





## Asus A2K Hardware User Manual

Asus a2k: user guide



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## Related Manuals for Asus A2K

### [Software Asus NB Probe User Manual](#)

Asus nb probe software: user guide (8 pages)

### [Software Asus A2C User Manual](#)

(7 pages)

### [Laptop Asus 1 E1309 Hardware User Manual](#)

Asus laptop - notebook pc user manual (70 pages)

### [Laptop Asus A2D Hardware User Manual](#)

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Notebook pc (76 pages)

### [Laptop Asus A7S Hardware User Manual](#)

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### [Laptop Asus A9T Hardware User Manual](#)

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Notebook pc (108 pages)

### [Laptop Asus A451CA E-Manual](#)

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

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

### [Laptop Asus X540L E-Manual](#)

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### [Laptop Asus E203 E-Manual](#)

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### [Laptop Asus AX211D2 E-Manual](#)

(110 pages)

## Summary of Contents for Asus A2K

### [Page 1: Copyright Information](#)

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[Page 2](#) Hardware User's Manual Product Name: Notebook PC Hardware Manual Revision: 1 E1664 Release Date: June 2004 Notebook PC...

## [Page 3: Safety Statements](#)

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, and • This device must accept any interference received, including interference that may cause undesired operation.

## [Page 4: Macrovision Corporation Product Notice](#)

Nordic Cautions 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 5](#) Safety Statements Safety Statements 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. Do not use damaged power cords, accessories, or other peripherals. Do not use strong solvents such as thinners, benzene, or other chemicals on or near the surface.

## [Page 6: Transportation Precautions](#)

Transportation Precautions To prepare the Notebook PC for transport, you should turn it OFF and disconnect all external peripherals to prevent damage to the connectors. The hard disk drive's head retracts when the power is turned OFF to prevent scratching of the hard disk surface during transport. Therefore, you should not transport the Notebook PC while the power is still ON.

[Page 7](#) Safety Statements CTR 21 Approval (for Notebook PC with built-in Modem) Danish Dutch English Finnish French German Greek Italian Portuguese Spanish Swedish...

## [Page 8: UL 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).

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## [Page 12: Introducing The Notebook Pc](#)

1. Introducing the Notebook PC About This User's Manual Notes For This Manual Preparing your Notebook PC...

## [Page 13: About This User's Manual](#)

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

## [Page 14: Preparing Your Notebook Pc](#)

Preparing your Notebook PC These are only quick instructions for using your Notebook PC. Read the later pages for detailed information on using your Notebook PC. 1. Install the battery pack 3. Open the Display Panel (1) Slide the display release button (2) Lift the display panel with one



hand while holding the system portion with your other hand.

[Page 15](#) [Introducing the Notebook PC...](#)

## [Page 16: Knowing The Parts](#)

2. Knowing the Parts Top Side Bottom Side Left Side Right Side Rear Side Front Side...

### [Page 17: Top Side](#)

Knowing the Parts Top Side Refer to the diagram below to identify the components on this side of the Notebook PC. Details are given starting from the top and going clockwise. Audio Speaker (Left) Status Indicators (see section 3) Display Panel Latch Release Spring-loaded latch mechanism on the front of the Notebook PC locks the display panel in the closed position when the Notebook PC is not in use.

### [Page 18: Display Panel](#)

Display Panel The display panel functions the same as a desktop monitor. The Notebook PC uses an active matrix TFT LCD, which provides excellent viewing like that of desktop monitors. Unlike desktop monitors, the LCD panel does not produce any radiation or flickering, so it is easier on the eyes. Power Switch The power switch allows powering ON and OFF the Notebook PC and recovering from STD.

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

Knowing the Parts Bottom Side Refer to the diagram below to identify the components on this side of the Notebook PC. Details are given starting from the top and going clockwise. Name Card Holder Battery Lock 2 **IMPORTANT!** 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.

### [Page 20: Battery Lock](#)

Sub-Woofer Speaker The sub-woofer speaker is used to produce deep bass sounds (low frequencies) in order to make the audio listening experience more enjoyable. CPU Compartment The CPU compartment contains a socket for mounting a central processing unit. CPU installation/ upgrades must be done by an authorized retailer or else warranty will be void.

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

Knowing the Parts Left Side Refer to the diagram below to identify the components on this side of the Notebook PC. Air Vents 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.

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

Right Side Refer to the diagram below to identify the components on this side of the Notebook PC. USB Ports USB Port (2.0/1.1) The Universal Serial Bus is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, video cameras, modems, hard disk drives, printers, monitors, and scanners connected in a series up to 12Mbps/sec (USB 1.1) and 480Mbps/sec (USB 2.0).

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

Knowing the Parts Rear Side Refer to the diagram below to identify the components on this side of the Notebook PC. Modem Ports Port Port USB Port (2.0/1.1) The Universal Serial Bus is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, video cameras, modems, hard disk drives, printers, monitors, and scanners connected in a series up to 12Mbps/sec (USB 1.1) and 480Mbps/sec (USB 2.0).

### [Page 24: 2 Knowing The Parts](#)

Knowing the Parts ® Kensington Lock Port ® ® The Kensington lock port allows the Notebook PC to be secured using Kensington compatible Notebook PC security products. These security products usually include a metal cable and lock that prevent the Notebook PC to be removed from a fixed object.

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

Knowing the Parts Front Side Refer to the diagram below to identify the components on the front side of the Notebook PC. Status Indicators (see section 3) Display Panel Latch Release Spring-loaded latch mechanism on the front of the Notebook PC locks the display panel in the closed position when the Notebook PC is not in use.

## [Page 26: Getting Started](#)

3. Getting Started Using the Battery Pack Operating Systems Power Connection Powering ON The Notebook PC Power Management Restarting or Rebooting Powering OFF The Notebook PC Using the Keyboard Instant Launch Keys and Status Indicators...

## [Page 27: Installing And Removing The Battery Pack](#)

Getting Started Using the Battery Pack Installing and Removing the Battery Pack Your Notebook PC may or may not have its battery pack installed. If your Notebook PC does not have its battery pack installed, use the following procedures to install the battery pack. IMPORTANT! Never attempt to remove the battery pack while the Notebook PC is turned ON, as this may result in the loss of working data.

## [Page 28: Charging The Battery Pack](#)

Getting Started 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. Fully charge the battery pack before using it for the first time.

## [Page 29: Power Connection](#)

Getting Started Power Connection Your Notebook PC comes with a universal AC-DC adapter. That means that you may connect the power cord to any 100V-120V as well as 220V-240V outlets without setting switches or using power converters. Different countries may require that an adapter be used to connect the provided US-standard AC power cord to a different standard.

## [Page 30: 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 31: Power Management](#)

Getting Started Power Management Power management settings can be found in the Windows control panel. The following shows the power options properties in Windows. You can define "Stand By" or "Shut down" for closing the display panel, pressing the power button, or activating sleep mode. "Stand by" and "Hibernate" saves power when your Notebook PC is not in use by turning OFF certain components.

## [Page 32: Restarting Or Rebooting](#)

Getting Started Restarting or Rebooting After making changes to your operating system, you may be prompted to restart the system. Some installation processes will provide a dialog box to allow restart. To restart the system manually: Click the Start button and select Shut Down | and choose Restart. In case the operating system hangs (stops, freezes, crashes), try a "warm boot"...

## [Page 33: Powering Off The Notebook Pc](#)

Getting Started Powering OFF the Notebook PC In Windows XP, the Notebook PC can be powered OFF by using Start | Shut Down... | Turn off (or Shut down). For operating systems without proper power management (DOS, Windows NT), you must power OFF the Notebook PC by holding the power switch for 2 seconds (as opposed to 1 second to power ON) after closing applications and exiting operating systems.

## [Page 34: Using The Keyboard](#)

Using the Keyboard Colored Hot Keys The following defines the colored hot keys on the Notebook PC's keyboard. The colored commands can only be accessed by first pressing and

holding the function key while pressing a key with a colored command. NOTE: The Hot Key locations on the function keys may vary depending on model but the functions should remain the same.

### [Page 35: Microsoft Windows™ Keys](#)

Getting Started Microsoft Windows™ Keys There are two special Windows™ keys on the keyboard as described below. The key with the Windows™ Logo activates the Start menu located at the bottom left of the Windows™ desktop. The other key, that looks like a Windows™ menu with a small cursor, activates the properties menu and is equivalent to pressing the right mouse button on a Windows™ ...

### [Page 36: Keyboard As Cursors](#)

Keyboard as Cursors The keyboard can be used as cursors while Number Lock is ON or OFF in order to increase navigation ease while entering numeric data in spreadsheets or similar applications. With Number Lock OFF, press up, [Fn][K] for down, [Fn][U] for left, and [Fn][O] for right. With Number Lock ON, use [Shift] and one of the cursor keys shown below.

### [Page 37: Instant Launch Keys And Status Indicators](#)

Getting Started Instant Launch Keys and Status Indicators Instant Launch Keys Power4 Gear+ Key The Power4 Gear+ button 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 during various events.

### [Page 38: Status Indicators](#)

Status Indicators Power Indicator The green LED lights to indicate that the Notebook PC is turned ON and blink when the Notebook PC is in the Suspend-to-RAM (Standby) mode. This LED is OFF when the Notebook PC is OFF or in the Suspend-to-Disk (Hibernation) mode.

[Page 39](#) Getting Started Status Indicators 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. Number Lock Indicates that number lock [Num Lk] is activated when lighted. Number lock allows some of the key- board letters to act as numbers for easier numeric data input.

### [Page 40: Cd Player Control Buttons And Indicator](#)

CD Player Control Buttons and Indicator There are several CD control buttons integrated externally on the Notebook PC for convenient CD playing. The buttons activate and control your operating system's audio player when the Notebook PC is ON. When your Notebook PC is OFF, the CD control buttons activate a CD player function that allows you to listen to audio CDs even while the Notebook PC is not turned ON.

[Page 41](#) Getting Started...

### [Page 42: Using The Notebook Pc](#)

4. Using the Notebook PC Pointing Device Optical Drive Flash Memory Card Reader PC Card (PCMCIA) Socket Modem and Network Connections IR Wireless Communication AC Power System Battery Power System Power Management Modes Notebook PC Upgrades...

### [Page 43: Pointing Device](#)

Using the Notebook PC Pointing Device The Notebook PC's integrated touchpad pointing device is fully compatible with all two/three-button and scrolling knob PS/2 mice. The touchpad is pressure sensitive and contains no moving parts; therefore, mechanical failures can be avoided. A device driver is still required for working with some application software.

### [Page 44: Touchpad Usage Illustrations](#)

Using the Notebook PC Touchpad Usage Illustrations Clicking/Tapping - With the cursor over an item, press the left button or use your fingertip to touch the touchpad lightly, keeping your finger on the touchpad until the item is selected. The selected item will change color.

## [Page 45: Caring For The Touchpad](#)

Using the Notebook PC Dragging - Dragging means to pick up an item and place it anywhere on the screen you wish. You can move the cursor over the item you select, and while keeping the left button depressed, moving the cursor to the desired location, then release the button.

## [Page 46: Optical Drive](#)

Optical Drive Inserting an optical disc 1. While the Notebook PC's power is ON, press the drive's eject button and the tray will eject out partially. 3. 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.

## [Page 47: Removing An Optical Disc](#)

Using the Notebook PC Optical Drive (Cont') Removing an optical disc 1. While the Notebook PC's power is ON, press the drive's eject button and the tray will eject out partially. Using the Optical Drive Optical discs and equipment must be handled with care because of the precise mechanics involved. Keep in mind the important safety instructions from your CD suppliers.

## [Page 48: Pc Card \(Pcmcia\) Socket](#)

Using the Notebook PC PC Card (PCMCIA) Socket The Notebook PC supports PC Cards (or sometimes referred to as PCMCIA cards) to allow expansion like PCI cards on desktop computers. This allows you to customize your Notebook PC to meet a wide range of application needs.

## [Page 49: Inserting A Pc Card \(Pcmcia\)](#)

Using the Notebook PC Inserting a PC Card (PCMCIA) 1. If there is a PC Card socket protector, remove it using the "Removing a PC Card" instructions below. 2. Insert the PC card with the connector side first and label side up. Standard PC cards will be flush with the Notebook PC when fully inserted.

## [Page 50: Flash Memory Card Reader](#)

Flash Memory Card Reader Normally a PCMCIA memory card reader must be purchased separately in order to use memory cards from devices such as digital cameras, MP3 players, mobile phones, and PDAs. This Notebook PC has a single built-in memory card reader that can read the following flash memory cards: Secure Digital (SD), Multi-Media Card (MMC), Memory Stick (MS), Memory Stick Select (MS Select), Memory Stick Duo (with MS adapter), Memory Stick Pro, and Memory Stick Pro Duo (with MS Pro adapter).

[Page 51](#) Using the Notebook PC Modem Connection The telephone wire used to connect the Notebook PC's internal modem should have either two or four wires (only two wires (telephone line #1) is used by the modem) and should have an RJ-11 connector on both ends.

## [Page 52: Network Connection \(Gigabit Support\)](#)

Network Connection (Gigabit Support) Connect a network cable, with RJ-45 connectors on each end, to the modem/network port on the Notebook PC and the other end to a hub or switch. For 100 BASE-TX / 1000 BASE-T speeds, your network cable must be category 5 or better (not category 3) with twisted-pair wiring.

## [Page 53: Ac Power System](#)

Using the Notebook PC AC Power System 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.

## [Page 54: Using Battery Power](#)

Using Battery Power A fully-charged battery pack provides the Notebook PC a few hours of working power. But the actual figure varies depending on how you use the power saving features, your general work habits, the CPU, system memory size, and the size of the display panel. Checking Battery Power To check the remaining battery power, move your cursor over the power icon.

## [Page 55: Power Management Modes](#)

Using the Notebook PC 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.

### [Page 56: Power State Summary](#)

Power State Summary STATE ENTRY EVENT “Stand by” • “Stand by” through Windows Start button, • Timer as set though “Power Management” in Windows Control Panel (higher priority) STR (“Stand by”) • Hotkey [Fn][F1] (Suspend-to-RAM) STD (“Hibernate”) • Hotkey [Fn][F1] (Suspend-to-Disk) Soft OFF •...

### [Page 57: Notebook Pc Upgrades](#)

Using the Notebook PC Notebook PC Upgrades System Memory Expansion Additional memory will increase application performance by decreasing hard disk access. This is more noticeable on newer software that require more and more system resources. The BIOS automatically detects the amount of memory in the system and configures CMOS accordingly during the POST (Power-On-Self-Test) process.

### [Page 58: Appendix](#)

Appendix Optional Accessories Optional Connections Internal Modem Compliancy Glossary Notebook PC Information...

### [Page 59: Optional Accessories](#)

Appendix 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 2.0 Slim Combo Drive (Optional) The slim combo drive features FlextraLink™ ...

### [Page 60: Wireless Lan Cardbus Card Or Usb](#)

Optional Accessories (Cont.) These items, if desired, come as optional items to complement your Notebook PC. Wireless LAN Cardbus Card or USB The SpaceLink™ Cardbus Card is a dual band (IEEE 802.11a/b) wireless LAN adapter that fits into a Notebook PC’s PCMCIA Type II slot with Cardbus support. The USB version is single band (IEEE 802.11b) but supports any computer (Notebook or Desktop) with a USB port.

### [Page 61: Usb Floppy Disk Drive](#)

Appendix Optional Accessories (Cont.) These items, if desired, come as optional items to complement your Notebook PC. USB Floppy Disk Drive The Notebook PC features an optional USB-interface disk drive that accepts a standard 1.44MB (or 720KB) 3.5-inch floppy diskette. The eject button is on the top edge of the floppy disk drive for easy access, unlike desktop PCs with the eject button on the bottom of the floppy disk drive.

### [Page 62: Optional Connections](#)

Optional Connections These items, if desired, may be purchased from third-parties. Monitor Out Connection Attaching an optional VGA/LCD monitor is just like that of a standard desktop PC (some configurations may require additional display driver settings. You can view the Notebook PC display panel while simultaneously allowing others to view the external monitor.

### [Page 63: Printer Connection](#)

Appendix Optional Connections (Cont.) These items, if desired, may be purchased from third-parties. IEEE1394 Connection 1394 is a high speed serial bus like SCSI but has simple connections and hot-plugging capabilities like USB. Up to 63 devices such as hard disk drives, scanners, removable drives, and digital cameras/ video cameras with an 1394 port can all be connected (more 1394 devices can be connected us-...

### [Page 64: Dvd-Rom Drive Information](#)

DVD-ROM Drive Information The Notebook PC comes with an optional DVD-ROM drive or a CD-ROM drive. In order to view DVD titles, you must install your own DVD viewer software. Optional DVD viewer software may be purchased with this Notebook PC. The DVD-ROM drive allows the use of both CD and DVD discs. Regional Playback Information Playback of DVD movie titles involves decoding MPEG2 video, digital AC3 audio and decryption of CSS protected content.

## [Page 65: Internal Modem Compliancy](#)

Appendix 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 termination point.

[Page 66](#) This table shows the countries currently under the CTR21 standard. Country Applied Austria Belgium Czech Republic Denmark Finland France Germany Greece Hungary Iceland Ireland Italy Still Pending Israel Lichtenstein Luxemburg The Netherlands Norway Poland Portugal Spain Sweden Switzerland United Kingdom This information was copied from CETECOM and is supplied without liability.

## [Page 67: Glossary](#)

Appendix Glossary ACPI (Advanced Configuration and Power Management Interface) Modern standard for reducing power usage in computers. APM (Advanced Power Management) Modern standard for reducing power usage in computers. AWG (American Wire Gauge) Gauge Diam Area (mm) (mm<sup>2</sup>) 0.04 0.0013 0.05 0.0020 0.06...

[Page 68](#) Appendix BIOS (Basic Input/Output System) BIOS is a set of routines that affect how the computer transfers data between computer components, such as memory, disks, and the display adapter. The BIOS instructions are built into the computer's read-only memory. BIOS parameters can be configured by the user through the BIOS Setup program. The BIOS can be updated using the provided utility to copy a new BIOS file into the EEPROM.

[Page 69](#) Appendix DVD is essentially a bigger, faster CD that can hold video as well as audio and computer data. With these capacities and access rates, DVD discs can provide you with dramatically-enhanced high-color, ® full-motion videos, better graphics, sharper pictures, and Dolby Digital Surround for a theater-like experience.

[Page 70](#) Laser Classifications As lasers became more numerous and more widely used, the need to warn users of laser hazards be- came apparent. To meet this need, laser classifications were established. Current classification levels vary from optically safe, requiring no controls (Class 1) to very hazardous, requiring strict controls (Class 4).

[Page 71](#) Appendix POST (Power On Self Test) When you turn on the computer, it will first run through the POST, a series of software-controlled diagnostic tests. The POST checks system memory, the motherboard circuitry, the display, the key- board, the diskette drive, and other I/O devices. PS/2 Port PS/2 ports are based on IBM Micro Channel Architecture.

[Page 72](#) Appendix...

## [Page 73: Notebook Pc Information](#)

Appendix Notebook PC Information This page is provided for recording information concerning your Notebook PC for future reference or for technical support. Keep this User's Manual in a secured location if passwords are filled out. Owner's Name: \_\_\_\_\_ Owner's Telephone: \_\_\_\_\_ Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_ Retailer: \_\_\_\_\_ Telephone: \_\_\_\_\_ Display Size: \_\_\_\_\_ Purchase Date: \_\_\_\_\_ Serial Number: \_\_\_\_\_...

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