

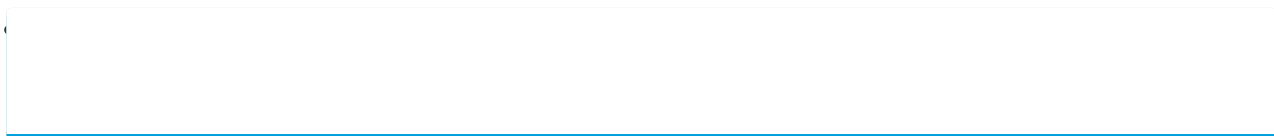


Asus R2Hv Hardware User Manual

Ultramobilepc (umpc)

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UltraMobilePC (UMPC)

Hardware User's Manual

1.3M
E3261 / Jun 2007

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Summary of Contents for Asus R2Hv

[Page 1](#) UltraMobilePC (UMPC) Hardware User's Manual 1 . 3 M P I X E L S E3261 / Jun 2007...

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[Page 4](#) UltraMobilePC...

[Page 5: Introducing The Ultramobilepc](#)

1. Introducing the UltraMobilePC About This User's Manual Notes For This Manual Safety Precautions Preparing your UltraMobilePC 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 6: About This User's Manual](#)

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

[Page 7: Safety Precautions](#)

Safety Precautions The following safety precautions will increase the life of the UltraMobilePC. 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](#)

UltraMobilePC Transportation Precautions To prepare the UltraMobilePC 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 UltraMobilePC while the power is still ON. Cover Your UltraMobilePC You can purchase an optional carrying case to protect it from dirt, water, shock, and scratches.

[Page 9: Preparing Your Ultramobilepc](#)

Preparing your UltraMobilePC These are only quick instructions for using your UltraMobilePC. Read the later pages for detailed information on using your UltraMobilePC. 1. Install the battery pack 3. Remove the Tablet Pen Extend the Tablet Pen as shown Then Tablet Pen can be inserted in the extended form and then contracted while pressing the Tablet Pen flush with the UltraMobilePC.

[Page 10](#) UltraMobilePC...

[Page 11: Knowing The Parts](#)

2. Knowing the Parts Basic sides of the UltraMobilePC 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: Front Side](#)

Front Side Refer to the diagram below to identify the components on this side of the UltraMobilePC. Display Panel The display panel functions the same as a desktop monitor. The UltraMobilePC uses an active matrix TFT LCD, which provides excellent viewing like that of desktop monitors.

[Page 13: Status Indicators](#)

Page Up & Page Down The Page Up and Page Down buttons act the same way as those on a key-board. UltraMobilePC Settings Button The UltraMobilePC settings button bring up an easy menu to customize the UltraMobilePC to your desire. Status Indicators Status indicators represent various conditions.

[Page 14: Right Side](#)

Right Side Refer to the diagram below to identify the components on this side of the UltraMobilePC. LAN Port (disabled when using PortBar) The RJ-45 LAN port with eight pins is larger than the RJ-11 modem port and supports a standard Ethernet cable for connection to a local network.

[Page 15](#) 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). USB allows many devices to run simultaneously on a single computer, with some peripherals acting as additional plug-in sites or hubs.

[Page 16: Top Side](#)

Top Side Refer to the diagram below to identify the components on this side of the UltraMobilePC. AV-OUT AV-OUT HOLD Audio/Video output port for connection to analog audio/video WIRELESS LOGIN devices such as televisions or video recorders. POWER 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)

[Page 17](#) AV-OUT HOLD Wireless Switch WIRELESS LOGIN POWER Enables or disables the built-in wireless LAN and Bluetooth (selected models). When enabled, the wireless status indicator will light. Windows software settings are necessary before use. AV-OUT HOLD WIRELESS LOGIN Button LOGIN POWER The LOGIN button sends a [Ctrl][Alt][Del] keyboard combination to the operating system to show Windows Security for logging in/off, locking, shutting down, showing task manager, or changing passwords.

[Page 18: Left Side](#)

Left Side Refer to the diagram below to identify the components on this side of the UltraMobilePC. Mini-USB Port (Type A) The mini-USB (Universal Serial Bus) port is for connection to the optional external USB keyboard. Wrist strap hook The wrist strap hook is for use with the wrist strap to prevent accidentally dropping the UltraMobilePC when holding it in your hands.

[Page 19: Bottom Side](#)

Bottom Side Refer to the diagram below to identify the components on this side of the UltraMobilePC. 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 20: Back Side](#)

Back Side Refer to the diagram below to identify the components on this side of the UltraMobilePC. Battery Pack The battery pack is automatically charged when the UltraMobilePC is connected to an AC power source and maintains power to the UltraMobilePC when AC power is not connected.

[Page 21: Getting Started](#)

3. Getting Started Using AC Power Using Battery Power Powering ON the UltraMobilePC
Checking Battery Power Restarting or Rebooting Powering OFF the UltraMobilePC Status
Indicators 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 22: Power System](#)

Power System Using AC Power The UltraMobilePC 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 UltraMobilePC. Your Ultra- MobilePC comes with a universal AC-
DC adapter.

[Page 23: Using Battery Power](#)

Using Battery Power The UltraMobilePC is designed to work with a removable battery pack. The
battery pack consists of a set of battery cells housed together. A fully charged pack will provide
several hours of battery life, which can be further extended by using power management
features through the BIOS setup. Additional battery packs are optional and can be purchased
separately through a retailer.

[Page 24: Powering On The Ultramobilepc](#)

Powering ON the UltraMobilePC The UltraMobilePC's power-ON message appears on the screen
when you turn it ON. If necessary, you may adjust the brightness by using the hotkey. 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 25: Checking Battery Power](#)

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

[Page 26: Charging The Battery Pack](#)

UltraMobilePC Charging the Battery Pack Before you use your UltraMobilePC on the road, you
will have to charge the battery pack. The battery pack begins to charge as soon as the
UltraMobilePC is connected to external power using the power adapter. Fully charge the battery
pack before using it for the first time. A new battery pack must completely charge before the
UltraMobilePC is disconnected from external power.

[Page 27: Power Management Modes](#)

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

[Page 28: Status Indicators](#)

UltraMobilePC Status Indicators Power Indicator The power indicator lights when the
UltraMobilePC is turned ON and blinks slowly when the UltraMobilePC is in the Suspend-to-RAM
(Standby) mode. This indicator is OFF when the UltraMobilePC is turned OFF or in the Suspend-
to-Disk (Hibernation) mode.

[Page 29: Using The Ultramobilepc](#)

4. Using the UltraMobilePC Display Calibration Connections Network Connection Wireless LAN
Connection Bluetooth Wireless Connection Power Management Modes Fingerprint Scanner GPS
Software 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 30: Display Calibration \(Vista\)](#)

Display Calibration (Vista) 1  Launch Control Panel from Windows Start  3  Click the
Calibrate button on the "General" page  2  Double click Tablet PC Settings icon  4 

Carefully tap the center of each cross hair that appears to complete the calibration process...

[Page 31: Display Calibration \(Xp\)](#)

Display Calibration (XP) 1 Double click the TouchSet Utility icon on the desktop 3 Click the Calibration tab and click the Calibrating Now button 2 Or launch TouchSet Utility through Windows Start 4 Carefully tap the center of each cross hair that appears to complete the calibration process...

[Page 32: Connections](#)

Connections 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 33: Wireless Lan Connection \(On Selected Models\)](#)

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 34: Windows Wireless Network Connection](#)

Windows Wireless Network Connection Connecting to a network (Vista) 1 Press [WIRELESS] switch repeatedly until Wireless LAN ON or WLAN & Bluetooth ON is shown 2 You should see the "Not Connected" network icon 4 Select "Show Wireless" if you have many networks in your area...

[Page 35](#) Windows Wireless Network Connection Connecting to a network (XP) Using Windows XP wireless settings require that you select this option in the ASUS WLAN Control Center. 1 Press [WIRELESS] switch repeatedly until Wireless LAN ON or WLAN & Bluetooth ON is shown...

[Page 36: Asus Wireless Lan \(On Selected Models\)](#)

Wireless LAN ON or WLAN & Bluetooth ON is shown 2 Double click the icon on the desktop or click Start | Programs | ASUS Utility | WLAN Card | ASUS WLAN Control Center. 4 The list will show all available networks within your area...

[Page 37](#) ASUS Wireless LAN (on selected models) Connecting to a network (cont.) 6 Click the Encryption tab to configure the Network Authentication mode and Password Note: Click "Save Configuration" and "Save" to remember settings for this network. 7 The Status tab will show connection status...

[Page 38: Bluetooth Wireless Connection \(On Selected Models\)](#)

Bluetooth Wireless Connection (on selected models) Notebook PCs with Bluetooth technology eliminates the need for cables for connecting Bluetooth-enabled devices. Examples of Bluetooth-enabled devices may be Notebook PCs, Desktop PCs, mobile phones, and PDAs. Note: If your Notebook PC did not come with built-in Bluetooth, you need to connect a USB or ExpressCard Bluetooth module in order to use Bluetooth.

[Page 39: Fingerprint Registration \(On Selected Models\)](#)

Fingerprint Registration (on selected models) The fingerprint scanner can be used for instant and secure user authentication. These instructions will show you how to setup the fingerprint registration. 1 This wizard will automatically start when TPM is enabled in BIOS after setting security passwords...

[Page 40](#) Fingerprint Registration (on selected models) cont. 5. Select a finger on the diagram and swipe the corresponding finger on the scanner slowly. You must swipe your finger multiple times for verification. You must register at least two fingers to decrease the chance of any problems...

[Page 41: Gps Software](#)

UltraMobilePC GPS Software The included software may be used with the built-in GPS system. Choose Tools | GPS | Configure GPS Receiver..., select COM2, and click OK. Select Tools | GPS | Start GPS Tracking. The GPS Sensor will acquire information for these fields once a satellite fix is acquired.

[Page 42 UltraMobilePC...](#)

[Page 43: Appendix](#)

Appendix Optional Accessories Optional Connections Glossary Declarations and Safety Statements UltraMobilePC Information 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 44: Optional Accessories](#)

Optional Accessories These items, if desired, come as optional items to complement your UltraMobilePC. Foldable USB Keyboard Mini- USB Port Slide latch to open Slide latch on the top to lock the keyboard in the open position Extend: Pull the USB connectors apart (not fully) to extend the mini-USB cable...

[Page 45](#) PortBar Notes: (1) AC power adapter must be used. Cannot be used when UltraMobilePC is in battery mode. (2) Recommend using two AC power adapters (one on the UltraMo- bilePC and one on the PortBar) when using all ports on UltraMobilePC and PortBar. (3) Disables UltraMobilePC's LAN port when connected.

[Page 46](#) PortBar (Cont.) Plug the PortBar to the expansion port Plug the UltraMobilePC's power adapter into this power port so that you can easily free the UltraMobilePC from all your peripherals with just one connector WARNING! You must plug the power adapter into the UltraMobilePC or PortBar when you use PortBar.

[Page 47: More Optional Accessories](#)

More Optional Accessories These items, if desired, come as optional items to complement your UltraMobilePC. 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.

[Page 48: Optional Connections](#)

UltraMobilePC Optional Connections These items, if desired, may be purchased from third-parties. Printer Connection One or more USB printers can be simultaneously used on any USB port or USB hub.

[Page 49](#) Bluetooth Mouse Setup (optional) This process can be used to add most Bluetooth devices in Windows operating system. 1 Press [WIRELESS] switch repeatedly until Bluetooth ON or WLAN & Bluetooth ON is shown 2 Select Add a Bluetooth Device on the taskbar menu 2c...

[Page 50](#) Bluetooth Mouse Setup (optional) cont. 4 Click Next when the Bluetooth mouse is ready 6 Select "Don't use a passkey" and click Next 8 Click Finish when adding is complete Note: "RESET" may be necessary after changing batteries. Repeat steps if necessary. 5...

[Page 51: Operating System And Software](#)

Operating System and Software This Notebook PC may offer (depending on territory) its customers the choice of a pre-installed Microsoft Windows operating system. The choices and languages will depend on the territory. The levels of hardware and software support may vary depending on the installed operating system. The stability and compatibility of other operating systems cannot be guaranteed.

[Page 52: Glossary](#)

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) NOTE: This table is for general reference only and should not be used as a source of the American Wire Gauge

standard as this table may not be current or complete.

[Page 53: Hibernation Mode](#)

UltraMobilePC Byte (Binary Term) One byte is a group of eight contiguous bits. A byte is used to represent a single alphanumeric character, punctuation mark, or other symbol. Clock Throttling Chipset function which allows the processor's clock to be stopped and started at a known duty cycle.

[Page 54: Standby Mode](#)

UltraMobilePC RAM (Random Access Memory) RAM (usually just called memory) is the place in a computer where the operating system, application programs, and data in current use are temporarily kept so that they can be quickly reached by the computer's processor instead of having to read from and write to slower storage such as the hard disk or optical disc.

[Page 55: Federal Communications Commission Statement](#)

Certifications 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 56: 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 57: Ce Mark Warning](#)

CE Mark Warning This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures. IC Radiation Exposure Statement for Canada This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.

[Page 58: Wireless Operation Channel For Different Domains](#)

Wireless Operation Channel for Different Domains N. America 2.412-2.462 GHz Japan 2.412-2.484 GHz Europe ETSI 2.412-2.472 GHz France Restricted Wireless Frequency Bands Some areas of France have a restricted frequency band. The worst case maximum authorized power indoors are: • 10mW for the entire 2.4 GHz band (2400 MHz-2483.5 MHz) •...

[Page 59: UI Safety Notices](#)

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

[Page 60](#) UltraMobilePC 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.

This manual is also suitable for:

[90ngva11m18a5611400tR2h](#)