



# Asus A450CA E-Manual

User's manual for english edition



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**Notebook<sup>®</sup> PC**

**E-Manual**

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### [Laptop Asus A450JF E-Manual](#)

User's manual for english edition (130 pages)

### [Laptop Asus A552EA E-Manual](#)

X552 series 15.6"; x452 series 14.0" (128 pages)

### [Notebook Asus X50V E-Manual](#)

(122 pages)

### [Laptop Asus Notebook PC Hardware User Manual](#)

Notebook pc (76 pages)

### [Laptop Asus A72F User Manual](#)

Notebook pc (32 pages)

### [Laptop Asus K42JY User Manual](#)

Notebook pc (110 pages)

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(article)

## Summary of Contents for Asus A450CA

[Page 1](#) Notebook PC E-Manual...

[Page 2](#) Warranty Statement, up to the listed contract price of each product. ASUS will only be responsible for or indemnify you for loss, damages or claims based in contract, tort or infringement under this Warranty Statement.

### [Page 3: Table Of Contents](#)

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## [Page 7: About This Manual](#)

This chapter provides an overview of using Windows® 8 in your Notebook PC. Chapter 4: ASUS  
Apps This chapter features the ASUS apps included with your Notebook PC's Windows® 8  
operating system. Chapter 5: Power-on Self-test (POST) This chapter shows you how to use  
POST to change the settings of your Notebook PC.

## [Page 8: Conventions Used In This Manual](#)

Conventions used in this manual To highlight key information in this manual, some text are  
presented as follows: IMPORTANT! This message contains vital information that must be  
followed to complete a task. NOTE: This message contains additional information and tips that  
can help complete tasks.

## [Page 9: Safety Precautions](#)

Safety precautions Using your Notebook PC This Notebook PC should only be used in  
environments with ambient temperatures between 5°C (41°F) and 35°C (95°F). Refer to the  
rating label on the bottom of your Notebook PC and ensure that your power adapter complies  
with this rating.

## [Page 10: Caring For Your Notebook Pc](#)

Caring for your Notebook PC Disconnect the AC power and remove the battery pack (if  
applicable) before cleaning your Notebook PC. Use a clean cellulose sponge or chamois cloth  
dampened with a solution of nonabrasive detergent and a few drops of warm water. Remove  
any extra moisture from your Notebook PC using a dry cloth.

## [Page 11: Proper Disposal](#)

Proper disposal Do not throw your Notebook PC in municipal waste. This product has been  
designed to enable proper reuse of parts and recycling. The symbol of the crossed out wheeled  
bin indicates that the product (electrical, electronic equipment and mercury- containing button  
cell battery) should not be placed in municipal waste.

## [Page 12](#) Notebook PC E-Manual...

## [Page 13: Chapter 1: Hardware Setup](#)

Chapter 1: Hardware Setup Notebook PC E-Manual...

## [Page 14: Getting To Know Your Notebook Pc](#)

Getting to know your Notebook PC Top View NOTE: The keyboard's layout may vary per region  
or country. The top view may also vary in appearance depending on the Notebook PC model.  
15" model Notebook PC E-Manual...

[Page 15](#) Microphone The built-in microphone can be used for video conferencing, voice  
narrations, or simple audio recording. Camera The built-in camera allows you to take pictures or  
record videos using your Notebook PC. Camera indicator The camera indicator lights up when

the built-in camera is in use.

[Page 16](#) Numeric keypad (on selected models) The numeric keypad toggles between these two functions: for numeric input and as pointer direction keys. NOTE: For more details, refer to the Numeric keypad (on selected models) section in this manual. Keyboard The keyboard provides full-sized QWERTY keys with a comfortable travel depth for typing.

### [Page 17: Two-Color Battery Charge Indicator](#)

Status indicators The status indicators help identify the current hardware status of your Notebook PC. Power indicator The power indicator lights up when the Notebook PC is turned on and blinks slowly when the Notebook PC is in sleep mode. Two-color battery charge indicator The two-color LED provides a visual indication of the battery's charge status.

### [Page 18: Drive Activity Indicator](#)

Drive activity indicator This indicator lights up when your Notebook PC is accessing the internal storage drives. Bluetooth / Wireless indicator This indicator lights up when your Notebook PC's wireless function (Bluetooth or Wi-Fi) is enabled. Number lock indicator (on selected models) This indicator lights up when the number lock function is activated.

### [Page 19: Bottom](#)

Bottom NOTE: The bottom side may vary in appearance depending on model. WARNING! The bottom of the Notebook PC can get warm to hot while in use or while charging the battery pack. When working on your Notebook PC, do not place it on surfaces that can block the vents. IMPORTANT! Battery time varies by usage and by the specifications for this Notebook PC.

[Page 20](#) Battery pack The battery pack is automatically charged when your Notebook PC is connected to a power source. When charged, the battery pack supplies power to your Notebook PC. Spring battery lock (on selected models) The spring battery lock automatically locks the battery pack in place once it is inserted into the battery slot.

### [Page 21: Right Side](#)

Right Side 15" and 14" model USB 2.0 port (on selected models) This USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, flash disk drives, external HDDs, speakers, cameras and printers. Optical drive Your Notebook PC's optical drive may support several disc formats such as CDs, DVDs, recordable discs, or rewritable discs.

[Page 22](#) Optical disc drive manual eject hole The manual eject hole is used to eject the drive tray in case the electronic eject button does not work. WARNING! Use the manual eject hole only when the electronic eject button does not work. NOTE: For more details, refer to the Using the optical drive section in this manual.

### [Page 23: Left Side](#)

Left Side 15" and 14" model Power (DC) input port Insert the bundled power adapter into this port to charge the battery pack and supply power to your Notebook PC. WARNING! The adapter may become warm to hot while in use. Do not cover the adapter and keep it away from your body while it is connected to a power source.

[Page 24](#) HDMI port This port is for the HDMI (High-Definition Multimedia Interface) connector and is HDCP compliant for HD DVD, Blu-ray, and other protected content playback. LAN port Insert the network cable into this port to connect to a local area network.

### [Page 25: Front Side](#)

Front Side NOTE: The front side may vary in appearance depending on model. Status indicators The status indicators help identify the current hardware status of your Notebook PC. Memory card reader This built-in memory card reader supports SD and SDHC card formats.

[Page 26](#) Notebook PC E-Manual...

### [Page 27: Chapter 2: Using Your Notebook Pc](#)



### [Page 28: Getting Started](#)

Getting started NOTE: If your Notebook PC does not have its battery pack installed, use the following procedures for installation. Install the battery pack. (on selected models) Move the manual battery lock to the unlocked position. Align and insert the battery pack into the Notebook PC's battery slot.

### [Page 29: Charge Your Notebook Pc](#)

Charge your Notebook PC. Connect the AC power cord to the AC/DC adapter. Plug the AC power adapter into a 100V~240V power source. Connect the DC power connector into your Notebook PC's power (DC) input. Charge the Notebook PC for 3 hours before using it in battery mode for the first time.

[Page 30](#) IMPORTANT! • Ensure that your Notebook PC is connected to a grounded power adapter before turning it on for the first time. • When using your Notebook PC on power adapter mode, the socket outlet must be near to the unit and easily accessible. •...

### [Page 31: Lift To Open The Display Panel](#)

Lift to open the display panel. Press the power button. Notebook PC E-Manual...

### [Page 32: Gestures For The Touchpad](#)

Gestures for the touchpad Gestures allow you to launch programs and access the settings of your Notebook PC. Refer to the following illustrations when using hand gestures on your touchpad. 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 33](#) One-finger gestures Tap/Double tap • In the Start screen, tap an app to launch it. • In Desktop mode, double-tap an application to launch it. Drag and drop Double-tap an item, then slide the same finger without lifting it off the touchpad.

[Page 34](#) Left-click Right-click • In the Start screen, click an • In the Start screen, click an app to launch it. app to select it and launch the settings bar. You can also • In Desktop mode, double- press this button to launch click an application to the All Apps bar.

[Page 35](#) Top edge swipe In the Start screen, swipe from the top edge to launch the All • Apps bar. • In a running app, swipe from the top edge to view its menu. Left edge swipe Right edge swipe Swipe from the left edge to shuffle Swipe the right edge to launch the Charms bar.

### [Page 36: Two-Finger Gestures](#)

Two-finger gestures Rotate Tap two fingers on the touchpad To rotate an image, place two to simulate the right-click fingers on the touchpad then function. turn one finger clockwise or counterclockwise while the other stays still. Two-finger scroll (up/down) Two-finger scroll (left/right) Slide two fingers to scroll up or Slide two fingers to scroll left or down.

[Page 37](#) Zoom out Zoom in Bring together your two fingers on Spread apart your two fingers on the touchpad. the touchpad. Drag and drop Select an item then press and hold the left button. Using your other finger, slide down the touchpad to drag and drop the item to a new location.

### [Page 38: Three-Finger Gestures](#)

Three-finger gestures Swipe up Swipe down Swipe three fingers upward to Swipe three fingers downward to show all running applications. show the Desktop mode. Notebook PC E-Manual...

### [Page 39: Using The Keyboard](#)

Using the keyboard Function keys The function keys on your Notebook PC's keyboard can trigger the following commands: Puts the Notebook PC into Sleep mode Turns Airplane mode on or off NOTE: When enabled, the Airplane mode disables all wireless connectivity. Decreases display brightness Increases display brightness Turns the display panel off...

## [Page 40: Function Keys For Asus Apps](#)

Turns the speaker volume up Function keys for ASUS Apps Your Notebook PC also comes with a special set of function keys that can be used to launch ASUS apps. Toggles the ASUS Splendid Video Enhancement Technology app to switch between these display...

## [Page 41: Windows® 8 Keys](#)

Windows® 8 keys There are two special Windows® keys on your Notebook PC's keyboard used as below: Press this key to go back to the Start screen. If you are already in the Start screen, press this key to go back to the last app you opened.

## [Page 42: Numeric Keypad \(On Selected Models\)](#)

Numeric keypad (on selected models) A numeric keypad is available on selected Notebook PC models. You can use this keypad for numeric input or as pointer direction keys. Press toggle between using the keypad as number keys or as pointer direction keys.

## [Page 43: Using The Optical Drive](#)

Using the optical drive NOTE: The actual location of the electronic eject button may vary depending on your Notebook PC model. Inserting an optical disc While the Notebook PC is on, press the electronic eject button to partially eject the optical drive tray.

[Page 44](#) Push down the disc's plastic hub until it snaps onto the optical drive hub. Push the drive tray gently to close the optical drive. NOTE: While data is being read, it is normal to hear some spinning and vibrating in the optical drive.

## [Page 45: Chapter 3: Working With Windows](#)

Chapter 3: Working with Windows® 8 Notebook PC E-Manual...

## [Page 46: Starting For The First Time](#)

Starting for the first time When you start your computer for the first time, a series of screens appear to guide you in configuring the basic settings of your Windows® 8 operating system. To start your Notebook PC for the first time: Press the power button on your Notebook PC.

## [Page 47: Windows ® Ui](#)

® Windows Windows® 8 comes with a tile-based user interface (UI) which allows you to organize and easily access Windows® apps from the Start screen. It also includes the following features that you can use while working on your Notebook PC. Start screen The Start screen appears after successfully signing in to your user account.

## [Page 48: Hotspots](#)

Hotspots Onscreen hotspots allow you to launch programs and access the settings of your Notebook PC. The functions in these hotspots can be activated using the touchpad. Hotspots on a running app Hotspots on the Start screen Notebook PC E-Manual...

[Page 49](#) Hotspot Action upper left corner Hover your mouse pointer on the upper left corner then tap on the recent app's thumbnail to revert back to that running app. If you launched more than one app, slide down to show all running apps. lower left corner From a running app screen: Hover your mouse pointer on the lower...

[Page 50](#) Hotspot Action top side Hover your mouse pointer on the top side until it changes to a hand icon. Drag then drop the app to a new location. NOTE: This hotspot function only works on a running app or when you want to use the Snap feature.

## [Page 51: Working With Windows ® Apps](#)

® Working with Windows apps Use your Notebook PC's touchpad, or keyboard to launch, customize, and close apps. Launching apps Position your mouse pointer over the app then left-click or tap once to launch it. Press twice then use the arrow keys to browse through the apps.

## [Page 52: Closing Apps](#)

Unpinning apps Right-click on the app to activate the settings bar then Closing apps Move your

mouse pointer on the top side of the launched app then wait for the pointer to change to a hand icon. Drag then drop the app to the bottom of the screen to close it.

### [Page 53: Accessing The Apps Screen](#)

Accessing the Apps screen Aside from the apps already pinned on your Start screen, you can also open other applications through the Apps screen. Horizontal scroll bar Launching the Apps screen Launch the Apps screen using your Notebook PC's touchpad or keyboard.

[Page 54](#) Pinning more apps on the Start screen You can pin more apps on the Start screen using your touchpad. Position the mouse pointer over the app you want to pin on the Start screen. Right-click on the app to activate its settings. Tap on the icon.

### [Page 55: Charms Bar](#)

Charms bar The Charms bar is a toolbar that can be triggered on the right side of your screen. It consists of several tools that allow you to share applications and provide quick access for customizing the settings of your Notebook PC. Charms bar Launching the Charms bar NOTE: When called out, the Charms bar initially appears as a set of...

[Page 56](#) Inside the Charms bar Search This tool allows you to look for files, applications, or programs in your Notebook PC. Share This tool allows you to share applications via social networking sites or email. Start This tool reverts the display back to the Start screen. From the Start screen, you can also use this to revert back to a recently opened app.

### [Page 57: Snap Feature](#)

Snap feature The Snap feature displays two apps side-by-side, allowing you to work or switch between apps. IMPORTANT! Ensure that your Notebook PC's screen resolution is set to 1366 x 768 pixels or higher before using the Snap feature. Snap bar Notebook PC E-Manual...

[Page 58](#) Using Snap Use your Notebook PC's touchpad, or keyboard to activate and use Snap. Launch the app you wish to snap. Hover the mouse point on the top side of your screen. Once the pointer changes to a hand icon, drag then drop the app to the left or right side of the display panel.

### [Page 59: Other Keyboard Shortcuts](#)

Other keyboard shortcuts Using the keyboard, you can also use the following shortcuts to help you launch applications and navigate Windows®8. Switches between the Start screen and the last running app Launches the desktop Launches the Computer window on Desktop mode Opens the File charm Opens the Share charm...

[Page 60](#) Opens the Second screen pane Opens the Apps search pane Opens the Run window Opens Ease of Access Center Opens the Settings charm Opens a menu box of Windows® tools Launches the magnifier icon and zooms in your screen Zooms out your screen Opens the Narrator Settings Enables the print screen function Notebook PC E-Manual...

### [Page 61: Connecting To Wireless Networks](#)

Connecting to wireless networks Wi-Fi Access emails, surf the Internet, and share applications via social networking sites using your Notebook PC's Wi-Fi connection. IMPORTANT! The Airplane mode disables this feature. Ensure that Airplane mode is turned off before enabling the Wi-Fi connection of your Notebook PC.

[Page 62](#) Tap Connect to start the network connection. NOTE: You may be prompted to enter a security key to activate the Wi-Fi connection. If you want to enable sharing between your Notebook PC and other wireless-enabled systems, tap Yes, turn on sharing and connect to devices.

### [Page 63: Bluetooth](#)

Bluetooth Use Bluetooth to facilitate wireless data transfers with other Bluetooth-enabled devices. IMPORTANT! The Airplane mode disables this feature. Ensure that Airplane mode is turned off before enabling the Bluetooth connection of your Notebook PC. Pairing with other Bluetooth-enabled devices You need to pair your Notebook PC with other Bluetooth-enabled devices to enable data transfers.

[Page 64](#) Select a device from the list. Compare the passcode on your Notebook PC with the passcode sent to your chosen device. If they are the same, tap Yes to successfully pair your Notebook PC with the device. NOTE: For some bluetooth-enabled devices, you may be prompted to key in the passcode of your Notebook PC.

### [Page 65: Airplane Mode](#)

Airplane mode The Airplane mode disables wireless communication, allowing you to use your Notebook PC safely while in-flight. Turning Airplane mode on Launch the Charms bar. and tap Move the slider to the right to turn the Airplane mode on. Press Turning Airplane mode off Launch the Charms bar.

### [Page 66: Connecting To Wired Networks](#)

Connecting to wired networks You can also connect to wired networks, such as local area networks and broadband Internet connection, using your Notebook PC's LAN port. NOTE: Contact your Internet Service Provider (ISP) for details or your network administrator for assistance in setting up your Internet connection.

[Page 67](#) Tap Internet Protocol Version 4(TCP/IPv4) then tap Properties. Tap Obtain an IP address automatically then tap NOTE: Proceed to the next steps if you are using PPPoE connection. Return to the Network and Sharing Center window then tap Set up a new connection or network.

### [Page 68: Configuring A Static Ip Network Connection](#)

Configuring a static IP network connection Repeat steps 1 to 4 under Configuring a dynamic IP/PPPoE network connection. Tap Use the following IP address. Type the IP address, Subnet mask and Default gateway from your service provider. If needed, you can also type the preferred DNS server address and alternate DNS server address then tap OK.

### [Page 69: Turning Your Notebook Pc Off](#)

Turning your Notebook PC off You can turn off your Notebook PC by doing either of the following procedures: from the Charms bar then tap • > Shut down to do a normal shutdown. > Shut • From the log-in screen, tap down.

[Page 70](#) Notebook PC E-Manual...

### [Page 71: Chapter 4: Asus Apps](#)

Chapter 4: ASUS apps Notebook PC E-Manual...

### [Page 72: Featured Asus Apps](#)

Featured ASUS Apps LifeFrame Enhance your webcam functions through the LifeFrame app. Create snapshots, edit photos, record videos, record audio files, use your webcam as a security monitoring device, and play games using this app. To launch LifeFrame Press The archive toolbar displays a function's saved files in thumbnail view.

[Page 73](#) LifeFrame functions Camera Use this function to take pictures using your webcam. Camcorder Use this function to take videos through your webcam. Monitor This function lets you use your webcam as a security video monitor as it automatically detects movement then captures it on photo.

### [Page 74: Power4Gear Hybrid](#)

Power4Gear Hybrid Optimize the performance of your Notebook PC using the power saving modes in Power4Gear. NOTE: Unplugging the Notebook PC from its power adapter automatically switches Power4Gear Hybrid to Battery Saving mode. To launch Power4Gear Hybrid Press Select from these power saving modes. Use these options to customize Allows you to hide the desktop your power saving mode.

[Page 75](#) Performance mode Use this mode when doing high-performance activities like playing games or conducting business presentations using your Notebook PC. Battery Saving mode This mode extends your Notebook PC's battery life while plugged in to the power adapter or while running on battery power only. Notebook PC E-Manual...

## [Page 76: Instant On](#)

(Deep S3) using Instant On. NOTE: Deep S3 is a technology that lets you save more battery power while your ASUS Notebook PC is on sleep mode. IMPORTANT! The standby time varies according to your Notebook PC's remaining battery capacity, computer model, configuration, and operating conditions.

## [Page 77: Chapter 5: Power-On Self Test \(Post\)](#)

Chapter 5: Power-on Self Test (POST) Notebook PC E-Manual...

## [Page 78: The Power-On Self Test \(Post\)](#)

The Power-on Self Test (POST) The Power-on Self Test (POST) is a series of software-controlled diagnostic tests that run when you turn on or restart your Notebook PC. The software that controls the POST is installed as a permanent part of the Notebook PC's architecture.

## [Page 79: Bios Settings](#)

BIOS Settings NOTE: The BIOS screens in this section are for reference only. The actual screens may differ by model and territory. Boot This menu allows you to set your boot option priorities. You may refer to the following procedures when setting your boot priority. On the Boot screen, select Boot Option #1.

[Page 80](#) and select a device as the Boot Option #1. Press Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc. Main Advanced Boot Security Save & Exit Boot Configuration Sets the system boot order Fast Boot [Enabled] Launch CSM [Disabled] Driver Option Priorities Boot Option #1 Boot Option Priorities...

## [Page 81: Security](#)

Security This menu allows you to set up the administrator and user password of your Notebook PC. It also allows you to control the access to your Notebook PC's hard disk drive, input/output (I/O) interface, and USB interface. NOTE: If you install a User Password, you will be prompted to input •...

[Page 82](#) To set the password: On the Security screen, select Administrator Password or User Password. Type in a password then press Re-type to confirm the password then press To clear the password: On the Security screen, select Administrator Password or User Password.

[Page 83](#) I/O Interface Security In the Security menu, you can access I/O Interface Security to lock or unlock some interface functions of your Notebook PC. Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc. Security If Locked, LAN I/O Interface Security controller will be disabled.

[Page 84](#) USB Interface Security Through the I/O Interface Security menu, you can also access USB Interface Security to lock or unlock ports and devices. Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc. Security If Locked, all USB Interface Security USB device will be disabled USB Interface...

[Page 85](#) Set Master Password In the Security menu, you can use Set Master Password to set up a password-enabled access to your hard disk drive. Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc. Main Advanced Boot Security Save & Exit Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc.

[Page 86](#) Save & Exit To keep your configuration settings, select Save Changes and Exit before exiting the BIOS. Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc. Main Advanced Boot Security Save & Exit Exit system setup Save Changes and Exit after saving the Discard Changes and Exit changes.

## [Page 87: To Update The Bios](#)

To update the BIOS: Verify the Notebook PC's exact model then download the latest BIOS file for your model from the ASUS website. Save a copy of the downloaded BIOS file to a flash disk drive. Connect your flash disk drive to your Notebook PC.

[Page 88](#) Locate your downloaded BIOS file in the flash disk drive then press ASUSTek Easy

Flash Utility FLASH TYPE: MXIC 25L Series New BIOS Current BIOS Platform: Unknown Platform: X450/X550 Version: Unknown Version: 101 Build Date: Unknown Build Date: Oct 26 2012 Build Time: Unknown Build Time: 11:51:05 0 EFI...

### [Page 89: Troubleshoot](#)

Troubleshoot By pressing during POST, you can access Windows® 8 troubleshoot options which includes the following: • Refresh your PC • Reset your PC • Advanced options Refresh your PC Use Refresh your PC if you want to refresh your system without losing your current files and applications.

### [Page 90: Reset Your Pc](#)

Reset your PC IMPORTANT! Back up all your data before performing this option. Use Reset your PC to restore your Notebook PC to its default settings. To access this during POST: Restart your Notebook PC then press during POST. Wait for Windows® to load the Choose an option screen then tap Troubleshoot.

### [Page 91: Advanced Options](#)

Advanced options Use Advanced options to perform additional troubleshooting options in your Notebook PC. To access this during POST: Restart your Notebook PC then press during POST. Wait for Windows® to load the Choose an option screen then tap Troubleshoot. Tap Advanced options.

[Page 92](#) In the Advanced options screen, select System Image Recovery. Choose an account you would like to recover using a system image file. Type your account password then tap Continue. Select Use the latest available system image (recommended), then tap Next. You can also choose Select a system image if your system image is in an external device or DVD.

### [Page 93: Chapter 6: Upgrading Your Notebook Pc](#)

Chapter 6: Upgrading your Notebook PC Notebook PC E-Manual...

### [Page 94: Installing A Random-Access Memory Module \(On Selected Models\)](#)

Installing a Random-access Memory module (on selected models) Upgrade the memory capacity of your Notebook PC by installing a RAM (random-access memory module) in the memory module compartment. The following steps show you how to install a RAM module into your Notebook PC: WARNING! Disconnect all the connected peripherals, any telephone or telecommunication lines and power connector (such as external power...

[Page 95](#) Loosen the screw of the Notebook PC's compartment cover. Pull out the compartment cover and remove it completely from your Notebook PC. Notebook PC E-Manual...

[Page 96](#) Align and insert the RAM module into the RAM module slot. Push down the RAM module until it clicks in place angle notches Align then push down the compartment cover back into place. Reattach and tighten the screw that you removed earlier. Notebook PC E-Manual...

### [Page 97: Replacing The Hard Disk Drive \(On Selected Models\)](#)

Replacing the Hard Disk Drive (on selected models) Refer to the following steps if you need to replace the HDD (hard disk drive) of your Notebook PC. IMPORTANT! Purchase an HDD from authorized retailers of this Notebook PC to ensure maximum compatibility and reliability. It is recommended that you replace the HDD under professional supervision.

[Page 98](#) Loosen the screw of the Notebook PC's compartment cover. Pull out the compartment cover and remove it completely from your Notebook PC. Notebook PC E-Manual...

[Page 99](#) Remove the screws securing the HDD bay to the compartment. Disconnect the HDD bay from the HDD port then remove the HDD bay from the compartment. HDD bay Notebook PC E-Manual...

[Page 100](#) Turn the HDD bay upside down then remove the screws. Remove the old HDD from the HDD bay. Place the new HDD with its PCB (printed circuit board) facing the HDD bay. Ensure

that the port connectors of your HDD are not obstructed by any part of the HDD bay.

[Page 101](#) Replace the HDD bay back in the compartment, with the HDD connector aligned with the Notebook PC's HDD port. Push the HDD bay until it connects with the Notebook PC. Secure the HDD bay with the screws you removed earlier. HDD bay Notebook PC E-Manual...

[Page 102](#) Align then push down the compartment cover back into place. Reattach and tighten the screw that you removed earlier. Notebook PC E-Manual...

### [Page 103: Installing A New Battery Pack \(On Selected Models\)](#)

Installing a new battery pack (on selected models) **WARNING!** Turn off your Notebook PC and disconnect all connected peripherals, any telephone or telecommunication lines and power connector, before removing the battery pack. **IMPORTANT!** Purchase battery packs from authorized retailers of this Notebook PC to ensure maximum compatibility and reliability.

[Page 104](#) Refer to the following steps when installing a new battery pack for your Notebook PC. Move the manual battery lock to the unlocked position. Move and hold the spring battery lock to an unlocked position. Pull out the old battery pack from the battery slot then release your hold on the spring battery lock.

[Page 105](#) Move the manual battery lock to the unlocked position. Align and insert the new battery pack into the Notebook PC's battery slot. Move the manual battery lock back to the locked position after inserting the battery pack. Notebook PC E-Manual...

[Page 106](#) Notebook PC E-Manual...

### [Page 107: Appendices](#)

Appendices Notebook PC E-Manual...

### [Page 108: Dvd-Rom Drive Information \(On Selected Models\)](#)

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 MPEG-2 video, digital AC3 audio and decryption of CSS protected content.

### [Page 109: 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,...

### [Page 110: 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 111: Overview](#)

Overview On 14th August 2008 the European Council Decision regarding the CTR 21 has been published in the Official Journal of the EC. The CTR 21 applies to all non voice terminal equipment with DTMF-dialling which is intended to be connected to the analogue PSTN (Public Switched Telephone Network).

[Page 112](#) 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 113: Federal Communications Commission Interference Statement](#)

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\\_1.html](http://www.cetecom.de/technologies/ctr_1.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 114: Fcc Radio Frequency \(Rf\) Exposure Caution Statement](#)

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. WARNING! The use of a shielded-type power cord is required in order to meet FCC emission limits and to prevent interference to the nearby radio and television reception.

## [Page 115: Declaration Of Conformity \(R&Tte Directive 1999/5/Ec\)](#)

Declaration of Conformity (R&TTE directive 1999/5/EC) The following items were completed and are considered relevant and sufficient: • Essential requirements as in [Article 3] • Protection requirements for health and safety as in [Article 3.1a] • Testing for electric safety according to [EN 60950] •...

## [Page 116: Ic Radiation Exposure Statement For Canada](#)

IC Radiation Exposure Statement for Canada This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with IC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance.

## [Page 117: Déclaration D'industrie Canada Relative À L'exposition Aux Ondes Radio](#)

Déclaration d'Industrie Canada relative à l' exposition aux ondes radio Cet appareil est conforme aux limites d'exposition aux radiations d'Industrie Canada définies pour un environnement non-contrôlé. Pour maintenir la conformité avec les exigences d'exposition RF d'IC, veuillez éviter tout contact direct avec l'antenne pendant l'émission.

## [Page 118: Wireless Operation Channel For Different Domains](#)

Wireless Operation Channel for Different Domains N. America 900-960 MHz Ch01 through CH11 Japan 900-960 MHz Ch01 through Ch11 Europe ETSI 900-960 MHz 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 119](#) Departments in which the use of the 900-960 MHz band is permitted with an EIRP of less than 100mW indoors and less than 10mW outdoors: 01 Ain 02 Aisne 03 Allier 04 Hautes Alpes 08 Ardennes 09 Ariège 11 Aude 12 Aveyron 13 Charente 14 Dordogne...

## [Page 120: Ul Safety Notices](#)

UL Safety Notices Required for UL 1481 covering telecommunications (telephone) equipment intended to be electrically connected to a telecommunication network that has an operating voltage to ground that does not exceed 100V peak, 300V peak-to-peak, and 10V rms, and installed or used in accordance with the National Electrical Code (NFPA 70).

## [Page 121: 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>. Macrovision Corporation Product Notice This product incorporates copyright protection technology that is protected by method claims of certain U.S.A.

## [Page 122: 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. Sostituire la



batteria con un una di tipo uguale o equivalente consigliata dalla fabbrica.

### [Page 123: Optical Drive Safety Information](#)

Optical Drive Safety Information Laser Safety Information CD-ROM Drive Safety Warning CLASS 1 LASER PRODUCT WARNING! To prevent exposure to the optical drive's laser, do not attempt to disassemble or repair the optical drive by yourself. For your safety, contact a professional technician for assistance.

### [Page 124: 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 Notebook PC E-Manual...

### [Page 125](#) German Greek Italian Portuguese Spanish Swedish Notebook PC E-Manual...

### [Page 126: Energy Star Complied Product](#)

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 1□ and 30 minutes of user inactivity.

### [Page 127: Global Environmental Regulation Compliance And Declaration](#)

Declaration ASUS follows the green design concept to design and manufacture our products, and makes sure that each stage of the product life cycle of ASUS product is in line with global environmental regulations. In addition, ASUS disclose the relevant information based on regulation requirements.

### [Page 128](#) Notebook PC E-Manual...

[Page 129](#) Manufacturer: ASUSTeK COMPUTER INC. Address, City: 4F, No. 150, LI-TE Rd., PEITOU, TAIPEI 112, TAIWAN Country: TAIWAN Authorized representative in Europe: ASUS COMPUTER GmbH Address, City: HARKORT STR. 21-23, 40880 RATINGEN Country: GERMANY declare the following apparatus: Product name :...

[Page 130](#) Manufacturer: ASUSTeK COMPUTER INC. Address, City: 4F, No. 150, LI-TE Rd., PEITOU, TAIPEI 112, TAIWAN Country: TAIWAN Authorized representative in Europe: ASUS COMPUTER GmbH Address, City: HARKORT STR. 21-23, 40880 RATINGEN Country: GERMANY declare the following apparatus: Product name :...

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