

Prestigio Nobile1580W

User's Manual

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FCC Statement (Federal Communications Commission)

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the service representative or an experienced radio/TV technician for help.

Warning

Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the manufacturer for compliance with the above standards could void your authority to operate the equipment.

IMPORTANT SAFETY INSTRUCTIONS

Follow basic safety precautions, including those listed below, to reduce the risk of fire, electric shock, and injury to persons when using any electrical equipment:

1. Do not use this product near water, for example near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
2. Avoid using this equipment with a telephone line (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning.
3. Do not use the telephone to report a gas leak in the vicinity of the leak.
4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
5. This product is intended to be supplied by a Listed Power Unit (DC Output 20V, 4.5A mini-mum AC/DC Adapter).

CAUTION

Always disconnect all telephone lines from the wall outlet before servicing or disassembling this equipment.

TO REDUCE THE RISK OF FIRE, USE ONLY NO. 26 AWG OR LARGER,
TELECOMMUNICATION LINE CORD

This Computer's Optical Device is a Laser Class I Product

Instructions for Care and Operation

The notebook computer is quite rugged, but it can be damaged. To prevent this, follow these suggestions:

1. Don't drop it, or expose it to shock. If the computer falls, the case and the components could be damaged.
Do not expose the computer to any shock or vibration.
Do not place it on an unstable surface.
Do not place anything heavy on the computer.
2. Keep it dry, and don't overheat it. Keep the computer and power supply away from any kind of heating element. This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.
Do not expose it to excessive heat or direct sunlight.
Do not leave it in a place where foreign matter or moisture may affect the system.
Don't use or store the computer in a humid environment.
Do not place the computer on any surface that will block the Vents/Fan Intakes.
3. Avoid interference. Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
4. Follow the proper working procedures for the computer. Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost if the battery is depleted.
Do not turn off the power until you properly shut down all programs.
Do not turn off any peripheral devices when the computer is on.
Do not disassemble the computer by yourself.
Perform routine maintenance on your computer.
5. Take care when using peripheral devices.
Use only approved brands of peripherals.
Unplug the power cord before attaching peripheral devices.

Power Safety

Power Safety Warning

Before you undertake any upgrade procedures, make sure that you have turned off the power, and disconnected all peripherals and cables (including telephone lines). It is advisable to also remove your battery in order to prevent accidentally turning the machine on.

The computer has specific power requirements:

- Only use a power adapter approved for use with this computer.
- Your AC/DC adapter may be designed for international travel but it still requires a steady, uninterrupted power supply. If you are unsure of your local power specifications, consult your service representative or local power company.
- The power adapter may have either a 2-prong or a 3-prong grounded plug. The third prong is an important safety feature; do not defeat its purpose. If you do not have access to a compatible outlet, have a qualified electrician install one.
- When you want to unplug the power cord, be sure to disconnect it by the plug head, not by its wire.
- Make sure the socket and any extension cord(s) you use can support the total current load of all the connected devices.
- Before cleaning the computer, make sure it is disconnected from any external power supplies (i.e. AC/DC adapter or car adapter).

Do not plug in the power cord if you are wet.
Do not use the power cord if it is broken.
Do not place heavy objects on the power cord.

Battery Precautions

- Only use batteries designed for this computer. The wrong battery type may explode, leak or damage the computer.
- Do not remove any batteries from the computer while it is powered on.
- Do not continue to use a battery that has been dropped, or that appears damaged (e.g. bent or twisted) in any way. Even if the computer continues to work with a damaged battery in place, it may cause circuit damage, which may possibly result in fire.
- Recharge the batteries using the notebook's system. Incorrect recharging may make the battery explode.
- Do not try to repair a battery pack. Refer any battery pack repair or replacement to your service representative or qualified service personnel.
- Keep children away from, and promptly dispose of a damaged battery. Always dispose of batteries carefully. Batteries may explode or leak if exposed to fire, or improperly handled or discarded.
- Keep the battery away from metal appliances.
- Affix tape to the battery contacts before disposing of the battery.
- Do not touch the battery contacts with your hands or metal objects.

Battery Disposal & Caution

The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used battery according to the manufacturer's instructions.

Cleaning

Do not apply cleaner directly to the computer; use a soft clean cloth.

Do not use volatile (petroleum distillates) or abrasive cleaners on any part of the computer.

Servicing

Do not attempt to service the computer yourself. Doing so may violate your warranty and expose you and the computer to electric shock. Refer all servicing to authorized service personnel. Unplug the computer from the power supply. Then refer servicing to qualified service personnel under any of the following conditions:

- When the power cord or AC/DC adapter is damaged or frayed.
- If the computer has been exposed to rain or other liquids.
- If the computer does not work normally when you follow the operating instructions.
- If the computer has been dropped or damaged (do not touch the poisonous liquid if the LCD panel breaks).
- If there is an unusual odor, heat or smoke coming from your computer.

Removal Warning

When removing any cover(s) and screw(s) for the purposes of device upgrade, remember to replace the cover(s) and screw(s) before turning the computer on.

Travel Considerations

Packing

As you get ready for your trip, run through this list to make sure the system is ready to go:

1. Check that the battery pack and any spares are fully charged.
2. Power off the computer and peripherals.
3. Close the display panel and make sure it's latched.
4. Disconnect the AC/DC adapter and cables. Stow them in the carrying bag.
5. The AC/DC adapter uses voltages from 100 to 240 volts so you won't need a second voltage adapter. However, check with your travel agent to see if you need any socket adapters.
6. Put the notebook in its carrying bag and secure it with the bag's straps.
7. If you're taking any peripherals (e.g. a printer, mouse or digital camera), pack them and those devices' adapters and/or cables.
8. Anticipate customs - Some jurisdictions may have import restrictions or require proof of ownership for both hardware and software. Make sure your "papers" are handy.

Power Off Before Traveling

Make sure that your notebook is completely powered off before putting it into a travel bag (or any such container). Putting a notebook which is powered on in a travel bag may cause the Vents/Fan Intakes to be blocked. To prevent your computer from overheating make sure nothing blocks the Vent/Fan Intakes while the computer is in use.

On the Road

In addition to the general safety and maintenance suggestions in this preface, and Chapter "Troubleshooting," keep these points in mind:

Hand-carry the notebook -

For security, don't let it out of your sight. In some areas, computer theft is very common. Don't check it with "normal" luggage. Baggage handlers may not be sufficiently careful. Avoid knocking the computer against hard objects.

Beware of Electromagnetic fields -

Devices such as metal detectors & X-ray machines can damage the computer, hard disk, floppy disks, and other media. They may also destroy any stored data - Pass your computer and disks around the devices. Ask security officials to hand-inspect them (you may be asked to turn it on). Note: Some airports also scan luggage with these devices.

Fly safely -

Most airlines have regulations about the use of computers and other electronic devices in flight. These restrictions are for your safety, follow them. If you stow the notebook in an overhead compartment, make sure it's secure. Contents may shift and/or fall out when the compartment is opened.

Get power where you can -

If an electrical outlet is available, use the AC/DC adapter and keep your battery (ies) charged.

Keep it dry -

If you move quickly from a cold to a warm location, water vapor can condense inside the computer. Wait a few minutes before turning it on so that any moisture can evaporate.

Developing Good Work Habits

Developing good work habits is important if you need to work in front of the computer for long periods of time. Improper work habits can result in discomfort or serious injury from repetitive strain to your hands, wrists or other joints. The following are some tips to reduce the strain:

- Adjust the height of the chair and/or desk so that the keyboard is at or slightly below the level of your elbow. Keep your forearms, wrists, and hands in a relaxed position.
- Your knees should be slightly higher than your hips. Place your feet flat on the floor or on a footrest if necessary.
- Use a chair with a back and adjust it to support your lower back comfortably.
- Sit straight so that your knees, hips and elbows form approximately 90-degree angles when you are working.
- Take periodic breaks if you are using the computer for long periods of time.

Remember to:

- Alter your posture frequently.
- Stretch and exercise your body several times a day.
- Take periodic breaks when you work at the computer for long periods of time. Frequent and short breaks are better than fewer and longer breaks.

Lighting

Proper lighting and comfortable display viewing angle can reduce eye strain and muscle fatigue in your neck and shoulders.

- Position the display to avoid glare or reflections from overhead lighting or outside sources of light.
- Keep the display screen clean and set the brightness and contrast to levels that allow you to see the screen clearly.
- Position the display directly in front of you at a comfortable viewing distance.
- Adjust the display-viewing angle to find the best position.

Quick Start Guide

System Startup

1. Remove all packing materials.
2. Place the computer on a stable surface.
3. Securely attach any peripherals you want to use with the notebook (e.g. keyboard and mouse) to their ports.
4. Attach the AC/DC adapter to the DC-In jack at the rear of the computer, then plug the AC power cord into an outlet, and connect the AC power cord to the AC/DC adapter.
5. Move the LCD latches (one Model B design does not have latches) at the front of the computer outwards towards the sides of the computer, and hold them in place to release the top cover.
6. Raise the lid/LCD to a comfortable viewing angle, and press the power button (make sure the Audio "DJ" player is turned off) to turn the computer "on".
7. Adjust the LCD panel to a comfortable viewing angle.
8. The LED indicators show the power and battery status of the computer, give notification of e-mail received, and display information on the power status of the PC Camera, Bluetooth and Wireless LAN modules.

Shutdown

Please note that you should always shut your computer down by choosing the Turn Off Computer command from the Start menu in Windows. This will help prevent hard disk or system problems.

Front View with LCD Panel Open



1. Optional Built-In PC Camera
2. LCD
3. Ap-Key Buttons
4. Power Button
5. Keyboard
6. TouchPad and Buttons
7. Audio "DJ" Controls
8. Built-In Microphone
9. Audio "DJ" LED Display Panel (Including LED Indicators)

Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices (e.g. WLAN or Bluetooth) aboard aircraft is usually prohibited. Make sure any wireless modules are OFF if you are using the computer aboard aircraft. Use the appropriate function key combination to toggle power to any wireless modules, and check the LED indicators to see if any modules are powered on or not.

Audio "DJ" & Power Button

Make sure that the Audio "DJ" player is off before pressing the power button to turn the computer on.

LED Indicators

The LED indicators on the computer display helpful information about the current status of the computer.

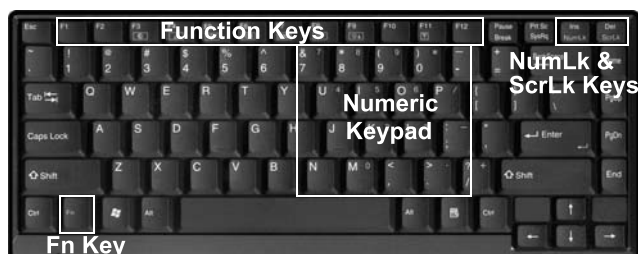
Icon	Color	Description
	Green	The Computer is On
	Blinking Green	The Computer is In Standby Mode
	Green	The AC/DC Adapter is Plugged In
	Green	Number Lock is Activated (to activate press Fn & NumLk)
	Green	Caps Lock is Activated
	Green	Scroll Lock is Activated (to activate press Fn & ScrLk)
	Orange	The Battery is Charging
	Blinking Orange	The Battery has Reached Critically Low Power Status
	Green	The Battery is Fully Charged
	Second Battery Indicator (Colors Displayed as Above)	
	Green	Hard Disk Activity
	Green	The PC Camera Module is Powered On
	Green	The Bluetooth Module is Powered On
	Green	The WLAN Module is Powered On
	Blinking Amber	New Mail Has Arrived

Ap-Key Buttons & Keyboard

These buttons give instant access to the default Inter-net browser and e-mail program, and to a user-defined application, with one quick button press. To use the "user-defined application Ap-Key Button," you must install the driver.

Ap-Key	Function
	Activate the user specified application e.g. Microsoft Word or Excel
	Activate the Default Internet Program
	Activate the Default E-Mail Browser

The keyboard has an embedded numerical keypad for easy numeric data input, and features Function Keys to allow you to change operational features instantly.



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Other Keyboards

If your keyboard is damaged or you just want to make a change, you can use any standard USB keyboard. The system will detect and enable it automatically. However special functions/Ap-keys unique to the system's regular keyboard may not work.

Function Keys

To use the function keys, press and hold the Fn key, then press the appropriate function key (F3 - F12 etc.).

Key	Function
Fn Function	Fn Function Key
Fn + F3	Mute Toggle
Fn + F4	Sleep Toggle
Fn + F5	Decrease Audio Volume
Fn + F6	Increase Audio Volume
Fn + F7	Display Toggle
Fn + F8	Decrease LCD Brightness
Fn + F9	Increase LCD Brightness
Fn + F10	PC Camera Module Power Toggle
Fn + F11	Wireless LAN Module Power Toggle
Fn + F12	Bluetooth Module Power Toggle
Fn + NumLk	Number Lock Toggle
Fn + ScrLk	Scroll Lock Toggle

Special Characters

Some software applications allow the number-keys to be used with Alt to produce special characters. These special characters can only be produced by using the numeric keypad. Regular number keys (in the upper row of the keyboard) will not work. Make sure that NumLk is on.

Front View (Audio “DJ”)



1. Audio “DJ” Power Button
2. Volume Down
3. Volume Up
4. Repeat
5. LED Display
6. Previous Track
7. Next Track
8. Play/Pause
9. Stop (Press Twice To Eject The CD/DVD)
10. Repeat Mode Indicator
11. Track Indicator
12. Time Indicator
13. Disc Indicator

Audio “DJ” MP3 Track Limit

There is a track limit of 256 tracks on any MP3 CD/DVD. This means that only the first 256 tracks may be played on any MP3 DC/DVD.

Audio “DJ” & Power Button

Make sure that the Audio “DJ” player is off before pressing the power button to turn the computer on.

Audio “DJ” CD Player

The built-in standalone audio CD player gives direct hardware control for audio CDs/DVDs when the com-puter is shut down, but has a working power source.

1. Make sure that the computer is shut down (i.e. the operating system is not running) but you have a working power source (either battery or AC Power).
2. Press the Audio “DJ” power button.
3. Press the open button on your CD/DVD device (or press the stop button (9) twice) and carefully place an audio CD onto the disc tray with label-side facing up (DVD drives will also play audio CDs).
4. Gently push the CD/DVD tray in until its lock “clicks” and you are ready to start.
5. The Disc Indicator will flash while data is being accessed.
6. The LED will display the number of tracks.
7. Press the play/pause button to start the CD/DVD.
8. Control the CD/DVD tracking and volume from the control panel.
9. Use the stop button to stop the disc, or press it twice to eject the disk.

10. Press the power button again to turn the player off.

TV Tuner Option

If you have included the optional TV Tuner in your purchase configuration, you can use the supplied remote control unit to control the Audio "DJ".

Disk Eject Warning

Don't try to eject a CD/DVD while the system is accessing it. This may cause the system to "crash". Stop the disk first then eject it, or press the stop button twice.

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Rear View



1. Vent/Fan Intake/Outlet
2. S/PDIF-Out Jack
3. Line-In Jack
4. 2 * USB 2.0 Ports
5. DVI-Out Port
6. CATV Jack (Enabled With TV Tuner Only)
7. RJ-11 Phone Jack
8. RJ-45 LAN Jack
9. S-Video-Out Jack
10. DC-In Jack
11. Serial Port

Overheating

To prevent your computer from overheating make sure nothing blocks the Vent/Fan Intake/Outlet while the computer is in use.

Right View



1. Headphone-Out Jack
2. Microphone-In Jack
3. 4-in-1 Card Reader
4. PC Card Slot
5. Mini-IEEE 1394a Port
6. 2 x USB 2.0 Ports

7. Security Lock Slot

8. Speaker

Mini-IEEE 1394a Port

Both Mini-IEEE 1394a ports only support SELF POWERED IEEE 1394a devices.

4-in-1 Card Reader

The card reader allows you to use the most popular digital storage card formats: MMC (MultiMedia Card) / SD (Secure Digital) / MS (Memory Stick) / MS Pro (Memory Stick Pro)

Left View



1. Speaker

2. Optional Device Drive Bay (for CD/DVD Device, or 2nd PATA Hard Disk, or 2nd Battery)

CD/DVD Emergency Eject

If you need to manually eject a CD/DVD (e.g. due to an unexpected power interruption) you may push the end of a straightened paper clip into the emergency eject hole. Do not use a sharpened pencil or similar object that may break and become lodged in the hole.

Media Warning

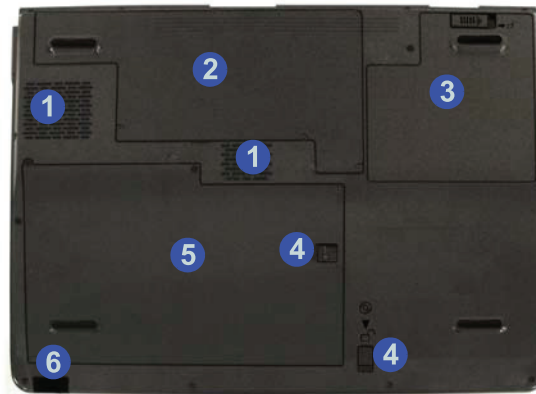
Don't try to remove a floppy disk/CD/DVD while the system is accessing it. This may cause the system to "crash".

Changing DVD Regional Codes

Go to the Control Panel and double-click System > Hardware (tab), click Device Manager, then click the + next to DVD/CDROM drives. Double-click on the DVD-ROM device to bring up the Properties dialogue box, and select the DVD Region (tab) to bring up the control panel to allow you to adjust the regional code.

DVD region detection is device dependent, not OS-dependent. You can select your module's region code 5 times. The fifth selection is permanent. This cannot be altered even if you change your operating system or you use the module in another computer.

Bottom View



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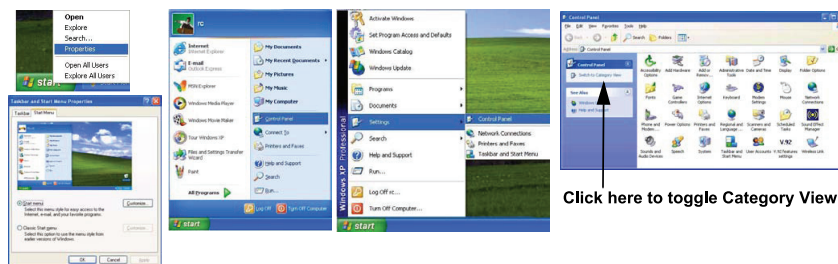
1. Vent/Fan Intake/Outlet
2. Video Card Cover (Model A)
3. Battery
4. Optical Device Release Latches
5. HDD / RAM Bay Cover
6. Infrared & Consumer Infrared Transceiver

Battery Information

Always completely discharge, and then fully charge, a new battery before using it. Completely discharge and charge the battery at least once every 30 days or after about 20 partial discharges.

Windows XP Start Menu & Control Panel

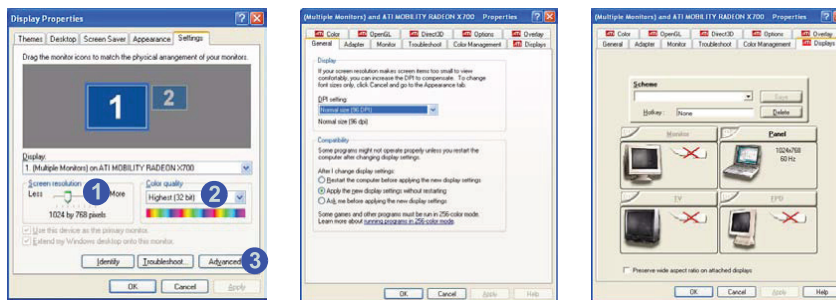
Most of the control panels, utilities and programs within Windows XP (and most other Windows versions) are accessed from the Start menu. When you install programs and utilities they will be installed on your hard disk drive, and a shortcut will usually be placed in the Start menu and/or the desktop. You can customize the look of the Start menu by right-clicking the Start menu and selecting Properties from the menu.



In many instances throughout this manual you will see an instruction to open the Control Panel. The Control Panel is accessed from the Start menu, and it allows you to configure the settings for most of the key features in Windows (e.g. power, video, network, audio etc.). Windows XP provides basic controls for many of the features, however many new controls are added (or existing ones are enhanced) when you install the drivers. To see all controls it may be necessary to toggle off Category View.

Video Features

To access Display Properties in Windows:



1. Click Start, point to Settings and click Control Panel (or just click Control Panel).
2. Double-click Display (icon) - In the Appearance and Themes category.
3. Click Settings (tab) in the Display Properties dialog box.
4. Move the slider to the preferred setting in Screen area/resolution (1).
5. Click the arrow, and scroll to the preferred setting In Colors/Color quality (2).
6. You can also access Display Properties by right-clicking the desktop and scrolling down and clicking Properties. Click Settings (tab) and adjust as above.
7. Open the Display Properties control panel, and click Advanced (button) (3) to bring up the Advanced properties tabs. Clicking through these tabs allows you to make any video adjustments you require.

Display Devices & Options

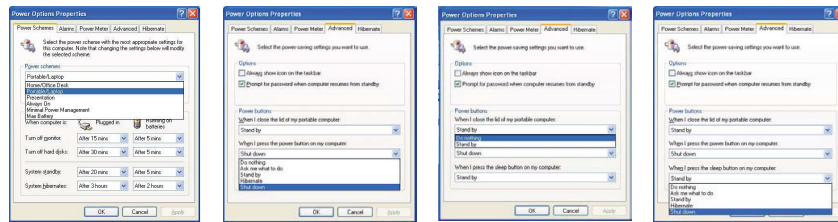
Besides the built-in LCD, you can also use an external VGA monitor (CRT)/external Flat Panel Display or TV as your display device. A VGA monitor/Flat Panel Display connects to the DVI-Out port, a TV to the S-Video-Out jack. The following display modes are available:

Mode	Description
Single	One of the connected displays is used as the display device
Multiple - Clone Mode	Both connected displays output the same view
Multiple - Extended Desktop Mode	Both connected displays are treated as separate devices, and act as a virtual desktop

Power Management Features

The Power Options control panel icon in Windows allows you to configure power management features for your computer. You may conserve power through individual components such as the monitor or hard disk (by means of Power Schemes), or you may use either Standby or Hibernate mode to conserve power throughout the system. Pay attention to the instructions on battery care in “Battery Information”.

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The computer's power button, sleep button (Fn + F4 key combination), and lid (closing the lid) may be set to send the computer in to either Standby or Hibernate mode.

Power Saving and Performance

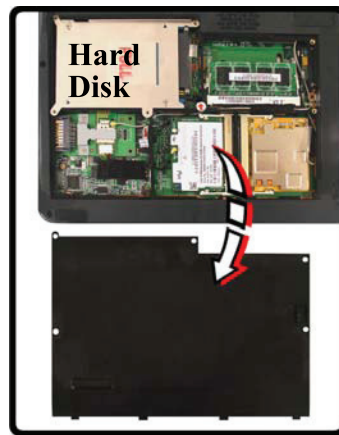
Power Schemes may have an affect on your computer performance.

Features & Components Overview

Hard Disk Drive

The hard disk drive is used to store your data in the computer. The hard disk can be taken out to accommodate other 2.5" serial (SATA) hard disk drives with a height of 9.5 mm.

The hard disk is accessible from the bottom of your computer as seen below.



Power Safety

Before attempting to access any of the internal components of your computer please ensure that the machine is not connected to the AC power, and that the machine is turned off. Also ensure that all peripheral cables, including phone lines, are disconnected from the computer.

Optical (CD/DVD) Device

There is a bay for a 5.25" optical (CD/DVD) device (12.7mm height). The actual device will depend on the module you purchased. The optical device is usually labeled "Drive D:."

Loading Discs

To insert a CD/DVD, press the open button (1) and carefully place a CD/DVD onto the disc tray with label-side facing up (use just enough force for the disc to click onto the tray's spindle). Gently push the CD/DVD tray in until its lock "clicks" and you are ready to start. The busy indicator (2) will light up while data is being accessed, or while an audio/video CD, or DVD, is playing. If power is unexpectedly interrupted, insert an object such as a straightened paper clip into the emergency eject hole (3) to open the tray.



Sound Volume Adjustment

How high the sound volume can be set depends on the setting of the volume control within Windows. Click the Volume icon on the taskbar to check the setting.

Handling CDs or DVDs

Proper handling of your CDs/DVDs will prevent them from being damaged. Please follow the advice below to make sure that the data stored on your CDs/DVDs can be accessed.

Note the following:

- Hold the CD or DVD by the edges; do not touch the surface of the disc
- Use a clean, soft, dry cloth to remove dust or fingerprints
- Do not write on the surface with a pen
- Do not attach paper or other materials to the surface of the disc
- Do not store or place the CD or DVD in high-temperature areas
- Do not use benzene, thinner, or other cleaners to clean the CD or DVD
- Do not bend the CD or DVD
- Do not drop or subject the CD or DVD to shock

CD Emergency Eject

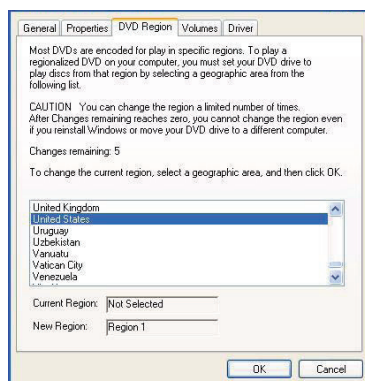
If you need to manually eject a CD (e.g. due to an unexpected power interruption) you may push the end of a straightened paper clip into the emergency eject hole. However please do NOT use a sharpened pencil or similar object that may break and become lodged in the hole.

Disk Eject Warning

Don't try to remove a CD/DVD while the system is accessing it. This may cause the system to "crash".

DVD Regional Codes

Region	Geographical Location
1	USA, Canada
2	Western Europe, Japan, South Africa, Middle East & Egypt
3	South-East Asia, Taiwan, South Korea, the Philippines, Indonesia, Hong Kong
4	South & Central America, Mexico, Australia, New Zealand
5	N Korea, Russia, Eastern Europe, India & Most of Africa
6	China



4-in-1 Card Reader

The card reader allows you to use some of the latest digital storage cards. Push the card into the slot and it will appear as a removable device, and can be accessed in the same way as your hard disk (s). Make sure you install the PCM-CIA/Card Reader Card driver.

- MMC (MultiMedia Card)
- SD (Secure Digital)
- MS (Memory Stick)
- MS Pro (Memory Stick Pro)

Card Reader Cover

Make sure you keep the cover in the card reader when not in use. This will help prevent foreign objects and/or dust getting in to the card reader.



1. Card Reader

PC Card Slot

The computer is equipped with a PCMCIA 3.3V/5V slot for one type II PC-MCIA CardBus PC Card Slot. Make sure you install the PCMCIA/Card Reader Card driver

Inserting and Removing PC Cards

- Align the PC Card with the slot and push it in until it locks into place.
- To remove a PC Card, simply press the eject button (1) next to the slot.



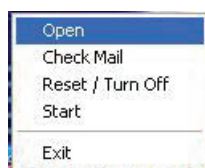
PC Card Slot Cover

Make sure you keep the cover in the PC Card slot when not in use. This will help prevent foreign objects and/or dust getting in to the PC Card Slot.

Auto Mail Checker

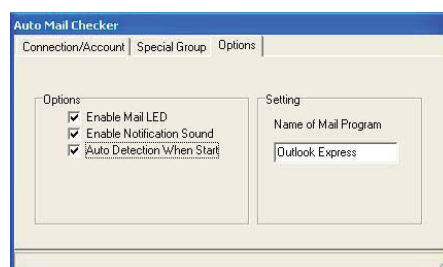
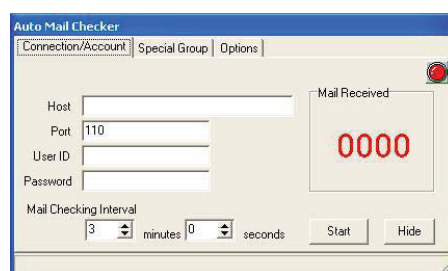
After you have installed the driver for the Auto Mail Checker program you may then configure it to give you notification when you receive new mail. You must be online to receive this notification (note that this program only supports the POP3 protocol), and your default mail program does not need to be open.

The Auto Mail Checker appears as an icon  in the taskbar (if you do not see the icon in the taskbar go to Start > Programs/All Programs > Auto Mail Checker > Auto Mail Checker). Right clicking on the icon will bring up the following options menu. If you have not input your mail account data, then you will be prompted to do so.



Select Open to bring up the control panel for the program.

You may then configure the options for your mail server, name, password, program and method(s) of notification.



Note

Check with your Internet Service Provider, network administrator or Mail Service provider for details on what to put on these pages.

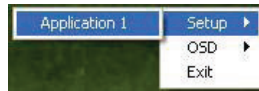
Application Ap-Key

Application.exe

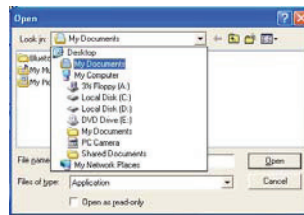
You will need to locate the actual application executable (.exe) file, not just the shortcut. To find the application right-click its shortcut on the desktop and click Properties. Click the shortcut (tab) and see where the executable file is located by clicking the Find Target (button).

The Ap-key buttons give instant access to the default Internet browser and e-mail program, and to a user-defined application, with one quick button press. To configure a program to open when the application Ap-key is pressed (Windows Media Player is the default program), follow the instructions below.

1. Right click the Ap-Key driver icon  in the taskbar.
2. Select Setup from the menu, scroll to Application 1 and press Enter.



3. An Open dialog box will appear on the screen.



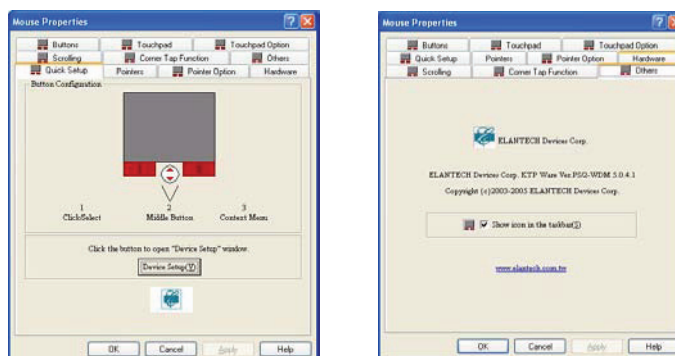
4. Browse to the directory where the desired application.exe (see the sidebar) program exists.
5. Double-Click on the program file or choose Open.

TouchPad and Buttons/Mouse

The TouchPad is an alternative to the mouse; however, you can also add a mouse to your computer through one of the USB ports. The TouchPad buttons function in much the same way as a two-button mouse. The central button may be configured to function as you require.

Configuring the TouchPad and Buttons

Once you have installed the TouchPad driver you can configure the functions by double-clicking the TouchPad driver icon  on the taskbar, or by going to the Mouse control panel in Windows (Start menu and point to Settings and click Control Panel, then double-click the Mouse icon). In Windows XP the Mouse control panel is in the Printers and Other Hardware Category.



Mouse Driver

If you are using an external mouse your operating system may be able to auto-configure your mouse during its installation or only enable its basic functions. Be sure to check the device's user documentation for details.

Audio Features

You can configure the audio options on your computer from the Sounds and Audio Devices Windows control panel, or from the Realtek HD Audio Manager/Realtek HD Sound Effect Manager icon  in the taskbar/control panel (this will bring up the Realtek Audio Configuration menus). The volume may also be adjusted by means of the Fn + F5/F6 key combination.



Sound Volume Adjustment

How high the sound volume can be set depends on the setting of the volume control within Windows (and the volume control function keys). Click the Volume icon on the taskbar to check the setting.

Adding a Printer

The most commonly used peripheral is a printer. The following conventions will help you to add a printer, however it is always best to refer to the printer manual for specific instructions and configuration options.

USB Printer

Most current printers have a USB interface connection. You may use any one of the ports to connect the printer.

Install Instructions:

1. Set up the printer according to its instructions (unpacking, paper tray, toner/ ink cartridge etc.).
2. Turn ON the computer.
3. Turn ON the printer.
4. Connect the printer's USB cable to one of the USB ports on the computer.
5. Windows will identify the printer and either load one of its own drivers or ask you to supply one. Follow the on-screen instructions.

Parallel Printer

After setting up the printer attach the parallel cable to the printer.

Connect the printer's parallel cable to the Parallel to USB converter, and then plug the converter into the USB port.

Turn ON the printer, then turn ON the computer.

Windows will identify the printer and either load one of its own drivers or ask you to supply one. Follow the on-screen instructions.



Power Management Overview

Advanced Configuration and Power Interface

The ACPI interface provides the computer with enhanced power saving techniques and gives the operating system (OS) direct control over the power and thermal states of devices and processors. For example, it enables the OS to set devices into low-power states based on user settings and information from applications. ACPI is fully supported in Windows XP/Windows XP MCE.

ENG

OS Note

Power management functions will vary slightly depending on your operating system. For more information it is best to refer to the user's manual of your operating system.

Note: All pictures used on the following pages are from the Windows XP OS.

The Power Sources

The computer can be powered by either an AC/DC adapter or a battery pack.

AC/DC Adapter

Use only the AC/DC adapter that comes with your computer. The wrong type of AC/DC adapter will damage the computer and its components.

1. Attach the AC/DC adapter to the DC-in jack at the rear of the computer.
2. Plug the AC power cord into an outlet, and then connect the AC power cord to the AC/DC adapter (see sidebar if you are using the optional Port Replicator).
3. Raise the lid/LCD to a comfortable viewing angle.
4. Press the power button to turn "On".

Battery

The battery allows you to use your computer while you are on the road or when an electrical outlet is unavailable. Battery life varies depending on the applications and the configuration you're using. To increase battery life, let the battery discharge completely before recharging.

We recommend that you do not remove the battery.

Turning on the Computer

Now you are ready to begin using your computer. To turn it on simply press the power button on the front panel. When the computer is on, you can use the power button as a Standby/Hibernate/Shutdown hot-key button when it is pressed for less than 4 seconds (pressing and holding the power button for longer than this will shut the computer down). Use Power Options in the Windows control panel to configure this feature.

Shutdown

Note that you should always shut your computer down by choosing the Turn Off Computer command from the Start menu in Windows. This will help prevent hard disk or system problems.



Forced Off

If the system “hangs”, and the Ctrl + Alt + Del key combination doesn’t work, press the power button for 4 seconds, or longer, to force the system to turn it off.

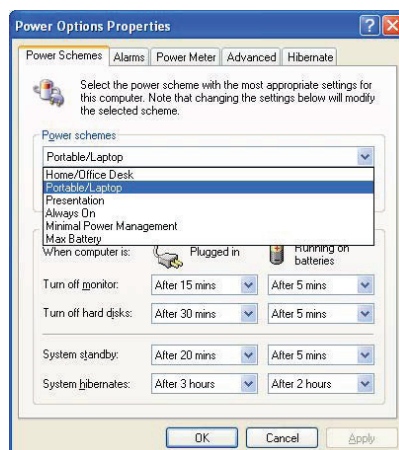
ENG

Power Button as Standby or Hibernate Button

If you are using a fully ACPI-compliant OS, (such as Windows XP) you can use the OS’s “Power Options” control panel to set the power button to send the system into Standby or Hibernate mode (see your OS’s documentation).

Power Schemes

You can set your computer to conserve power through individual components by means of Power Schemes. You can also adjust the settings for each scheme to set the monitor to turn off after a specified time, and the computer’s hard disk motor to turn off if the hard disk drive has not been accessed for a specified period of time (if the system reads or writes data, the hard disk motor will be turned back on). The schemes may also be set to set a specified time for the system to enter Standby or Hibernate modes.



Resuming Operation

The system can resume from Monitor or Hard Disk Standby by pressing a key on the keyboard, the Sleep/Resume key combination (Fn + F4), or power button.

Each Windows Power Scheme will also adjust the processor performance of your machine in order to save power. This is worth bearing in mind if you are experiencing any reduced performance (especially under DC/battery power). Choose the Home/Office Desk scheme for maximum performance when the computer is powered from an AC power source. Choose the Max Battery scheme (bear in mind that this scheme may slow down the overall performance of the computer in order to save power) for maximum power saving when the computer is battery (DC power) powered. Windows will use Portable/Laptop as the default scheme.

System Power Options

You can use the system power options to stop the computer's operation and restart where you left off. This system features Standby and Hibernate sleep mode levels (Hibernate mode will need to be enabled by clicking the option in the Hibernate tab in the Power Options control panel).

ENG

Hibernate Mode vs. Shutdown

Hibernate mode and Shutdown are the same in that the system is off and you need to press the power button to turn it on. Their main difference is:

When you come back from hibernation, you can return to where you last left off (what was on your desktop) without reopening the application(s) and file(s) you last used.

You can use either method depending on your needs.

Standby Mode vs. Hibernate Mode

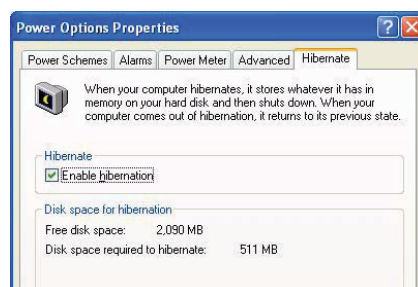
If you want to stay away from your work for just a while, you can put the system on standby instead of in hibernation. It takes a longer time to wake up the system from Hibernate mode than from Standby mode.

Standby

Standby saves the least amount of power, but takes the shortest time to return to full operation. During Standby the hard disk is turned off, and the CPU is made to idle at its slowest speed. All open applications are retained in memory. When you are not using your computer for a certain length of time, which you specify in the operating system, it will enter Standby mode to save power.

Hibernate

Hibernate uses no power and saves all of your information on a part of the HDD before it turns the system off. Although it saves the most power it takes the longest time to return to full operation. You can set your computer to automatically enter Hibernate mode when the battery power is almost depleted. You will need to enable Hibernate mode from the Hibernate tab in the Power Options control panel. The system will resume from Hibernate mode by pressing the power button.



System Resume

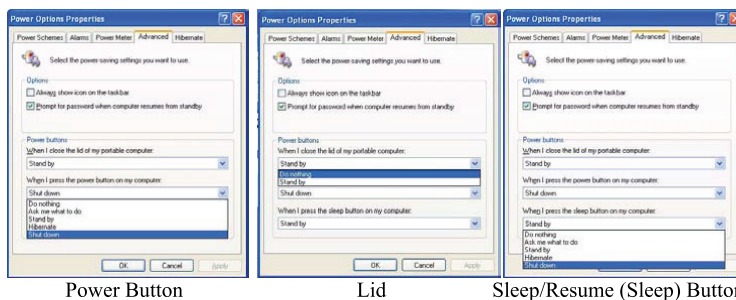
The system can resume from Standby mode by:

- Pressing the power button
- Pressing the Sleep/Resume key combination

- An incoming call received on the modem (if enabled)
- Network card (Wake On LAN) activity if enabled

Configuring the Power Button

The power button may be set to send the computer in to either Standby or Hibernate mode. In Standby mode, the LED will blink green. In Hibernate mode the LED will be off. If you are in a power saving mode set to save power through individual components (e.g. hard disk, monitor), the LED will remain green.



Sleep Button

You may also configure the Sleep/Resume key combination (Fn + F4) from the menu. In Windows this is referred to as the Sleep button.

Battery Information

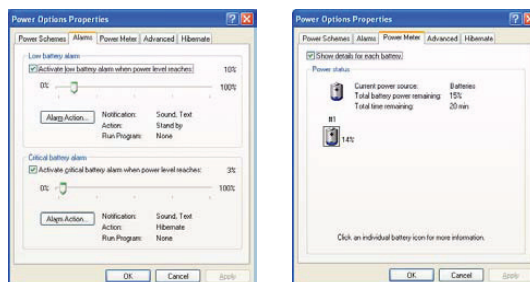
Please follow these simple guidelines to get the best use out of your battery.

New Battery

Always completely discharge, and then fully charge, a new battery.

Battery Life

Your computer's battery life is dependent upon many factors, including the programs you are running, and peripheral devices attached. Power Options (you may set low battery Alarms and actions, and check the Power Meter from the Power Options control panel), and settings in the OS will help pro-long the battery life if configured appropriately.



Battery life may be shortened through improper maintenance. To optimize the life and improve its performance, fully discharge and recharge the battery at least once every 30 days.
We recommend that you do not remove the battery yourself.

Low Battery Warning

When the battery is critically low, immediately connect the AC/DC adapter to the computer or save your work, otherwise, the unsaved data will be lost when the power is depleted.

Recharging the Battery with the AC/DC Adapter

The battery pack automatically recharges when the AC/DC adapter is attached and plugged into an electrical outlet. If the computer is powered on, and in use, it will take several hours to fully recharge the battery. When the computer is turned off but plugged into an electrical outlet, battery charge time is less.

Conserving Battery Power

To conserve battery power:

Lower the brightness level of the LCD display. The system will decrease LCD brightness slightly to save power when it is not powered by the AC/DC adapter.

Close modem or communication applications when they are not being used.

Remove any unused PC Cards from the computer (PC Cards quickly use up battery power even if the system enters sleep mode).

Disconnect any unnecessary external devices.

Proper handling of the Battery Pack

- DO NOT disassemble the battery pack under any circumstances
- DO NOT expose the battery to fire or high temperatures, it may explode
- DO NOT connect the metal terminals (+, -) to each other

Damaged Battery Warning

Should you notice any physical defects (e.g. the battery is bent out of shape after being dropped), or any unusual smells emanating from the notebook battery, shut your computer down immediately and contact your service center. If the battery has been dropped we do not recommend using it any further, as even if the computer continues to work with a damaged battery in place, it may cause circuit damage, which may possibly result in fire. It is recommended that you replace your computer battery every two years.

Battery FAQ

Caution

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. Discard used battery according to the manufacturer's instructions.

How do I completely discharge the battery?

Use the computer with battery power until it shuts down due to a low battery. Don't turn off the computer by yourself even when you see a message that indicates the battery is critically low, just let the computer use up all of the battery

power and shut down on its own. Disable the Power Options functions in the Control Panel, especially any Alarms and Schemes. As the battery nears the end of its life save and close any critical files.

How do I fully charge the battery?

When charging the battery, don't stop until the LED charging indicator light changes from orange to green.

How do I maintain the battery?

Completely discharge and charge the battery at least once every 30 days or after about 20 partial discharges.

Drivers & Utilities

What to Install

The Device Drivers & Utilities + User's Manual CD-ROM contains the drivers and utilities necessary for the proper operation of the computer. (The Wireless LAN, optional Bluetooth, optional PC Camera and optional TV Tuner module drivers are on separate CD-ROMs supplied.) It is very important that the drivers are installed in the order indicated.

Module Driver Installation

The procedures for installing drivers for the Wireless LAN, Bluetooth, PC Camera and TV Tuner modules are provided in "Modules & Options".

Navigate (Browse..) to D:

You will notice that many of the instructions for driver installation require you to "Navigate (Browse) to D:." We assume that you will install all drivers and utilities from the built-in CD device and it is assigned to "Drive D:." (In addition, all file extensions can be seen.)

In this case "D:" is the drive specified for your CD device. Not all computers are setup the same way, and some computers have the CD listed under a different drive letter - e.g. if you have two hard drives (or hard disk partitions) one may be designated as "Drive C:" and the other as "Drive D:." In this case the CD device may be designated as "Drive E:" - Please make sure you are actually navigating to the correct drive letter for the CD device.

When you click the Browse (button) after clicking Run in the Start menu you will see the "Look in:" dialog box at the top of the Browse window. Click the scroll button to navigate to My Computer to display the devices and drive letters.

Service Packs

Check the warnings on the following pages regarding installation of the appropriate Service Pack for your Windows OS. Make sure you have installed the appropriate Service Pack before installing all the drivers.

Service Pack Installed

To see which Service Pack is currently installed on your computer go to the General tab of the System control panel. Right-click the My Computer icon on the desktop or in the Start menu and select Properties. The Service Pack currently installed on your system will be listed under the "System:" heading. (If no Service Pack information is listed, then no Service Pack is installed.)

Windows XP Service Pack 2

Make sure you install Windows XP Service Pack 2 (or a Windows XP version which includes Service Pack 2) before installing any drivers. Service Pack 2 includes support for USB 2.0.

If you have upgraded the system by installing Service Pack 2 (i.e. your Windows XP version does not include Service Pack 2) then follow these instructions:

1. Click Start (menu), point to Settings and click Control Panel (or click Control Panel).
2. Double-click System (icon); System (icon) is in Performance and Maintenance (category).
3. Click the Hardware (tab) > Device Manager (button).
4. Click "+" next to Other Devices (if its sub-items are not shown).
5. Right-click Universal Serial Bus (USB) Controller and select Uninstall > OK (if you don't see the item then there is no need to take any further action).
6. Restart the computer and it will find the USB 2.0 controller.

Authorized Driver Message

If you receive a message telling you that the driver you are installing is not authorized (Digital Signature Not Found), just click Yes or Continue Anyway to ignore the message and continue the installation procedure.

You will receive this message in cases where the driver has been released after the version of Windows you are currently using. All the drivers provided will have already received certification for Windows.

Version Conflict Message

During driver installation if you encounter any "file version conflict" message, please click Yes to choose to keep the existing (newer) version.

Updating/Reinstalling Individual Drivers

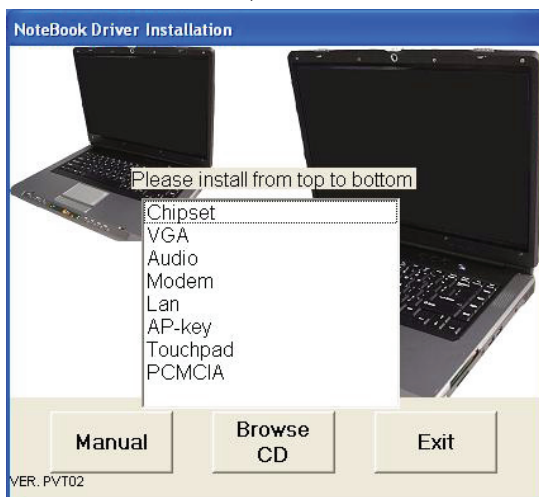
If you wish to update/reinstall individual drivers it may be necessary to uninstall the original driver. To do this go to the Control Panel in the Windows OS and double-click the Add/Remove Programs item. If you see the individual driver listed (if not see below), uninstall it, following the on screen prompts (it may be necessary to restart the computer). Go to the appropriate section of the manual to complete the update/reinstall procedure for the driver in question.

If the driver is not listed in the Add/Remove Programs item:

1. Click Start (menu), point to Settings and click Control Panel (or click Start > Control Panel).
2. Double-click System (icon); System (icon) is in Performance and Maintenance (category).
3. Click Hardware (tab) > Device Manager (button).
4. Double-click the device you wish to update/reinstall the driver for (you may need to click "+").
5. Look for the Update Driver button (check the Driver tab) and follow the on screen prompts.

Driver Installation

Insert the Device Drivers & Utilities + User's Manual CD-ROM and the NoteBook Driver Installation application will run automatically. If you want to install the driver manually see "Manual Driver Installation" below.



NoteBook Driver Installation Application

1. Check the driver installation order from the table below (the drivers must be installed in this order).
2. Double-click the name of the driver you wish to install.
3. Follow the instructions as listed in this chapter.
4. Make a note of the drivers you have installed.
5. If the computer needs to restart after installing a driver, you will usually need to click the "Yes/ Finish" button when prompted to restart the computer.
6. To get back to the NoteBook Driver Installation screen click Start (menu) > Run... and navigate (Browse..) to D:\AUTODR3P.EXE and click OK.

Manual Driver Installation

If you wish to install the drivers manually, click the Exit button to quit the NoteBook Driver Installation application, then follow the manual installation procedure for each driver. The manual installation procedure begins with instructions on how to browse to the executable file; "Click Start (menu) > Run..."

Driver Installation

- 1 Install the appropriate Service Pack for WinXP
- 2 Chipset
- 3 Video (VGA)
- 4 Audio
- 5 Modem
- 6 LAN
- 7 AP-Key Buttons

- 8 TouchPad
- 9 PCMCIA
- 10 AutoMail
- 11 Intel Wireless LAN
- 12 Bluetooth
- 13 PC Camera
- 14 TV Tuner Module Options

Driver Installation Procedure

This section covers driver and utility installation in-structions for Windows XP Home & Professional (with Service Pack 2 installed).

New Hardware Found

If you see the message "New Hardware Found" (Found New Hardware Wizard) during the installation procedure (other than when outlined in the driver install procedure), click Cancel to close the window, and follow the installation procedure as directed.

Service Pack Installation

Make sure you install the appropriate service pack for your operating system before installing any.

Chipset

1. Double-click Chipset from the Notebook Driver Installation menu.
OR
Click Start (menu) > Run... and navigate (Browse..) to D:\Drivers\00Chipset\Setup.exe and click OK.
2. Click Next > Yes > Next.
3. Click Finish to restart the computer.

Video (VGA)

ATI Video Driver Installation

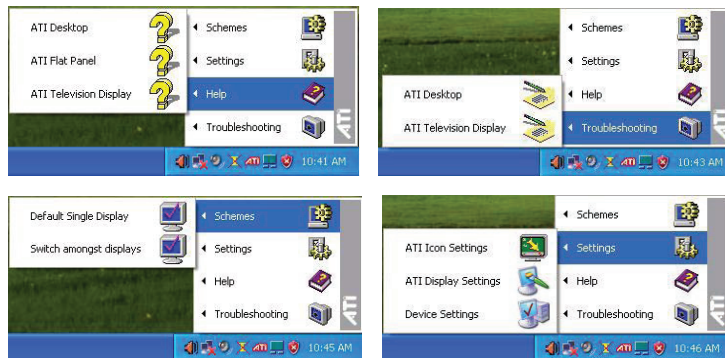
Make sure you install the drivers.

1. Double-click VIDEO from the Notebook Driver Installation menu. OR Click Start (menu) > Run... and navigate (Browse..) to (one of the following)
D:\Drivers\01Vga\ATIM26\Setup.exe
D:\Drivers\01VgaM26\Setup.exe
D:\Drivers\01Vga\ATIM28\Setup.exe
and click OK.
2. To continue click Next > Yes > Express (click Continue Anyway/ Yes if asked if you want to continue at any time).
3. Click Finish to restart the computer.

ATI Mobility Radeon Properties

More advanced video configuration options are provided in the ATI Mobility Radeon X700/X800 XT Properties control panel:

1. Open the Display Properties control panel.
2. Click Advanced (button).
3. Click the ATI Mobility Radeon Properties tabs to adjust video settings.



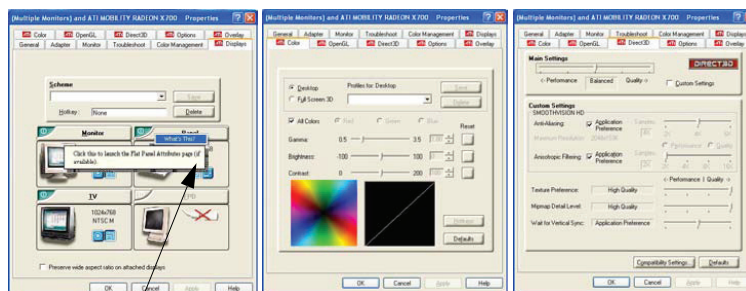
ATI Taskbar Icon

You can also access ATI Mobility Radeon X700/X800 XT Properties by right-clicking the ATI icon in the taskbar. Point to Settings and click ATI Display Settings, then click Settings (tab).

The menus will also allow access to Help, Troubleshooting and Schemes etc.

Help Menus

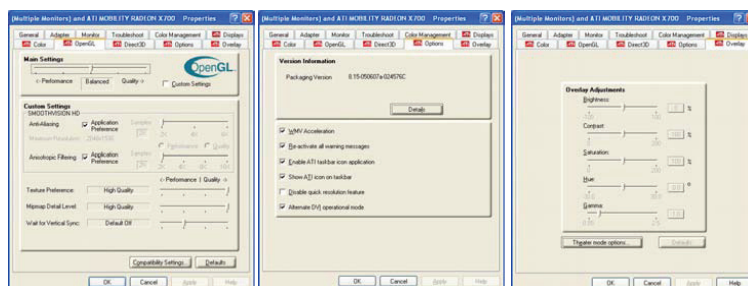
Right-click on almost any item in the tabs to bring up the "What's This?" button. Click the "What's This?" button to bring up the help menu.



Help Menu

PowerPlay Menu

The menus pictured in this chapter are from the ATI Mobility Radeon X700. The X800 XT has an additional PowerPlay menu with power saving features.



Display Devices

Besides the built-in LCD, you can also use an external monitor/flat panel display or TV as your display device. The following are the display options:

1. The built-in LCD.
2. An external monitor connected to the DVI-Out port (may require DVI to VGA converter).
3. A flat panel display connected to the DVI-Out port (may require DVI to VGA converter).
4. A TV (Model B computers with ATI Mobility Radeon X800 XT video cards also support HDTV, but require an HDTV converter*) connected to the S-Video-Out jack.

***Note:** Contact your service center for the HDTV converter.

Theater Mode

Theater Mode can be enabled by clicking Theater Mode Options (button) in the Overlay tab from the ATI Mobility Radeon Properties. Theater Mode enables you to display video playback in full screen on a secondary monitor.

Theater Mode is not supported if you have the TV Tuner module installed.

Monitor and TV Tuner

If you are connecting both a monitor/flat panel display to the DVI-Out port, and a cable/aerial to the optional TV Tuner module, make sure you attach the cable/aerial to the TV Tuner first, then the monitor.

Attaching Other Displays

If you prefer to use a monitor or flat panel display, connect it to the DVI-Out Port at the rear of the computer.

1. Attach your external monitor to the DVI-Out port (or TV to the S-Video-Out port), and turn it on.
2. Select the Displays tab in ATI Mobility Radeon Properties.
3. Click the enable/disable button for the display device you wish to use.
4. Click Apply.
5. Click Yes to accept the settings and OK to save the changes.



6. Select One display as Primary, the remaining as the Clone (the Clone may operate in either Clone Mode, or Extended Desktop Mode).

Function Key Combination

You can use the Fn + F7 key combination to toggle through the display options:

- Notebook Only
- External Display Only
- Notebook + External Display

Make sure you give the displays enough time to refresh.

Display Modes

Primary & Clone Displays

The Primary display in an Extended Desktop environment will be associated with display Icon 1 in the settings tab.

The Clone display will set the associated display to show a copy of the Primary desktop.

The Clone display in an Extended Desktop environment will show the portion of the desktop extended from the Primary display.

Single

Only one of your displays is used.

Multiple - Clone Mode

Clone Mode simply shows an exact copy of the Primary display desktop on the other display(s). This mode will drive multiple displays with the same content and each display device can be configured independently.

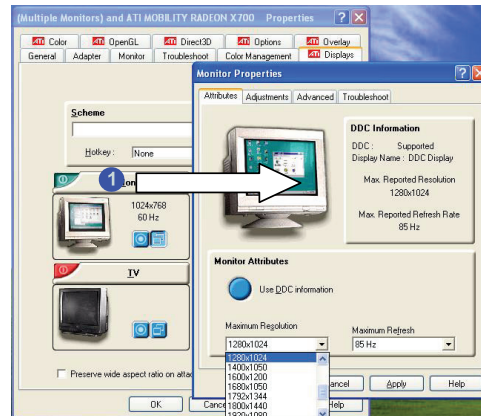
Multiple - Extended Desktop Mode

Extended Desktop mode treats both connected displays as separate devices, and they act as a virtual desktop resulting in a large workspace. When enabled, you can drag any icons or windows across to the other display desktop. It is therefore possible to have one program visible in one of the displays, and a different program visible in the other display.

Clone Mode

Clone Mode simply shows an exact copy of the Primary display desktop on the other display(s). This mode will drive multiple displays with the same content. Use this feature to display the screen through a projector for a presentation. Each display device can be configured independently as this allows you to set the options for overhead projectors etc., which require specific resolutions and refresh rates. Click on the bar (1) of the device in question to bring up the configuration options.

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Display Data Channel Information

Click the "Use DDC Information" button to disable/enable DDC.

DDC is a data channel used by newer monitors to provide information (e.g. maximum resolution and refresh rates) to the video adapter.

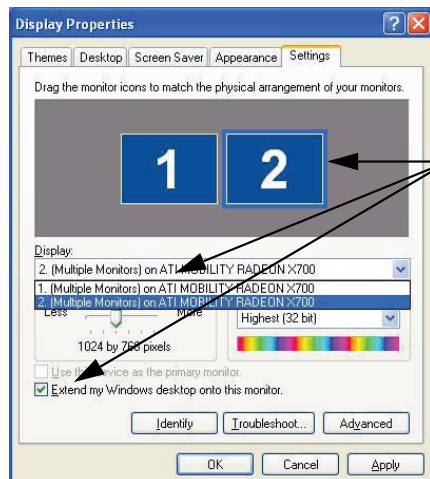
Different monitors support different resolutions and refresh rates experiment for the best setting).

Extended Desktop Mode

The system supports Extended Desktop in multiple display environments in Windows XP. An Extended Desktop creates a desktop spanning multiple displays and acts as a large workspace.

To get this effect:

1. Attach your external monitor to the DVI-Out port (or TV to the S-Video Out port), and turn it on.
2. Select the Displays tab in the ATI Mobility Radeon Properties.
3. Click the enable/disable button for the display device you wish to use.
4. Click Apply.
5. Click Yes to accept the settings and OK to save the changes.
6. Use the Display Properties window to select the second monitor by clicking on the icon, or select it from the "Display:" pop-up menu.
7. Click "Extend my Windows desktop onto this monitor."
8. Click Apply > OK.
9. Use the Display Properties control panel to drag the monitors to match the physical arrangement you wish to use.
10. In the example shown the primary monitor (1) is on the left, the other display is on the right.

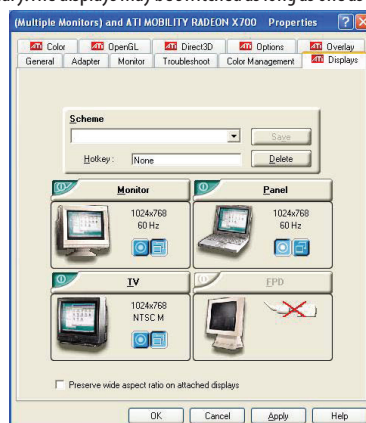


Click either the Display pop-up menu, or click the icon for the appropriate display.

Then click the tick box to ex-tend the primary display's desktop to it.

11. When Extended Desktop Mode is enabled, drag any icons or windows across to the other display desktop. It is therefore possible to have one program visible in one of the monitors, and a different program visible in the other monitor.

12. One display will be set to Primary. The displays may be switched as long as one as set to Primary.



In this picture the notebook LCD (Extended Desktop panel) is the primary display, and the desktop may be extended to any attached displays.

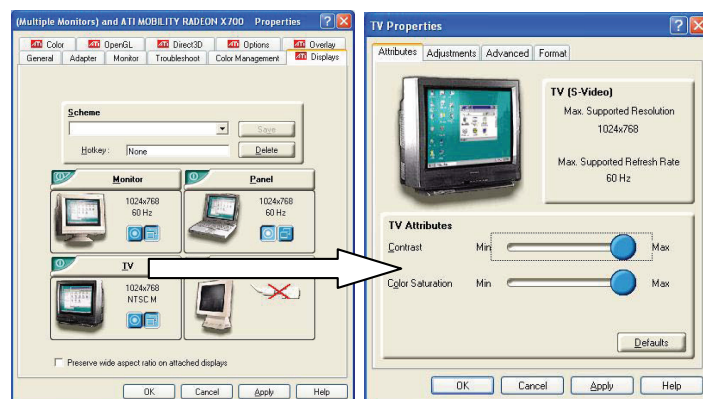
13. To switch from Extended Desktop mode back to Clone mode, first uncheck the tick box to disable the Extended Desktop and click Apply.

14. Repeat the procedure in "Attaching Other Displays" (make sure you have selected the appropriate display to get all the ATI Mobility Radeon Properties options tabs) to return to Clone mode (click the button to enable any displays if necessary).

Enabling TV Display

To display desktop images on a TV, connect the TV to your computer by using an S-Video cable from the TV to the S-Video-Out jack at the rear of the computer.

Further help is available to help you troubleshoot your TV connection through the menus accessed from the taskbar.



The TV Properties tabs allow you to adjust the TV settings and TV Format etc.



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Audio

1. Double-click Audio from the Notebook Driver Installation menu.
OR
Click Start (menu) > Run... and navigate (Browse..) to D:\Drivers\02Audio\Setup.exe and click OK.
2. Click Next.
3. Click Finish to restart the computer.
4. When the computer restarts click Cancel if the The Found New Hardware Wizard appears (click Continue Anyway if asked if you want to continue at any time).
5. Click Yes to restart the computer (click Cancel if The Found New Hardware Wizard appears after restart).

Modem

1. Double-click Modem from the Notebook Driver Installation menu.
OR
Click Start (menu) > Run... and navigate (Browse..) to (one of the following) D:\Drivers\03Modem\Conexant\Setup.exe D:\Drivers\03Modem\SmartLnk\Setup.exe D:\Drivers\03Modem\Setup.exe and click OK.
2. Click OK > OK (click Continue Anyway if asked if you want to continue at any time).
3. The modem is ready for dial-up configuration.

Modem Country Selection

Be sure to check if the modem country selection is appropriate for you (Control Panel > Phone and Modem Options).

LAN

1. Double-click LAN from the Notebook Driver Installation menu.
OR
Click Start (menu) > Run... and navigate (Browse..) to (one of the following) D:\Drivers\04Lan\Marvell\SetupYukon-Win.exe D:\Drivers\04Lan\Realtek\Setup.exe and click OK.
2. Click Next.
3. Click "I accept the terms in the license agreement" and click Next > Next > Install.
4. Click Finish.
5. The network settings can now be configured.

AP-Key Buttons

1. Double-click AP-key from the Notebook Driver Installation menu.
OR
Click Start (menu) > Run... and navigate (Browse..) to (one of the following) D:\Drivers\05Ap-key\Setup.exe D:\Drivers\05Ap-key\AKSetup.exe and click OK.

2. Click Next.
3. Click Finish to restart your computer.

TouchPad

1. Double-click Touchpad from the Notebook Driver Installation menu.
OR
Click Start (menu) > Run... and navigate (Browse...) to D:\Drivers\06Touchpad\SETUP.EXE and click OK.
2. Click Next > Next (click Continue Anyway if asked if you want to continue at any time).
3. Click Finish to restart your computer.
4. You may then configure your.

PCMCIA/Card Reader

1. Double-click PCMCIA from the Notebook Driver Installation menu.
OR Click Start (menu) > Run... and navigate (Browse...) to D:\Drivers\07PCMCIA\setup.exe and click OK.
2. Click Next > Yes > Finish.

AutoMail

1. Double-click AutoMail from the Notebook Driver Installation menu.
OR Click Start (menu) > Run... and navigate (Browse..) to D:\Drivers\11Automail\SETUP.EXE and click OK.
2. To continue click Next > Next > Finish.

Module Drivers

See the following pages for the driver installation procedures for any modules included in your purchase option.

Wireless LAN

Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited.

Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the Fn + F11 key combination to toggle power to the optional WLAN module, and check the indicator to see if the module(s) is powered on or.

Intel PRO/Wireless Mini-PCI WLAN Module

If you have included an Intel PRO/Wireless 2915ABG (802.11a/b/g) Mini-PCI WLAN module in your purchase option, you will have the appropriate software CD provided for your module.

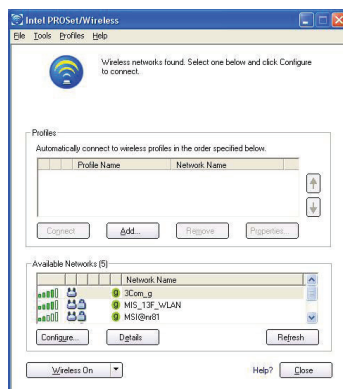
Before installing the Intel PRO/Wireless 2915ABG Mini-PCI WLAN driver, make sure that the Wireless LAN module is on (the WLAN LED will be green). Use the Fn + F11 key combination to toggle power to the Wireless LAN module (make sure you install the drivers).

To get help on the network settings you can view the User Guide from the Intel PRO CD-ROM.



Intel WLAN Driver Installation

1. Make sure the module is powered on, then insert the Intel PROSet/ Wireless CD-ROM into the CD/DVD drive.
2. Click Install Software (button).
3. Click the button to accept the license and click Next > Next > OK.
4. Click OK to complete the installation.
5. You can configure the settings by going to the Intel (R) PROSetWireless control panel (Start > Programs/All Programs > Intel PROSet Wireless), or by double-clicking the taskbar icon .



Bluetooth

Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft. Use the Fn + F12 key combination to toggle power to the optional Bluetooth module, and check the indicator to see if the module(s) is powered on or not.

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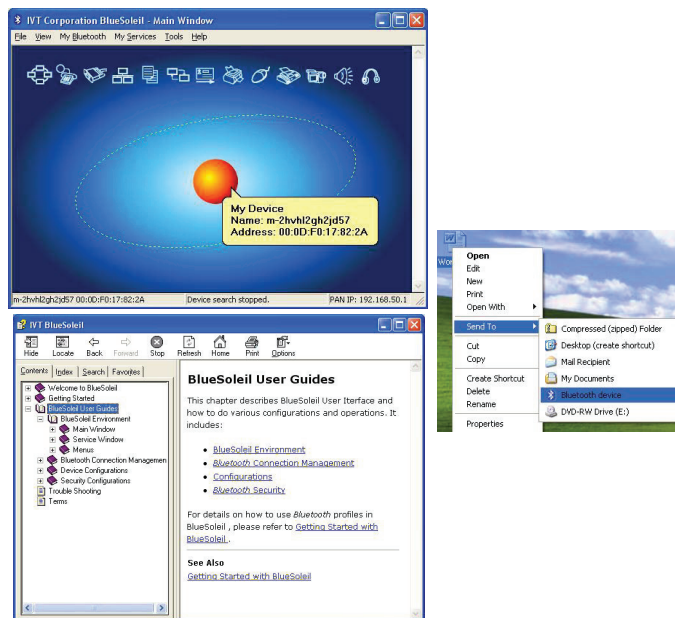
Bluetooth Module

If you have included an Bluetooth module in your purchase option, you will have the appropriate software CD provided for your module.

Before installing the Bluetooth driver, make sure that the optional Bluetooth module is on (the Bluetooth LED will be green). Use the Fn + F12 key combination to toggle power to the Bluetooth module. Make sure you install the drivers.

Bluetooth Driver Installation

1. Make sure the module is powered on, then insert the Bluetooth CDROM into the CD/DVD drive.
2. The program will run automatically.
3. Choose the language you prefer, and click OK.
4. Click Next > Yes > Next.
5. Click Finish to restart the computer.
6. Click OK when the Welcome to Bluetooth screen appears on restart.
7. You can configure the settings by going to the IVT Corporation BlueSoleil - Main Window control panel (Start > Programs/All Programs > IVT BlueSoleil), or by clicking the taskbar icon



Send To Bluetooth

Right-Click to select any file and scroll down to Send To ... Bluetooth Device.

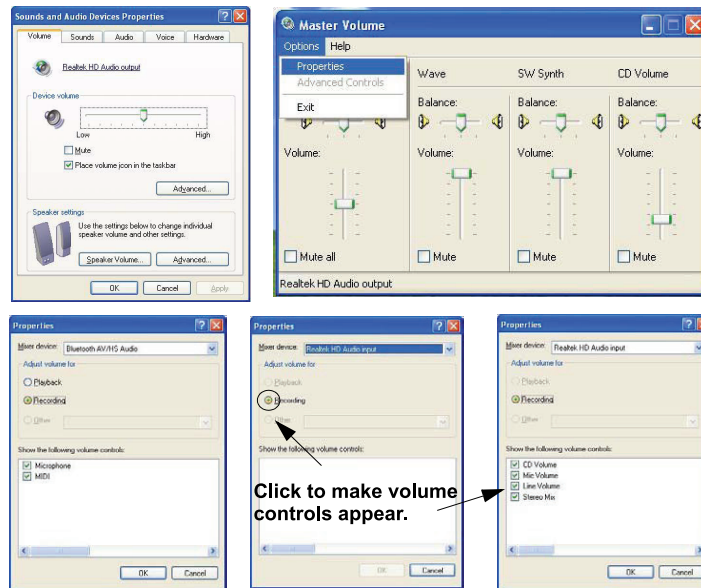
Bluetooth Audio Setup

If you wish to use Bluetooth audio devices, it is necessary to setup the audio recording options in Windows.

1. Go to the Start menu and point to Settings (or just click Control Panel) and click Control Panel, then double-click the Sounds & Audio Devices icon (Sounds, Speech, and Audio Devices in Category View).
2. Click Advanced in the Device volume tab.
3. Click Options, scroll down and click Properties.
4. Select Bluetooth AV/HS Audio from the Mixer device menu.
5. Click OK and close the windows.

To Reset the Audio for Realtek Audio Recording:

1. Go to the Start menu and point to Settings (or just click Control Panel) and click Control Panel, then double-click the Sounds & Audio Devices icon (Sounds, Speech, and Audio Devices in Category View).
2. Click Advanced in the Device volume tab.
3. Click Options, scroll down and click Properties.
4. Select Realtek HD Audio input from the Mixer device menu.
5. Click Recording (radio button) and the volume controls tickboxes should appear.
6. Click OK and close the windows.



PC Camera

PC Camera Module

If you have included a PC Camera module in your purchase option, you will have the appropriate software CD provided for your module.

Before installing the PC Camera driver, make sure that the optional PC Camera is on (the PC Camera LED will be green). Use the Fn + F10 key to toggle power to the PC Camera module. Make sure you install the drivers.

After installing the driver you can run the application software by going to the BisonCam item in the Start > Programs/All Programs menu and selecting the BisonCap program.

Taking Still Pictures

Double-click the My Computer icon on the desktop, or go the Start menu and point to My Computer, then click it.

Double-click the BisonCam, NB Pro icon.

Click Take a new picture in the Camera Tasks box.

Latest PC Camera Driver Information

Check the PC Camera CD, and any accompanying insert pages, for the latest updated information on the PC Camera driver, which may override the information provided here.

Sertek PC Camera Driver Installation (WinXP)

1. Press the Fn + F10 key combination to power on the PC Camera module (click Cancel if you see a "New Hardware Found" message).
2. Insert the PC Camera CD-ROM into the CD/DVD drive.
3. The program will run automatically.
4. Click Install Products.
5. Choose the language you prefer and click OK.
6. Click Next (click Continue Anyway if asked if you want to continue).
7. When the Found New Hardware Wizard appears click the No, not this time button, and click Next.
8. Select install the software automatically (Recommended) and click Next (click Continue Anyway if asked if you want to continue).
9. Click Finish (in the Found New Hardware Wizard) > Finish (in the InstallShield Wizard) to restart the computer.
10. Run the BisonCap application program from the shortcut on the desktop, or from the BisonCam item in the Start > Programs/All Programs menu (if the hardware is turned off use the Fn + F10 key combination to turn it on again).

PC Camera Audio Setup

If you wish to capture video & audio with your camera, it is necessary to setup the audio recording options in Windows.

1. Go to the Start menu and point to Settings (or just click Control Panel) and click Control Panel, then double-click the Sounds & Audio Devices icon (Sounds, Speech, and Audio Devices in Category View).
2. Click Advanced in the Device volume tab.
3. Click Options, scroll down and click Properties.
4. Select Realtek HD Audio input from the Mixer device menu.
5. Click Mic Volume (check box) if it is not checked, then click OK.
6. Make sure the Select (check box) in the Recording Control panel, under the Mic Volume section, is checked (boost the

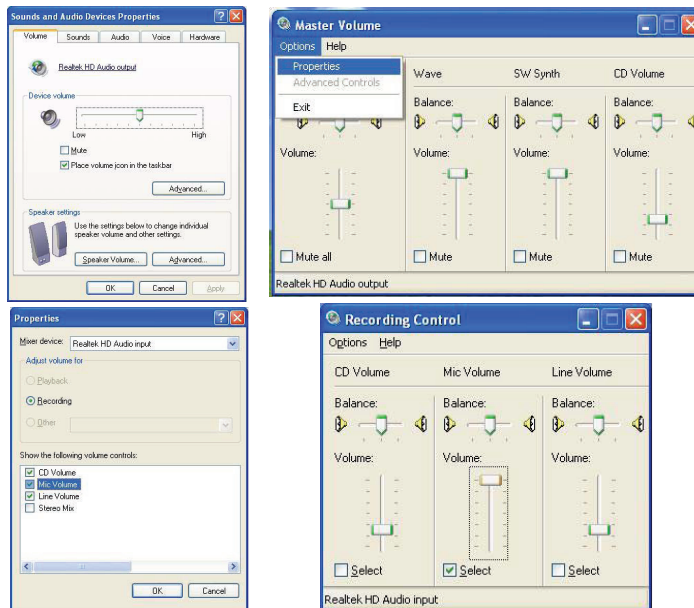
volume as high as it will go).

7. Click OK and close the windows.

8. Run the BisonCap application program from the Start > Programs/All Programs > BisonCam menu.

9. Go to the Devices menu heading and select Realtek HD Audio input (it should have a tick alongside it).

10. Go to the Capture menu heading and select Capture Audio (it should have a tick alongside it).



BisonCap

BisonCap is a video viewer useful for general purpose video viewing and test-ing, and can capture video files to .avi format.

1. Run the BisonCap program from the Start > Programs/All Programs > BisonCam menu (it is recommended that you set the capture file before the capture process -see Set Capture File below).

2. Go to the Capture menu heading (if you wish to capture audio check "PC Camera Audio Setup" on page 7 - 10) and select Start Capture.

3. On the first run of the program (if you have not set the captured file) you will be asked to choose a file name and size (see the sidebar - Pre-Allocating File Space) for the captured file.

4. Click OK to start capturing the video, and press Esc to stop the capture.

5. If you wish to, you may go to the File menu and select Save Captured Video As..., choose a file name and location, then click Open (you can view the file using the Windows Media Player).

Pre-Allocating File Space

You may pre-allocate the file size for the capture file in the BisonCap program. You can choose to ignore this by clicking Cancel.

Pre-allocating space on the hard disk can improve the capture quality (particularly of large capture files), by reducing the amount of work the hard disk has to do in finding space for the video data as it is being captured.

You may find it helpful to defragment the HDD before capture.

Set Capture File

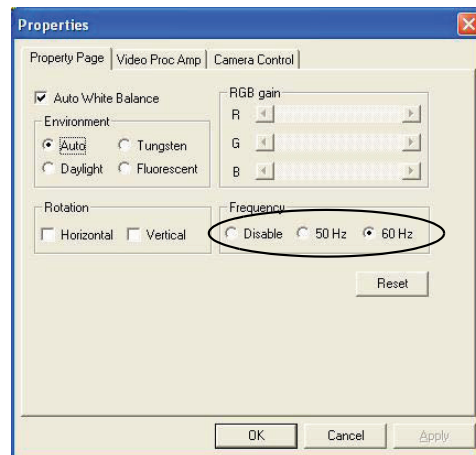
You will only be asked to set the capture file name on the first run of the BisonCap program. When you run the program the next time the file will automatically be overwritten with the newly captured file. To avoid overwriting files you can go to the Set Capture File.. option in the File menu, and set the file name and location before capture. Set the name and location then click Open (you can choose Cancel to ignore the file size if prompted).

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Eliminating Screen Flicker

If you find that the video screen in the BisonCap program is flickering, you can try to adjust the setting in the Video Capture Filter options.

1. Run the BisonCap program.
2. Go to Options and scroll down to select "Video Capture Filter..."
3. Click either 50Hz or 60Hz under Frequency in Property Page (tab).



TV Tuner Options

TV Tuner Module Options

You may have one of two possible optional Mini-PCI TV Tuner modules supplied with your computer, depending on your purchase configuration. The optional TV Tuner allows you to watch TV, play music CDs, video conference and capture still images and video on your PC.

The LifeView FlyDVB-T Hybrid (for both analog and digital inputs) Mini-PCI TV Tuner Module comes with a remote control unit, and a CD containing the LifeView Utility software.

The YUAN PVR MPC622-MCE TV Tuner module comes with a remote control unit, and a CD containing driver software for Windows XP Media Center Edition.

The CATV-In jack will only be enabled when the TV Tuner module is installed. Make sure you install any software before connecting the coaxial cable to the TV antenna input.

TV Tuner Remote

The remote control unit provided with the optional TV Tuner will only function when the computer is powered from the AC adapter, and not while the computer is powered by the internal battery. Point the remote at the consumer IR transceiver to change channels etc.

TV Antenna

The TV antenna supplied with any TV Tuner module is intended for indoor use only. Please do not use your TV Tuner module outdoors.

LifeView FlyDVB-T Hybrid Mini-PCI TV Tuner Module

If your purchase includes the LifeView FlyDVB-T Hybrid Mini-PCI TV Tuner Module, then install the driver and application as per the instructions below.

Installing the LifeView FlyDVB-T Driver & Application

1. Insert the driver CD-ROM into the CD/DVD drive.
2. Double-click LifeView DTV and Driver.
3. Choose the language you prefer, and click OK.
4. Click Next > Next.
5. Click Finish to restart the computer.
6. Run the program from the Start > Programs/All Programs > Life-View and select the LifeView DTV program, or double-click the icon on the desktop.

User Manual

Insert the TV Tuner CD-ROM and doubleclick Acrobat Reader (button) and follow the instructions to install the program (if you have not already done so). Double-click User Manual from the menu to access the manual.

YUAN PVR Mini-PCI MPC622-MCE TV Tuner Module

If your purchase includes the YUAN PVR MPC622-MCE TV Tuner for Windows XP Media Center Edition, then you will need to install the driver as per the instructions below. In order to watch TV channels you will need to purchase a copy of Cyberlink Power DVD 5.0.

Installing the MPC622 Driver for Windows XP Media Center Edition (MCE)

1. Insert the driver CD-ROM into the CD/DVD drive.
2. The CD will autorun,
OR
click Start (menu) > Run... and navigate (Browse..) to D:\MPC622_WHQL.exe and click OK.
3. Click Next > Finish.
4. To watch TV you will then need to install a copy of Cyberlink Power DVD 5.0.

MPC622-MCE TV Tuner

Note that this TV Tuner module supports Windows Media Center Edition Only.

Troubleshooting Overview

Should you have any problems with your computer, before consulting your service representative, you may want to try to solve the problem yourself. This chapter lists some common problems and their possible solutions. This can't anticipate every problem, but you should check here before you panic. If you don't find the answer in these pages, make sure you have followed the instructions carefully and observed the safety precautions in the preface. If all else fails, talk to your service representative. You should also make a record of what happened and what remedies you tried.

Of course, if something goes wrong, it will happen at the most inconvenient time possible, so you should preview this section just in case. If, after you've tried everything, and the system still won't cooperate, try turning it off for a few minutes and then rebooting. You will lose any unsaved data, but it may start work-ing again. Then call your service representative.

Basic Hints and Tips

Many of the following may seem obvious but they are often the solution to a problem when your computer appears not to be working.

- **Power** - Is the computer actually plugged into a working electrical outlet? If plugged into a power strip, make sure it is actually working. Check the LED Power & Communication Indicators to see the computer's power status.
- **Connections** - Check all the cables to make sure that there are no loose connections anywhere.
- **Power Savings** - Make sure that the system is not in Hibernation or Standby mode by pressing the keys configured in your Power Options, the Fn + F4 key combination, or power button to wake-up the system.
- **Brightness** - Check the brightness of the screen by pressing the Fn + F8 and F9 keys to adjust the brightness.
- **Display Choice** - Press Fn + F7 to make sure the system is not set to "external only" display.
- **Boot Drive** - Make sure there are no floppy disks in any connected drive when you start up your machine (this is a common cause of the message "Invalid system disk - Replace the disk, and then press any key" / "Remove disks or other media. Press any key to restart").

Backup and General Maintenance

- Always backup your important data, and keep copies of your OS and programs safe, but close to hand. Don't forget to note the serial numbers if you are storing them out of their original cases, e.g. in a CD wallet.
- Run maintenance programs on your hard disk and OS as often as you can. You may schedule these programs to run at times when you are not using your computer. You can use those that are provided free with your OS, or buy the more powerful dedicated programs to do so.
- Write down your passwords and keep them safe (away from your computer). This is especially important if you choose to use a Supervisor password for the BIOS.
- Keep copies of vital settings files such as network, dialup settings, mail settings etc. (even if just brief notes).

Warranty

The CPU is not a user serviceable part. Opening this compartment, or accessing the CPU in any way, may violate your warranty.

Viruses

- Install an Anti-Virus program and keep the definitions file (the file which tells your program which viruses to look for) up to date. New computer viruses are discovered daily, and some of them may seriously harm your computer and cause you to lose data. Anti-Virus programs are commercially available and the definitions file updates are usually downloadable directly from the internet.

- Be careful when opening e-mail from sources you don't know. Viruses are often triggered from within e-mail attachments so take care when opening any attached file. You can configure most Anti-Virus programs to check all e-mail attachments. Note: You should also beware of files from people you know as the virus may have infected an address book and been automatically forwarded without the person's knowledge.
- Keep a "Boot Floppy Disk" or "Bootable CD-ROM" (this disk provides basic information which allows you to startup your computer) handy. You may refer to your OS's documentation for instructions on how to make one, and many Anti-Virus programs will also provide such a disk (or at least instructions on how to make one).

Upgrading and Adding New Hardware/Software

- Do not be tempted to make changes to your Windows Registry unless you are very sure of what you are doing, otherwise you will risk severely damaging your system.
- Don't open your computer or undertake any repair or upgrade work if you are not comfortable with what you are doing.
- Read the documentation. We can assume, since you are reading this that you are looking at the computer's manual, but what about any new peripheral devices you have just purchased? Many problems are caused by the installation of new hardware and/or software. Always refer to the documentation of any new hardware and/or software, and pay particular attention to files entitled "READ ME" or "READ ME FIRST".
- When installing a new device always make sure the device is powered on, and in many cases you will need to restart the computer. Always check that all the cables are correctly connected.
- Make sure you have installed the drivers for any new hardware you have installed (latest driver files are usually available to download from vendor's websites).
- Thoroughly check any recent changes you made to your system as these changes may affect one or more system components, or software programs. If possible, go back and undo the change you just made and see if the problem still occurs.
- Don't over complicate things. The less you have to deal with then the easier the source of the problem may be found; Example - if your computer has many devices plugged into its ports, and a number of programs running, then it will be difficult to determine the cause of a problem. Try disconnecting all of the devices and restarting the computer with all the peripheral devices unplugged. A process of elimination (adding and removing devices and restarting where necessary) will often find the source of a problem, although this may be time consuming.

Problems and Solutions

You turned on the power but it doesn't work -

Battery missing / incorrectly installed. Check the battery bay, make sure the battery is present and seated properly (the design of the battery only allows it to go in one way). Make sure there's nothing interfering with the battery contacts. The Audio "DJ" player is on. Press the Audio "DJ" power button to turn the player off, then press the computer's power button to power on the computer.

The battery LED power indicator is blinking orange -

Low Battery. Plug in the DC power source. If the computer doesn't start up immediately, turn it off then on again.

You are losing battery power too quickly -

The system is using too much power. If your OS has a Power Options scheme check its settings. You may also be using a PC Card device that is drawing a lot of power.

Actual battery operating time is shorter than expected -

The battery has not been fully discharged before being recharged. Make sure the battery is fully discharged and recharge it completely before reusing.

Power Options have been disabled. Go to the Control Panel in Windows and re-enable the options.
A peripheral device or PC Card is consuming a lot of power. Turn off the unused device to save power.

The computer feels too hot –

Make sure the computer is properly ventilated and the Vent/Fan intakes are not blocked. If this doesn't cool it down, put the system into Hibernate mode or turn it off for an hour. Make sure the computer isn't sitting on a thermal surface. Make sure you're using the correct adapter.

Make sure that your notebook is completely powered off before putting it into a travel bag (or any such container). Putting a notebook which is powered on in a travel bag may cause the Vent/Fan intakes to be blocked.

Nothing appears on screen –

The system is in a power saving mode. Toggle the sleep/resume key combination, Fn + F4.

The screen controls need to be adjusted. Toggle the screen control key combinations Fn + F8/F9. If you're connected to an external monitor, make sure it's plugged in and turned on. You should also check the monitor's own brightness and contrast controls.

The computer is set for a different display. Toggle the screen display key combination, Fn + F7. If an external monitor is connected, turn it on.

The screen saver is activated. Press any key or touch the TouchPad.

No image appears on the external monitor I have plugged in and powered on –

You haven't installed the video driver and configured it appropriately from the Control Panel.

You forget the boot password –

If you forget the password, you may have to discharge the battery of the CMOS. Contact your service representative for help.

Password Warning

If you choose to set a boot password, NEVER forget your password. The consequences of this could be serious. If you cannot remember your boot password you must contact your vendor and you may lose all of the information on your hard disk.

The sound cannot be heard or the volume is very low –

The volume might be set too low. Check the volume control in the Volume Control Panel in the Windows taskbar, or use the key combination Fn + F5 and F6 to adjust.

The compact disc cannot be read –

The compact disc is dirty. Clean it with a CD-ROM cleaner kit.

The compact disc tray will not open when there is a disc in the tray -

The compact disc is not correctly placed in the tray. Gently try to remove the disc using the eject hole.

The DVD regional codes can no longer be changed –

The code has been changed the maximum 5 times.

The Audio "DJ" CD Player will not turn on (nothing appears on the LCD of the player) -

The computer is turned ON. Check your computer is not turned on (or running in a power saving mode), and if it is, then shut it down and press the ON/OFF switch on the Audio "DJ" Player.

Unwelcome numbers appear when typing –

If the LED CAPS is lit, then Num Lock is turned ON.

The system freezes or the screen goes dark –

The system's power saving features have timed-out. Use the AC/DC adapter, press the sleep (Fn + F4) key combination, or press the power button if no LEDs are lit.

The system never goes into a power saving mode –

Power Options features are not enabled. Go to the Windows Power Options menu and enable the features you prefer. Make sure you have enabled Hibernate mode from the control panel.

The Wireless LAN/ Bluetooth/ PC Camera modules cannot be detected –

The modules are off. Check the appropriate LED indicator to see if the WLAN/Bluetooth/ PC Camera module is on or off. If the LED indicator is off, then press the Fn + F11 (WLAN), Fn + F12 (Bluetooth) or Fn + F10 (PC Camera) key combination(s) in order to enable the modules.

The Wireless LAN/ Bluetooth/ PC Camera modules cannot be configured –

The driver(s) for the module(s) have not been installed. Make sure you have installed the driver for the appropriate module.

Notebook Ports and Jacks

Item	Description	
	Built-In Microphone	The built-in microphone allows you to record on your computer
	Card Reader Port	The card reader allows you to use some of the latest digital storage cards. Push the card into the slot and it will appear as a removable device.
	CATV-In Jack	Use this jack to connect a CATV cable if you have included the optional Mini-PCI TV Tuner in your purchase.
	DVI-Out Port	The DVI-Out (Digital Visual Interface) Port allows you to connect an external monitor, or Flat Panel Display, to allow dual video or simultaneous display on the LCD and external monitor/FPD. If you are using an older type of monitor you will need to use a converter to convert the signal from DVI to VGA.
	DC-In Jack	Plug the supplied AC/DC adapter into this jack to power your computer.
	Headphone-Out Jack	Headphones or speakers may be connected through this jack. Note: Set your system's volume to a reduced level before connecting to this jack.
	Line-In Jack	The Line-In jack allows you to play audio sources through the computer's speakers.
	Microphone-In Jack	Plug an external microphone in to this jack to record on your computer.

Item	Description	
 Mini-IEEE 1394 Port	This port allows a high-speed connection to various peripheral devices, e.g. external disk drives and digital cameras (see note below). Mini-IEEE 1394a Port The Mini-IEEE 1394 port only supports SELF POWERED IEEE 1394a devices.	
 RJ-11 Phone Jack	This port connects to the built-in modem. You may plug the telephone line directly into this RJ-11 telephone connection. Note: Broadband (e.g. ADSL) modems usually connect to the LAN port.	
 RJ-45 LAN Jack	This port supports LAN (Network) functions. Note: Broadband (e.g. ADSL) modems usually connect to the LAN port.	
 Security Lock Slot	To prevent possible theft, a Kensington-type lock can be attached to this slot. Locks can be purchased at any computer store.	
 Serial Port	Connect a serial type mouse to this port.	
 S/PDIF-Out Jack	This S/PDIF (Sony/Philips Digital Interface Format) Out Jack allows you to connect your DVD-capable PC to a Dolby AC-3 compatible receiver for "5.1" or dts' surround sound.	
 S-Video-Out Jack	Connect your television to your computer and view DVDs, VCDs or anything else your computer can display. You will need an S-Video cable to make the connection. Enable this jack from the video driver controls.	
 USB 2.0/1.1 Ports	These USB 2.0 compatible ports (USB 2.0 is fully USB 1.1 compliant) are for low-speed peripherals such as keyboards, mice or scanners, and for high-speed peripherals such as external HDDs, digital video cameras or high-speed scanners etc. Devices can be plugged into the computer, and unplugged from the computer, without the need to turn the system off (if the power rating of your USB device is 500mA or above, make sure you use the power supply which comes with the device).	

Specification

Latest Specification Information

The specifications listed in this Appendix are correct at the time of going to press. Certain items (particularly processor types/speeds and CD/DVD device types) may be changed or updated due to the manufacturer's release schedule. Check with your service center for details.

Processor

Intel Pentium® M Processor (478-pin) Micro-FC-PGA Package

Models 730/ 740/ 750/ 760/ 770/ 780

(µ0.09) 0.09 Micron Process Technology

2MB On-die L2 Cache & 533MHz FSB

1.6/ 1.73/ 1.86/ 2/ 2.13/ 2.26 GHz

Intel Celeron® M Processor (478-pin) Micro-FCPGA Package

Models 350/ 350J/ 360/ 360J/ 370/ 380/ 390

(µ0.09) 0.09 Micron Process Technology

1MB On-die L2 Cache & 400MHz FSB

1.3/ 1.3/ 1.4/ 1.4/ 1.5/ 1.6/ 1.7 GHz

Core Logic

Intel 915PM + ICH6-M

Memory

Two 200 Pin SO-DIMM Sockets Supporting DDRII (DDR2) 533 MHz

Memory Expandable up to 2GB (256/ 512/ 1024 MB DDRII Modules)

(Note: Do Not Use Other Module Types)

Security

Security (Kensington® Type) Lock Slot

BIOS Password

BIOS

One 4MB Flash ROM

Phoenix™ BIOS, Plug and Play

LCD

15.4" WXGA (1280*800) Flat Panel TFT OR

15.4" WSXGA+ (1680*1050) Flat Panel TFT OR

15.4" WUXGA (1920*1200) Flat Panel

Video Card

ATI Mobility Radeon X700 (M26) PCI Express Video Card

128/256MB DDR Video RAM On Board
 256-bit Video Memory Interface
 PCI Express * 16
 Fully Supports DirectX® 9.0

Storage

One Changeable 12.7mm(h) Optical Device (CD/DVD) Type Drive in Removable Bay
 One Removable Bay for 2nd Battery or 2nd PATA Hard Disk Drive or Optical Disk Drive
 Easy Changeable 2.5" 9.5 mm (h) Hard Disk Drive Supporting ATA 100/ 66/ 33 or SATA 150
 The System Supports both PATA (Parallel) and SATA (Serial) Interfaces

Audio

7.1 Channel High Definition Audio Chipset (AZALIA) with UAA (Universal Audio Architecture)
 EAX™ 1.0 & 2.0 Compatible
 Direct Sound 3D™ Compatible
 A3D™ Compatible
 16/ 20/ 24-bit S/PDIF-Out Supporting 44.1KHz/ 48KHz/ 96KHz Sample Rate
 2 * Built-In Hi-Fi Speakers Built-In Standalone Audio "DJ" CD Player (Supports MP3 Formats)
 SRS WOW Surround Sound (SRS/ TruSurround/ TruBass / Focus Enhancement) - (Supplied as a factory option)

Interface & Communication

Four USB 2.0 Ports
 One Mini-IEEE 1394 Port
 One DVI-Out Port
 One Microphone-In Jack
 One Line-In Jack
 One Headphone-Out Jack
 One S/PDIF Output Jack
 One Serial Port
 One S-Video-Out Jack
 300K Pixel PC Video Camera Module with USB Interface (Factory Option)
 OR
 1.3M Pixel PC Video Camera Module with USB Interface (Factory Option)
 Bluetooth 1.2 Module with USB Interface (Optional)
 Wireless Network Options
 Intel PRO/Wireless 2915ABG (802.11a/b/g) (Optional)
 One RJ-11 Jack for Plug & Play Fax/Modem AZALIA 56K Plug & Play Fax/Modem V.90/92 Compliant One
 RJ-45 Jack (Local Area Network) 10MB/100MB/1Gbit PCI-Express Fast Ethernet On Board
 One Infrared Transceiver IrDA 1.1 Compliant (IrDA 1.1/ FIR/ SIR/ ASKIR)
 Infrared Transfer 1cm ~ 30 cm Operating Distance
 115.2K bps SIR
 4M bps FIR
 One CATV-In Jack (Functions with Optional TV Tuner Module)
 One Consumer Infrared (CIR) Transceiver for TV Remote (Functions with Optional TV Tuner Module)

Card Reader

Built-In 4-in-1 Card Reader (MS/ MS PRO/ SD/ MMC)

Keyboard & Pointing Device

Winkey Keyboard

Built-In TouchPad with Scrolling Function

PCMCIA

One Type-II PCMCIA CardBus PC Card Slot

Power Management

Supports ACPI 2.0

Supports Hibernate Mode

Supports Standby

Power

Full Range AC/DC Adapter 20V, 4.5A (90 Watts), 100~240V, 47~63Hz

8 Cell Smart Lithium-Ion Battery Pack, 4.4AH

2nd Optional Battery - 6 Cell Smart Lithium-Ion Battery Pack, 3.8AH

Environmental Spec

Temperature

Operating: 5°C ~ 35°C

Non-Operating: -20°C ~ 60°C

Relative Humidity

Operating: 20% ~ 80%

Non-Operating: 10% ~ 90%

Physical Dimensions & Weight

360mm (w) * 287mm (d) * 26 - 39mm (h) Min

3.4 kg (+3%)

With 8 Cell Battery & Optical Device

Optional

Optical Drive Module Options:

DVD/CD-RW Combo Drive Module

DVD-Dual Drive Module

8 Cell Smart Lithium-Ion Battery Pack, 4.4AH

300K Pixel PC Video Camera Module with USB Interface (Factory Option)

OR

1.3M Pixel PC Video Camera Module with USB Interface (Factory Option)

Wireless Network Options

Intel PRO/Wireless 2915ABG (802.11a/b/g) (Optional)

Bluetooth 1.2 Module with USB Interface
USB Floppy Disk Drive
2nd Battery - 6 Cell Smart Lithium-Ion Battery Pack, 3.8AH
2nd PATA Hard Disk Drive
Mini-PCI Hybrid TV Tuner Card
Mini-PCI MCE TV Tuner Card (Hardware Decoder)
Sonic Home Theater
Roxio 7.0 CD Burner Software

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Notes

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