

TOSHIBA

Toshiba P500 User Manual

Portable personal computer

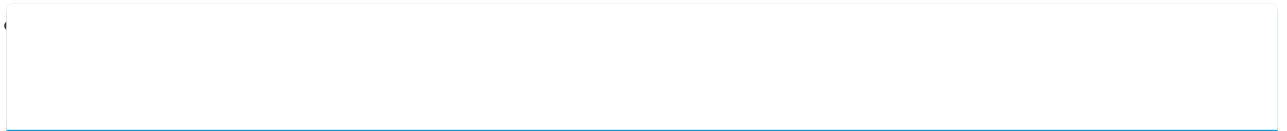
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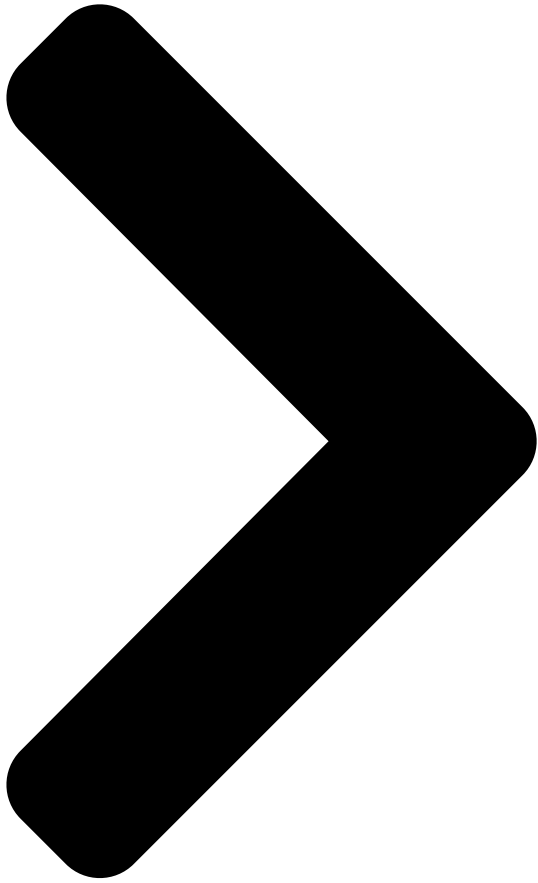
Troubleshooting

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Bookmarks

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User's Manual

P500/P500D/X500

computers.toshiba-europe.com

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(288 pages)

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

P500-st5801 user's guide (254 pages)

[Laptop Toshiba P505 S8970 - Satellite - Core 2 Duo 2.2 GHz User Manual](#)

User's guide for satellite p500/p505 series (253 pages)

[Laptop Toshiba Satellite P500 User Manual](#)

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[Laptop Toshiba Qosmio X500 Maintenance Manual](#)

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[Laptop Toshiba X500-Q840S User Manual](#)

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[Laptop Toshiba Qosmio X500-Q930x Specifications](#)

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Summary of Contents for Toshiba P500

[Page 1](#) User's Manual P500/P500D/X500 computers.toshiba-europe.com...

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[Page 3](#) Adobe Systems Incorporated. Bluetooth™ is a registered trademark owned by its proprietor and used by TOSHIBA under license. ConfigFree is a trademark of TOSHIBA

Corporation. WinDVD is a trademark of Corel Corporations. DVD MovieFactory is a registered trademark of Corel Corporation.

[Page 4: 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 5](#) For more detailed information about the collection and recycling programmes available in your country, please visit our website (<http://eu.computers.toshiba-europe.com>) or contact your local city office or the shop where you purchased the product. User's Manual...

[Page 6](#) For more detailed information about the collection and recycling programmes available in your country, please visit our website (<http://eu.computers.toshiba-europe.com>) or contact your local city office or the shop where you purchased the product. This symbol may not be displayed depending on the country and region where you purchased.

[Page 7](#) The new European Union (EU) chemical regulation, REACH (Registration, Evaluation, Authorization and Restriction of Chemicals), entered into force on 1 June 2007. Toshiba will meet all REACH requirements and is committed to provide our customers with information about the chemical substances in our products according to REACH regulation.

[Page 8: Following Information Is Only For Turkey](#)

TOSHIBA P500/P500D/X500 Following information is only for Turkey: ■ Compliant with EEE Regulations: Toshiba meets all requirements of Turkish regulation 26891 "Restriction of the use of certain hazardous substances in electrical and electronic equipment". ■ The number of possible pixel failures of your display is defined according to ISO 13406-2 standards.

[Page 9: Optical Disc Drive Safety Instructions](#)

TOSHIBA P500/P500D/X500 Optical disc drive safety instructions Be sure to check the international precautions at the end of this section. Panasonic BD-R/RE UJ240 ■ The BD-R/RE drive employs a laser system. To ensure proper use of this product, please read this instruction manual carefully and retain for future reference.

[Page 10](#) TOSHIBA P500/P500D/X500 Hitach-LG Data Storage DVD Super Multi GT20N/GT20F ■ 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](#) TOSHIBA P500/P500D/X500 TOSHIBA SAMSUNG STORAGE TECHNOLOGY DVD Super Multi TS-L633C/TS-L633Y ■ This dvd writable 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-see service procedure.

[Page 12](#) TOSHIBA P500/P500D/X500 Panasonic DVD Super Multi UJ890AD/UJ890ED with Labelflash™ ■ 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](#) TOSHIBA P500/P500D/X500 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...

[Page 14](#) TOSHIBA P500/P500D/X500 OBS! Apparaten innehåller laserkomponent som avger laserstråling överstigande gränsen för laserklass 1. VAROITUS. Suojakoteloä si saa avata. Laitte sisältää laserdiodin, joka lähettää näkymätöntä silmilie vaarallista lasersäteilyä. CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED IN THE OWNER'S...

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Special features 1-10 TOSHIBA Value Added Package1-12 Utilities and Applications.

[Page 16](#) TOSHIBA DVD Player

[Page 17](#) TOSHIBA support

[Page 18: Manual Contents](#)

This manual tells you how to set up and begin using your TOSHIBA P500/ P500D/X500 computer. It also provides detailed information on configuring your computer, basic operations and care, using optional devices and troubleshooting.

[Page 19](#) TOSHIBA P500/P500D/X500 Chapter 5, Keyboard, describes special keyboard functions including hot keys. Chapter 6, Power and Power-Up Modes, gives details on the computer's power resources and battery save modes. Chapter 7, HW Setup explains how to configure the computer using the HW Setup program.

[Page 20](#) TOSHIBA P500/P500D/X500 Key operation Some operations require you to simultaneously use two or more keys. We identify such operations by the key top symbols separated by a plus sign (+). For example, Ctrl + C means you must hold down Ctrl and at the same time press C.

[Page 21: General Precautions](#)

TOSHIBA P500/P500D/X500 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. Be certain to read the general precautions below and to note the cautions included in the text of the manual.

[Page 22](#) TOSHIBA P500/P500D/X500 Creating a computer-friendly environment Place the computer on a flat surface that is large enough for the computer and any other items you are using, such as a printer. Leave enough space around the computer and other equipment to provide adequate ventilation.

[Page 23: Instruction Manual For Safety And Comfort](#)

TOSHIBA P500/P500D/X500 Mobile phones Please be aware that the use of mobile phones can interfere with the audio system. The operation of the computer will not be impaired in any way, but it is recommended that a minimum distance of 30cm is maintained between the computer and a mobile phone that is in use.

[Page 24: Introduction](#)

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. Equipment checklist Carefully unpack your computer. Save the box and packing materials for future use.

[Page 25: Features](#)

TOSHIBA SD Memory Utilities ■ TOSHIBA Disc Creator ■ TOSHIBA Recovery Media Creator ■ TOSHIBA Face Recognition ■ WinDVD BD for TOSHIBA (Provided with some models) ® ■ Corel DVD MovieFactory for TOSHIBA (Provided with some models) ■ TOSHIBA PC Health Monitor ■...

[Page 26](#) Introduction Disclaimer (CPU) For more information regarding the CPU, please refer to Appendix E, Disclaimers. Memory Slots 1024 MB, 2048 MB or 4096 MB memory modules can be installed in the two memory slots for a maximum system memory size of 8 GB. The system memory size and speed depend on the model you purchased.

[Page 27](#) Introduction Power Battery Pack Your computer is powered by a rechargeable lithium-ion battery pack. Disclaimer (Battery Life) For more information regarding Battery Life, please refer to Appendix E, Disclaimers. RTC Battery The internal RTC battery backs up the Real Time Clock and calendar.

[Page 28](#) Introduction BD-R/RE drive Some models are equipped with a full-size BD-R/ RE drive

module that lets you record data to rewritable CD/DVD/BDs. It reads BD-ROM discs at maximum 6 speed, BD-ROM (DL) discs at maximum 6 speed, DVD-ROMs at maximum 8 speed and CD-ROMs at maximum 24 speed.

[Page 29](#) Introduction DVD Super Multi drive Some models are equipped with a full-size DVD Super Multi drive module that lets you record data to rewritable CD/DVDs. It reads DVD-ROMs at maximum 8 speed and CD-ROMs at maximum 24 speed. It writes CD-Rs at up to 24 speed, CD-RWs at up to 24 speed, DVD-Rs at maximum 8 speed, DVD-RWs at maximum 6 speed, DVD+Rs at maximum 8 speed,...

[Page 30: Pointing Device](#)

For more information regarding Graphics Processor Unit, please refer to Appendix E, Disclaimers. Keyboard Built-In TOSHIBA keyboard, 104 keys or 105 keys with numeric keypad, compatible with IBM enhanced keyboard, dedicated cursor control, keys. Refer to Chapter 5, Keyboard, for details.

[Page 31](#) Introduction Infrared receiver This window receives signals from the remote window control. (Provided with some models) Slots ExpressCard The ExpressCard expansion slot can accommodate two standard module formats: an ExpressCard/34 module and an ExpressCard/54 module. An ExpressCard module is a small add-in card technology based on the PCI Express and Universal Serial Bus (USB) interfaces.

[Page 32](#) Introduction Communications The computer is equipped with a LAN card that supports Fast Ethernet LAN (100 Mbit/s, 100BASE-TX) or Gigabit Ethernet LAN (1 Gbit/s, 1000BASE-T). Wireless LAN It supports the A,B,G and draft N standards but it is compatible with other LAN systems based on Direct Sequence Spread Spectrum / Orthogonal Frequency Division Multiplexing radio technology that complies with the IEEE 802.11 Standard.

[Page 33: Special Features](#)

Two level password architecture Fingerprint authentication (not available on all models) Special features The following features are either unique to TOSHIBA computers or are advanced features, which make the computer more convenient to use. Hot Keys Key combinations let you quickly modify the system configuration directly from the keyboard without running a system configuration program.

[Page 34](#) Introduction Intelligent Power A microprocessor in the computer's intelligent Supply power supply detects the battery's charge and calculates the remaining battery capacity. It also protects electronic components from abnormal conditions, such as voltage overload from an AC adaptor. This can be specified in Power Options. Battery Save Mode This feature lets you save battery power.

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

Introduction TOSHIBA Value Added Package This section describes the TOSHIBA Component features pre-installed on the computer. TOSHIBA Power Saver provides you with the Saver features of more various power supply managements. TOSHIBA Zooming This utility allows you to enlarge or reduce the...

[Page 36: Utilities And Applications](#)

This section describes pre-installed utilities and tells how to start them. For details on operations, refer to each utility's online manual, help files or readme.txt files. TOSHIBA Assist TOSHIBA Assist is a graphical user interface that provides easy access to help and services. Bluetooth Stack for This software enables communication between...

[Page 37](#) The DVD PLAYER is used to play DVD Videos. It PLAYER has 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 38](#) Lock button at the bottom of the right pane of the start menu. ■ TOSHIBA Assist: Open the TOSHIBA Assist if it is already installed in your computer. TOSHIBA USB Sleep This utility is able to either enable or disable the and Charge Utility USB Sleep and Charge function.

[Page 39: Options](#)

The availability of DDRII or DDRIII depends 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. AC Adaptor If you use your computer at more than one site...

[Page 40: 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. Front with the display closed The following figure shows the computer's front with its display panel in the closed position.

[Page 41](#) The Grand Tour ■ Set the wireless communication switch to off in airplanes and hospitals. Check the wireless activity indicator. It will stop glowing when the wireless communication function is off. ■ Turn Wi-Fi and Bluetooth functionalities off when near a person who may have a cardiac pacemaker implant or other medical electric device.

[Page 42: Left Side](#)

The Grand Tour Left side The following figure shows the computer's left side. ■ Tray ODD ■ Slot ODD 1. LAN Jack 2. eSATA/USB Combo Port 3. Universal Serial Bus (USB 2.0) Port 4. HDMI Port 5. i.LINK (IEEE 1394a) Port 6.

[Page 43: Right Side](#)

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

[Page 44: Backside](#)

The Grand Tour Universal Serial Bus The Universal Serial Bus Ports comply with the (USB 2.0) Ports USB 2.0 standard. TV In Port This port allows you to connect a coaxial cable for watching TV on your computer. (Provided with some models) External Monitor Port This 15-pin port lets you connect an external video display.

[Page 45: Underside](#)

The Grand Tour Underside The following figure shows the underside of the computer. Make sure the display is closed before turning over your computer. 1. Hard Disk Cover 2. Battery Pack Lock 3. Battery Pack 4. Battery Release Latch 5. Hard Disk Cover 6.

[Page 46: Front With The Display Open](#)

The Grand Tour Front with the display open This section shows the front of the computer with the display open. To open the display, lift the front of the display. Position the display at a comfortable viewing angle. 16 17 1.

[Page 47](#) The Grand Tour Web Camera LED The Web Camera LED indicates whether the web camera is working or not. Web Camera Use the web camera to take your picture or send your image to web contacts. Built-in microphone The microphone is used with the Web Camera to talk to other Web Camera users and to record messages on windows media.

[Page 48: Optical Disc Drive](#)

CD/DVD/BD Button Press this button to launch an application program that allows playing of CDs, DVDs or BDs. The application that is launched differs by model: Windows Media Player/TOSHIBA DVD PLAYER/WinDVD BD for TOSHIBA. (Provided with some models) Previous Button Skips backwards to the previous track, chapter or digital file.

[Page 49: Writable Discs](#)

The Grand Tour Region codes for DVD drives and media DVD Super Multi drives and their associated media are manufactured according to the specifications of six marketing regions. When you purchase DVD-Video, make sure it matches your drive, otherwise it will not play properly.

[Page 50](#) The Grand Tour BD-R/RE drive The full-size BD-R/RE drive module lets you record data to writable CD/ DVD/BDs as well as run either 12 cm (4.72") or 8 cm (3.15") CD/DVD/BDs without using an adaptor. The read speed is slower at the centre of a disc and faster at the outer edge.

[Page 51: Dvd Super Multi Drive](#)

The Grand Tour DVD Super Multi drive The full-size DVD Super Multi drive module lets you record data to writable CD/DVDs as well as run either 12 cm (4.72") or 8 cm (3.15") for Tray type, 12 cm (4.72") for Slot type CD/DVDs without using an adaptor. Use only round standard (12cm) discs with the slot-loading optical drive.

[Page 52: Ac Adaptor](#)

Always use the TOSHIBA AC adaptor that was included with your computer, or use AC adaptors specified by TOSHIBA to avoid any risk of fire or other damage to the computer. Use of an incompatible AC adaptor could cause fire or damage to the computer possibly resulting in serious injury.

[Page 53: Remote Controller](#)

The Grand Tour Remote controller A remote controller, which is provided with some models, enables you to perform some functions on your computer from a distance. ■ Some models are included with either a Full size remote controller or Slim size remote controller. You can use your remote controller with Media Center to play CDs, DVDs, BDs and videos, as well as view pictures.

[Page 54](#) The Grand Tour Full Size Remote Controller 1. Power 14. OK 2. Access indicator 15. Volume Control 3. Record 16. Channel/Page Control 4. Stop 17. Start 5. Pause 18. Mute 6. Play 19. Recorded TV 7. REW (Rewind) 20. Guide 8.

[Page 55](#) The Grand Tour Power Starts or terminates the operating system. This button functions like the Power button of your computer. By default, the Sleep Mode is equivalent to the Power Off state of your computer. To change the setting, click Start, select Control panel System and Security Power Options.

[Page 56](#) The Grand Tour Selects the desired action or window option. It acts like the ENTER Key. If watching TV in full screen mode, pressing OK switches back to the previous viewed channel. Press again to toggle back. It acts the same way as a Jump button on some TV remote controls.

[Page 57: Slim Size Remote Controller](#)

19. Volume + 20. DVD Menu CD/DVD/BD button Press this button to launch Windows Media Player / DVD Video Player / WinDVD BD for TOSHIBA. Brightness down Decreases the computer's display panel brightness. Brightness up Increases the computer's display panel brightness.

[Page 58](#) The Grand Tour Power Starts or terminates the operating system. This button functions like the power button of your computer. By default, the Sleep Mode is equivalent to the power off state of your computer. To change the setting, click Start Control panel System and Security Power Options...

[Page 59](#) The Grand Tour Replay Moves media backwards (seven seconds for videos, one music track or one DVD chapter at a time). Stop Stops the currently playing media. Skip Moves media forward (30 seconds for videos, one music track or one DVD chapter at a time). Using the Remote Controller Some computers include a remote control unit, which allows you to control some of your computer's functions from a distance.

[Page 60](#) The Grand Tour 15° 1. Infrared Receiver Window 2. Remote Controller Operational range of the remote controller * The appearance of the provided Remote Controller may vary from model to model. Even if within the effective scope as described above, the remote controller may malfunction or not work correctly in the following cases.

[Page 61](#) The Grand Tour Installing/Removing batteries Be sure to install the provided batteries before using the remote controller. The procedures for installing and removing the batteries vary depending on the type of the remote controller. Check the type and then install

or remove the batteries as instructed.

[Page 62: Installing The Batteries](#)

The Grand Tour Installing the batteries 1. Open the battery cover on the back of the Remote Controller. Slide the cover in the direction of the arrow to remove the cover. Opening the battery cover 2. Insert the batteries in place. Be sure to place the batteries with their polarities (+ and -) in the correct position.

[Page 63: Replacing The Batteries](#)

The Grand Tour Replacing the batteries When the batteries in the Remote Controller reach the end of their life, the Remote Controller may not operate correctly or work only within a short distance from your computer. In this instance, you should purchase new batteries and replace the discharged ones.

[Page 64](#) The Grand Tour 2. Be sure to place the batteries with correct polarities. Press the battery down to the stopper then push it forward to fit into the battery case. 1. Stopper 2. Battery Inserting the batteries 3. Close the battery cover. Press gently until it clicks into place. Closing the battery cover Replacing the batteries When the batteries in the remote controller reach the end of their life, the...

[Page 65](#) The Grand Tour Placing the slim size remote controller Inserting a slim size remote controller To insert the slim size remote controller, follow the steps below. 1. Make sure the ExpressCard slot is empty. 2. Set the front side upward and insert the slim size remote controller. 1.

[Page 66: Chapter 3 Getting Started](#)

Getting Started Chapter 3 Getting Started This chapter provides basic information to get you started using your computer. It covers the following topics: ■ All users should be sure to read the section Starting up for the first time. ■ Be sure to read the enclosed Instruction Manual for Safety and Comfort for information on the safe and proper use of this computer.

[Page 67: Connecting The Ac Adaptor](#)

■ Always use the TOSHIBA AC adaptor that was included with your computer or use AC adaptors specified by TOSHIBA to avoid any risk of fire or other damage to the computer. Use of an incompatible AC adaptor could cause fire or damage to the computer possibly resulting in serious injury.

[Page 68](#) Getting Started 1. Connect the power cord to the AC adaptor. Connecting the power cord to the AC adaptor Either a 2-pin or 3-pin adaptor/cord will be included with the computer depending on the model. 2. Connect the AC adaptor's DC output plug to the DC IN 19V jack on the right of the computer.

[Page 69: Opening The Display](#)

Getting Started Opening the display The display panel can be rotated in a wide range of angles for optimal viewing. 1. Lift the panel up and adjust it to the best viewing angle for you. Opening the display Use reasonable care when opening and closing the display panel. Opening it vigorously or slamming it shut could damage the computer.

[Page 70: Turning On The Power](#)

Getting Started Turning on the power This section describes how to turn on the power. After you turn on the power for the first time, do not turn it off until you have set up the operating system. Refer to the section Windows setup.

[Page 71: Sleep Mode](#)

Getting Started ■ Make sure the Disk LED and ODD indicator are off. If you turn off the power while a disk (disc) is being accessed, you can lose data or damage the disk (disc). ■ Never turn off the power while an application is running. Doing so could cause loss of data.

[Page 72](#) Getting Started ■ Before entering Sleep Mode, be sure to save your data. ■ Do not install or remove a memory module while the computer is in Sleep Mode. The computer or the module could be damaged. ■ Do not remove the battery pack while the computer is in Sleep

Mode (unless the computer is connected to an AC power source).

[Page 73: Hibernation Mode](#)

Getting Started Hibernation Mode The hibernation feature saves the contents of memory to the hard disk when the computer is turned off. The next time the computer is turned on, the previous state is restored. The hibernation feature does not save the status of peripheral devices.

[Page 74: Restarting The Computer](#)

Getting Started Data saving in Hibernation Mode When you turn off the power in Hibernation Mode, the computer takes a moment to save current memory data to the hard disk. During this time, the Disk LED will light up. After you turn off the computer and memory is saved to the hard disk, turn off the power to any peripheral devices.

[Page 75](#) ■ Be sure to connect the AC adaptor when you create Recovery Discs. ■ Be sure to close all other software programs except the TOSHIBA Recovery Media Creator. ■ Do not run software such as screen savers which can put a heavy load on the CPU.

[Page 76](#) 5. Select the TOSHIBA Recovery Media Creator icon from the Windows 7 Start menu. 6. After TOSHIBA Recovery Media Creator starts, select the type of media and the title you wish to copy, and then click the Create button. Restoring the pre-installed software from your created Recovery...

[Page 77: Ordering Recovery Discs From Toshiba](#)

Please set your BIOS to default before you recover your computer to the factory state! Ordering Recovery Discs from TOSHIBA* You can order Product Recovery discs for your notebook from the TOSHIBA Europe Backup Media Online Shop. * Please note that this service is not free-of-charge. 1. Visit <http://backupmedia.toshiba.eu> on the Internet.

[Page 78: Chapter 4 Operating Basics](#)

Operating Basics Chapter 4 Operating Basics This chapter gives information on basic operations including using the Touch Pad, fingerprint sensor, the Web Camera, optical media drives, sound system, wireless communications and LAN. It also provides tips on caring for your computer. Using the Touch Pad To use the Touch Pad, simply touch and move your finger tip across it in the direction you want the on-screen pointer to go.

[Page 79: Touch Pad Gesture](#)

Operating Basics Two buttons below the keyboard are used like the buttons on a mouse pointer. Press the left button to select a menu item or to manipulate text or graphics designated by the pointer. Press the right button to display a menu or other function depending on the software you are using.

[Page 80: Using The Fingerprint Sensor](#)

Operating Basics To use a Pinch Zoom gesture: 1. Place two fingers down on the Touch Pad surface. 2. Slide the fingers further apart to zoom in or slide the fingers closer together to zoom out. For the best zooming experience, use the tips of your fingers.

[Page 81](#) Operating Basics How to 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. 2. While lightly touching the sensor, swipe the finger towards you until the sensor surface becomes visible.

[Page 82](#) Operating Basics ■ Do not touch the sensor with a wet finger or any wet objects. Keep the sensor surface dry and free of water vapor. ■ Do not touch the sensor with a soiled finger. Minute foreign particles on a soiled or dirty finger may scratch the sensor.

[Page 83: Fingerprint Sensor Limitations](#)

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 84: Fingerprint Registration](#)

Operating Basics Set up procedure Please perform the following procedure when first using fingerprint authentication. Fingerprint registration Enroll the required authentication data using the Fingerprints Enrollment Wizard. ■ The fingerprint authentication uses the same Windows logon ID and password. If the Windows logon password has not been setup, please do so before registration.

[Page 85: Fingerprint System Boot Authentication](#)

■ It is necessary to register the User Password before using the fingerprint Pre-OS feature and its extended function, the fingerprint Single Sign-On feature. Please use TOSHIBA HW Setup to register the User Password. ■ If you fail fingerprint authentication more than five times, you must enter the User Password or Supervisor Password manually to start the computer.

[Page 86: Fingerprint Utility Limitations](#)

TOSHIBA does not guarantee that the fingerprint utility will 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 or utility.

[Page 87: Usb Sleep And Charge Function](#)

Operating Basics USB Sleep and Charge function Your computer can supply USB bus power (DC5V) to the USB port even when the power of the computer is turned OFF. "Power OFF" includes Sleep Mode, Hibernation Mode or shutdown state. This function can only be used for ports that support the USB Sleep and Charge function (hereinafter called "compatible ports").

[Page 88: Starting The Usb Sleep And Charge Utility](#)

Operating Basics Starting the USB Sleep and Charge Utility To start the utility, click Start All Programs TOSHIBA Utilities USB Sleep and Charge. Enabling USB Sleep and Charge This utility can be used to enable and disable the USB Sleep and Charge function.

[Page 89: Using The Web Camera](#)

Operating Basics Using the Web Camera Some models come with a built-in webcam, which can capture still and video images. The web camera will auto-run when Windows starts. Please remove the protective plastic-film before using the Web Camera. 1. Built-in microphone 2.

[Page 90: Using The Software](#)

Operating Basics Using the software The web camera software is pre-configured to start when you turn on Windows. To start it manually, go to Start All Programs Toshiba Utilities Web Camera Application. 1. Capture Still Images 2. Video Recording 3. Audio Recording 4.

[Page 91: Using The Microphone](#)

Operating Basics Settings In the Options tab, change the tool bar position. In the Picture tab, select picture output options such as size, export file and save path. In the Video tab, choose video output settings such as frame rate, size, record compressor, and save path.

[Page 92: Using The Toshiba Face Recognition](#)

Toshiba does not guarantee that the face recognition utility will 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 face recognition software or utility.

[Page 93](#) Delete image data, account information, and personal record data created during registration. To delete the Face Recognition Data, follow the steps as described below: 1. Click Start All Programs TOSHIBA Utilities Face Recognition. The Management screen is displayed. 2. Select a user.

[Page 94](#) Utilities Face Recognition Help. Windows Logon via TOSHIBA Face Recognition This section explains how to logon to Windows with TOSHIBA Face Recognition. Two authentication modes are provided. ■ AUTO Mode Logon screen: If the face authentication file is selected by default, you can log on without using the keyboard or mouse.

[Page 95: Tv Tuner](#)

Operating Basics TV Tuner Use the My TV feature of Media Center in Windows mode to watch TV programs or record them. Attach a TV Tuner antenna to the tv tuner jack on the computer. Some models are equipped with a TV tuner. The dimensions and shape of the TV antenna port vary for different regions.

[Page 96: Using The Optical Disc Drive](#)

Operating Basics If you have to operate your computer during a thunderstorm and are connecting the TV tuner to an outside antenna, you should operate your computer using AC power mode. The AC adaptor offers some protection against (but does not entirely prevent) possible electric shock caused by lightning.

[Page 97: Loading Discs](#)

Operating Basics Loading discs ■ Tray ODD To load a disc, follow the steps below. 1. a. When the power is on, press the eject button to pop open the drawer partially. 1. Eject Button Pressing the eject button User's Manual 4-20...

[Page 98](#) Operating Basics b. Pressing the eject button will not pop open the drawer when the disc drive's power is off. If the power is off, you can pop open the drawer by inserting a slender object (about 15 mm) such as a straightened paper clip into the eject hole just to the right of the eject button.

[Page 99](#) Operating Basics 3. Place the disc, label side up, in the drawer. Inserting a disc When the drawer is fully opened, the edge of the computer will extend slightly over the disc tray. Therefore, you will need to turn the disc at an angle when you place it in the tray.

[Page 100](#) Operating Basics Closing the disc drawer ■ Slot ODD To load CD/DVD's, follow the steps below. 1. When the computer's power is on, insert a CD/DVD into the ODD directly. Inserting a disc User's Manual 4-23...

[Page 101: Removing Discs](#)

Operating Basics Removing discs ■ Tray ODD To remove the disc, follow the steps below. Do not press the eject button while the computer is accessing the disc drive. Wait for the optical media drive indicator to go out before you open the drawer.

[Page 102: Writing Cd/Dvd/Bds](#)

Based on TOSHIBA's limited compatibility testing, we suggest the following manufacturers of CD-R-RW and DVD-R/+R/-RW/+RW/-RAM and BD-R/RE discs. 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 103](#) Based on TOSHIBA's limited compatibility testing, we suggest the following manufacturers of CD-R-RW and DVD-R/+R/-RW/+RW/-RAM discs. 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 104](#) Based on TOSHIBA's limited compatibility testing, we suggest the following manufacturers of CD-R-RW and DVD-R/+R/-RW/+RW/-RAM discs. 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 105](#) Operating Basics DVD-R: DVD Specifications for Recordable Disc for General Version 2.0 TAIYO YUDEN Co.,Ltd. (for 8x and 16x speed media) MITSUBISHI KAGAKU MEDIA CO., LTD. (for 4x, 8x and 16x speed media) Hitachi Maxell,Ltd. (for 8x and 16x speed media) DVD-R (Dual Layer): MITSUBISHI KAGAKU MEDIA CO., LTD.

[Page 106](#) Write from the computer's hard disc drive to the CD/DVD. Do not try to write from shared devices such as a LAN server or any other network device. ■ Writing with software other than Corel DVD MovieFactory for TOSHIBA is not recommended. User's Manual 4-29...

[Page 107: When Writing Or Rewriting](#)

RW/-RAM, DVD+R/+RW or BD-R/-RE disc. Do not use cut-and-paste. The original data will be lost if there is a write error. Disclaimer (DVD Super Multi drive or BD-R/RE drive) TOSHIBA does not bear responsibility for the following: ■ Damage to any CD-R-RW or DVD-R/-R(DL)/-RW/+R/+R(DL)/+RW/- RAM or BD-R/RE disc that may be caused by writing or rewriting with this product.

[Page 108: Data Verification](#)

2. Mark the Verify written data check box. 3. Select File Open or Full Compare mode. 4. Click OK. How to learn more about TOSHIBA Disc Creator Please refer to the Help files for additional TOSHIBA Disc Creator information. Video ®...

[Page 109: Important Information For Use](#)

Operating Basics How to learn more about Corel DVD MovieFactory Please refer to the Help and Manual files for additional Corel DVD MovieFactory information. Important information for use Note the following limitations and precautions when you write Video DVD: 1. Editing digital video ■...

[Page 110: Toshiba Dvd Player](#)

If you use an over-used rewritable disc, the full formatting might be locked. Please use a brand new disc. TOSHIBA DVD Player Please be aware of the following limitations when you use the TOSHIBA DVD PLAYER: Notes on use ■...

[Page 111](#) Fn + F1 keys when running the "TOSHIBA DVD PLAYER". Display Devices & Audio 1. "TOSHIBA DVD PLAYER" will only run when "Colors" is set to "True Color (32 bit)". The "Colors" setting can be adjusted on the "Monitor"...

[Page 112: Starting Toshiba Dvd Player](#)

Open TOSHIBA DVD PLAYER HELP TOSHIBA DVD PLAYER features and instructions are also explained in detail in "TOSHIBA DVD PLAYER Help". Use the following procedure to open "TOSHIBA DVD PLAYER Help". ■ Click the "Help" button () in the Display Area.

[Page 113: Using Windvd Bd For Toshiba](#)

Starting WinDVD BD for TOSHIBA Use the following procedure to start "WinDVD BD for TOSHIBA". 1. When a Blu-ray disc is set in the BD drive, WinDVD BD for TOSHIBA starts automatically. 2. Touch the CD/DVD/BD button on the Front operation panel. Or select...

[Page 114: Media Care](#)

Open WinDVD BD for TOSHIBA HELP WinDVD BD for TOSHIBA features and instructions are also explained in detail in "WinDVD BD for TOSHIBA Help". Use the following procedure to open "WinDVD BD for TOSHIBA Help". ■...

[Page 115: Wireless Communications](#)

Operating Basics Wireless communications The computer's wireless communication function supports both Wireless LAN and Bluetooth devices. ■ Do not use the Wireless LAN (Wi-Fi) or Bluetooth functionalities near a microwave oven or in areas subject to radio interference or magnetic fields.

[Page 116: Product Support](#)

TOSHIBA strongly recommends the customer to enable the encryption function. ■ TOSHIBA is not liable for the eavesdropping of data due to the use of Wireless LAN and the damage thereof. Bluetooth Stack for Windows by TOSHIBA (depends on the model you purchased) ®...

[Page 117: Lan](#)

Operating Basics Wireless communication switch You can enable or disable the Wireless LAN and Bluetooth function with the on/off switch. No transmissions are sent or received when the switch is off. Slide the switch to the right to turn it on and to the left to turn it off. Set the switch to off in airplanes and hospitals.

[Page 118: Cleaning The Computer](#)

Operating Basics Connecting LAN cable To connect the LAN cable, follow the steps below. 1. Turn off the power to the computer and to all external devices connected to the computer. 2. Plug one end of the cable into the LAN jack. Press gently until you hear the latch click into place.

[Page 119: Moving The Computer](#)

This computer has a function for reducing the risk of damage on the hard disk drive. Using an acceleration sensor built into the computer, TOSHIBA HDD Protection detects vibration shocks and similar signs of movement of the computer, and automatically moves the Hard Disk Drive head to a safe position to reduce the risk of damage that could be caused by head-to-disk contact.

[Page 120: Taskbar Icon](#)

Operating Basics The TOSHIBA HDD Protection function does not guarantee that the hard disk drive will not be damaged. When vibration is detected, a message will be displayed on the screen, and the icon in the Taskbar notification area will changed to the protection state.

[Page 121](#) Intensely shaking the computer or other subjecting it to strong impacts may cause damage to the computer. Details To open the Details window, click the Setup Detail button in the TOSHIBA HDD Protection Properties window. Detection Level Amplification When the AC adaptor is disconnected or the lid is closed, HDD Detection assumes that the computer will be carried and sets the detection level to the maximum for 10 seconds.

[Page 122: Chapter 5 The Keyboard](#)

The Keyboard Chapter 5 The Keyboard The number of keys on your keyboard depends on which country/region's keyboard layout your computer is configured with. Keyboards for numerous languages are available. There are five types of keys: typewriter keys, function keys, soft keys, Windows special keys, and cursor control keys.

[Page 123: F1 ... F12 Function Keys](#)

The Keyboard F1 ... F12 function keys The function keys (not to be confused with FN) are the 12 keys at the top of your keyboard. These keys function differently from other keys. F1 through F12 are called function keys because they execute programmed functions when pressed.

[Page 124](#) The Keyboard Power plan: Displays the power save modes and lets you change the power settings. Sleep: This hot key switches the system to Sleep Mode. Hibernate: This hot key switches the system to Hibernation mode. Output: Changes the active display device. Default resolution for simultaneous mode is set to 1024x768.

[Page 125: Windows Special Keys](#)

TOSHIBA Zooming Utility (enlarge): Increases the icon size on the desktop or the font size within one of the supported application windows. Before using FN + 1 and FN + 2, you must install the TOSHIBA Zooming Utility. The Utility only supports the following application windows: Microsoft Internet Explorer, Microsoft Office, Windows Media Player, Adobe Reader and the icons on the desktop.

[Page 126: 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 adaptor and internal batteries. This chapter gives details on making the most effective use of these resources, including charging the computer and battery tips for saving battery power, and power up modes.

[Page 127: Power Indicators](#)

Power and Power-Up Modes Power indicators As shown in the above table, the Battery and Power indicators on the front of the system alert you to the computer's operating capability and battery charge status. Battery indicator Check the Battery indicator to determine the status of the battery pack. The following indicator lights indicate the battery status: Flashing orange The battery charge is low.

[Page 128: Battery Types](#)

Dispose of the battery as required by local ordinances or regulations. Use only batteries

recommended by TOSHIBA as replacements. ■ Do not remove the battery pack while the computer is in Sleep Mode.

[Page 129](#) The computer's RTC battery is a lithium ion 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 130: Care And Use Of The Battery Pack](#)

The battery pack is lithium ion battery, which can explode if not replaced, used, handled or disposed of properly. Dispose of the battery as required by local ordinances or regulations. Use only batteries recommended by TOSHIBA as replacements. ■ Charge the battery pack only in an ambient temperature between 5 and 35 degrees Celsius.

[Page 131: Battery Charging Notice](#)

Power and Power-Up Modes Time The following table shows the approximate time required to fully charge a discharged battery. Battery type Power on Power off Battery pack 4-10 hours 4 hours max (6-cell, 12-cell) RTC battery About 24 hours About 24 hours Charging time (hours) The charging time when the computer is on is affected by ambient temperature, the temperature of the computer and how you use the...

[Page 132: Monitoring Battery Capacity](#)

Power and Power-Up Modes Monitoring battery capacity Remaining battery power can be monitored using the following methods. ■ Clicking the battery icon on the task bar ■ Via the Windows Mobility Center window ■ Wait at least 16 seconds after turning on the computer before trying to monitor the remaining operating time.

[Page 133: Retaining Data With Power Off](#)

Power and Power-Up Modes Retaining data with power off When you turn off your computer with fully charged batteries, the batteries retain data for the following approximate time periods. Battery pack Approximately 2 days (6-cell, 12-cell) (Sleep Mode, 6-cell) Approximately 3.5 days (Sleep Mode, 12-cell) Approximately 1 month (Shut Down Mode, all types of...

[Page 134: Replacing The Battery Pack](#)

Power and Power-Up Modes Replacing the battery pack When the battery pack reaches the end of its operating life, you will need to install a new one. The life of the battery pack is generally about 500 recharges. If the Battery indicator flashes orange shortly after fully recharging the battery, the battery pack needs to be replaced.

[Page 135: Starting The Computer By Password](#)

Dispose of the battery as required by local ordinances or regulations. Use only batteries recommended by TOSHIBA as replacements. ■ Do not touch the latch while holding the computer. If the latch is unintentionally released, you may get injured by the dropped battery.

[Page 136: Power-Up Modes](#)

Power and Power-Up Modes To enter a password manually, follow these steps: 1. Turn on the power as described in Chapter 3, Getting Started. The following message appears: Password= At this point, the hotkeys Fn + F1 to F9 do not work. They will function after you enter the password.

[Page 137: Chapter 7 Hw Setup](#)

HW Setup Chapter 7 HW Setup This chapter explains how to use TOSHIBA HW Setup program to configure your computer. TOSHIBA HW Setup lets you configure settings for General, Password, Display, Boot Priority, Keyboard, LAN, and USB. Accessing HW Setup To run HW Setup, click , All Programs, TOSHIBA, Utilities, HWSetup.

[Page 138: User Password](#)

HW Setup User Password Lets you register a new password or un-register an existing password. Not Registered Un-registers an existing password Registered Register a new password by following the on screen instructions Owner String This blank field is used to display a message when the password field is displayed on startup.

[Page 139](#) HW Setup Keyboard Wake-up on Keyboard When this feature is enabled and the computer is in Sleep Mode, you can turn on the computer by pressing any key. It is effective only for the internal keyboard and only when the computer is in Sleep Mode. Enabled Enables the Wake-up on Keyboard function.

[Page 140: 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 devices, which are available from your TOSHIBA dealer: Cards/memory ■ ExpressCard ■ SD (Secure Digital) / SDHC (Secure Digital High Capacity) /...

[Page 141: Inserting An Expresscard](#)

Optional Devices Inserting an ExpressCard The ExpressCard connector is located on the left side of the computer. The computer's hot-install feature allows you to install an ExpressCard while the computer's power is on. To install an ExpressCard, follow the steps below. 1.

[Page 142: Sd/Sdhc/Mmc/Memory Stick / Memory Stick Pro/Xd Memory Cards](#)

Optional Devices 1. ExpressCard Removing the ExpressCard SD/SDHC/MMC/MEMORY STICK / MEMORY STICK PRO/xD Memory cards The computer is equipped with a multiple digital media card slot that can accommodate SD/SDHC/MMC/MEMORY STICK/MEMORY STICK PRO/ xD memory cards. These memory cards allow you to easily transfer data from devices, such as digital cameras and Personal Digital Assistants, which use flash-memory.

[Page 143: Installing A Memory Card](#)

Optional Devices ■ Keep foreign objects out of the memory card slot. A pin or similar object can damage the computer's circuitry. ■ Do not format a memory card with Windows as it might result in that card not being able to be used with some peripheral devices. ■...

[Page 144: Removing A Memory Card](#)

Optional Devices Removing a memory card To remove a memory card, follow the steps below: 1. Click the Safely Remove Hardware icon on the Taskbar. 2. Select a device, then click Stop. A confirmation dialog may appear, depending on how the device is registered with the system; if so, confirm that you want to remove the device.

[Page 145: Memory Expansion](#)

RAM. This section describes how to install and remove a memory module. ■ Use only memory modules approved by TOSHIBA. ■ Do not try to install or remove a memory module under the following conditions. You can damage the computer and the module. Also, data will be lost.

[Page 146: Installing A Memory Module](#)

Optional Devices Installing a memory module Follow the steps below to install a memory module. 1. Set the computer to boot mode and turn off the power. 2. Remove all cables connected to the computer. 3. Turn the computer upside down and remove the battery pack (refer to Chapter 6, Power and Power-Up Modes).

[Page 147](#) Optional Devices 1. Slot A 2. Slot B Installing the memory module 8. Seat the cover and secure it with the screws. 9. Replace the battery pack as described in Chapter 6, Power and Power- Modes. 10. Turn the power on and make sure the added memory is recognized. Open System in the Control Panel and click the General tab.

[Page 148: Removing A Memory Module](#)

Optional Devices Removing a memory module Before removing the memory module, make sure the computer is in boot mode. To remove the memory module: 1. Be sure the power is off and all cables are disconnected from the computer. 2. Turn the computer upside down and remove the battery and the screws securing the memory module cover.

[Page 149: Additional Battery Pack](#)

Optional Devices Additional battery pack You can increase the portability of the computer with additional battery packs. If you're away from an AC power source and your battery runs low,

you can replace it with a freshly charged battery. Refer to Chapter 6, Power and Power-Up Modes.

[Page 150: Hdmi](#)

Optional Devices HDMI A HDMI monitor can be connected to the HDMI out port on the computer. 1080p, 1080i, 720p, 576p and 480p signal formats are supported, but actual signal formats you can use depends on the HDMI monitor. To connect a monitor, follow the steps as detailed below: As the port operation of all HDMI (High-Definition Multimedia Interface) monitors has not been confirmed, some HDMI monitors may not function...

[Page 151: I.link \(Ieee1394\)](#)

There is a possibility that the original data will be damaged. There is a particular risk that some frames will be deleted in the case of digital video transfer. TOSHIBA assumes no liability for such loss of data. 2. Do not transfer data in areas where static electricity is easily generated or in areas subjected to electronic noise.

[Page 152](#) Optional Devices 5. If you connect/disconnect an i.LINK device to/from another i.LINK device that is currently exchanging data with the computer, data frames might be dropped. 6. Make sure data transfer has ended or turn off the computer, before you: a.

[Page 153: Esata \(External Serial Ata\)](#)

Optional Devices eSATA (External Serial ATA) An eSATA device can be connected to the eSATA/USB combo port on the computer. Connecting an eSATA device To connect an eSATA device, follow the steps below: 1. Connect an eSATA cable to the eSATA/USB combo port. Make sure the connector is properly aligned with the socket.

[Page 154: Security Lock](#)

Optional Devices Disconnecting an eSATA device When you have finished using an eSATA device, you can follow the procedures below in order to disconnect it: 1. Wait for the indicator light of an eSATA device to go out to make sure all activity has stopped.

[Page 155: 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 156: Analyzing The Problem](#)

Troubleshooting ■ Inspect all connecting cables for loose wires and all connectors for loose pins. ■ Check that your CD/DVD/BD is correctly inserted. Make notes of your observations and keep them in a permanent error log. This will help you describe your problems to your dealer. If a problem recurs, the log will help you identify the problem faster.

[Page 157: Hardware And System Checklist](#)

This message remains on the screen for a few seconds. If the self test is successful, the computer tries to load the operating system, depending on how the Boot Priority is set in the TOSHIBA HW Setup program. If any of the following conditions are present, the self test failed: ■...

[Page 158: Overheating Power Down](#)

Troubleshooting Power When the computer is not plugged into an AC outlet, the battery pack is the primary power source. However, your computer has a number of other power resources, including an intelligent power supply and a Real Time Clock battery. These resources are interrelated and any one could affect apparent power problems.

[Page 159](#) Troubleshooting Problem Procedure Battery doesn't If the battery is completely discharged, it will not charge when the AC begin charging immediately. Wait a few minutes. adaptor is attached If the battery still does not charge, make sure the (Battery indicator outlet of the AC adaptor is supplying power.

[Page 160: Real Time Clock](#)

Troubleshooting Real Time Clock Problem Procedure The BIOS setting and Charge in the RTC battery is exhausted or system date/time are getting low. You will need to set the date and time lost. in the BIOS setup screen using the following procedure 1.

[Page 161: Hard Disk Drive](#)

Troubleshooting Solid State drive Problem Procedure Computer does not boot There may be a problem with your operating system boot from hard disk system files. Refer to your operating system drive documentation. Recovery Media Creator Problem Procedure The Recovery Media You will see this message if you have previously created a recovery media. Creator can not be chosen to remove the partition and are trying to launch because...

[Page 162: BD Drive](#)

Troubleshooting BD drive For more information, refer to Chapter 4, Operating Basics. Problem Procedure You cannot access a drive. Make sure the drive's drawer is securely closed. CD/DVD/BD in the Press gently until it clicks into place. drive Open the drawer and make sure the CD/DVD/BD is properly seated.

[Page 163: Touch Pad](#)

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 164: Usb Mouse](#)

Troubleshooting Problem Procedure The response of the Adjust the touch sensitivity. Touch Pad is too 1. Click , Control Panel, Hardware and sensitive Sound, and the Mouse icon. 2. Select the Device Settings tab in the Mouse Properties window. 3. Click the Settings button. The Properties for Synaptics Touchpad on PS/2 port screen appears.

[Page 165](#) Troubleshooting Problem Procedure The mouse pointer Try changing the speed setting in the mouse moves too fast or too control utility. slow 1. To access this utility, click , Control Panel, Hardware and Sound, and the Mouse icon. 2. Select the Pointer Options tab in the Mouse Properties window.

[Page 166](#) Connect the AC adaptor to the computer or computer. uncheck the "USB Sleep and Charge" check box to disable this function in the TOSHIBA USB Sleep and Charge Utility. User's Manual 9-12...

[Page 167](#) TOSHIBA USB Sleep and Charge Utility. The "USB WakeUp When "USB Sleep and Charge function" is set to function" does not [Enabled] in the TOSHIBA USB Sleep and work Charge Utility, the "USB WakeUp function" does not work for ports that support the USB Sleep and Charge function.

[Page 168: Sound System](#)

Troubleshooting Sound system Refer also to documentation for your audio devices. Problem Procedure No sound is heard Check the software volume settings. Make sure the headphone connection is secure. If problems persist, contact your dealer. Monitor Refer also to Chapter 8, Optional Devices, and to your monitor's documentation.

[Page 169: Fingerprint Sensor](#)

If problems persist, contact your dealer. Fingerprint Pre-OS Please use TOSHIBA HW Setup to register the feature or Single Sign User Password if it was not registered. On feature cannot be...

[Page 170: Toshiba Support](#)

They are your best sources for current information and support. Where to write If you are still unable to solve the problem and suspect that it is hardware related, write to TOSHIBA at the location listed in the enclosed warranty booklet or visit <http://www.toshiba-europe.com> on the Internet.

[Page 171: Specifications](#)

Specifications Appendix A Specifications This appendix summarizes the computer's technical specifications. Environmental Requirements Operating Non-operating Ambient temperature 5°C to 35°C -20°C to 60°C Relative humidity 20% to 90% 10% to 95% Altitude (from sea 0 to 10,000 feet 0 to 40,000 feet level) Power Requirements Power Requirements...

[Page 172: Appendix B Display Controller](#)

Display Controller Appendix B Display Controller Display controller The display controller interprets software commands into hardware commands that turn particular pels on or off. A high-resolution external monitor connected to the computer can display up to 2048 horizontal and 1536 vertical pixels at up to 16M colors. The display controller also controls the video mode, which uses industry standard rules to govern the screen resolution and the maximum number of colours that can be displayed on screen.

[Page 173: Wireless Lan](#)

Wireless LAN Appendix C Wireless LAN Card Specifications Form Factor Mini PCI TypeIII Compatibility WiMAX (depending on the model you purchased) ■ IEEE 802.16 Standard for Broadband Wireless Access ■ WiMAX (Worldwide Interoperability for Microwave Access) certified by the WiMAX Forum.

[Page 174: Radio Characteristics](#)

Wireless LAN Radio Characteristics Radio Characteristics of Wireless LAN Cards may vary according to: ■ Country/region where the product was purchased ■ Type of product Wireless communication is often subject to local radio regulations. Although Wireless LAN wireless networking products have been designed for operation in the license-free 2.4GHz and 5GHz band, local radio regulations may impose a number of limitations to the use of wireless communication equipment.

[Page 175](#) Subject to the radio regulations that apply in the countries/regions, your Wireless LAN card may support a different set of 2.4 GHz channels. Consult your Authorized Wireless LAN or TOSHIBA Sales office for information about the radio regulations that apply in the countries/regions.

[Page 176: Certification Agencies](#)

AC Power Cord and Connectors Appendix D 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 177](#) AC Power Cord and Connectors The following illustrations show the plug shapes for the U.S.A. and Canada, the United Kingdom, Australia and Europe. USA and Canada United Kingdom UL approved BS approved CSA approved Australia Europe AS approved Approved by the appropriate agency User's Manual...

[Page 178](#) 5°C to 35°C (41°F to 95°F) or >25°C (77°F) at high altitude (all temperature references are approximate and may vary depending on the specific computer model - please refer to your computer documentation or visit the Toshiba website at <http://www.pcsupport.toshiba.com> for details).

[Page 179: Battery Life](#)

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 180: External Hdd Capacity](#)

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. 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 181: Copy Protection](#)

Disclaimers Non-applicable Icons Certain 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 182: Toshiba Pc Health Monitor](#)

■ Once enabled, you may disable the TOSHIBA PC Health Monitor at any time by uninstalling the software via Uninstall a program in the Control Panel. Doing so will automatically delete all collected information from the HDD.

[Page 183: Starting The Toshiba Pc Health Monitor](#)

PC Health Monitor. ■ Click the icon in the notification area, then click the "TOSHIBA PC Health Monitor is not enabled. Please click here for more details." message when it is displayed. This message will no longer be displayed after clicking "Please enable software now"...

[Page 184: 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 185: Toshiba Theft Registration](#)

If your computer is stolen TOSHIBA Theft Registration Send to: TOSHIBA Europe GmbH Technical Service and Support Blumenstrasse 26 93055 Regensburg Germany Fax number: +49 (0) 941 7807 921 Country stolen: Machine type: (e.g. TOSHIBA P500/P500D/X500) Model number: (e.g. PSL45E-YXT) Serial number: (e.g.

[Page 186](#) Glossary Glossary The terms in this glossary cover topics related to this manual. Alternate naming is included for reference. Abbreviations AACs: advanced access content system AC: Alternating current ACPI: Advanced Configuration and Power Interface AMT: Intel Active Management Technology ASCII: American Standard Code for Information Interchange BIOS: basic input/output system bps: bits per second CD: compact disc...

[Page 187](#) Glossary HDD: hard disk drive HDCP: high-bandwidth digital content protection HDMI: high definition multimedia interface HDMI-CEC: high definition multimedia interface consumer electronics control IDE: integrated drive electronics IEEE: Institute of Electrical and Electronics Engineers IMSM: Intel Matrix Storage Manager I/O: input/output IRQ: interrupt request KB: kilobyte LAN: local area network...

[Page 188](#) Glossary adaptor: A device that provides a compatible connection between two units. For example, the computer's internal display adapter receives information from the software and translates it into images on the screen. An adaptor can take a number of forms, from a microprocessor to a simple connector: An intelligent adaptor (one that is capable of doing some processing) may also be called a controller.

[Page 189](#) Glossary boot: Short for bootstrap. A program that starts or restarts the computer. The program reads instructions from a storage device into the computer's memory. boot disk: See system disk. bootable disk: See system disk. bps: Bits per second. Typically used to describe the data transmission speed of a modem.

[Page 190](#) Glossary click: To press and release the pointing device's primary button without moving the pointing device. In the Windows operating system, this refers to the pointing device's left button, unless otherwise stated. See also double-click. CMOS: Complementary Metal-Oxide Semiconductor. An electronic circuit fabricated on a silicon wafer that requires very little power.

[Page 191](#) Glossary data bits: A data communications parameter controlling the number of bits (binary digits) used to make up a byte. If data bits = 7 the computer can generate 128 unique characters. If data bits = 8 the computer can generate 256 unique characters. DC: Direct Current.

[Page 192](#) Glossary DVD-ROM: A Digital Versatile Disc-Read Only Memory is a high capacity, high performance disc suitable for play back of video and other high-density files. The DVD-ROM

drive uses a laser to read data from the disc. DVD-RW (+RW, -RW): A Digital Versatile Disc-ReWritable disc can be rewritten many times.

[Page 193](#) FN, can be used to set system parameters, such as speaker volume. HW Setup: A TOSHIBA utility that lets you set the parameters for various hardware components. icon: A small graphic image displayed on the screen or in the indicator panel.

[Page 194](#) Glossary input: The data or instructions you provide to a computer, communication device or other peripheral device from the keyboard or external or internal storage devices. The data sent (or output) by the sending computer is input for the receiving computer. instruction: Statements or commands that specify how to perform a particular task.

[Page 195](#) Glossary 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. Applying a voltage between the glass sheets.

[Page 196](#) Glossary nonvolatile memory: Memory that is capable of permanently storing information. Turning the computer's power off does not alter data stored in nonvolatile memory. numeric keypad overlay: A feature that allows you to use certain keys on the keyboard to perform numeric entry, or to control cursor and page movement.

[Page 197](#) The electrical connection through which the computer sends and receives data to and from devices or other computers. Power Saver: A TOSHIBA utility that lets you set the parameters for various power-saving functions. program: A set of instructions a computer can execute that enables it to achieve a desired result.

[Page 198](#) Glossary Read Only Memory (ROM): Non-volatile memory that can be read but not written to. Non-volatile here means that information in ROM remains whether or not the computer is receiving power. This type of memory is used to store your computer's BIOS, which is essential instructions the computer reads when you start it up.

[Page 199](#) 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. Touch Pad: A pointing device integrated into the TOSHIBA computer palm rest. USB: Universal Serial Bus. This serial interface lets you communicate with several devices connected in a chain to a single port on the computer.

[Page 200](#) Fn + F7 (Display Brightness Bluetooth Stack for increases), 5-3 Windows by Fn + F8 (Wireless setting), 5-3 Toshiba, 1-13 Fn + F9 (Touch Pad), 5-3 Fn Sticky key, 5-4 Function keys, 5-2 Cleaning the computer, 4-41 Graphics controller, 1-7...

[Page 201](#) Real Time Clock, 9-6 Memory, 1-3 Self test, 9-3 expansion, 1-16, 8-6 Sound system, 9-14 installing, 8-7 Support removing, 8-9 from TOSHIBA, Modem, 4-38 9-16 Monitor, external, 1-7, 8-10 System start-up, 9-3 USB, 9-11 Wireless LAN, 9-15 Ports, 1-7 Processor, 1-2...

[Page 202](#) ScrLock, 5-2 Sound System, 1-8 Headphone (S/P DIF) jack, 1-8 microphone jack, 1-8 mute hot keys, 5-2 TOSHIBA ConfigFree, 1-14 TOSHIBA Theft Registration, G-2 Touch Pad, 1-7 using, 4-1 USB, 1-7 Video RAM, 1-3 Wireless communication switch, 4-40 indicator, 4-40...

This manual is also suitable for:

[X500P500d](#)