



Asus U1E Hardware User Manual

Asus u1e: user guide

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Notebook PC

Hardware User's Manual

E2957 / Jan 2007

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(93 pages)

[Telephone Asus AiGuru U1 Quick Start Manual](#)

(56 pages)

[Telephone Asus AiGuru U1 User Manual](#)

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Summary of Contents for Asus U1E

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

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

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

Introduces you to optional accessories and gives additional information. Notes For This Manual A few notes and warnings in bold are used throughout this guide that you should be aware of in order to complete certain tasks safely and completely. These notes have different degrees of importance as described below: NOTE: Tips and information for special situations.

[Page 7: Safety Precautions](#)

Introducing the Notebook PC 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. 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 8: Transportation Precautions](#)

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. Close the display panel and check that it is latched securely in the closed position to protect the keyboard and display panel.

[Page 9: Preparing Your Notebook Pc](#)

Introducing the 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. 2. Connect the AC Power Adapter 1. Install the battery pack 3.

[Page 10](#) Introducing the Notebook PC...

[Page 11: Knowing The Parts](#)

2. Knowing the Parts Basic sides of the Notebook PC NOTE: Photos and icons in this manual are used for artistic purposes only and do not show what is actually used in the product itself.

[Page 12: Top Side](#)

Knowing the Parts Top Side Refer to the diagram below to identify the components on this side of the Notebook PC. NOTE: The keyboard will be different for each territory.

[Page 13: Display Panel](#)

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. Use a soft cloth without chemical liquids (use plain water if necessary) to clean the display panel.

[Page 14: Bottom Side](#)

Knowing the Parts Bottom Side Refer to the diagram below to identify the components on this side of the Notebook PC. NOTE: The bottom side may vary in appearance depending on model. NOTE: The battery pack size will vary depending on model.

[Page 15: Battery Pack](#)

Knowing the Parts Battery Lock - Spring 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.

[Page 16: Right Side](#)

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

[Page 17: Modem Port](#)

Notebook PC. 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 18: Left Side](#)

USB Port (2.0/1.1) The USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, cameras, hard disk drives, printers, and scanners connected in a series up to 12Mbps/sec (USB 1.1) and 480Mbps/sec (USB 2.0).

[Page 19: Front Side](#)

Knowing the Parts Front Side Refer to the diagram below to identify the components on this side of the Notebook PC. Flash Memory Slot Normally a PCMCIA or USB 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.

[Page 20: Rear Side](#)

Knowing the Parts Rear Side Refer to the diagram below to identify the components on this side of the Notebook PC. 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 21: Getting Started](#)

3. Getting Started Using AC Power Using Battery Power Powering ON the Notebook PC Checking Battery Power Restarting or Rebooting Powering OFF the Notebook PC Special Keyboard Functions Switches and Status Indicators...

[Page 22: Power System](#)

US-standard AC power cord to a different standard. Most hotels will provide universal outlets to support different power cords as well as voltages. It is always best to ask an experienced traveler about AC outlet voltages when bringing power adapters to another country.

[Page 23: Using Battery Power](#)

The battery pack's useful life will depend on your environment temperature, humidity, and how your Notebook PC is used. It is ideal that the battery be used in a temperature range between 5°C and 35°C (41°F and 95°F). You must also take into account that the Notebook PC's internal temperature is higher than the outside temperature.

[Page 24: 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. If you press [Tab] during the splash screen, standard boot information such as the BIOS version can be seen.

[Page 25: Checking Battery Power](#)

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 26: Restarting Or Rebooting](#)

OFF by holding the power switch for 2 seconds (as opposed to 1 second to power ON). Holding the power switch for 2 seconds is necessary in order to prevent accidental power-OFFs.

[Page 27: Special Keyboard Functions](#)

NOTE: The Hot Key locations on the function keys may vary depending on model but the functions should remain the same. Follow the icons instead of the function keys.

[Page 28: Colored Hot Keys \(Cont\)](#)

The power saving modes control many aspects of the Notebook PC to maximize performance versus battery time. When you are using an AC power adapter, Power4 Gear+ will switch between modes in the AC power mode segment. When you remove the AC adapter, Power4 Gear+ will switch between modes in the battery (DC) mode segment.

[Page 29: Microsoft Windows Keys](#)

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 object.

[Page 30: Switches And Status Indicators](#)

AC power mode segment. When you remove the AC adapter, Power4 Gear+ will switch between modes in the battery (DC) mode segment. When you remove or apply the AC adapter, Power4 Gear+ will automatically shift you up or down into the proper mode segment (AC or DC).

[Page 31: Status Indicators](#)

Notebook PC's built-in Bluetooth (BT) function is activated. Battery Charge Indicator The battery charge indicator is an LED that shows the status of the battery's power as follows: ON: The Notebook PC's battery is charging when AC power is connected.

[Page 32: Multimedia Control Keys \(On Selected Models\)](#)

CD Skip to Previous Track (Rewind) & Audio Volume Down During CD play, this button has two functions: Track: The first push will restart the current track. Second push will skip to the previous track. Audio: Hold down to decrease audio volume. CD Skip to Next Track (Fast Forward) & Audio Volume Up During CD play, this button has two functions: Track: Push once to skip to the next track during CD playing.

[Page 33: Using The Notebook Pc](#)

Storage Devices Expansion Card Optical drive Flash memory card reader Hard disk drive Memory (RAM) Connections Modem Connection Network Connection Wireless LAN Connection Bluetooth Wireless Connection Power Management Modes Fingerprint Scanner (on selected models) Trusted Platform Module (TPM) (on selected models)

[Page 34: Pointing Device](#)

Left Click Using the Touchpad Light pressure with the tip of your finger is all that is required to operate the touchpad. Because the touch- Slide finger pad is electrostatic sensitive, objects cannot be used in forward place of your fingers.

[Page 35: Touchpad Usage Illustrations](#)

If the interval between the clicks or taps is too long, the operation will not be executed. You can set the double-click speed using the Windows Control Panel "Mouse." The following 2 examples produce the same results.

[Page 36: Caring For The Touchpad](#)

Using the Notebook PC Caring for the Touchpad The touchpad is pressure sensitive. If not properly cared for, it can be easily damaged. Take note of the following precautions. • Make sure the touchpad does not come into contact with dirt, liquids or grease.

[Page 37: Storage Devices](#)

Using the Notebook PC Storage Devices Storage devices allow the Notebook PC to read or write documents, pictures, and other files to various data storage devices. This Notebook PC has the following storage devices: • Expansion Card • Optical drive (external) •...

[Page 38: Optical Drive \(External\)](#)

The USB 2.0 port provides a convenient solution to connect the external optical drive. Normally, an additional power adapter is required for an external optical drive but this Notebook PC features a power output jack for use with the provided optical drive.

[Page 39: Inserting An Optical Disc](#)

When the drive stops, the disc is hub. The hub should be higher than the ready to be used. disc when correctly mounted. NOTE: It is normal to hear as well as feel the CD spinning with great intensity in the CD drive while data is read.

[Page 40: Using The Optical Drive](#)

Keep in mind the important safety instructions from your CD suppliers. Unlike desktop optical drives, the Notebook PC uses a hub to hold the CD in place regardless of the angle. When inserting a CD, it is important that the CD be pressed onto the center hub or else the optical drive tray will scratch the CD.

[Page 41: Flash Memory Card Reader](#)

MP3 players, mobile phones, and PDAs. This Notebook PC has a single built-in memory card reader that can use many flash memory cards as shown in the example below. The built-in memory card reader is not only convenient, but also faster than most other forms of memory card readers because it utilizes the internal high-bandwidth PCI bus.

[Page 42: Hard Disk Drive](#)

Handle the Notebook PC gently and keep it away from static electricity and strong vibrations or impact. The hard disk drive is the most delicate component and will likely be the first or only component that is damaged if the Notebook PC is dropped.

[Page 43: Memory \(Ram\)](#)

Memory (RAM) 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. There is no hardware or software (including BIOS) setup required after the memory is installed.

[Page 44: Connections](#)

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. Connect one end to the modem port and the other end to an analog telephone wall socket (the ones found in residential buildings).

[Page 45: Network Connection](#)

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. If you plan on running the interface at 100/1000Mbps, it must be connected to a 100 BASE-TX / 1000 BASE-T hub (not a BASE-T4 hub).

[Page 46: Wireless Lan Connection \(On Selected Models\)](#)

The optional built-in wireless LAN is a compact easy-to-use wireless Ethernet adapter. Implementing the IEEE 802.11 standard for wireless LAN (WLAN), the optional built-in wireless LAN 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 47: Intel ProSet \(3945\) Wireless Lan \(On Selected Models\)](#)

Using the Notebook PC Intel PROSet (3945) Wireless LAN (on selected models) Connecting to a network Switch ON the Wireless Switch if necessary for your model (see switches in Section 3). Press [FN F2] (or double click the Wireless Console icon on the taskbar). Four icons will appear as shown here.

[Page 48: Asus Wireless Lan \(On Selected Models\)](#)

F2] (or double click the Wireless Console icon on the taskbar). Four icons will appear as shown here. Click on the 1st setting to activate both Wireless & Bluetooth, or you may select the 2nd option for Wireless activation only.

[Page 49: Windows Wireless Network Connection](#)

F2] (or double click the Wireless Console icon on the taskbar). Four icons will appear as shown here. Click on the 1st setting to activate both Wireless & Bluetooth, or you may select the 2nd option for Wireless activation only.

[Page 50: Bluetooth Wireless Connection \(On Selected Models\)](#)

You can wireless connect to your mobile phone. Depending on your mobile phone's capabilities, you can transfer phone book data, photos, sound files, etc. or use it as a modem to connect to the Internet. You may also use it for SMS messaging.

[Page 51: Power Management Modes](#)

"Hibernation" mode or Suspend-to-Disk (STD). The Standby mode is a simple function provided by the operating system. When the Notebook PC is in either one of the power saving modes, the status will be shown by the following: "Stand by": Power LED Blinks and "Hibernation": Power LED OFF.

[Page 52: Power State Summary](#)

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 53: Stand By And Hibernate](#)

(such as a document scrolled down half way or email typed half way) will reappear as if you never left. "Shut down" will close all applications and ask if you want to save your work if any are not saved.

[Page 54: Fingerprint Scanner \(On Selected Models\)](#)

Using the Notebook PC Fingerprint Scanner (on selected models) The fingerprint scanner can be used for instant and secure user authentication. You can launch the Control Center from Windows "Start" if Left or right click the fingerprint taskbar icon to open the menu to edit fingerprints or make the taskbar icon is not running❖...

[Page 55: Fingerprint Login](#)

7. During system boot, you will see "Swipe finger to authorize access...". If you do not successfully do so in the allowed time, it will revert to "Enter Password: _". Pressing the [ESC] key will show "Biometric operation cancelled" and allow you to enter a password instead of using a fingerprint. In either case, you will see ***ACCESS GRANTED*** when authorized.

[Page 56: Trusted Platform Module \(Tpm\) \(On Selected Models\)](#)

Each individual TPM must have an Owner before it is useful as a security device. TPM Applications TPM is useful for any customer that is interested in providing an addition layer of security to the computer system. The TPM, when bundled with an optional security software package, can provide overall system security, file protection capabilities and protect against email/privacy concerns.

[Page 57](#) Using the Notebook PC TPM Setup for Fingerprint Scanner These instructions will show you how to use the fingerprint scanner to authenticate the Infineon TPM. 1. Initialize Infineon TPM Security Platform. 2. Enroll fingerprint using PSQL. 3. Setting Infineon Security Platform: Click Con- 4. Check Enhanced Authentication and click...

[Page 58](#) Using the Notebook PC TPM Setup for Fingerprint Scanner (Cont.) 5. Choose UPEK Enhanced Authentication Provider. 6. Click Configure... in User Settings page. 7. Check the Enhanced Authentication and Next. 8. Select the UPEK Fingerprint Sensor and Next. 10. Swipe finger to authenticate. 9. Enter the old password and a new passphrase.

[Page 59](#) Using the Notebook PC TPM Setup for Fingerprint Scanner (Cont.) 11. Settings are complete. Authentication when 12. This is the original screen before setting enhanced authentication. will change from asking TPM basic password to Biometric device (Fingerprint Reader) or new passphrase.

[Page 60: Clearing Tpm Secured Data](#)

Using the Notebook PC Clearing TPM Secured Data When Supervisor Password is installed, TPM Security Clear will appear. Use this item to clear all data secured by TPM. Important: Use should routinely backup your TPM secured data. Running Security Platform in Windows...

[Page 61](#) Appendix Optional Accessories Optional Connections Operating System and Software Common Problems and Solutions System Recovery Partition System Recovery CDs (on selected models) NTFS Converter Glossary Declarations and Safety Statements Notebook PC Information...

[Page 62: Optional Accessories](#)

USB peripherals through a single cable. USB Flash Memory Disk A USB flash memory disk is an optional item that can replace the 1.44MB floppy disk and provide storage up to several hundred megabytes, higher transfer speeds, and greater durability.

[Page 63: Optional Connections](#)

Windows navigation to be more comfortable. Both the external USB keyboard and mouse will work simultaneously with the Notebook PC's built-in keyboard and touchpad. Printer Connection One or more USB printers can be simultaneously used on any USB port or USB hub.

[Page 64](#) Right click the taskbar OFF ON Bluetooth icon and 4❖ Push the "RESET" button on the bottom of the mouse❖ Connection❖ If you do not see the Bluetooth mouse here❖...

[Page 65: Troubleshooting](#)

Double-click on the Bluetooth Icon❖ Double-click on the registered Bluetooth mouse❖

After connection, the icon will show a pair of green and yellow hands...

[Page 66: Operating System And Software](#)

A recovery CD is optional and includes an image of the original operating system installed on the hard drive at the factory. The recovery CD provides a comprehensive recovery solution that quickly restores the Notebook PC's operating system to its original working state provided that your hard disk drive is...

[Page 67: Common Problems And Solutions](#)

1. Update the BIOS to the latest version and try again. 2. If updating the BIOS does not help, try better quality discs and try again. 3. If the problem still exist, contact your local service center and ask an engineer for assistance. Unknown Reason - System Unstable Cannot wake up from the hibernation.

[Page 68](#) 1. Register the Notebook PC for a one-year-warranty using the following website: <http://member.asus.com/login.aspx?SLanguage=en-us> 2. Do NOT remove the battery pack while using the Notebook PC with the AC adaptor to prevent damage caused by the accidental power loss. The ASUS battery pack has protection circuitry to prevent over-charging so it will not damage the battery pack if it is left in the Notebook PC.

[Page 69](#) 1. Please verify the Notebook PC's exact model and download the latest BIOS file for your model from the ASUS website. 2. Use the "WINFLASH" utility to update your BIOS. The utility can be found in your Driver & Utility CD that came with your Notebook PC.

[Page 70](#) Common Problems and Solutions (Cont.) Symantec's Norton Internet Security (NIS) 1. Sometimes NIS will show an alert to stop the BAL Trojan from a local IP address. This problem can be solved by making sure the virus definition file is the latest one and regularly updating the virus definition file. 2. Reinstalling fails at the "Information Wizard" after uninstalling Norton Antivirus. Make sure NIS has been uninstalled from your computer, reboot your system, install NIS again, use "Live Update"...

[Page 71](#) NIS will reduce your system speed (both booting and running performance) if you are using NIS's full protection functions, NIS scans and tracks all data in the background. You can speed up your system by stopping NIS's auto scan functions in system bootup. You can then scan virus manually when your computer is not in use.

[Page 72](#) Notebook PC's software to its original working state, provided that your hard disk drive is in good working order. Before using the Recovery Partition, copy your data files (such as Outlook PST files) to floppy disks or to a network drive and make note of any customized configuration settings (such as network settings).

[Page 73](#) 2. Turn ON your notebook PC or restart if it is already ON. 3. Press <Esc> on bootup and select the optical drive using the down cursor and press <Enter> to boot from Recover CD 1. Or set your optical drive to boot in BIOS.

[Page 74: Ntfs Converter](#)

NTFS Converter 1. Double-click the NTFS icon on the desktop. The conversion command will be executed once for each partition on your Notebook PC so you will have to answer additional questions. NOTE: If your local disk is already in NTFS format, "...is already NTFS"...

[Page 75](#) BIOS file into the EEPROM. Bit (Binary Digit) Represents the smallest unit of data used by the computer. A bit can have one of two values: 0 or 1. Boot Boot means to start the computer operating system by loading it into system memory.

[Page 76](#) VGA, audio, Ethernet, printer, or modem. 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 digital audio for a theater-like experience.

[Page 77](#) Class 4 laser is operating without proper eye protection. PCI Bus (Peripheral Component Interconnect Local Bus) PCI bus is a specification that defines a 32-bit data bus interface. PCI is a standard widely used by expansion card manufacturers.

[Page 78](#) The time-out setting of both Hard Disk and Video can be set by the BIOS Setup. The Power LED blinks when the Notebook PC is in STR mode. In STD mode, the Notebook PC will appear to be powered OFF.

[Page 79: Declarations And Safety Statements](#)

"Region Definitions" below. Copyright laws require that all DVD movies be limited to a particular region (usually coded to the region at which it is sold). While DVD movie content may be released for multiple regions, CSS design rules require that any system capable of playing CSS encrypted content must only be capable of playing one region.

[Page 80: Internal Modem Compliancy](#)

Overview On 4th August 1998 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 81](#) 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 82: Federal Communications Commission Statement](#)

- This device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

[Page 83: Fcc Radio Frequency Interference Requirements](#)

FCC Radio Frequency Interference Requirements This device is restricted to INDOOR USE due to its operation in the 5.15 to 5.25GHz frequency range. FCC requires this product to be used indoors for the frequency range 5.15 to 5.25GHz to reduce the potential for harmful interference to co-channel of the Mobile Satellite Systems.

[Page 84: Wireless Operation Channel For Different Domains](#)

- Maximum authorized power indoors is 100mW • Maximum authorized power outdoors is 10mW Departments in which the use of the 2400-2483.5 MHz band is permitted with an EIRP of less than 100mW indoors and less than 10mW outdoors: 01 Ain Orientales...

[Page 85: UI Safety Notices](#)

These batteries contain metallic lithium, or a lithium alloy, or a lithium ion, and may consist of a single electrochemical cell or two or more cells connected in series, parallel, or both, that convert chemical energy into electrical energy by an irreversible or reversible chemical reaction.

[Page 86](#) Batterien nach Angaben des Herstellers. (German) ADVARSEL! Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren. (Danish) VARNING! Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.

[Page 87: 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. Laser classifications can be found in the glossary at the end of this user's manual. WARNING: Making adjustments or performing procedures other than those specified in the user's manual may result in hazardous laser exposure.

[Page 88](#) Appendix CTR 21 Approval (for Notebook PC with built-in Modem) Danish Dutch English Finnish French German Greek Italian Portuguese Spanish Swedish...

[Page 89](#) Appendix...

[Page 90: Notebook Pc Information](#)

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: _____...

[Page 91: Copyright Information](#)

ASUS will only be responsible for or indemnify you for loss, damages or claims based in contract, tort or infringement under this Warranty Statement. This limit also applies to ASUS' suppliers and its reseller. It is the maximum for which ASUS, its suppliers, and your reseller are collectively responsible.

This manual is also suitable for:

[U1fU1e-a1U1f-1p016eU1Lamborghini](#)