage level for the drive. The power specifications are measured at the power cable connector of the drive and are nominal values.

Power specifications	Voltage	Average	Maximum
At voltage	5 V dc	1100 mA	1500 mA
At voltage	12 V dc	1000 mA	1500 mA

Environmental requirements

Specifications	Operating	Storage
Temperature (non-condensing)	5°C to 45°C (41°F to 113°F)	-30°C to 60°C (-22°F to 140°F)
Relative humidity	15% to 80%	10% to 90%

Read speeds

Media	Read speed
CD-ROM	40X Max
DVD-ROM	16X Max
BD-ROM	8X Max

1. Product description data represents Lenovo's design objectives and is provided for comparative purposes; actual results might vary based on a variety of factors. This product data does not constitute a warranty. Data is subject to change without notice.

Write speeds

Media	Write speed
CD-R	40X Max
CD-RW	24X Max
DVD-R	16X Max
DVD+R	16X Max
DVD-R Dual Layer	8X Max
DVD+R Double Layer	8X Max
DVD-RW	6X Max
DVD+RW	8X Max
DVD-RAM	5X Max
BD-R	6X Max
BD-RE	2X Max
BD-R Dual Layer	6X Max
BD-RE Dual Layer	2X Max

Note: 1 x CD = 150 KB/s; 1 x DVD = 1.385 MB/s.

Appendix B. Troubleshooting

Computer problems can be caused by hardware, software, or user error. The information in this appendix might be useful to help you solve problems or to gather helpful information you can pass on to a service technician. You might also need to refer to your computer or operating system publications.

Review the following list for any problem descriptions that might fit your situation.

You cannot create a multi-session CD or DVD.

Be sure that there is enough space left on the disc for another session. Writing a session requires about 15 Megabytes (MB) lead-in and lead-out space in addition to the data that is recorded.

You cannot successfully write to a CD-R, CD-RW, DVD-R, DVD-RW, BD-R, BD-RE, or DVD-RAM disc.

To fix the problem, do the following:

1. Verify that the process is not being interrupted by a screensaver, an antivirus program, an Internet or e-mail program, or other software. Disable the functions that might interrupt the write operation.
2. Verify that the drive has been defragmented.
3. Consult the drive manufacturer or vendor if an older hard disk drive is conducting a thermal recalibration during a write operation.
4. Replace the CD if it is bad or scratched.
5. Disable the Windows Auto Insert Notify function on your CD-ROM and CD-RW drives.

You cannot eject a CD or DVD disc.

Refer to the instructions in “Manually opening the disc tray” on page 7.

You cannot read from the CD or DVD disc after successfully writing to it.

To fix the problem, do the following:

- You might have a damaged CD-R, CD-RW, DVD-R, DVD-RW, or DVD-RAM disc. Try a new disc or another brand of CD or DVD disc.
- If you can read from a CD-RW, DVD-RW, or DVD-RAM disc in the drive that writes to it, but not in the drive of another computer, be sure that a UDF Reader program is installed on that computer.
- Avoid writing at the slower 1X speed unless required by your computer.

Blu-ray video drops frames or is jerky.

To fix the problem, do the following:

- Ensure that you select **Hardware Acceleration** in the WinDVD Tools dialog.
- Ensure that your disc is clean and free of scratches.

Note: Some Blu-ray video content cannot be played at full frame rate without advanced video hardware.

Blu-ray video menus do not always work with the mouse.

This is normal. BD-J (Blu-ray Disc Java) menus are controlled by the disc. Use the system keyboard to navigate the menu.

While playing a Blu-ray video, a “Region Error” occurs and the WinDVD controls do not function correctly.

This is usual on a region mismatch. To fix the problem, do the following:

1. Close WinDVD and eject the disc.
2. Reopen WinDVD and change the region to match the disc.
3. Re-insert the disc to play it.

The controls for “Menu,” “Play,” “Fast forward,” “Stop,” or “Skip” are dimmed at the beginning of Blu-ray disc playback.

This is normal.

A message showing “Copy protection error. Playback Stopped.” is displayed when using WinDVD.

To fix the problem, do the following:

- If an external display is connected, ensure that it supports Macrovision copy protection.
- Ensure that in the Windows Vista environment, your video driver supports the Protected Media Path feature.
- Disable the analog display if only watching on the attached LCD screen.

Blu-ray playback has poor performance in battery mode only.

The system is overheating and throttling the GPU (Graphic Processing Unit). To fix the problem, do the following:

- Move the system to a cooler location.
- Turn off Hardware Acceleration in WinDVD temporarily.
- Connect the ac adapter during playback.

After changing users in the Windows Vista (64-bit) environment, autoplay no longer works for DVD or Blu-ray media.

This is a Windows Vista defect. To fix the problem, do the following:

1. Log on as a new user.
2. Go to **Control Panel → Autoplay**.
3. Select **WinDVD** for autoplay of DVD and Blu-ray media.

Appendix C. 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.

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. A Lenovo technical support representative can help you determine the best alternative. In addition, if your Lenovo option is installed into a Lenovo computer, the option takes on the warranty of the computer in which it is installed. For many Lenovo computers, this can entitle the Lenovo option for warranty service up to three years.

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 canceled, 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>. If the telephone number for your country or region is not listed, contact your Lenovo reseller or Lenovo marketing representative.

Accessibility information

Documentation in accessible formats

Lenovo provides electronic documentation in accessible formats, such as properly tagged PDF files or HyperText Markup Language (HTML) files. Lenovo electronic documentation is developed to ensure that visually impaired users can read the documentation through a screen reader. Each image in the documentation also includes adequate alternative text to explain the image so that visually impaired users can understand the image when they use a screen reader.

To open and view PDF files, your computer must have the Adobe Reader program installed. The Adobe Reader program also is available for download at:
<http://www.adobe.com>

Appendix D. Lenovo Limited Warranty

L505-0010-02 08/2011

This Lenovo Limited Warranty consists of the following parts:

Part 1 - General Terms

Part 2 - Country-specific Terms

Part 3 - Warranty Service Information

The terms of **Part 2** replace or modify terms of **Part 1** as specified for a particular country.

Part 1 - General Terms

This Lenovo Limited Warranty applies only to Lenovo hardware products you purchased for your own use and not for resale. This Lenovo Limited Warranty is available in other languages at www.lenovo.com/warranty.

What this Warranty Covers

Lenovo warrants that each Lenovo hardware product that you purchase is free from defects in materials and workmanship under normal use during the warranty period. The warranty period for the product starts on the original date of purchase as shown on your sales receipt or invoice or as may be otherwise specified by Lenovo. The warranty period and type of warranty service that apply to your product are as specified in "**Part 3 - Warranty Service Information**" below. This warranty only applies to products in the country or region of purchase.

THIS WARRANTY IS YOUR EXCLUSIVE WARRANTY AND REPLACES ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. AS SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF EXPRESS OR IMPLIED WARRANTIES, THE ABOVE EXCLUSION MAY NOT APPLY TO YOU. IN THAT EVENT, SUCH WARRANTIES APPLY ONLY TO THE EXTENT AND FOR SUCH DURATION AS REQUIRED BY LAW AND ARE LIMITED IN DURATION TO THE WARRANTY PERIOD. AS SOME STATES OR JURISDICTIONS DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, THE ABOVE LIMITATION ON DURATION MAY NOT APPLY TO YOU.

How to Obtain Warranty Service

If the product does not function as warranted during the warranty period, you may obtain warranty service by contacting Lenovo or a Lenovo approved Service Provider. A list of approved Service Providers and their telephone numbers is available at: www.lenovo.com/support/phone.

Warranty service may not be available in all locations and may differ from location to location. Charges may apply outside a Service Provider's normal service area. Contact a local Service Provider for information specific to your location.

Customer Responsibilities for Warranty Service

Before warranty service is provided, you must take the following steps:

- follow the service request procedures specified by the Service Provider;

- backup or secure all programs and data contained in the product;
- provide the Service Provider with all system keys or passwords;
- provide the Service Provider with sufficient, free, and safe access to your facilities to perform service;
- remove all data, including confidential information, proprietary information and personal information, from the product or, if you are unable to remove any such information, modify the information to prevent its access by another party or so that it is not personal data under applicable law. The Service Provider shall not be responsible for the loss or disclosure of any data, including confidential information, proprietary information, or personal information, on a product returned or accessed for warranty service;
- remove all features, parts, options, alterations, and attachments not covered by the warranty;
- ensure that the product or part is free of any legal restrictions that prevent its replacement;
- if you are not the owner of a product or part, obtain authorization from the owner for the Service Provider to provide warranty service.

What Your Service Provider Will Do to Correct Problems

When you contact a Service Provider, you must follow the specified problem determination and resolution procedures.

The Service Provider will attempt to diagnose and resolve your problem by telephone, e-mail or remote assistance. The Service Provider may direct you to download and install designated software updates.

Some problems may be resolved with a replacement part that you install yourself called a “Customer Replaceable Unit” or “CRU.” If so, the Service Provider will ship the CRU to you for you to install.

If your problem cannot be resolved over the telephone; through the application of software updates or the installation of a CRU, the Service Provider will arrange for service under the type of warranty service designated for the product under “**Part 3 - Warranty Service Information**” below.

If the Service Provider determines that it is unable to repair your product, the Service Provider will replace it with one that is at least functionally equivalent.

If the Service Provider determines that it is unable to either repair or replace your product, your sole remedy under this Limited Warranty is to return the product to your place of purchase or to Lenovo for a refund of your purchase price.

Replacement Products and Parts

When warranty service involves the replacement of a product or part, the replaced product or part becomes Lenovo’s property and the replacement product or part becomes your property. Only unaltered Lenovo products and parts are eligible for replacement. The replacement product or part provided by Lenovo may not be new, but it will be in good working order and at least functionally equivalent to the original product or part. The replacement product or part shall be warranted for the balance of the period remaining on the original product.

Use of Personal Contact Information

If you obtain service under this warranty, you authorize Lenovo to store, use and process information about your warranty service and your contact information, including name, phone numbers, address, and e-mail address. Lenovo may use this information to perform service under this warranty. We may contact you to inquire about your satisfaction with our warranty service or to notify you about any product recalls or safety issues. In accomplishing these purposes, you authorize Lenovo to transfer your information to any country where we do business and to provide it to entities acting on our behalf. We may also disclose it where required by law. Lenovo’s privacy policy is available at www.lenovo.com/.

What this Warranty Does not Cover

This warranty does not cover the following:

- uninterrupted or error-free operation of a product;
- loss of, or damage to, your data by a product;
- any software programs, whether provided with the product or installed subsequently;
- failure or damage resulting from misuse, abuse, accident, modification, unsuitable physical or operating environment, natural disasters, power surges, improper maintenance, or use not in accordance with product information materials;
- damage caused by a non-authorized service provider;
- failure of, or damage caused by, any third party products, including those that Lenovo may provide or integrate into the Lenovo product at your request;
- any technical or other support, such as assistance with “how-to” questions and those regarding product set-up and installation;
- products or parts with an altered identification label or from which the identification label has been removed.

Limitation of Liability

Lenovo is responsible for loss or damage to your product only while it is in the Service Provider’s possession or in transit, if the Service Provider is responsible for the transportation.

Neither Lenovo nor the Service Provider is responsible for loss or disclosure of any data, including confidential information, proprietary information, or personal information, contained in a product.

UNDER NO CIRCUMSTANCES, AND NOTWITHSTANDING THE FAILURE OF ESSENTIAL PURPOSE OF ANY REMEDY SET FORTH HEREIN, SHALL LENOVO, ITS AFFILIATES, SUPPLIERS, RESELLERS, OR SERVICE PROVIDERS BE LIABLE FOR ANY OF THE FOLLOWING EVEN IF INFORMED OF THEIR POSSIBILITY AND REGARDLESS OF WHETHER THE CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, STRICT LIABILITY OR OTHER THEORY OF LIABILITY: 1) THIRD PARTY CLAIMS AGAINST YOU FOR DAMAGES; 2) LOSS, DAMAGE OR DISCLOSURE OF YOUR DATA; 3) SPECIAL, INCIDENTAL, PUNITIVE, INDIRECT OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, BUSINESS REVENUE, GOODWILL OR ANTICIPATED SAVINGS. IN NO CASE SHALL THE TOTAL LIABILITY OF LENOVO, ITS AFFILIATES, SUPPLIERS, RESELLERS OR SERVICE PROVIDERS FOR DAMAGES FROM ANY CAUSE EXCEED THE AMOUNT OF ACTUAL DIRECT DAMAGES, NOT TO EXCEED THE AMOUNT PAID FOR THE PRODUCT.

THE FOREGOING LIMITATIONS DO NOT APPLY TO DAMAGES FOR BODILY INJURY (INCLUDING DEATH), DAMAGE TO REAL PROPERTY OR DAMAGE TO TANGIBLE PERSONAL PROPERTY FOR WHICH LENOVO IS LIABLE UNDER LAW. AS SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

Your Other Rights

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS ACCORDING TO THE APPLICABLE LAWS OF YOUR STATE OR JURISDICTION. YOU MAY ALSO HAVE OTHER RIGHTS UNDER A WRITTEN AGREEMENT WITH LENOVO. NOTHING IN THIS WARRANTY AFFECTS STATUTORY RIGHTS, INCLUDING RIGHTS OF CONSUMERS UNDER LAWS OR REGULATIONS GOVERNING THE SALE OF CONSUMER GOODS THAT CANNOT BE WAIVED OR LIMITED BY CONTRACT.

Part 2 - Country-specific Terms

Australia

“Lenovo” means Lenovo (Australia & New Zealand) Pty Limited ABN 70 112 394 411. Address: Level 10, North Tower, 1-5 Railway Street, Chatswood, NSW, 2067. Telephone: +61 2 8003 8200. Email: lenosyd_au@lenovo.com

The following replaces the same section in Part 1:

What this Warranty Covers:

Lenovo warrants that each hardware product that you purchase is free from defects in materials and workmanship under normal use and conditions during the warranty period. If the product fails due to a covered defect during the warranty period, Lenovo will provide you a remedy under this Limited Warranty. The warranty period for the product starts on the original date of purchase specified on your sales receipt or invoice unless Lenovo informs you otherwise in writing. The warranty period and type of warranty service that apply to your product are set forth below in **Part 3 - Warranty Service Information**.

THE BENEFITS GIVEN BY THIS WARRANTY ARE IN ADDITION TO YOUR RIGHTS AND REMEDIES AT LAW, INCLUDING THOSE UNDER THE AUSTRALIAN CONSUMER LAW.

The following replaces the same section in Part 1:

Replacement Products and Parts:

When warranty service involves the replacement of a product or part, the replaced product or part becomes Lenovo’s property and the replacement product or part becomes your property. Only unaltered Lenovo products and parts are eligible for replacement. The replacement product or part provided by Lenovo may not be new, but it will be in good working order and at least functionally equivalent to the original product or part. The replacement product or part shall be warranted for the balance of the period remaining on the original product. Products and parts presented for repair may be replaced by refurbished products or parts of the same type rather than being repaired. Refurbished parts may be used to repair the product; and repair of the product may result in loss of data, if the product is capable of retaining user-generated data.

The following is added to the same section in Part 1:

Use of Personal Contact Information:

Lenovo will not be able to perform our service under this warranty if you refuse to provide your information or do not wish us to transfer your information to our agent or contractor. You have the right to access your personal contact information and request correction of any errors in it pursuant to the Privacy Act 1988 by contacting Lenovo.

The following replaces the same section in Part 1:

Limitation of Liability:

Lenovo is responsible for loss or damage to your product only while it is in the Service Provider’s possession or in transit, if the Service Provider is responsible for the transportation.

Neither Lenovo nor the Service Provider is responsible for loss or disclosure of any data, including confidential information, proprietary information, or personal information, contained in a product.

TO THE EXTENT PERMITTED BY LAW, UNDER NO CIRCUMSTANCES AND NOTWITHSTANDING THE FAILURE OF ESSENTIAL PURPOSE OF ANY REMEDY SET FORTH HEREIN, SHALL LENOVO, ITS AFFILIATES, SUPPLIERS, RESELLERS, OR SERVICE PROVIDERS BE LIABLE FOR ANY OF THE FOLLOWING EVEN IF INFORMED OF THEIR POSSIBILITY AND REGARDLESS OF WHETHER THE CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, STRICT LIABILITY OR OTHER THEORY

OF LIABILITY: 1) THIRD PARTY CLAIMS AGAINST YOU FOR DAMAGES; 2) LOSS, DAMAGE OR DISCLOSURE OF YOUR DATA; 3) SPECIAL, INCIDENTAL, PUNITIVE, INDIRECT OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, BUSINESS REVENUE, GOODWILL OR ANTICIPATED SAVINGS. IN NO CASE SHALL THE TOTAL LIABILITY OF LENOVO, ITS AFFILIATES, SUPPLIERS, RESELLERS OR SERVICE PROVIDERS FOR DAMAGES FROM ANY CAUSE EXCEED THE AMOUNT OF ACTUAL DIRECT DAMAGES, NOT TO EXCEED THE AMOUNT PAID FOR THE PRODUCT.

THE FOREGOING LIMITATIONS DO NOT APPLY TO DAMAGES FOR BODILY INJURY (INCLUDING DEATH), DAMAGE TO REAL PROPERTY OR DAMAGE TO TANGIBLE PERSONAL PROPERTY FOR WHICH LENOVO IS LIABLE UNDER LAW.

The following replaces the same section in Part 1:

Your Other Rights:

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU ALSO HAVE OTHER RIGHTS AT LAW, INCLUDING UNDER THE AUSTRALIAN CONSUMER LAW. NOTHING IN THIS WARRANTY AFFECTS STATUTORY RIGHTS OR RIGHTS AT LAW, INCLUDING RIGHTS THAT CANNOT BE WAIVED OR LIMITED BY CONTRACT.

For example, our products come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the products repaired or replaced if the products fail to be of acceptable quality and the failure does not amount to a major failure.

New Zealand

The following is added to the same section in Part 1:

Use of Personal Information:

Lenovo will not be able to perform our service under this warranty if you refuse to provide your information or do not wish us to transfer your information to our agent or contractor. You have the right to access your personal information and request correction of any errors in it pursuant to the Privacy Act 1993 by contacting Lenovo (Australia & New Zealand) Pty Limited ABN 70 112 394 411. Address: Level 10, North Tower, 1-5 Railway Street, Chatswood, NSW, 2067. Telephone: 61 2 8003 8200. Email: lensyd_au@lenovo.com

Bangladesh, Cambodia, India, Indonesia, Nepal, Philippines, Vietnam and Sri Lanka

The following is added to Part 1:

Dispute Resolution

Disputes arising out of or in connection with this warranty shall be finally settled by arbitration held in Singapore. This warranty shall be governed, construed and enforced in accordance with the laws of Singapore, without regard to conflict of laws. If you acquired the product in **India**, disputes arising out of or in connection with this warranty shall be finally settled by arbitration held in Bangalore, India. Arbitration in Singapore shall be held in accordance with the Arbitration Rules of Singapore International Arbitration Center ("SIAC Rules") then in effect. Arbitration in India shall be held in accordance with the laws of India then in effect. The arbitration award shall be final and binding on the parties without appeal. Any award shall be in writing and set forth the findings of fact and the conclusions of law. All arbitration proceedings, including all documents presented in such proceedings shall be conducted in the English language. The English language version of this warranty prevails over any other language version in such proceedings.

European Economic Area (EEA)

The following is added to Part 1:

Customers in the EEA may contact Lenovo at the following address: EMEA Service Organisation, Lenovo (International) B.V., Floor 2, Einsteinova 21, 851 01, Bratislava, Slovakia. Service under this warranty for Lenovo hardware products purchased in EEA countries may be obtained in any EEA country in which the product has been announced and made available by Lenovo.

Russia

The following is added to Part 1:

Product Service Life

The product service life is four (4) years from the original date of purchase.

Part 3 - Warranty Service Information

Product Type	Country or Region of Purchase	Warranty Period	Type of Warranty Service
Lenovo Blu-Ray Burner	Worldwide	1 year	1, 4

If required, your Service Provider will provide repair or exchange service depending on the type of warranty service specified for your product and the available service. Scheduling of service will depend upon the time of your call, parts availability, and other factors.

Types of Warranty Service

1. Customer Replaceable Unit (“CRU”) Service

Under CRU Service, the Service Provider will ship CRUs to you at its cost for installation by you. CRU information and replacement instructions are shipped with your product and are available from Lenovo at any time upon request. CRUs that are easily installed by you are called “Self-service CRUs”. “Optional-service CRUs” are CRUs that may require some technical skill and tools. Installation of Self-service CRUs is your responsibility. You may request that a Service Provider install Optional-service CRUs under one of the other types of warranty service designated for your product. An optional service offering may be available for purchase from a Service Provider or Lenovo under which Self-service CRUs would be installed for you. You may find a list of CRUs and their designation in the publication that was shipped with your product or at www.lenovo.com/CRUs. The requirement to return a defective CRU, if any, will be specified in the instructions shipped with a replacement CRU. When return is required: 1) return instructions, a prepaid return shipping label, and a container will be included with the replacement CRU; and 2) you may be charged for the replacement CRU if the Service Provider does not receive the defective CRU from you within thirty (30) days of your receipt of the replacement CRU.

2. On-site Service

Under On-Site Service, a Service Provider will either repair or exchange the product at your location. You must provide a suitable working area to allow disassembly and reassembly of the product. Some repairs may need to be completed at a service center. If so, the Service Provider will send the product to the service center at its expense.

3. Courier or Depot Service

Under Courier or Depot Service, your product will be repaired or exchanged at a designated service center, with shipping at the expense of the Service Provider. You are responsible for disconnecting the product and packing it in a shipping container provided to you to return your product to a designated service center.

A courier will pick up your product and deliver it to the designated service center. The service center will return the product to you at its expense.

4. Customer Carry-In Service

Under Customer Carry-In Service, your product will be repaired or exchanged after you deliver it to a designated service center at your risk and expense. After the product has been repaired or exchanged, it will be made available to you for collection. If you fail to collect the product, the Service Provider may dispose of the product as it sees fit, with no liability to you.

5. Mail-In Service

Under Mail-In Service, your product will be repaired or exchanged at a designated service center after you deliver it at your risk and expense. After the product has been repaired or exchanged, it will be returned to you at Lenovo's risk and expense, unless the Service Provider specifies otherwise.

6. Customer Two-Way Mail-In Service

Under Customer Two-Way Mail-In Service, your product will be repaired or exchanged after you deliver it to a designated service center at your risk and expense. After the product has been repaired or exchanged, it will be made available to you for return shipping at your risk and expense. If you fail to arrange return shipment, the Service Provider may dispose of the product as it sees fit, with no liability to you.

7. Product Exchange Service

Under Product Exchange Service, Lenovo will ship a replacement product to your location. You are responsible for its installation and verification of its operation. The replacement product becomes your property in exchange for the failed product, which becomes the property of Lenovo. You must pack the failed product in the shipping carton in which you received the replacement product and return it to Lenovo. Transportation charges, both ways, shall be at Lenovo's expense. If you fail to use the carton in which the replacement product was received, you may be responsible for any damage to the failed product occurring during shipment. You may be charged for the replacement product if Lenovo does not receive the failed product within thirty (30) days of your receipt of the replacement product.

Suplemento de Garantía para México

Este Suplemento de Garantía se considera parte integrante de la Garantía Limitada de Lenovo y será efectivo única y exclusivamente para los productos distribuidos y comercializados dentro del Territorio de los Estados Unidos Mexicanos. En caso de conflicto, se aplicarán los términos de este Suplemento.

El comercializador responsable del producto es Lenovo México S de R L de CV y para efectos de esta garantía en la República Mexicana su domicilio es Paseo de Tamarindos No.400-A Piso 27 Arcos Torre Poniente, Bosques de Las Lomas, Delegación Miguel Hidalgo, C.P. 05120 México, D.F. En el caso de que se precise una reparación cubierta por la garantía o precise de partes, componentes, consumibles o accesorios diríjase a este domicilio.

Si no existiese ningún Centro de servicio autorizado en su ciudad, población o en un radio de 70 kilómetros de su ciudad o población, la garantía incluirá cualquier gasto de entrega razonable relacionado con el transporte del producto a su Centro de servicio autorizado más cercano. Por favor, llame al Centro de servicio autorizado más cercano para obtener las aprobaciones necesarias o la información relacionada con el envío del producto y la dirección de envío.

Esta garantía ampara todas las piezas de hardware del producto e incluye mano de obra.

El procedimiento para hacer efectiva la garantía consiste en la presentación del producto, acompañado de la póliza correspondiente, debidamente sellada por el establecimiento que lo vendió, o la factura, o recibo o comprobante, en el que consten los datos específicos del producto objeto de la compraventa.

Lenovo sólo pueden eximirse de hacer efectiva la garantía en los siguientes casos: a) Cuando el producto se hubiese utilizado en condiciones distintas a las normales. b) Cuando el producto no hubiese sido operado de acuerdo con el instructivo de uso que se le acompaña. c) Cuando el producto hubiese sido alterado o reparado por personas no autorizadas por el fabricante nacional, importador o comercializador responsable respectivo.

Todos los programas de software precargados en el equipo sólo tendrán una garantía de noventa (90) días por defectos de instalación desde la fecha de compra. Lenovo no es responsable de la información incluida en dichos programas de software y /o cualquier programa de software adicional instalado por Usted o instalado después de la compra del producto.

La garantía cubre la atención, revisión y corrección de errores, defectos o inconsistencias que impidan el desempeño normal de un equipo de cómputo en cuanto a su hardware y software. Los servicios no cubiertos por la garantía se cargarán al usuario final, previa obtención de una autorización.

Esta garantía tiene una duración de un año a partir del momento de la compra e incluye la mano de obra, por lo que en caso de aplicarse la garantía, esta no causara ningún gasto o costo para el cliente.

Centros de Servicios autorizados para hacer efectiva la garantía:

- Lenovo México con domicilio en Paseo de Tamarindos No.400-A Piso 27 Arcos, Torre Poniente, Bosques de Las Lomas, Delegación Miguel Hidalgo, C.P. 05120 México, D.F. Teléfono 01800- 083-4916, http://support.lenovo.com/es_MX/product-service/service-provider/default.page
- Lenovo Monterrey con domicilio en Boulevard Escobedo No.316, Apodaca Technology Park, Apodaca, C.P. 66601, Nuevo León, México. Teléfono 01800- 083-4916, http://support.lenovo.com/es_MX/product-service/service-provider/default.page

Importado por:

Lenovo México S. de R.L. de C.V.

Av. Santa Fe 505, Piso 15

Col. Cruz Manca

Cuajimalpa, D.F., México

C.P. 05349

Tel. (55) 5000 8500

Appendix E. Electronic emission notices

The following information refers to the Lenovo Blu-Ray Burner.

European Union - Compliance to the Electromagnetic Compatibility Directive

This product is in conformity with the protection requirements of EU Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility. Lenovo cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the installation of option cards from other manufacturers.

This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to European Standard EN 55022. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication devices.

Lenovo, Einsteinova 21, 851 01 Bratislava, Slovakia



German Class B compliance statement

Deutschsprachiger EU Hinweis:

Hinweis für Geräte der Klasse B EU-Richtlinie zur Elektromagnetischen Verträglichkeit

Dieses Produkt entspricht den Schutzanforderungen der EU-Richtlinie 2004/108/EG (früher 89/336/EWG) zur Angleichung der Rechtsvorschriften über die elektromagnetische Verträglichkeit in den EU-Mitgliedsstaaten und hält die Grenzwerte der EN 55022 Klasse B ein.

Um dieses sicherzustellen, sind die Geräte wie in den Handbüchern beschrieben zu installieren und zu betreiben. Des Weiteren dürfen auch nur von der Lenovo empfohlene Kabel angeschlossen werden. Lenovo übernimmt keine Verantwortung für die Einhaltung der Schutzanforderungen, wenn das Produkt ohne Zustimmung der Lenovo verändert bzw. wenn Erweiterungskomponenten von Fremdherstellern ohne Empfehlung der Lenovo gesteckt/eingebaut werden.

Deutschland:

Einhaltung des Gesetzes über die elektromagnetische Verträglichkeit von Betriebsmitteln

Dieses Produkt entspricht dem „Gesetz über die elektromagnetische Verträglichkeit von Betriebsmitteln“ EMVG (früher „Gesetz über die elektromagnetische Verträglichkeit von Geräten“). Dies ist die Umsetzung der EU-Richtlinie 2004/108/EG (früher 89/336/EWG) in der Bundesrepublik Deutschland.

Zulassungsbescheinigung laut dem Deutschen Gesetz über die elektromagnetische Verträglichkeit von Betriebsmitteln, EMVG vom 20. Juli 2007 (früher Gesetz über die elektromagnetische Verträglichkeit von Geräten), bzw. der EMV EG Richtlinie 2004/108/EC (früher 89/336/EWG), für Geräte der Klasse B.

Dieses Gerät ist berechtigt, in Übereinstimmung mit dem Deutschen EMVG das EG-Konformitätszeichen - CE - zu führen. Verantwortlich für die Konformitätserklärung nach Paragraf 5 des EMVG ist die Lenovo (Deutschland) GmbH, Gropiusplatz 10, D-70563 Stuttgart.

Informationen in Hinsicht EMVG Paragraf 4 Abs. (1) 4:

Das Gerät erfüllt die Schutzanforderungen nach EN 55024 und EN 55022 Klasse B.

Korea Class B compliance statement

B급 기기 (가정용 방송통신기자재)
이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

Lenovo product service information for Taiwan

台灣 Lenovo 產品服務資訊如下：
荷蘭商聯想股份有限公司台灣分公司
台北市內湖區堤頂大道二段89號5樓
服務電話：0800-000-702

Appendix F. Notices

Lenovo may not offer the products, services, or features discussed in this document in all countries. Consult your local Lenovo representative for information on the products and services currently available in your area. 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.

Lenovo may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

*Lenovo (United States), Inc.
1009 Think Place - Building One
Morrisville, NC 27560
U.S.A.
Attention: Lenovo Director of Licensing*

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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.

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/recycling>

Recycling and disposal information for Japan is available at:
<http://www.lenovo.com/recycling/japan>

Recycling information for China

《废弃电器电子产品回收处理管理条例》提示性说明

联想鼓励拥有联想品牌产品的用户当不再需要此类产品时，遵守国家废弃电器电子产品回收处理相关法律法规，将其交给当地具有国家认可的回收处理资质的厂商进行回收处理。更多回收服务信息，请点击进入
<http://support.lenovo.com.cn/activity/551.htm>

Recycling information for Brazil

Declarações de Reciclagem no Brasil

Descarte de um Produto Lenovo Fora de Uso

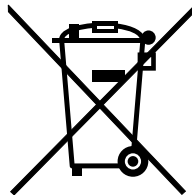
Equipamentos elétricos e eletrônicos não devem ser descartados em lixo comum, mas enviados à pontos de coleta, autorizados pelo fabricante do produto para que sejam encaminhados e processados por empresas especializadas no manuseio de resíduos industriais, devidamente certificadas pelos órgãos ambientais, de acordo com a legislação local.

A Lenovo possui um canal específico para auxiliá-lo no descarte desses produtos. Caso você possua um produto Lenovo em situação de descarte, ligue para o nosso SAC ou encaminhe um e-mail para: reciclar@lenovo.com, informando o modelo, número de série e cidade, a fim de enviarmos as instruções para o correto descarte do seu produto Lenovo.

Export Classification Notice

This product is subject to the United States Export Administration regulations (EAR) and has an Export Classification Control Number (ECCN) of EAR99. It can be re-exported except to any of the embargoed countries in the EAR E1 country list.

Important WEEE information



Electrical and electronic equipment marked with the symbol of a crossed-out wheeled bin may not be disposed as unsorted municipal waste. Waste of electrical and electronic equipment (WEEE) shall be treated separately using the collection framework available to customers for the return, recycling, and treatment of WEEE.

Country-specific information is available at:
<http://www.lenovo.com/recycling>

Trademarks

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

Windows is the trademark of the Microsoft group of companies.

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

Appendix G. Restriction of Hazardous Substances Directive (RoHS)

European Union RoHS

Lenovo products sold in the European Union, on or after 3 January 2013 meet the requirements of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (“RoHS recast” or “RoHS 2”).

For more information about Lenovo progress on RoHS, go to:
http://www.lenovo.com/social_responsibility/us/en/RoHS_Communication.pdf


China RoHS

为满足中国电子电气产品有害物质限制相关的法律法规和其他要求，联想公司对本产品中有害物质，按部件分类，声明如下。

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板组件*	X	O	O	O	O	O
外壳及配件	X	O	O	O	O	O

本表格依据SJ/T 11364的规定编制。
O：表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。
X：表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求。
表中标记“X”的部件，皆因全球技术发展水平限制而无法实现有害物质的替代。

印刷电路板组件*：包括印刷电路板及其零部件，电子元器件等
根据产品型号不同，您所购买的产品可能不会含有以上所有部件

 在中华人民共和国境内销售的电子电气产品上将印有“环保使用期”(EPUP)符号。圆圈中的数字代表产品的正常环保使用年限。

Turkish RoHS

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

Türkiye AEEE Yönetmeliğine Uygunluk Beyanı

Bu Lenovo ürünü, T.C. Çevre ve Orman Bakanlığı'nın “Atık Elektrik ve Elektronik Eşyalarda Bazı Zararlı Maddelerin Kullanımının Sınırlandırılmasına Dair Yönetmelik (AEEE)” direktiflerine uygundur.

AEEE Yönetmeliğine Uygundur.

Ukraine RoHS

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

India RoHS

RoHS compliant as per E-Waste (Management & Handling) Rules, 2011.

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