

TOSHIBA

Toshiba PSPB0U-00W008 User Manual

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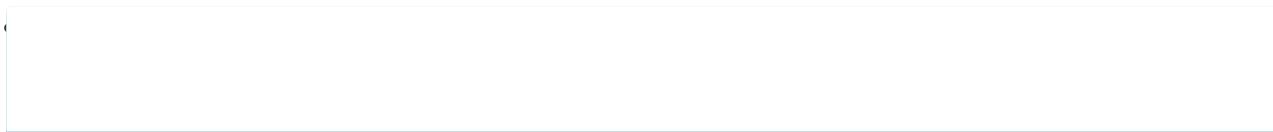
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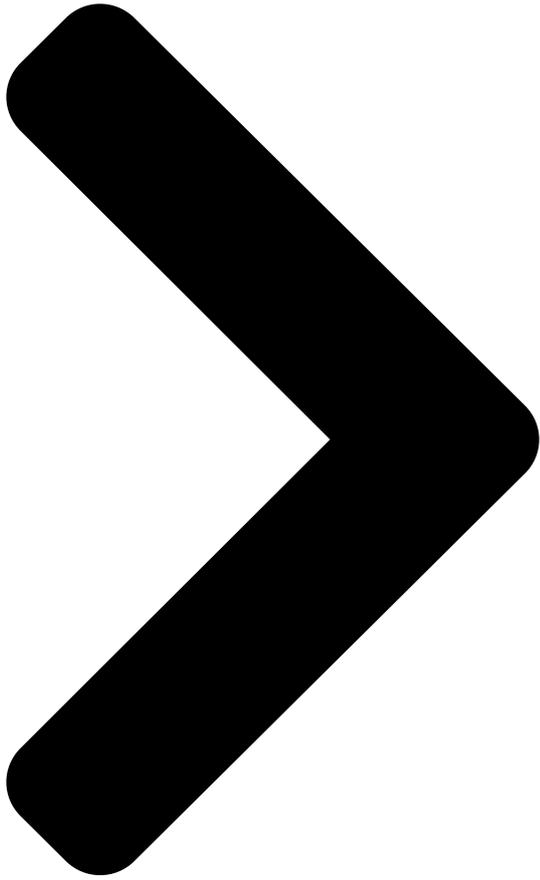
Troubleshooting

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User's Manual

P200

computers.toshiba-europe.com

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Related Manuals for Toshiba PSPB0U-00W008

[Laptop Toshiba Satellite P200 Maintenance Manual](#)

(251 pages)

[Laptop Toshiba P205-S6277 User Manual](#)

P205-s6277 user's guide (242 pages)

[Laptop Toshiba Satellite P200 Series User Manual](#)

(238 pages)

[Laptop Toshiba Satellite P200 Series User Manual](#)

(220 pages)

[Laptop Toshiba Satellite Pro P200 Series User Manual](#)

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[Laptop Toshiba Satellite P200 Series User Manual](#)

Toshiba laptop user's manual p200 (194 pages)

[Laptop Toshiba Satellite P200 Series Maintenance Manual](#)

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[Laptop Toshiba P200 Series User Manual](#)

Toshiba dvd video player user's manual (183 pages)

[Laptop Toshiba P15-S4091 User Manual](#)

P15-s4091 user's guide (240 pages)

[Laptop Toshiba P25-S477 User Manual](#)

P25-s477 user's guide (232 pages)

[Laptop Toshiba P25-S509 User Manual](#)

P25-s509 user's guide (230 pages)

[Laptop Toshiba PSPB3U-01V00L Brochure](#)

Brochure (2 pages)

[Laptop Toshiba P300-ST3014 User Manual](#)

P300-st3014 user's guide (231 pages)

[Laptop Toshiba P500-ST5801 User Manual](#)

P500-st5801 user's guide (254 pages)

[Laptop Toshiba Satellite P30-132 User Manual](#)

Toshiba satellite p30-132: user guide (165 pages)

[Laptop Toshiba Satellite P20-8PW User Manual](#)

Toshiba satellite p20-8pw: user guide (142 pages)

Summary of Contents for Toshiba PSPB0U-00W008

[Page 1](#) User's Manual P200 computers.toshiba-europe.com...

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[Page 3: Safety Instructions](#)

P200 Other trademarks and registered trademarks not listed above may be used in this manual. Macrovision License of Notice This product incorporates copyright protection technology that is protected by methods and claims of certain U.S. patents and other intellectual rights owned by

Macrovision Corporation, and other rights owners.

[Page 4](#) P200 ■ If you use an extension cable with your AC adapter, ensure that the total ampere rating of the products that are plugged into it do not exceed the ampere rating of the extension cable itself. ■ To help avoid the potential hazard of electric shock, do not connect or disconnect any cables or perform maintenance or reconfiguration of this product during an electrical storm.

[Page 5: Working Environment](#)

EMC (Electromagnetic Compatibility) and safety standards. However, TOSHIBA cannot guarantee that this product still observes these EMC standards if options or cables not produced by TOSHIBA are connected or implemented. In this case the persons who have connected / implemented those options / cables have to provide assurance that the system (PC plus options / cables) still fulfils the required standards.

[Page 6](#) P200 TOSHIBA do not approve the use of this product in working environments other than the above mentioned "Residential, commercial and light industry environments". For example, the following environments are not approved: ■ Industrial Environments (e.g. environments where a mains voltage of 380V three-phase is used) ■...

[Page 7](#) P200 Optical Disc Drive Safety Instruction Be sure to check the international precautions at the end of this section. The optical drive that is used in this computer is equipped with a laser device. A classification label with the following sentence is affixed to the surface of the drive.

[Page 8](#) P200 TOSHIBA Samsung Storage Technology CD-RW/DVD-ROM TS-L462D ■ The CD-RW/DVD-ROM drive employs a laser system. To ensure proper use of this product, please read this instruction manual carefully and retain for future reference. Should the unit ever require maintenance, contact an authorized service location.

[Page 9](#) P200 TEAC CD-RW/DVD-ROM DW-224E ■ The CD-RW/DVD-ROM drive employs a laser system. To ensure proper use of this product, please read this instruction manual carefully and retain for future reference. Should the unit ever require maintenance, contact an authorized service location. ■...

[Page 10](#) P200 Pioneer DVD Super Multi DVR-K17 ■ The DVD Super Multi drive employs a laser system. To ensure proper use of this product, please read this instruction manual carefully and retain for future reference. Should the unit ever require maintenance, contact an authorized service location.

[Page 11](#) P200 TOSHIBA Samsung Storage Technology TS-L632D ■ The drive employs a laser system. To ensure proper use of this product, please read this instruction manual carefully and retain for future reference. Should the unit ever require maintenance, contact an authorized service location.

[Page 12](#) P200 Hitachi-LG Data Storage DVD Super Multi GSA-T20N ■ The DVD Super Multi drive employs a laser system. To ensure proper use of this product, please read this instruction manual carefully and retain for future reference. Should the unit ever require maintenance, contact an authorized service location.

[Page 13](#) P200 Panasonic DVD Super Multi UJ-850U ■ The DVD Super Multi drive employs a laser system. To ensure proper use of this product, please read this instruction manual carefully and retain for future reference. Should the unit ever require maintenance, contact an authorized service location.

[Page 14](#) P200 TEAC DV-W28EC ■ The drive employs a laser system. To ensure proper use of this product, please read this instruction manual carefully and retain for future reference. Should the unit ever require maintenance, contact an authorized service location. ■ Use of controls, adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure.

[Page 15](#) P200 International Precautions CAUTION: This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT". To use this model properly, read the instruction manual carefully and keep this manual for your future reference. In case of any trouble with this

model, please contact your nearest "AUTHORIZED service station".

[Page 16](#) P200 VORSICHT: DIE VERWENDUNG VON ANDEREN STEURUNGEN ODER EINSTELLUNGEN ODER DAS DURCHFÜHREN VON ANDEREN VORGÄNGEN ALS IN DER BEDIENUNGSANLEITUNG BESCHRIEBEN KÖNNEN GEFÄHRLICHE STRAHLENEXPOSITIONEN ZUR FOLGE HABEN. Modem warning notice Conformity Statement The equipment has been approved to [Commission Decision "CTR21"] for pan- European single terminal connection to the Public Switched Telephone Network (PSTN).

[Page 17: Important Notice](#)

General Precautions TOSHIBA computers are designed to optimize safety, minimize strain and withstand the rigors of portability. However, certain precautions should be observed to further reduce the risk of personal injury or damage to the computer.

[Page 18: Instruction Manual For Safety And Comfort](#)

P200 Heat injury ■ Avoid prolonged physical contact with the computer. If the computer is used for long periods, its surface can become very warm. While the temperature will not feel hot to the touch, if you maintain physical contact with the computer for a long time, for example if you rest the computer on your lap or if you keep your hands on the palm rest, your skin might suffer a low-heat injury.

[Page 19: Table Of Contents](#)

Special features 1-8 TOSHIBA Value Added Package1-10 Utilities and Applications.

[Page 20](#) TOSHIBA Disc Creator4-32...

[Page 21](#) TOSHIBA support

[Page 22: Manual Contents](#)

P200 Preface Congratulations on your purchase of the P200 computer. This powerful notebook computer provides excellent expansion capability, including multimedia devices, and it is designed to provide years of reliable, high- performance computing. This manual tells how to set up and begin using your P200 computer. It also provides detailed information on configuring your computer, basic operations and care, using optional devices and troubleshooting.

[Page 23](#) Chapter 6, Power and Power-Up Modes, gives details on the computer's power resources. Chapter 7, Setup, introduces you to the TOSHIBA Hardware Setup program. Chapter 8, Optional Devices, describes the optional hardware available. Chapter 9, Troubleshooting, provides helpful information on how to perform some diagnostic tests, and suggests courses of action if the computer doesn't seem to be working properly.

[Page 24: Equipment Checklist](#)

P200 Display Names of windows or icons or text generated by the computer that appears on its display screen is presented in the type face you see to the left. Messages Messages are used in this manual to bring important information to your attention.

[Page 25](#) The system may not function properly if you use drivers that are not pre- installed or distributed by TOSHIBA. SD Memory Card Format Utility and other SD functions are packaged into TOSHIBA SD Memory Utilities. When uninstalling the SD utilities, click Start Control Panel Uninstall a program, and select TOSHIBA SD Memory Utilities.

[Page 26: Chapter 1 P200 Features](#)

Basic features are described in a separate pamphlet. Some of the features described in this manual may not function properly if you use an operating system that was not pre-installed by TOSHIBA. Features Please visit your region's web site for the configuration details of the model that you have purchased.

[Page 27](#) P200 Features Chipset ® Mobile Intel 945GM/PM, 943GML Express Chipset T1 CardReader & 1394a Controller PCI8402 Realtek High Definition Audio Codec ALC861D Realtek 10M/100M/1Gbps LAN Controller RTL8111B, 10M/100M LAN Controller RTL8101E Memory The graphics system in your computer may use part of the main system memory for graphics performance and therefore reduce the amount of system memory available for other computing

activities.

[Page 28](#) P200 Features BIOS 1MB Flash ROM for system BIOS Suspend to memory or hard disk drive Various Hotkey functions for system control Complete ACPI 1.0b functionality Power Battery Pack 6-cell Lithium Ion smart battery pack with 10.8V*4000mAh 9-cell Lithium Ion smart battery pack with 10.8V*6000mAh Approximately 12 hours or longer charging time to 100% battery capacity with system switched on.

[Page 29](#) P200 Features TouchPad/Dual Mode Pad A TouchPad/Dual Mode Pad and control buttons in the palm rest enable control of the on-screen pointer. The Dual Mode Pad is a TouchPad that provides normal touchpad features in its default mode and switches to a DualMode interface when the upper right corner of the TouchPad is tapped.

[Page 30](#) P200 Features Disks Fixed hard disk 9.5mm 2.5" hard disk drive (60/80/100/120/160/200 GB) 12.5mm 2.5" hard disk drive (160/200/250/300 GB) Serial ATA 1.5 Gb/s Disclaimer (HDD Drive Capacity) For more information on the Disclaimer regarding HDD Drive Capacity, please refer to the Disclaimers section in Chapter 10.

[Page 31](#) P200 Features DVD Super Multi drive Some models are equipped with a full-size DVD supporting R Double Super Multi drive supporting \pm R Double Layer Layer module with dual layer support that lets you record data to rewritable CD/DVDs as well as run either 12cm (4.72") or 8cm (3.15") CD/DVDs without using an adapter.

[Page 32](#) P200 Features Express Card The Express Card expansion slot that can accommodate two standard module formats; an Express Card/34 module and an Express Card/54 module. An Express Card module is a small addin card technology based on the PCI Express and Universal Serial Bus (USB) interfaces.

[Page 33: Special Features](#)

Special features The following features are either unique to TOSHIBA computers or are advanced features, which make the computer more convenient to use. Hotkeys Key combinations that let you quickly modify the system configuration directly from the keyboard without running a system configuration program.

[Page 34](#) Power is restored when the hard disk is accessed. You can specify the time period in the TOSHIBA Power Saver utility. System Automatic This feature automatically places the system into...

[Page 35: Toshiba Value Added Package](#)

Do not remove the battery pack while the computer is in Sleep mode. Data in memory will be lost. TOSHIBA Value Added Package This section describes the TOSHIBA Component features pre-installed on the computer. TOSHIBA Power TOSHIBA Power Saver provides you with the...

[Page 36: Utilities And Applications](#)

The DVD player is used to play DVD Video media through an on-screen interface and functions. TOSHIBA ConfigFree ConfigFree is a suite of utilities to allow easy control of communication devices and network connections. ConfigFree also allows you to find...

[Page 37](#) This has the same function as the Lock button at the bottom of the right pane in the start menu. ■ TOSHIBA Assist: This can be used to open TOSHIBA Assist if it is already installed in your computer. User's Manual 1-12...

[Page 38: Options](#)

* The availability of DDRII is dependent on the model you purchased. Battery Pack An additional battery pack can be purchased from your TOSHIBA dealer. Use it as a spare to increase your computer operating time. High capacity battery An additional battery pack can be purchased from pack your TOSHIBA dealer.

[Page 39: Chapter 2 The Grand Tour](#)

The Grand Tour Chapter 2 The Grand Tour This chapter identifies the various components of your computer. Become familiar with each component before you operate the computer. Certain types of notebook chassis are designed to accommodate all possible configurations for

an entire product series. Your selected model may not have all the features and specifications corresponding to all of the icons or switches shown on the notebook chassis, unless you have selected all those features.

[Page 40](#) The Grand Tour Front Edge Logo* Front Edge Logo indicates the computer series you bought. (The availability of this function is dependent on the model you purchased.) DC IN LED The DC IN LED indicates the computer is connected to the AC adapter and it is plugged into an AC power source.

[Page 41: Right Side](#)

The Grand Tour Multiple Digital Media Card Slot* use media cards from digital still cameras and various forms of portable information equipment. (The availability of this function depends on the model you purchased.) Right side The following figure shows the computer's right side.

[Page 42: Left Side](#)

The Grand Tour Security Lock An optional security cable attaches to this port in order to anchor your computer to a desk or other large object to deter theft. Left side The following figure shows the computer's left side. DC IN 19V Jack Universal Serial Bus (USB) Port RGB Monitor Port TV Out Port...

[Page 43: Underside](#)

The Grand Tour i.LINK (IEEE1394a) This port allows you to connect an external Port device, such as a digital video camera, for high-speed data transfer. Express Card Slot This slot allows you to insert an Express Card. An Express Card module is a small, modular add-in card technology based on PCI Express and Universal Serial Bus (USB) interface.

[Page 44](#) The Grand Tour Battery Pack The battery pack powers the computer when the AC adapter is not connected. For detailed information on the battery pack, refer to Chapter 6, Power and Power-Up Modes. Fan Vent The fan vents help prevent the CPU from overheating.

[Page 45: Front With The Display Open](#)

The Grand Tour Front with the display open The following figure shows the front of the computer with the display open. To open the display, push the latch on the front of the display and lift it up. Position the display at a comfortable viewing angle. Display Screen Stop* Left and Right Speakers...

[Page 46](#) The Grand Tour TouchPad/Dual Mode The TouchPad/Dual Mode Pad pointing device is located in the centre of the palm rest and is used to control the on-screen pointer. Refer to the the Swipe the Finger section in Chapter 4, Operating Basics.

[Page 47: Keyboard Indicators](#)

The Grand Tour ® If Random or Shuffle is selected in Windows Media Player, selecting Next or Previous advances to a random selection. Number Pad Press the Number Lock button to activate the number pad. Use the number pad instead of the number buttons on the keyboard to enter numbers and ASCII codes.

[Page 48: Optical Disc Drive](#)

China Writable discs This section describes the types of writable discs. Check the specifications for your drive to for the type of discs it can write. Use TOSHIBA Disc Creator to write compact discs. Refer to Chapter 4, Operating Basics.

[Page 49](#) The Grand Tour CD-RW/DVD-ROM drive The full-size CD-RW/DVD-ROM drive module lets you record data to rewritable CDs as well as run either 12 cm (4.72") or 8 cm (3.15") discs without using an adapter. The read speed is slower at the centre of a disc and faster at the other edge.

[Page 50](#) Power and Power-Up Modes, for details. The AC adapter Use of the wrong adapter could damage your computer. TOSHIBA assumes no liability for any damage in such case. The output rating for the computer is 19 volts DC. Please use only the AC Adapter supplied with the computer or an AC adapter certified by TOSHIBA.

[Page 51: Chapter 3 Getting Started](#)

AC adapter to charge the battery pack, refer to Chapter 6, Power and Power-Up Modes. Use of the wrong adapter could damage your computer. TOSHIBA assumes no liability for any damage in such case. The output rating for the computer is 19 volts DC. User's Manual...

[Page 52](#) Getting Started 1. Connect the power cord to the AC adapter. Connecting the power cord to the AC adapter 2. Connect the DC output plug on the AC adapter to the DC IN input port on the back of the computer. Connecting the adapter to the computer 3.

[Page 53: Opening The Display](#)

Getting Started Opening the display The display panel can be rotated in a wide range of angles for optimal viewing. 1. Push the display latch on the front of the computer. Opening the display 2. Lift the panel up and adjust it to the best viewing angle for you. Use reasonable care when opening and closing the display panel.

[Page 54: Starting Up For The First Time](#)

Getting Started Starting up for the first time When you first turn on the power, the computer's initial screen is the ® Windows Vista Startup Screen Logo. Follow the on-screen directions for each screen. During setup, you can click the Back button to return to the previous screen.

[Page 55: Sleep Mode](#)

Getting Started Sleep Mode If you do have to interrupt your work, you are able to turn off the power without exiting from your software by placing the computer into Sleep Mode. In this mode data is maintained in the computer's main memory so that, when you turn on the power again, you can continue working right where you left off.

[Page 56: Hibernation Mode](#)

Getting Started Executing Sleep Mode You can enter also Sleep Mode by pressing Fn + F3 - please refer to Chapter 5, Keyboard, for further details. You can enter Sleep Mode in one of three ways: 1. Click Start then click the sleep button () located in the power management buttons (), or click the arrow button (...)

[Page 57: Starting Hibernation Mode](#)

Getting Started Benefits of Hibernation Mode The Hibernation Mode feature provides the following benefits: ■ Saves Data to the hard disk drive when the computer automatically shutdown because of a low battery condition. ■ You can return to your previous working environment immediately when you turn on the computer.

[Page 58: Restarting The Computer](#)

Getting Started Restarting the computer Certain conditions require that you reset the computer, for example if: ■ You change certain computer settings. ■ An errors and the computer does not respond you your keyboard commands. If you need to restart the computer, there are three ways this can be achieved: 1.

[Page 59: Restoring The Preinstalled Software From The Product Recovery Disc](#)

1. Load the Product Recovery disc in the drive and turn off the computer's power. 2. Switch on the computer and, when the In Touch with Tomorrow TOSHIBA prompt appears, press the F12 key to display the Boot Menu. 3. Use the cursor key to select the CD-ROM/DVD drive in the display menu.

[Page 60: Chapter 4 Operating Basics](#)

Operating Basics Chapter 4 Operating Basics This chapter gives information on basic operations including using the TouchPad/Dual Mode Pad, optical disc drives, the internal modem, LAN and wireless LAN. It also provides tips on caring for your computer and on heat dispersal.

[Page 61: Dual Mode Pad Button Function \(Dual Mode Pad Is Provided With Some Models\)](#)

Operating Basics The TouchPad/Dual Mode Pad has similar functions to a two-button mouse with a scroll wheel. For some functions, you can tap it instead of pressing a button. You can

customize pointing device actions in Mouse Properties. Open the Control Panel, select the Mouse icon and press Enter to open the Mouse Properties window.

[Page 62: Using The Fingerprint \(Fingerprint Sensor Is Provided With Some Models\)](#)

Operating Basics Configfree Configfree is a suite of utilities to allow easy control of communication devices and network connections. It also allows you to find communication problems and create profiles for easy switching between locations and communication networks. Windows Vista Photo Windows Vista Photo Gallery gives you many Gallery tools for your digital photos and videos.

[Page 63](#) Operating Basics How the Swipe the Finger Using the following steps when swiping fingers for FingerPrint registration or authentication will help to minimize authentication failures:
1. Align the first joint of the finger to the center of the sensor. Lightly touch the sensor and swipe finger levelly towards you.

[Page 64](#) Operating Basics Points to note about the FingerPrint Sensor Please be aware of the following considerations when using the FingerPrint sensor. A failure to follow these guidelines might result in damage to the sensor, sensor failure, FingerPrint recognition problems or a lower FingerPrint recognition success rate.

[Page 65: Points To Note About The Fingerprint Utility Software](#)

Toshiba does not guarantee that the FingerPrint sensor will recognize the enrolled user or accurately screen out unauthorized users at all times. Toshiba is not liable for any failure or damage that might arise out of the use of this FingerPrint recognition software or utility.

[Page 66: Set Up Procedure](#)

Operating Basics Please refer to the following procedures to back up. If Windows Vista™'s file encryption function EFS (Encryption File System) is used to encrypt a file, the file cannot be further encrypted using the encryption function of this software. In the help file, it is stated that this software's Password Bank function can be used for the Internet and general applications.

[Page 67: Window Logon Via Fingerprint Authentication](#)

Operating Basics 7. At the User's Fingers screen, select the finger you wish to enroll from the illustration and then click Next. On this screen please be aware that any previously enrolled FingerPrints would have green check marks, while the FingerPrint you are about to enroll will have a red check mark. If any of the previously enrolled FingerPrints is selected again, the latest information will be enrolled and any previous information over-written.

[Page 68: How To Enable Fingerprint Power-On Security Settings](#)

Operating Basics ■ You must ensure that you use the TOSHIBA Password Utility to register a User Password before using the FingerPrint Power-on Security and its extended function to allow FingerPrint to be used to access the computer when it is turned on.

[Page 69: Fingerprint Utility Limitations](#)

TOSHIBA does not guarantee that the FingerPrint utility technology will be completely secure or error-free or it will be accurately screen out unauthorized users at all times. TOSHIBA is not liable for any failure or damage that might arise out of the use of the FingerPrint software.

[Page 70: Using The Web Camera](#)

Operating Basics Using the Web Camera This section describes the bundled Web Camera utility, which can capture still and video images. The Web Camera will auto-run when Windows starts. Active LED Web Camera Lens User's Manual 4-11...

[Page 71: Using The Software](#)

Operating Basics Using the software The Web Camera software is pre-configured to start when you turn on Windows Vista; if you need to restart it go to Start Programs Camera Assistant Software Camera Assistant Software. Capture still images Display Window Video Recording Camera Resolution Audio Recording...

[Page 72: Using The Internal Modem](#)

Operating Basics Settings Choose from the: Options tab to change the tool position; the Picture tab to select picture output options such as size, export file and saving location; the Video tab to choose output settings such as Frame Rate, Size, Compression and the file save path;...

[Page 73: Region Selection](#)

1. Open the Modem Region Select application. It is located on the Programs menu at TOSHIBA Networking Modem Region Select.

[Page 74: Modem Selection](#)

Operating Basics Settings You can enable or disable the following settings: AutoRun Mode Region Select Utility starts automatically when you start up the operating system. Open the Dialling Properties dialogue box after selecting region. The dialling properties dialogue box will be displayed automatically after you select the region.

[Page 75: Lan](#)

If you find that the modem speed is low or communication is interrupted when you are using the modem, please set the CPU speed to Maximum within the TOSHIBA Power Saver utility. Disconnecting To disconnect the internal modem cable, follow the steps below.

[Page 76: Wireless Lan](#)

Operating Basics If you are using Ethernet LAN (10 megabits per second, 10BASE-T), you can connect using either a CAT5 or a CAT3 cable. If you are using 100BASE-TX Fast Ethernet or 1000BASE-T Gigabit Ethernet, you must connect using a CAT5 cable. To connect the LAN cable, follow the steps below.

[Page 77: Bluetooth Wireless Technology](#)

Internet is an open invitation for outsiders to abuse your ISP account and privileges. 2. TOSHIBA is not liable for the eavesdropping on your data due to the use of the wireless LAN connection and any damage that may occur thereof.

[Page 78: Product Support](#)

Please refer also to the electronic information which is included with each software. This Bluetooth™ Stack is based on Bluetooth™ Version 1.1/1.2/2.0+EDR specification. TOSHIBA cannot confirm compatibility between any PC products and/or other electronic devices that use Bluetooth™ other than TOSHIBA mobile PCs.

[Page 79: Using Optical Disc Drives](#)

Operating Basics Wireless communication LED The LED indicates the status of the wireless communication functions. LED status Indication LED off Wireless communication switch is set to off. LED glows Wireless communication switch is on. Using optical disc drives The illustrations in this section might differ slightly from your drive, but operation is the same for all optical disc drives.

[Page 80](#) Operating Basics Manual release with the eject hole 3. Grasp the drawer gently and pull until it is fully open. Pulling the drawer open 4. Lay the disc, label side up, in the drawer. Inserting a disc Be careful not to touch the lens or the area around it. Doing so could cause the drive to malfunction.

[Page 81](#) Operating Basics If the disc is not seated properly when the drawer is closed, it might be damaged. Also, the drawer might not open fully when you press the eject button. Closing the drive drawer Removing optical disc media To remove the disc, follow the steps below. Do not press the eject button while the computer is accessing the disc drive.

[Page 82](#) 2. "Button Support" white card fully appears. After double click this card, the dialog for changing button function is displayed. 3. Change function of Buttons. Or you can go to 1. Start/All programs/TOSHIBA/Utilities and select Toshiba Assist. 2. Choose optimize from left panel then select TOSHIBA Button Controls.

[Page 83: Writing Cds On A Cd-Rw/Dvd-Rom Drive](#)

MITSUBISHI CHEMICAL CORPORATION RICOH Co., Ltd. Hitachi Maxell Ltd. CD-RW: MITSUBISHI CHEMICAL CORPORATION RICOH Co., Ltd. TOSHIBA has confirmed the operation of CD-R and CD-RW media of the manufacturers above. Operation of other media cannot be guaranteed. User's Manual 4-24...

[Page 84: When Writing Or Rewriting](#)

Write from the computer's hard disk drive to the CD. Do not try to write from shared devices such as a LAN server or any other network device. ■ Writing with software other than TOSHIBA Disc Creator has not been confirmed. Therefore, operation with other software cannot be guaranteed.

[Page 85: Writing Cds/Dvds On A Dvd Super Multi Drive Supporting Double Layer Disc Recording](#)

Based on TOSHIBA's limited compatibility testing, we suggest the following manufacturers of CD-R/RW and DVD-R/+R/-RW/+RW/-RAM media. However, in no event does TOSHIBA guarantee the operation, quality or performance of any disc. Disc quality can affect write or rewrite success rates.

[Page 86](#) Operating Basics CD-R: TAIYOYUDEN CO., LTD. MITSUBISHI CHEMICAL CORPORATION RICOH Co., Ltd. Hitachi Maxell Ltd. CD-RW: MITSUBISHI CHEMICAL CORPORATION RICOH Co., Ltd. DVD-R: DVD Specifications for Recordable Disc for General Version 2.0 TAIYOYUDEN CO., LTD. Matsushita Electric Industrial Co., Ltd. DVD-RW: DVD Specifications for Re-recordable Disc for Version 1.1 or Version 1.2...

[Page 87](#) Operating Basics ■ We can support only Format 1 of DVD-R DL. Therefore you can not do the additional writing. If your data is under DVD-R (SL) capacity, we suggest to use DVD-R (SL) media. ■ You can use DVD-RAM discs that can be removed from a cartridge and DVD-RAM discs designed without a cartridge.

[Page 88](#) Operating Basics ■ Writing with software other than TOSHIBA Disc Creator or Ulead DVD ® MovieFactory for TOSHIBA has not been confirmed. Therefore, operation with other software cannot be guaranteed. When writing or rewriting Please observe/consider the following when you write or rewrite to a CD-R/RW, DVD-R/-RW/-RAM or DVD+R/+RW disc.

[Page 89: When Using Ulead Dvd Moviefactory® For Toshiba](#)

DV-Camcorder: 1. Click Start All Programs DVD MovieFactory for TOSHIBA Ulead DVD MovieFactory for TOSHIBA Launcher to launch DVD MovieFactory. 2. Insert a DVD-RW or DVD+RW disc in Burner. 3. Click Video Disc Burn Video to Disc to launch Direct Recording dialog box, choose DVD-Video/+VR to invoke Straight Capture to Disc Page.

[Page 90: Important Information For Use](#)

Operating Basics Important information for use Note the following limitations when you write video DVD: 1. Editing digital video ■ Log in with Administrator rights to use DVD MovieFactory. ■ Make sure that your computer is running on AC power when using DVD MovieFactory ■...

[Page 91: Toshiba Disc Creator](#)

TOSHIBA Disc Creator cannot record in packet format. ■ You might not be able to use the "Disc Backup" function of TOSHIBA Disc Creator to backup a DVD-R/-RW or DVD+R/+RW disc that was made with other software on a different DVD-R/-RW or DVD+R/+RW recorder.

[Page 92: Media Care](#)

Operating Basics ■ When you back up a DVD disc, be sure the source drive supports recording to DVD-R/-RW or DVD+R/+RW discs. If the source drive does not support recording to DVD-R/-RW or DVD+R/+RW discs, it might not be backed up correctly. ■...

[Page 93: Disks](#)

Operating Basics Disks 1. Store your disks in the container they came in to protect them and keep them clean. If a disk is dirty, do not use cleaning fluid. Clean it with a soft damp cloth. 2. Do not slide back the disk's protective metal covering or touch the disk's magnetic surface.

[Page 94: Cleaning The Computer](#)

Operating Basics If an external display will not be connected next time you use your computer, you should cancel any extended desktop or clone display settings before shutting down your computer. Clone display settings are those where more than one device has been selected and is simultaneously applicable.

[Page 95: Moving The Computer](#)

Operating Basics Moving the computer The computer is designed for rugged durability. However, a few simple precautions taken when moving the computer will help ensure trouble-free operation. ■ Make sure all disk activity has ended before moving the computer. Check the Built-in Hard Disk Drive and optical disc drive indicators on the computer.

[Page 96: Chapter 5 The Keyboard](#)

The Keyboard Chapter 5 The Keyboard The computer's keyboard layouts are compatible with a 104/105-key enhanced keyboard. By pressing some keys in combination, all the 104/105-key keyboard functions can be executed on the computer. The number of keys on your keyboard depends on which country/region's keyboard layout your computer is configured with.

[Page 97: F1 ... F12 Function Keys](#)

Soft keys: Fn key combinations The Fn (function) is unique to TOSHIBA computers and is used in combination with other keys to form soft keys. Soft keys are key combinations that enable, disable or configure specific features.

[Page 98: Hotkeys](#)

2 key while holding down the Fn key. Before using Fn + 1 and Fn + 2, you must install the TOSHIBA Zooming Utility. Please be aware that this 'zooming' function is only available within Microsoft Internet Explorer, Microsoft Office, Windows Media Player and Adobe Reader, and for the icons on the desktop.

[Page 99: Windows Special Keys](#)

The Keyboard Windows special keys The keyboard provides two keys that have special functions in Windows Vista. One activates the Start menu and the other has the same function as the secondary mouse button. This key activates the Windows Vista Start menu This key has the same function as the Right mouse button.

[Page 100: Chapter 6 Power And Power-Up Modes](#)

Power and Power-Up Modes Chapter 6 Power and Power-Up Modes The computer's power resources include the AC adapter and internal batteries. This chapter gives details on making the most effective use of these resources including charging and changing batteries, tips for saving battery power, and power up modes.

[Page 101: Power Indicators](#)

DC IN off Battery capacity Computer goes into exhausted Hibernation or shuts down (depending on the TOSHIBA Power Saver setting) No battery • No operation installed • LED: Battery off DC IN off * The LED is dependent on the model you purchased.

[Page 102: Battery Types](#)

Power and Power-Up Modes DC IN indicator Check the DC IN indicator to determine the power status with the AC adapter connected: Blue Indicates the AC adapter is connected and is correctly supplying power to the computer. No light Indicates the AC adapter is not connected. Power indicator Check the Power indicator to determine the power status with the AC adapter connected:...

[Page 103: Real Time Clock Battery](#)

Press <F1> to resume, <F2> to Setup. The computer's RTC battery is a lithium battery and should be replaced only by your dealer or by a TOSHIBA service representative. The battery can explode if not properly replaced, used, handled or disposed of.

[Page 104: Care And Use Of The Battery Pack](#)

Power and Power-Up Modes Care and use of the battery pack The battery pack is a vital component of portable computing. Taking proper care of it will help ensure longer operating time on battery power as well as a longer life for your battery pack. Follow the instructions in this section carefully to ensure safe operation and maximum performance.

[Page 105](#) Never use the computer again until it has been checked by a TOSHIBA service provider. It might generate smoke or fire, or the battery pack might rupture. 3. Make sure the battery is securely installed in the computer before attempting to charge the battery pack.

[Page 106: Charging The Batteries](#)

Power and Power-Up Modes 6. Be sure to monitor the remaining battery power. If the battery pack or real time clock battery discharge completely, Sleep Mode will not function, and data in memory will be lost, and the computer might register an incorrect time and date.

[Page 107: Battery Charging Notice](#)

Power and Power-Up Modes Time The following table shows the time required to fully charge a discharged battery. Charging time (hours) Battery type Power on Power off Battery pack about 12 or longer about 4 or longer RTC battery about 24 about 24 with AC or Battery pack The charging time when the computer is on is affected by ambient...

[Page 108: Monitoring Battery Capacity](#)

Power and Power-Up Modes Leaving the AC adapter connected will shorten battery life. At least once a week, run the computer on battery power until the battery is fully discharged, then recharge the battery. Monitoring battery capacity Remaining battery power can be monitored using the following methods. ■...

[Page 109: Replacing The Battery Pack](#)

Power and Power-Up Modes Retaining data with power off (sleep mode) When you turn off your computer with fully charged batteries, the batteries retain data/charge for the following approximate time periods: Battery Approximately 1.5days(Sleep mode,9-cell) Approximately 1 days (Sleep mode,6-cell) Approximately 1 month (Shut down mode, all type of battery packs) RTC battery...

[Page 110: Installing The Battery Pack](#)

The battery pack is a lithium ion battery, which can explode if not properly replaced, used, handled or disposed of. Dispose of the battery as required by local ordinances or regulations. Use only batteries recommended by TOSHIBA as replacements. 1. Turn the computer's power off. 2. Disconnect all cables connected to the computer.

[Page 111: Toshiba Password Utility](#)

4. Gently slide the battery into the battery bay until the latch clicks into place. Installing the battery pack TOSHIBA Password Utility The TOSHIBA Supervisor Password Utility provides two levels of password security: User and Supervisor. Passwords set in TOSHIBA Supervisor Password Utility are different from ®...

[Page 112: Supervisor Password](#)

Power and Power-Up Modes Supervisor password If you set a supervisor password, some functions will be restricted when a user logs on with the user password. To set a supervisor password: TOSHIBA Assist SECURE Supervisor password This utility lets you do the following: ■...

[Page 113: Power-Up Modes](#)

Power and Power-Up Modes Power-up modes The computer has three power-up modes: ■ Hibernation (saves data in memory to the hard disk) ■ Sleep (power remains on, maintaining the data in memory, but the CPU and all other devices effectively enter a 'sleep' mode) ■...

[Page 114: Chapter 7 Hw Setup](#)

General, Password, Display, Boot Priority, Keyboard, CPU, LAN, and USB. Accessing HW Setup Start, point to All Programs, point to TOSHIBA, point to Utilities and click HWSSetup. HW Setup Window The HW Setup window contains the following tabs: General, Password, Display, Boot

Priority, Keyboard, LAN, and USB.

[Page 115](#) **HW Setup Password** This tab allows you to set or reset the user password for power on. **Display** This tab lets you customize your computer's display settings for either the internal LCD screen or for an external monitor. **Power On Display** This option allows you to select the display to be used when the computer is switched on.

[Page 116: Boot Priority](#)

HW Setup Boot Priority **Boot Priority Options** This option sets the priority for booting the computer. Select the boot priority from the drop down list. You can override the settings and manually select a boot device by pressing one of the following keys while the computer is booting: **Selects the USB floppy disk drive.**

[Page 117](#) **HW Setup Wake-up on LAN** This feature lets the computer's power be turned on when it receives a wake-up signal from the LAN. **Enabled** Enables Wake-up on LAN. **Disabled** Disables Wake-up on LAN (Default). The Wake-up LAN function support AC adapter mode only, before you plan to use this function please make sure your AC power source is connected to system properly.

[Page 118: Chapter 8 Optional Devices](#)

Optional Devices Chapter 8 Optional Devices Optional devices can expand the computer's capabilities and its versatility. This chapter describes connection or installation of the following types of devices, which are available from your TOSHIBA dealer: **Cards/Memory** ■ **Express Card** ■...

[Page 119: Installing An Express Card](#)

Optional Devices Installing an Express Card One Express Card connector is located on the left side of the computer. The computer's hot-install feature lets you install Express Card while the computer's power is on. To install an Express Card, follow the steps below. 1.

[Page 120: Sd/Sdhc/Mmc/Ms/Ms Pro/Xd Memory Cards](#)

Optional Devices SD/SDHC/MMC/MS/MS Pro/xD Memory cards The computer is equipped with a multiple digital media card slot that can accommodate SD/SDHC/MMC/MS/MS Pro/xD memory cards. These memory cards let you easily transfer data from devices, such as digital cameras and Personal Digital Assistants, which use flash-memory. **Card Type Capacities up to 2GB...**

[Page 121: Installing A Memory Card](#)

Optional Devices Installing a memory card To install a memory card: 1. Insert the memory card. 2. Press gently to ensure a firm connection. **Inserting a memory card** Make sure the memory card is oriented properly before you insert it. If ®...

[Page 122: Memory Expansion](#)

In this case the computer will issue a warning. **CAUTION:** If you want to upgrade system memory, you should only use certified modules. Ask your vendor or check the TOSHIBA web site for a list of approved memory products. **User's Manual...**

[Page 123](#) **Optional Devices** Insert the two memory modules of the same specifications and capacity into Slot A and Slot B respectively. The computer will operate in dual channel mode. You can access the inserted memory modules efficiently in dual channel. **Installing Memory on Bottom Side** If you use the computer for a long time, the memory modules will become hot.

[Page 124](#) **Optional Devices** Do not touch the connectors on the memory module or on the computer. Debris on the connectors may cause memory access problems. 7. Push the module down so it lies flat. Latches on either side will click into place to secure the module.

[Page 125: Additional Battery Pack](#)

Optional Devices 5. Grasp the module and pull it out. Do not touch the connectors on the memory module or on the computer. Debris on the connectors may cause memory access problems. **Latch** Removing the memory module 6. Seat the cover and secure its screw. 7.

[Page 126: External Monitor](#)

Optional Devices External monitor An external analog monitor can be connected to the external monitor port on the computer. To connect a monitor, follow the steps below. 1. Turn the computer off. 2. Connect the monitor to the external monitor port. 3.

[Page 127](#) Optional Devices 3. Click the Advanced Settings button. The (Multiple Monitors) and ® Mobile Intel 945GM/943GML Express Chips Family dialogue box opens. 4. Click the Graphics Properties button. User's Manual 8-10...

[Page 128](#) Optional Devices 5. In the subsequent dialogue box, click Display Devices and then set up your television and notebook displays. For nVidia 1. Click Start Control Panel Appearance and Personalization Personalization. 2. Choose Display Settings. User's Manual 8-11...

[Page 129](#) Optional Devices 3. Click the Advanced Settings button. The Generic PnP Monitor and NVIDIA GeForce Go 7600 Properties dialogue box opens. 4. Click Start the NVIDIA Control Panel. User's Manual 8-12...

[Page 130](#) Optional Devices 5. Click Display item. 6. Click Change Display Configuration item. User's Manual 8-13...

[Page 131: I.link \(Ieee1394A\)](#)

Optional Devices 7. Setup your television and notebook display. i.LINK (IEEE1394a) i.LINK (IEEE1394a) is used for high-speed data transfer for a range of compatible devices such as: ■ Digital video cameras ■ Hard disk drives ■ MO drives ■ Optical disc drives i.LINK uses a four-pin connector, which does not carry electric current.

[Page 132: Security Lock](#)

Optional Devices Connecting 1. Make sure the connectors are properly aligned and plug the i.LINK (IEEE1394a) cable into the computer. 2. Plug the other end of the cable into the device. Note the following when you use i.LINK: ■ You may need to install drivers for your i.LINK devices. ■...

[Page 133: Troubleshooting](#)

Troubleshooting Chapter 9 Troubleshooting TOSHIBA designed the computer for durability. However, should problems occur, following the procedures in this chapter can help to determine the cause. All readers should become familiar with this chapter. Knowing what might go wrong can help prevent problems from occurring.

[Page 134: Preliminary Checklist](#)

Troubleshooting Preliminary checklist Consider the simplest solution first. The items in this checklist are easy to fix and yet can cause what appears to be a serious problem. ■ Make sure you turn on all peripheral devices before you turn on the computer.

[Page 135: Hardware And System Checklist](#)

Troubleshooting Record your observations so you can describe them to your dealer. Software The problems may be caused by your software. If you cannot load a software package, the media may be damaged or the program might be corrupted. Try loading another copy of the software.

[Page 136: Self Test](#)

If any of the following conditions are present, the self test failed: ■ The computer stops and does not proceed to display information or messages except the TOSHIBA logo. ■ Random characters appear on the screen, and the system does not function normally.

[Page 137](#) Troubleshooting AC power If you have trouble turning on the computer with the AC adapter connected, check the DC IN indicator. Refer to Chapter 6, Power and Power-Up Modes, for more information. Problem Procedure AC adapter doesn't Check the connections. Make sure the cord is power the computer firmly connected to the computer and a power (DC IN indicator does...

[Page 138](#) Troubleshooting Problem Procedure Battery doesn't charge If the battery is

completely discharged, it will not when the AC power begin charging at once. Wait a few minutes. cord is attached. If the battery still does not charge, make sure the (Battery indicator does outlet is supplying power.

[Page 139](#) Troubleshooting LCD panel Problem Procedure Lines appear broken. Check if you are in DOS mode. In DOS, lines may appear broken, because of the LCD screen's higher resolution. The Windows display should appear normal. No display Press the Hotkey Fn + F5 to change the display priority and ensure it is not set for an external monitor.

[Page 140](#) Troubleshooting i.LINK (IEEE1394) Problem Procedure i.LINK device does not Make sure the cable is securely connected to the function computer and to the device. Make sure the device's power is turned on. Reinstall the drivers. Open the Windows Control Panel and double-click the Add New Hardware icon.

[Page 141: Sound System](#)

Troubleshooting Problem Procedure Monitor goes into Check your monitor specification. It might not panning mode support the selected resolution and refresh rate. The resolution on the monitor might go into panning mode when wide screen resolution is selected. Refer to Appendix B, Display Modes.

[Page 142: Usb Mouse](#)

Troubleshooting Problem Procedure The mouse pointer Try changing the speed setting in the mouse moves too fast or too control utility. slow 1. Open the Control Panel, select the Mouse icon and press Enter. 2. Click the Pointer Options tab. 3.

[Page 143: Tv Output Signal](#)

Troubleshooting Refer also to your USB device's documentation. Problem Procedure USB device does not Check for a firm cable connection between the work USB ports on the computer and the USB device. Make sure the USB device drivers are properly installed.

[Page 144](#) Troubleshooting Sleep/Hibernation Problem Procedure The system will not Is Windows Media Player open? The system enter Sleep/Hibernation might not enter Sleep/Hibernation, if Windows Media Player is either playing a selection or finished playing a selection. Close Windows Media Player before you select Sleep/Hibernation.

[Page 145](#) Troubleshooting Problem Procedure After making a call you Make sure the tone or pulse selection in your can't hear a ring communications application is set correctly. Communication is cut The computer will automatically cut off off unexpectedly communication when connection with the carrier is not successful for a set time interval.

[Page 146](#) Tour. Cannot write correctly If you have trouble writing, make sure you are observing the following precautions: ■ Use only media recommended by TOSHIBA. ■ Do not use the mouse or keyboard during writing. ■ Use only the software supplied with the computer for recording.

[Page 147](#) Troubleshooting DVD Super Multi drive with double layer disc recording support For more information, refer to Chapter 4, Operating Basics. Problem Procedure You cannot access a Make sure the drive's drawer is securely closed. disc in the drive Press gently until it clicks into place. Open the drawer and make sure the disc is properly seated.

[Page 148: Disk Drive](#)

Procedure Cannot write correctly If you have trouble writing, make sure you are observing the following precautions: ■ Use only media recommended by TOSHIBA. ■ Do not use the mouse or keyboard during writing. ■ Use only the software supplied with the computer for recording.

[Page 149: Fingerprint Sensor](#)

1. Make sure you have enroll finger in windows Fingerprint Power on account. Security does not work 2. Set the User Password by using TOSHIBA Password Utility and restart the system. 3. Make sure place a checkmark in Replace the power-on and hard drive passwords with the fingerprint reader on the Protector Suite QL setting.

[Page 150: Toshiba Support](#)

Troubleshooting TOSHIBA support If you require any additional help using your computer or if you are having problems operating the computer, you may need to contact TOSHIBA for additional technical assistance. Before you call Some problems you experience may be related to software or the operating system, it is important to investigate other sources of assistance first.

[Page 151: Disclaimers](#)

Disclaimers Chapter 10 Disclaimers This chapter states the Disclaimer(s) information applicable to TOSHIBA computers. Central Processing Unit ("CPU") Performance Disclaimer. CPU performance in your computer product may vary from specifications under the following conditions: ■ use of certain external peripheral products ■...

[Page 152: Memory \(Main System\)](#)

Published battery life numbers are achieved on select models and configurations tested by Toshiba at the time of publication. Recharge time varies depending on usage. Battery may not charge while computer is consuming full power.

[Page 153: Lcd](#)

Disclaimers Over a period of time, and depending on the usage of the computer, the brightness of the LCD screen will deteriorate. This is an intrinsic characteristic of LCD technology. Maximum brightness is only available when operating in AC power mode. The screen will dim when the computer is operated on battery power and you will not be able to increase the brightness of the screen.

[Page 154: Lcd Brightness And Eye Strain](#)

Disclaimers LCD Brightness and Eye Strain Your LCD display has a brightness approaching that of a TV device. We recommend that you adjust the brightness of your LCD to a comfortable level to prevent possible strain on your eyes. User's Manual 10-4...

[Page 155: Specifications](#)

Specifications Appendix A Specifications This appendix summarizes the computer's technical specifications. Dimensions 399mm (W) x 288mm (D) x 46.5mm (H. Max.) 288mm 36mm 46.5mm User's Manual...

[Page 156: Environmental Requirements](#)

Specifications Weight Starting at 7.2 lbs / 3.27 kg * Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected. Environmental Requirements Conditions Ambient temperature Relative humidity Operating 5°C to 35°C 20% to 80% Non-operating -20°C to 65°C Conditions Altitude (from sea level) Operating...

[Page 157](#) Specifications Communication Data transmission and reception Speed

300/1200/2400/4800/7200/9600/12000/14400/
16800/19200/21600/24000/26400/28800/31200/ 33600 bps Data reception only with V.90/V.92
28000/29333/30666/32000/33333/34666/36000/
37333/38666/40000/41333/42666/44000/45333/
46666/48000/49333/50666/52000/53333/54666/ 56000 bps Fax:
2400/4800/7200/9600/12000/14400 bps Error correcting MNP class 4 and ITU-T V.42 Data
compression MNP class 5 and ITU-T V.42bis User's Manual...

[Page 158: Display Modes](#)

Display Modes Appendix B Display Modes This appendix contains a table listing all the display modes when the display is set to an external monitor. If you are running some applications (for example a 3D application or video playback and so on), you may see some disturbance, flickering or frame dropping on your screen.

[Page 159: Displaying Movies On A Tv Or Crt](#)

Display Modes Displaying movies on a TV or CRT This section describes how to set up your system to display movies simultaneously on your computer's LCD and on an external TV or CRT

monitor. To connect a television, follow the steps below. 1.

[Page 160](#) Display Modes 4. Click the Graphics Properties button. 5. In the subsequent dialogue box, click Display Devices and then set up your television and notebook displays. User's Manual...

[Page 161](#) Display Modes For nVidia 1. Click Start Control Panel Appearance and Personalization Personalization. 2. Choose Display Settings. User's Manual...

[Page 162](#) Display Modes 3. Click the Advanced Settings button. The Generic PnP Monitor and NVIDIA GeForce Go 7600 Properties dialogue box opens. 4. Click Start the NVIDIA Control Panel. User's Manual...

[Page 163](#) Display Modes 5. Click Display item. 6. Click Change Display Configuration item. 7. Setup your television and notebook display. User's Manual...

[Page 164: Ac Power Cord And Connectors](#)

AC Power Cord and Connectors Appendix C AC Power Cord and Connectors The power cord's AC input plug must be compatible with the various international AC power outlets and the cord must meet the standards for the country/region in which it is used. All cords must meet the following specifications: Length: Minimum 1.7 meters...

[Page 165](#) AC Power Cord and Connectors For the United States and Canada, two pin plug configuration must be a 2-15P (250V) or 1-15P (125V) and three pin plug configuration must be 6-15P (250V) or 5-15P (125V) as designated in the U. S. National Electrical code handbook and the Canadian Electrical Code Part II.

[Page 166: If Your Computer Is Stolen](#)

What is your address, phone, and fax number? To register the theft on paper, please follow these procedures: ■ Fill in the TOSHIBA Theft Registration form (or a copy of it) below. ■ Attach a copy of your receipt showing where your computer was purchased.

[Page 167: Toshiba Theft Registration](#)

If your computer is stolen TOSHIBA Theft Registration Send to: TOSHIBA Europe GmbH Technical Service and Support Leibnizstr. 2 93055 Regensburg Germany Fax number: +49 (0) 941 7807 921 Country stolen: Machine type: (e.g. P200) Model number: (e.g. PSA30 YXT) Serial number: (e.g.

[Page 168](#) Glossary Glossary The terms in this glossary cover topics related to this manual. Alternate naming is included for reference. Abbreviations AC: alternating current AGP: accelerated graphics port BIOS: basic input output system CD-ROM: Compact Disc-Read Only Memory CD-RW: Compact Disc-Read/Write CMOS: complementary metal-oxide semiconductor CPU: central processing unit CRT: cathode ray tube...

[Page 169](#) Glossary ROM: read only memory RTC: real time clock SCSI: small computer system interface TFT: thin-film transistor USB: Universal Serial Bus VESA: Video Electronic Standards Association VGA: video graphics array WXGA+: wide extended graphics array adaptor: A device that provides an interface between two dissimilar electronic devices.

[Page 170](#) Glossary cache memory: High speed memory which stores data that increases processor speed and data transfer rate. When the CPU reads data from main memory, it stores a copy of this data in cache memory. The next time the CPU needs that same data, it looks for it in the cache memory rather than the main memory, which saves time.

[Page 171](#) Glossary CRT: Cathode Ray Tube. A vacuum tube in which beams projected on a fluorescent screen-producing luminous spots. An example is the television set. cursor: A small, blinking rectangle or line that indicates the current position on the display screen. DC: Direct Current.

[Page 172](#) Glossary format: The process of readying a blank disk for its first use. Formatting establishes the structure of the disk that the operating system expects before it writes files or programs onto the disk. function keys: The keys labeled F1 through F12 that tell the computer

to perform certain functions.

[Page 173](#) Glossary Light Emitting Diode (LED): A semiconductor device that emits light when a current is applied. Liquid Crystal Display (LCD): Liquid crystal sealed between two sheets of glass coated with transparent conducting material. The viewing-side coating is etched into character forming segments with leads that extend to the edge of the glass.

[Page 174](#) Glossary parity: 1) The symmetrical relationship between two parameter values (integers) both of which are either on or off; odd or even; 0 or 1. 2) In serial communications, an error detection bit that is added to a group of data bits making the sum of the bits even or odd. Parity can be set to none, odd, or even.

[Page 175](#) TFT display: A liquid crystal display (LCD) made from an array of liquid crystal cells using active-matrix technology with thin film transistor (TFT) to drive each cell. TouchPad/Dual Mode Pad: A pointing device integrated into the TOSHIBA computer palm rest. Universal Serial Bus: This serial interface lets you communicate with several devices connected in a chain to a single port on the computer.

This manual is also suitable for:

[P200 series](#)