

# Asus A46CB User Manual

User's manual for english edition

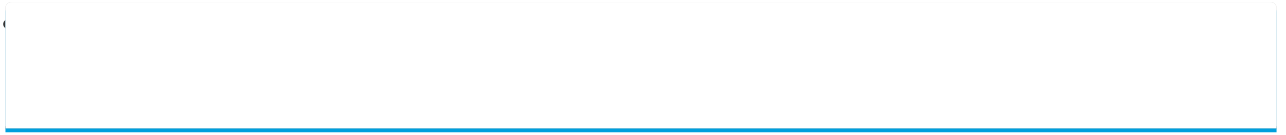


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E7596

# Notebook PC User Manual

July 2012

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### [Laptop Asus Q400VC User Manual](#)

User guide for english edition (30 pages)

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Notebook pc (76 pages)

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## Summary of Contents for Asus A46CB

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## [Page 5: Chapter 1: Introducing The Notebook Pc](#)

Chapter 1: Introducing the Notebook PC...

## [Page 6: About This User's Manual](#)

About This User's Manual You are reading the Notebook PC User's Manual. This User's Manual provides information regarding the various components in the Notebook PC and how to use them. The following are major sections of this User's Manual: 1. Introducing the Notebook PC Introduces you to the Notebook PC and this User's Manual.

## [Page 7: Safety Precautions](#)

Safety Precautions The following safety precautions will increase the life of the Notebook PC. Follow all precautions and instructions. Except as described in this manual, refer all servicing to qualified personnel. Disconnect the AC power and remove the battery pack(s) before cleaning the Notebook PC.

[Page 8](#) SAFE TEMP: This INPUT RATING: Refer to Notebook PC should the rating label on the only be used in bottom of the Notebook environments with PC and be sure that your ambient temperatures power adapter complies between 5°C (41°F) and with the rating.

## [Page 9: Sound Pressure Warning](#)

Sound Pressure warning Excessive sound pressure from earphones or headphones can cause hearing damage or loss. Adjustment of the volume control as well as the equalizer to settings other than the center position may increase the earphones or headphones output voltage and the sound pressure level.

## [Page 10: Airplane Precautions](#)

Cover Your Notebook PC Purchase a carrying bag to protect the Notebook PC from dirt, water, shock, and scratches. Charge Your Batteries If you intend to use battery power, be sure to fully charge your battery pack and any optional battery packs before going on long trips.

## [Page 11: Preparing Your Notebook Pc](#)

Preparing your Notebook PC These are only quick instructions for using your Notebook PC. Installing the Battery Pack A. Move the manual battery lock to the unlocked position. Align and insert the battery pack into the Notebook PC's battery slot. Move the manual battery lock back to the locked position after inserting the battery pack.

[Page 12](#) Opening the display panel A. Hold the base of your Notebook PC then lift up the display panel with your thumb. Slowly tilt the display panel forward or backward to a comfortable viewing angle. Turning the power on Press the power button. Notebook PC User Manual...

## [Page 13: Chapter 2: Knowing The Parts](#)

Chapter 2: Knowing the parts...

## [Page 14: Top Side](#)

Top Side The keyboard differs for each territory. The top side may vary in appearance depending on model. 15" model Notebook PC User Manual...



[Page 15](#) 14" model Notebook PC User Manual...

[Page 16](#) **Microphone (Built-in)** The built-in mono microphone can be used for video conferencing, voice narrations, or simple audio recordings **Camera** The built-in camera allows picture taking or video recording. Can be used with video conferencing and other interactive applications. **Camera Indicator (on selected models)** The camera indicator lights up when the built-in camera is in use.

[Page 17](#) **Power Button** The power button turns the Notebook PC ON and OFF, and wakes it up from suspend mode. Press the power button once to turn ON and once to turn OFF the Notebook PC. The power button only works when the display panel is opened.

### [Page 18: Bottom Side](#)

**Bottom Side** The bottom side may vary in appearance depending on model. The battery pack size varies depending on model. 15" model Notebook PC User Manual...

[Page 19](#) 14" model The bottom of the Notebook PC can get very hot. Be careful when handling the Notebook PC while it is in operation or recently been in operation. High temperatures are normal during charging or operation. **DO NOT USE ON SOFT SURFACES SUCH AS BEDS OR SOFAS WHICH MAY BLOCK THE VENTS.**

[Page 20](#) **Spring Battery Lock** The spring battery lock is used to keep the battery pack secured. When the battery pack is inserted, it will automatically lock. To remove the battery pack, this spring lock must be held in the unlocked position. **Battery Pack** The battery pack is automatically charged when the Notebook PC is connected to an AC power source and...

[Page 21](#) **Memory (RAM) Compartment** Memory (RAM) Compartment The memory compartment provides expansion capabilities for additional memory. Additional memory will increase application performance by decreasing hard disk access. The BIOS automatically detects the amount of memory in the system and configures CMOS accordingly during the POST (Power-On-Self-Test) process.

### [Page 22: Right Side](#)

**Right Side** 15" model 14" model / **Headphone Output/Microphone Input Combo Jack** This combo jack can be used to connect the Notebook PC's audio out signal to amplified speakers or headphones, or can be used to connect an external microphone or output signals from audio devices.

[Page 23](#) **Optical Drive (on selected models)** The Notebook PC comes in various models with different optical drives. The Notebook PC's optical drive may support compact discs (CD) and/or digital video discs (DVD) and may have recordable (R) or re-writable (RW) capabilities. See the marketing specifications for details on each model.

### [Page 24: Left Side](#)

**Left Side** 15" model 14" model **Power (DC) Input** The supplied power adapter converts AC power to DC power for use with this jack. Power supplied through this jack supplies power to the Notebook PC and charges the internal battery pack. To prevent damage to the Notebook PC and battery pack, always use the supplied power adapter.

[Page 25](#) **USB** supports hot-swapping of devices so that most peripherals can be connected or disconnected without restarting the computer. **USB Charger+** USB Charger+ allows you to quick charge your mobile device via your ASUS Notebook PC's USB charge port. Notebook PC User Manual...

### [Page 26: Rear Side](#)

**Rear Side** The battery pack size varies depending on model. **Battery Pack** The battery pack is automatically charged when the Notebook PC is connected to an AC power source and maintains power to the Notebook PC when AC power is not connected.

### [Page 27: Front Side](#)

**Front Side** 15" model 14" model **Memory Card Reader** Normally an external memory card reader must be purchased separately in order to use memory cards from devices such as digital

cameras, MP3 players, and mobile phones. This Notebook PC has a built-in high-speed memory high-speed memory card reader that can conveniently read from and write to from and write to...

### [Page 29: Chapter 3: Getting Started](#)

Chapter 3: Getting Started...

### [Page 30: Power System](#)

Power System Using AC Power The Notebook PC power is comprised of two parts, the power adapter and the battery power system. The power adapter converts AC power from a wall outlet to the DC power required by the Notebook PC. Your Notebook PC comes with a universal AC/DC adapter.

[Page 31](#) Damage may occur if you use a different adapter to power the Notebook PC or use the Notebook PC's adapter to power other electrical devices. If there is smoke, burning scent, or extreme heat coming from the AC/DC adapter, seek servicing. Seek servicing if you suspect a faulty AC/DC adapter.

### [Page 32: Using Battery Power](#)

Using Battery Power The Notebook PC is designed to work with a removable battery pack. The battery pack consists of a set of battery cells housed together. A fully charged pack will provide several hours of battery life, which can be further extended by using power management features through the BIOS setup.

### [Page 33: Battery Care](#)

To remove the battery pack: Only use battery packs and power adapters supplied with this Notebook PC or specifically approved by the manufacturer or retailer for use with this model or else damage may occur to the Notebook PC. Battery Care The Notebook PC's battery pack, like all rechargeable batteries, has a limit on the number of times it can be recharged.

### [Page 34: Powering On The Notebook Pc](#)

Powering ON the Notebook PC The Notebook PC's power-ON message appears on the screen when you turn it ON. If necessary, you may adjust the brightness by using the hot keys. If you need to run the BIOS Setup to set or modify the system configuration, press [f2] upon bootup to enter the BIOS Setup.

[Page 35](#) Self Monitoring and Reporting Technology The S.M.A.R.T. (Self Monitoring and Reporting Technology) checks the hard disk drive during POST and gives a warning message if the hard disk drive requires servicing. If any critical hard disk drive warning is given during bootup, backup your data immediately and run Windows disk checking program.

### [Page 36: Checking Battery Power](#)

Checking Battery Power The battery system implements the Smart Battery standard under the Windows environment, which allows the battery to accurately report the amount of charge left in the battery. A fully-charged battery pack provides the Notebook PC a few hours of working power.

### [Page 37: Charging The Battery Pack](#)

Charging the Battery Pack Before you use your Notebook PC on the road, you will have to charge the battery pack. The battery pack begins to charge as soon as the Notebook PC is connected to external power using the power adapter.

### [Page 38: Power Options](#)

Power Options The power switch turns ON and OFF the Notebook PC or putting the Notebook PC into sleep or hibernation modes. Actual behavior of the power switch can be customized in Windows Control Panel "Power Options." For other options, such as "Switch User, Restart, Sleep, or Shut Down," ...

### [Page 39: Emergency Shutdown](#)

Emergency Shutdown In case your operating system cannot properly turn OFF or restart, there is an additional way to shutdown your Notebook PC: Hold the power button over 4 seconds. DO

NOT use emergency shutdown while data is being written; doing so can result in loss or destruction of your data.

## [Page 40: Power Management Modes](#)

Power Management Modes The Notebook PC has a number of automatic or adjustable power saving features that you can use to maximize battery life and lower Total Cost of Ownership (TCO). You can control some of these features through the Power menu in the BIOS Setup. ACPI power management settings are made through the operating system.

[Page 41](#) Sleep is the same as Suspend-to- RAM (STR). This function stores your current data and status in RAM while many components are turned OFF. Because RAM is volatile, it requires power to keep (refresh) the data. Click the Windows button and the arrowhead next to the lock icon to see this option.

## [Page 42: Thermal Power Control](#)

Thermal Power Control There are three power control methods for controlling the Notebook PC's thermal state. These power control cannot be configured by the user and should be known in case the Notebook PC should enter these states. The following temperatures represent the chassis temperature (not CPU).

## [Page 43: Special Keyboard Functions](#)

Special Keyboard Functions Hot Keys The following defines the hot keys on the Notebook PC's keyboard. The commands can only be accessed by first pressing and holding the function key while pressing a key with a command. The Hot Key locations on the function keys may vary depending on model but the functions should remain the same.

[Page 44](#) LCD/Monitor Icons (f8): Toggles between the Notebook PC's LCD display and an external monitor in this series: LCD Only -> CRT Only (External Monitor) -> LCD + CRT Clone -> LCD + CRT Extend. (This function does not work in 256 Colors, select High Color in Display Property Settings.) NOTE: Must connect an external monitor "before"...

## [Page 45: Microsoft Windows Keys](#)

Power4Gear Hybrid (fn+Space Bar): This key toggles power savings between various power saving modes. The power saving modes control many aspects of the Notebook PC to maximize performance versus battery time. Applying or removing the power adapter will automatically switch the system between AC mode and battery mode.

## [Page 46: Keyboard As Numeric Keypad \(On Selected Models\)](#)

Keyboard as Numeric Keypad (on selected models) The numeric keypad is embedded in the keyboard and consists of 15 keys that make number intensive input more convenient. These dual-purpose keys are labeled in orange on the key caps. Numeric assignments are located at the upper right hand corner of each key as shown in the figure.

## [Page 47: Multimedia Control Keys](#)

Multimedia Control Keys The multimedia control keys allows for convenient controlling of the multimedia application. The following defines the meaning of each multimedia control key on the Notebook PC. Some control key functions may defer depending on Notebook PC model. Use the [fn] key in combination with the arrow keys for CD control functions.

## [Page 48: Button And Status Indicators](#)

Button and Status Indicators Button The top side may vary in appearance depending on model. Power Button The power button turns the Notebook PC ON and OFF. It also puts the Notebook PC into sleep or hibernate mode. The actual behavior of the power button can be customized in Windows Control Panel "Power Options."...

## [Page 49: Status Indicators](#)

Status Indicators 15" model 14" model Power Indicator The power indicator lights when the Notebook PC is turned ON and blinks slowly when the Notebook PC is in the Suspend-to- RAM (Sleep) mode. This indicator is OFF when the Notebook PC is turned OFF or in the Suspend-to-Disk (Hibernation) mode.

## [Page 50: Drive Activity Indicator](#)

Drive Activity Indicator Indicates that the Notebook PC is accessing one or more storage device(s) such as the hard disk. The light flashes proportional to the access time. Bluetooth / Wireless Indicator This is only applicable on models with internal Bluetooth (BT) and built-in wireless LAN.

## [Page 51: Chapter 4: Using The Notebook Pc](#)

Chapter 4: Using the Notebook PC...

## [Page 52: Touchpad](#)

Touchpad The touchpad is an interactive device that interprets the gestures and position of your fingers to simulate the functions of a regular mouse. It is also an alternative to mouse to position cursor onscreen. The following illustration shows the features of the touchpad:. Right-click button (area outside the dotted-line) Left-click button...

## [Page 53: Using The Touchpad](#)

Using the touchpad The touchpad allows you to use one-finger and multi-finger gestures to move the pointer so you can select and click items, rotate and zoom images, scroll lists, as well as swipe and switch between windows. Moving the pointer You can tap or click anywhere on the touchpad to activate its pointer, then slide your finger on the touchpad to move the pointer onscreen.

## [Page 54: Touchpad Usage Illustrations](#)

Touchpad usage illustrations Tapping - Tapping on the touchpad allows you to select items onscreen and open files. Tap once to select an item. Tap twice to open the selected item. Clicking - Clicking on the touchpad simulates the functions of the left mouse button and right mouse button.

[Page 55](#) Rotating - Rotating images clockwise or counterclockwise is done on the touchpad by using two fingers. To rotate an image, place two fingers on the touchpad then turn one finger clockwise or counterclockwise while the other stays still. Scrolling - Using two fingers on the touchpad, you can scroll through lists vertically and horizontally.

## [Page 56: Caring For The Touchpad](#)

Three-finger swiping - Using three fingers on the touchpad, you can swipe pages from left to right or right to left. You can also use this gesture to switch between active windows on your desktop. Caring for the touchpad The touchpad is pressure sensitive. If not properly cared for, it can be easily damaged.

## [Page 57: Disabling The Touchpad Automatically](#)

Disabling the touchpad automatically You can automatically disable the touchpad when an external USB mouse is attached. To disable the touchpad: Go to Control Panel. Change view settings to Large Icons then select Mouse. Select the ELAN tab. Tick the box with the Disable when external pointing device plug in option.

## [Page 58: Storage Devices](#)

Storage Devices Storage devices allow the Notebook PC to read or write documents, pictures, and other files to various data storage devices. Optical Drive (on selected models) Inserting an optical disc While the Notebook PC's power is ON, press the drive's eject button to partially eject the drive's tray.

[Page 59](#) Hold the disc by the edge and face the disc's printed side up. Push down on both sides of the disc's center until the disc snaps onto the hub. The hub should be higher than the disc when correctly mounted. Place the disc completely inside the center hub to protect the disc from scratches.

## [Page 60: Removing An Optical Disc](#)

Slowly push the drive's tray back in. The drive will begin reading the table of contents (TOC) on the disc. Once the drive stops, the disc is ready to be used. While data is being read, it is normal to hear the spinning or vibrating in the optical drive.

[Page 61](#) Emergency eject The emergency eject is located in a hole on the optical drive and is used to eject the optical drive tray in case the electronic eject does not work. Do not use the emergency eject in place of the electronic eject.

### [Page 62: Memory Card Reader](#)

Memory Card Reader This Notebook PC has a single built-in memory card reader slot that supports SD card formats, and utilizes the internal high-bandwidth PCI bus. The memory card is purchased separately. Memory card compatibility varies depending on Notebook PC model and memory card specifications. Memory card specifications constantly change so compatibility may change without warning.

### [Page 63: Hard Disk Drive](#)

Hard Disk Drive Hard disk drives have higher capacities and operate at much faster speeds than floppy disk drives and optical drives. The Notebook PC comes with a replaceable hard disk drive. Current hard drives support S.M.A.R.T. (Self Monitoring and Reporting Technology) to detect hard disk errors or failures before they happen.

### [Page 64: Removing The Hard Disk Drive](#)

Removing the hard disk drive Notebook PC User Manual...

### [Page 65: Installing The Hard Disk Drive](#)

Installing the hard disk drive Notebook PC User Manual...

### [Page 66: Memory \(Ram\)](#)

Memory (RAM) Additional memory will increase application performance by decreasing hard disk access. Visit an authorized service center or retailer for information on memory upgrades for your Notebook PC. Only purchase expansion modules from authorized retailers of this Notebook PC to ensure maximum compatibility and reliability. The BIOS automatically detects the amount of memory in the system and configures CMOS accordingly during the POST (Power-On-Self- Test) process.

[Page 67](#) Installing the memory (RAM) Notebook PC User Manual...

[Page 68](#) Removing the memory (RAM): Notebook PC User Manual...

### [Page 69: Network Connections](#)

Network Connections Your Notebook PC allows you to connect to the internet and other networks using the following wired and wireless network connections. Wired Network Connections This Notebook PC supports wired network connections using Fast/Gigabit Ethernet (1000 BASE-TX) and Twisted Pair Ethernet technologies.

[Page 70](#) Using a twisted-pair cable The cable used to connect the Notebook PC to a host (generally a Hub or Switch) is called a straight-through Twisted Pair Ethernet (TPE). The end connectors are called RJ-45 connectors, which are not compatible with RJ-11 telephone connectors. If connecting two computers together without a hub in between, a crossover LAN cable is required (Fast-Ethernet model).

### [Page 71: Wireless Network Connections](#)

Wireless Network Connections Wireless LAN (WLAN) This Notebook PC's built-in WLAN is a compact and easy-to-use wireless Ethernet adapter that implements the IEEE 802.11 standard. It is capable of fast data transmission rates using Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM) technologies on 2.4GHz/5GHz frequencies.

[Page 72](#) Click the no wireless network connection icon on the Windows® Notification area. Select the wireless access point you want to connect to from the list then click Connect. If you cannot find the desired access point, click the Refresh icon the upper right corner to refresh and search in the list again.

[Page 73](#) Using Ad-hoc mode and Infrastructure mode The built-in WLAN in this Notebook PC is also a client adapter that allows you to use the Ad-hoc and Infrastructure modes when connecting to a network. All devices must install optional 802.11 wireless LAN adapters to use

these modes.

[Page 74](#) Infrastructure mode The Infrastructure mode allows the Notebook PC and other wireless devices to join a wireless network created by an access point (sold separately) that provides a central link for wireless clients to communicate with each other or with a wired network. To use the infrastructure mode: 1.

### [Page 75: Bluetooth Wireless Connection \(On Selected Models\)](#)

Bluetooth Wireless Connection (on selected models) Bluetooth allows you to access other devices such as Notebook PCs, desktop PCs, tablets, and mobile phones that are also Bluetooth-enabled. You can facilitate file transfers, use mobile phones as a hotspot for internet connection, and share internet or network connections with other devices using a Bluetooth connection.

[Page 76](#) Right-click on the Bluetooth icon on the Windows® Notification area then select Add a device. Select a Bluetooth-enabled device from the list then click Next. Enter the Bluetooth security code into your device to start pairing. Click Close to finish adding the device.

### [Page 77: Usb Charger](#)

USB Charger+ is available in your USB 3.0 charge port. Instant On Instant On is a default-enabled feature in your ASUS Notebook PC that allows you to save battery power while your Notebook PC is on deep sleep mode (Deep S3). It also shows how long your Notebook PC can run on standby using these two battery saving modes: Performance mode and Battery saving mode.

[Page 78](#) Battery saving mode The battery saving mode enables longer standby times, allowing the battery to last for up to thirty (30) days or more. When you enable this function, the system can return to its last working state in twelve seconds, four hours after your Notebook PC has entered into deep sleep mode.

### [Page 79: Appendix](#)

Appendix...

### [Page 80: Optional Accessories](#)

Optional Accessories These items, if desired, come as optional items to complement your Notebook PC. USB Hub (Optional) Attaching an optional USB hub will increase your USB ports and allow you to quickly connect or disconnect many USB peripherals through a single cable. USB Flash Memory Disk A USB flash memory disk is an optional item that can provide storage up to several hundred megabytes, higher transfer speeds,...

### [Page 81: Operating System And Software](#)

Operating System and Software This Notebook PC may offer (depending on territory) its customers the choice of a pre-installed Microsoft Windows operating system. The choices and languages will depend on the territory. The levels of hardware and software support may vary depending on the installed operating system.

### [Page 82: Boot Device](#)

System BIOS Settings The BIOS screens in this section are for reference only. The actual screens may differ by models and territories. Boot Device On the Boot screen, select Boot Option #1. Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc. Main Main Advanced...

### [Page 83: Security Setting](#)

Security Setting Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc. Main Main Advanced Advanced Boot Boot Security Save & Exit Password Description Set Administrator Password. The password length must be in If ONLY the Administrator's password is set, the following range: then this only limits access to Setup and is only asked for when entering Setup.

[Page 84](#) I/O Interface Security Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc. Security If Locked, LAN and Card Reader I/O Interface Security Interface will be disabled. LAN and Card Reader Interface [UnLock] Wireless Network Interface [UnLock] HD AUDIO Interface [UnLock] SATA ODD Interface [UnLock]...

[Page 85](#) USB Interface Security Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc. Security If Locked, all USB device will USB Interface Security be disabled USB Interface [UnLock] External Ports [UnLock] Bluetooth [UnLock] CMOS Camera [UnLock] USB Interface →← : Select Screen Lock ↑ ↓...

### [Page 86: Hdd Password](#)

HDD Password Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc. Main Advanced Boot Security Save & Exit Password Description Set HDD Master Password. \*\*\* Advisable to Power Cycle If ONLY the Administrator's password is set, System after Setting Hard Disk then this only limits access to Setup and is Passwords \*\*\* only asked for when entering Setup.

### [Page 87: Save Changes](#)

Save Changes If you want to keep your configuration settings, you must save changes before exiting the BIOS setup utility. Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc. Main Main Advanced Advanced Chipset Chipset Boot Boot Security Save & Exit Save Changes and Exit Exit system setup after saving Discard Changes and Exit...

### [Page 88: Troubleshooting](#)

You must back up all your data to another location before starting any recovery process. • If the problem still exists, contact your local ASUS Service Center for assistance. The Hotkey function is disabled. Reinstall the "ATK0100" driver from the driver CD or download it from the ASUS website.

### [Page 89: Using The Battery Pack](#)

• If your Notebook PC is connected to the power adapter but does not load the BIOS (appears as the ASUS logo) or the operating system, the problem might be in the Notebook PC's hard disk drive. Contact your local ASUS Service Center for assistance.

[Page 90](#) Update the BIOS to the latest version with Easy Flash in Windows or AFLASH in DOS mode. These utilities and BIOS files can be downloaded from the ASUS website. Ensure your Notebook PC does not lose power during the BIOS flashing process.

[Page 91](#) Install an anti-virus software to protect the system from viruses. Ensure that you install the "Intel INF Update" and "ATKACPI" drivers first so that hardware devices can be recognized. • If the problem still exists, contact your local ASUS Service Center for assistance. Notebook PC User Manual A-13...

### [Page 92: Updating The Bios](#)

Updating the BIOS. Please verify the Notebook PC's exact model and download the latest BIOS file for your model from the ASUS website and save it in your flash disk drive. Connect your flash disk drive to the Notebook PC and power on the Notebook PC.

### [Page 93: Recovery Options For Your Notebook Pc](#)

Using the Recovery Partition or the DVD Recovery (for selected models) allows you to reformat your hard drive and restore your ASUS Notebook PC to its original factory settings. These recovery options also enable you to reuse the default settings of your Notebook PC to make new changes as needed.

### [Page 94: Using Dvd Recovery \(On Selected Models](#)

Do not restart or turn off your Notebook PC during the recovery process. To use the AI Recovery: Click the ASUS icon on your desktop then select Backup and Restore > AI Recovery Burner. Choose from the following AI Recovery options: •...

[Page 95](#) Ensure to connect the power adapter to your Notebook PC when performing system recovery. Unstable power supply may cause recovery failure. Visit the ASUS website at [www.asus.com](http://www.asus.com) for updated drivers and utilities. Restoring will overwrite your hard drive. Ensure to back up all your important data before the system recovery.



## [Page 96: Dvd-Rom Drive Information](#)

DVD-ROM Drive Information (on selected models) The DVD-ROM drive allows you to view and create your own CDs and DVDs. You can purchase an optional DVD viewer software to view DVD titles. Regional Playback Information Playback of DVD movie titles involves decoding MPEG2 video, digital AC3 audio and decryption of CSS protected content.

## [Page 97: Region Definitions](#)

Region Definitions Region 1 Canada, US, US Territories Region 2 Czech, Egypt, Finland, France, Germany, Gulf States, Hungary, Iceland, Iran, Iraq, Ireland, Italy, Japan, Netherlands, Norway, Poland, Portugal, Saudi Arabia, Scotland, South Africa, Spain, Sweden, Switzerland, Syria, Turkey, UK, Greece, Former Yugoslav Republics, Slovakia Region 3 Burma, Indonesia, South Korea, Malaysia, Philippines, Singapore, Taiwan, Thailand, Vietnam...

## [Page 98: Blu-Ray Rom Drive Information\(On Selected Models\)](#)

Blu-ray ROM Drive Information (on selected models) The Blu-ray ROM Drive allows you to view high definition (HD) videos and other disc file formats such as DVDs and CDs. Region Definitions Region A North, Central and South American countries, and their territories; Taiwan, Hong Kong, Macao, Japan, Korea (South and North), South East Asian countries and their territories.

## [Page 99: Internal Modem Compliancy](#)

Internal Modem Compliancy The Notebook PC with internal modem model complies with JATE (Japan), FCC (US, Canada, Korea, Taiwan), and CTR21. The internal modem has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network...

## [Page 100: Network Compatibility Declaration](#)

Network Compatibility Declaration Statement to be made by the manufacturer to the user: "This declaration will indicate the networks with which the equipment is designed to work and any notified networks with which the equipment may have inter-working difficulties. The manufacturer shall also associate a statement to make it clear where network compatibility is dependent on physical and software switch settings.

[Page 101](#) This table shows the countries currently under the CTR21 standard. Country Applied More Testing Austria Belgium Czech Republic Not Applicable Denmark Finland France Germany Greece Hungary Not Applicable Iceland Ireland Italy Still Pending Still Pending Israel Lichtenstein Luxemburg The Netherlands Norway Poland Not Applicable...

[Page 102](#) This information was copied from CETECOM and is supplied without liability. For updates to this table, you may visit [http://www.cetecom.de/technologies/ctr\\_21.html](http://www.cetecom.de/technologies/ctr_21.html) 1 National requirements will apply only if the equipment may use pulse dialling (manufacturers may state in the user guide that the equipment is only intended to support DTMF signalling, which would make any additional testing superfluous).

## [Page 103: Declarations And Safety Statements](#)

Declarations and Safety Statements Federal Communications Commission Statement This device complies with FCC Rules Part 15. Operation is subject to the following two conditions: • This device may not cause harmful interference. • This device must accept any interference received, including interference that may cause undesired operation.

## [Page 104: Fcc Radio Frequency \(Rf\) Exposure Caution Statement](#)

(Reprinted from the Code of Federal Regulations #47, part 15.193, 1993. Washington DC: Office of the Federal Register, National Archives and Records Administration, U.S. Government Printing Office.) FCC Radio Frequency (RF) Exposure Caution Statement Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

## [Page 105: Ce Marking](#)

CE Marking CE marking for devices without wireless LAN/Bluetooth The shipped version of this device complies with the requirements of the EEC directives 2004/108/EC "Electromagnetic compatibility" and 2006/95/EC "Low voltage directive". CE marking for devices with wireless



LAN/ Bluetooth This equipment complies with the requirements of Directive 1999/5/ EC of the European Parliament and Commission from 9 March, 1999 governing Radio and Telecommunications Equipment and mutual...

### [Page 106: Wireless Operation Channel For Different Domains](#)

Wireless Operation Channel for Different Domains N. America 2.412-2.462 GHz Ch01 through CH11 Japan 2.412-2.484 GHz Ch01 through Ch14 Europe ETSI 2.412-2.472 GHz Ch01 through Ch13 France Restricted Wireless Frequency Bands Some areas of France have a restricted frequency band. The worst case maximum authorized power indoors are: •...

[Page 107](#) 60 Oise 61 Orne 63 Puy du Dôme 64 Pyrénées Atlantique 66 Pyrénées Orientales 67 Bas Rhin 68 Haut Rhin 70 Haute Saône 71 Saône et Loire 75 Paris 82 Tarn et Garonne 84 Vaucluse 88 Vosges 89 Yonne 90 Territoire de Belfort 94 Val de Marne This requirement is likely to change over time, allowing you to use your wireless LAN card in more areas within France.

### [Page 108: UI Safety Notices](#)

UL Safety Notices Required for UL 1459 covering telecommunications (telephone) equipment intended to be electrically connected to a telecommunication network that has an operating voltage to ground that does not exceed 200V peak, 300V peak-to-peak, and 105V rms, and installed or used in accordance with the National Electrical Code (NFPA 70).

### [Page 109: Power Safety Requirement](#)

REACH Complying with the REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals) regulatory framework, we publish the chemical substances in our products at ASUS REACH website at <http://csr.asus.com/english/REACH.htm>. Notebook PC User Manual A-31...

### [Page 110: Nordic Lithium Cautions \(For Lithium-Ion Batteries\)](#)

Nordic Lithium Cautions (for lithium-ion batteries) CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. (English) ATTENZIONE! Rischio di esplosione della batteria se sostituita in modo errato.

### [Page 111: Optical Drive Safety Information](#)

Optical Drive Safety Information Laser Safety Information Internal or external optical drives sold with this Notebook PC contains a CLASS 1 LASER PRODUCT. Making adjustments or performing procedures other than those specified in the user's manual may result in hazardous laser exposure.

### [Page 112: Macrovision Corporation Product Notice](#)

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### [Page 113: Ctr 21 Approval\(For Notebook Pc With Built-In Modem\)](#)

CTR 21 Approval (for Notebook PC with built-in Modem) Danish Dutch English Finnish French German Greek Italian Portuguese Notebook PC User Manual A-35...

[Page 114](#) Spanish Swedish A-36 Notebook PC User Manual...

### [Page 115: European Union Eco-Label](#)

Department of Energy helping us all save money and protect the environment through energy efficient products and practices. All ASUS products with the ENERGY STAR logo comply with the ENERGY STAR standard, and the power management feature is enabled by default. The monitor and computer are automatically set to sleep after 15 and 30 minutes of user inactivity.

### [Page 116: Global Environmental Regulation Compliance And Declaration](#)

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### [Page 118: Limitation Of Liability](#)

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