

**TOSHIBA**  
Leading Innovation >>>

# User's Manual

**U920t**

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# Chapter 1

## TOSHIBA Legal, Regulatory and Safety

This chapter states the legal, regulatory and safety information applicable to TOSHIBA computers.

### Copyright, Disclaimer and Trademarks

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#### Disclaimer

This manual has been validated and reviewed for accuracy. The instructions and descriptions it contains are accurate for your computer at the time of this manual's production. However, succeeding computers and manuals are subject to change without notice. TOSHIBA assumes no liability for damages incurred directly or indirectly from errors, omissions or discrepancies between the computer and the manual.

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Other trademarks and registered trademarks not listed above may be used in this manual.

## Regulatory Information

### FCC information

#### ***FCC notice "Declaration of Conformity Information"***

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

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



*Only peripherals complying with the FCC class B limits may be attached to this equipment. Operation with non-compliant peripherals or peripherals not recommended by TOSHIBA is likely to result in interference to radio and TV reception. Shielded cables must be used between the external devices*

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*and the computer's External RGB monitor port, Universal Serial Bus (USB 2.0 and 3.0) ports, HDMI port and microphone jack. Changes or modifications made to this equipment, not expressly approved by TOSHIBA or parties authorized by TOSHIBA could void the user's authority to operate the equipment.*

### ***FCC conditions***

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

### ***Contact***

**Address:** TOSHIBA America Information Systems, Inc.  
9740 Irvine Boulevard  
Irvine, California 92618-1697

**Telephone:** (949) 583-3000

## **EU Declaration of Conformity**



This product is carrying the CE-Mark in accordance with the related European Directives. Responsible for CE-Marking is TOSHIBA Europe GmbH, Hammfelddamm 8, 41460 Neuss, Germany. The complete and official EU Declaration of Conformity can be found on TOSHIBA's web site <http://epps.toshiba-teg.com> on the Internet.

### ***CE compliance***

This product is labelled with the CE Mark in accordance with the related European Directives, notably Electromagnetic Compatibility Directive 2004/108/EC for the notebook and the electronic accessories including the supplied power adapter, the Radio Equipment and Telecommunications Terminal Equipment Directive 1999/5/EC in case of implemented telecommunication accessories and the Low Voltage Directive 2006/95/EC for the supplied power adapter. Furthermore the product complies with the Ecodesign Directive 2009/125/EC (ErP) and its related implementing measures.

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This product and the original options are designed to observe the related 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. To avoid general EMC problems, the following guidance should be noted:

- Only CE marked options should be connected/implemented
- Only best shielded cables should be connected

### ***Working environment***

This product was designed to fulfil the EMC (Electromagnetic Compatibility) requirements to be observed for so-called "Residential, commercial and light industry environments". 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 380 V three-phase is used)
- Medical Environments
- Automotive Environments
- Aircraft Environments

Any consequences resulting from the use of this product in working environments that are not approved are not the responsibility of TOSHIBA.

The consequences of the use of this product in non-approved working environments may be:

- Interference with other devices or machines in the near surrounding area.
- Malfunction of, or data loss from, this product caused by disturbances generated by other devices or machines in the near surrounding area.

Therefore TOSHIBA strongly recommend that the electromagnetic compatibility of this product should be suitably tested in all non-approved working environments before use. In the case of automobiles or aircraft, the manufacturer or airline respectively should be asked for permission before use of this product.

Furthermore, for general safety reasons, the use of this product in environments with explosive atmospheres is not permitted.

## **Canadian regulatory information (Canada only)**

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulation of the Canadian Department of Communications.



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Note that Canadian Department of Communications (DOC) regulations provide, that changes or modifications not expressly approved by TOSHIBA Corporation could void your authority to operate this equipment.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

## **Following information is only valid for EU-member States:**

### ***Disposal of products***



The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centres.

The black bar indicates that the product was placed on the market after August 13, 2005.

By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

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.

## Disposal of batteries and/or accumulators



Pb, Hg, Cd

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

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.



*These symbols may not stick depending on the country and region where you purchased.*

## REACH - Compliance Statement

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.

Please consult the following website [www.toshiba-europe.com/computers/info/reach](http://www.toshiba-europe.com/computers/info/reach) for information about the presence in our articles of substances included on the candidate list according to article 59(1) of Regulation (EC) No 1907/2006 („REACH“) in a concentration above 0.1 % weight by weight.

## 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 9241-307 standards. If the number of pixel failures is less than this standard, they will not be counted as defect or failure.

- 
- Battery is a consumption product, since the battery time depends on the usage of your computer. If the battery can not be charged at all, then it is a defect or failure. The changes in battery time is not a defect or failure.

## Video Standard Notice

THIS PRODUCT IS LICENSED UNDER THE AVC, THE VC-1 AND MPEG-4 VISUAL PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER FOR (I) ENCODING VIDEO IN COMPLIANCE WITH THE ABOVE STANDARDS ("VIDEO") AND/OR (II) DECODING AVC, VC-1 AND MPEG-4 VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NONCOMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED BY MPEG LA TO PROVIDE SUCH VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION INCLUDING THAT RELATING TO PROMOTIONAL, INTERNAL AND COMMERCIAL USES AND LICENSING MAY BE OBTAINED FROM MPEG LA, L.L.C. SEE [HTTP://WWW.MPEGLA.COM](http://www.mpegla.com).

## OpenSSL Toolkit License Issues

### LICENSE ISSUES

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The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact [openssl-core@openssl.org](mailto:openssl-core@openssl.org).

### OpenSSL License

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=====

This product includes cryptographic software written by Eric Young ([eay@cryptsoft.com](mailto:eay@cryptsoft.com)). This product includes software written by Tim Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)).

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Original SSLeay License

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This package is an SSL implementation written by Eric Young ([eay@cryptsoft.com](mailto:eay@cryptsoft.com)).

The implementation was written so as to conform with Netscapes SSL.

This library is free for commercial and non-commercial use as long as the following conditions are aheared to. The following conditions apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)).

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## ENERGY STAR® Program



Your Computer model may be ENERGY STAR® compliant. If the model you purchased is compliant, it is labeled with the ENERGY STAR logo on the computer and the following information applies.

TOSHIBA is a partner in the ENERGY STAR Program and has designed this computer to meet the latest ENERGY STAR guidelines for energy efficiency. Your computer ships with the power management options preset to a configuration that will provide the most stable operating environment and optimum system performance for both AC power and battery modes.

To conserve energy, your computer is set to enter the low-power Sleep Mode which shuts down the system and display within 15 minutes of inactivity in AC power mode.

TOSHIBA recommends that you leave this and other energy saving features active, so that your computer will operate at its maximum energy efficiency. You can wake the computer from Sleep Mode by pressing the power button.

Products that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the US EPA and the EU Commission. According to the EPA, a computer meeting the new ENERGY STAR specifications will use between 20% and 50% less energy depending on how it is used. Visit <http://www.eu-energystar.org> or <http://www.energystar.gov> for more information regarding the ENERGY STAR Program.

## Disposing of the computer and the computer's batteries

Contact an authorized TOSHIBA service provider for details regarding how to dispose of the computer and the batteries.

## 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.

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## Provide adequate ventilation

Always make sure your computer and AC adaptor have adequate ventilation and are protected from overheating when the power is turned on or when an AC adaptor is connected to a power outlet (even if your computer is in Sleep Mode). In this condition, observe the following:

- Never cover your computer or AC adaptor with any object.
- Never place your computer or AC adaptor near a heat source, such as an electric blanket or heater.
- Never cover or block the air vents including those located at the base of the computer.
- Always operate your computer on a hard flat surface. Using your computer on a carpet or other soft material can block the vents.
- Always provide sufficient space around the computer.
- Overheating your computer or AC adaptor could cause system failure, computer or AC adaptor damage or a fire, possibly resulting in serious injury.

## 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. Otherwise, they may overheat.

To keep your computer in prime operating condition, protect your work area from:

- Dust, moisture, and direct sunlight.
- Equipment that generates a strong electromagnetic field, such as stereo speakers (other than speakers that are connected to the computer) or speakerphones.
- Rapid changes in temperature or humidity and sources of temperature change such as air conditioner vents or heaters.
- Extreme heat, cold, or humidity.
- Liquids and corrosive chemicals.

## Stress injury

Carefully read the *Instruction Manual for Safety and Comfort*. It contains information on the prevention of stress injuries to your hands and wrists that can be caused by extensive keyboard use. It also includes information on work space design, posture and lighting that can help reduce physical stress.

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## 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.
- If the computer has been used for a long time, avoid direct contact with the metal plate supporting the various interface ports as this can become hot.
- The surface of the AC adaptor can become hot when in use but this condition does not indicate a malfunction. If you need to transport the AC adaptor, you should disconnect it and let it cool before moving it.
- Do not lay the AC adaptor on a material that is sensitive to heat as the material could become damaged.

## Pressure or impact damage

Do not apply heavy pressure to the computer or subject it to any form of strong impact as this can damage the computer's components or otherwise cause it to malfunction.

## 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.

## Instruction Manual for Safety and Comfort

All important information on the safe and proper use of this computer is described in the enclosed Instruction Manual for Safety and Comfort. Be sure to read it before using the computer.

## Information for Wireless Devices

### Wireless LAN Interoperability

The Wireless LAN is compatible with other LAN systems Direct Sequence Spread Spectrum (DSSS) /Orthogonal Frequency Division Multiplexing (OFDM) radio technology, and is compliant to:

- The IEEE 802.11 Standard on Wireless LANs (Revision a/b/g/n or b/g/n), as defined and approved by the Institute of Electrical and Electronics Engineers.



## Bluetooth wireless technology Interoperability

Bluetooth™ Cards are designed to be interoperable with any product with Bluetooth wireless technology that is based on Frequency Hopping Spread Spectrum (FHSS) radio technology, and is compliant to:

- Bluetooth Specification (depending on the model you purchased), as defined and approved by the Bluetooth Special Interest Group.
- Logo certification with Bluetooth wireless technology as defined by the Bluetooth Special interest Group.



*Please note that it is not possible to confirm the operation of all functions of all Bluetooth devices that are available. In view of this it may be noted that some functions associated with a specific device might not operate properly.*

## CAUTION about Wireless Devices



*The wireless devices have not completed verification of connection and operation with all devices which are using the Wireless LAN or Bluetooth radio technology.*

*Bluetooth and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use Bluetooth and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network performance or even lose your network connection.*

*If you should experience any such problem, immediately turn off either one of your Bluetooth or Wireless LAN.*

*Please visit <http://www.pc.support.global.toshiba.com>, if you have any questions about using Wireless LAN or Bluetooth Card from TOSHIBA.*

*In Europe visit <http://www.toshiba-europe.com/computers/tnt/bluetooth.htm>*

*Your Bluetooth product is not compatible with devices using Bluetooth Version 1.0B specifications*

## Wireless Devices and your health

Wireless products, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by Wireless products however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Because Wireless products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless products is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

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In some situations or environments, the use of Wireless products may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

- Using the Wireless products equipment on board of airplanes, or
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization or environment (e.g. airports), you are encouraged to ask for authorization to use the Wireless device prior to turning on the equipment.

## Radio Regulatory Information

The Wireless device is must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product. This product complies with the following radio frequency and safety standards.

### *Europe*

#### *Restrictions for Use of 2400.0-2483.5MHz Frequencies in Europe*

<b>France:</b>	Outdoor use limited to 10mW e.i.r.p. within the band 2454-2483.5MHz	Military Radio location use. Refarming of the 2.4GHz band has been ongoing in recent years to allow current relaxed regulation Full implementation planned 2012.
<b>Italy:</b>	-	For private use, a general authorization is required if WAS/ RLAN's are used outside own premises. For public use, a general authorization is required.
<b>Luxembourg:</b>	Implemented	General authorization required for network and service supply.
<b>Norway:</b>	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Alesund.
<b>Russian Federation:</b>	-	Only for indoor applications.

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### ***Restrictions for Use of 5150-5350MHz Frequencies in Europe***

<b>Italy:</b>	-	For private use, a general authorization is required if WAS/ RLAN's are used outside own premises.
<b>Luxembourg:</b>	Implemented	General authorization required for network and service supply.
<b>Russian Federation:</b>	Limited	e.i.r.p 100mW. Permitted to use only for indoor applications, closed industrial and warehouse areas, and on board aircraft. <ol style="list-style-type: none"><li>1. Permitted to use for local networks of aircraft crew service communications on board aircraft in area of the airport and at all stages of flight.</li><li>2. Permitted to use for public wireless access local networks on board aircraft during a flight at the altitude not less than 3000m.</li></ol>

### ***Restrictions for Use of 5470-5725MHz Frequencies in Europe***

<b>Italy:</b>	-	For private use, a general authorization is required if WAS/ RLAN's are used outside own premises.
<b>Luxembourg:</b>	Implemented	General authorization required for network and service supply

<b>Russian Federation:</b>	Limited	e.i.r.p 100mW. Permitted to use only for indoor applications, closed industrial and warehouse areas, and on board aircraft.
		<ol style="list-style-type: none"> <li>1. Permitted to use for local networks of aircraft crew service communications on board aircraft in area of the airport and at all stages of flight.</li> <li>2. Permitted to use for public wireless access local networks on board aircraft during a flight at the altitude not less than 3000m.</li> </ol>

To remain in conformance with European spectrum usage laws for Wireless LAN operation, the above 2.4GHz and 5GHz channel limitations apply for outdoor usage. The user should use the wireless LAN utility to check the current channel of operation. If operation is occurring outside of the allowable frequencies for outdoor use, as listed above, the user must contact the applicable national spectrum regulator to request a license for outdoor operation.

### ***Canada - Industry Canada (IC)***

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

The County Code Selection feature is disabled for products marketed in the US/Canada.

For product available in the USA/ Canada markets, only channel 1~11 can be operated. Selection of other channels is not possible.

#### **IMPORTANT NOTE:**

#### **IC Radiation Exposure Statement**

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This EUT is compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528.

### ***USA-Federal Communications Commission (FCC)***

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Refer to the FCC information section for the detailed information.

### ***Caution: Exposure to Radio Frequency Radiation***

The radiated output power of the Wireless device is far below the FCC radio frequency exposure limits. Nevertheless, the Wireless device shall be used in such a manner that the potential for human contact during normal operation is minimized.

In the usual operating configuration, the distance between the antenna and the user should not be less than 20cm. Please refer to the computer user's manual for the details regarding antenna location.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website [www.hc-sc.gc.ca](http://www.hc-sc.gc.ca)

### ***Caution: Radio Frequency Interference Requirements***

This device is restricted to indoor use due to its operation in the 5.15 to 5.25GHz frequency range.

### ***Taiwan***

#### **Article 12**

Without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to an approved low power radio frequency devices.

## Article 14

The low power radio-frequency devices shall not influence aircraft security and interfere legal communications;

If found, the user shall cease operating immediately until no interference is achieved.

The said legal communications means radio communications is operated in compliance with the Telecommunications Act.

The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.

### **Using this equipment in Japan**

In Japan, the frequency bandwidth of 2,400MHz to 2,483.5MHz for second generation low-power data communication systems such as this equipment overlaps that of mobile object identification systems (premises radio station and specified low-power radio station).

#### **1. Important notice**

The frequency bandwidth of this equipment may operate within the same range as industrial devices, scientific devices, medical devices, microwave ovens, licensed radio stations and non-licensed specified low-power radio stations for mobile object identification systems (RFID) used in factory production lines (Other Radio Stations).

1. Before using this equipment, ensure that it does not interfere with any of the equipment listed above.
2. If this equipment causes RF interference to other radio stations, promptly change the frequency being used, change the location of use, or turn off the source of emissions.
3. Contact an authorized TOSHIBA service provider if you have problems with interference caused by this product to Other Radio Stations.

#### **2. Indication for Wireless LAN**

The indication shown below appears on this equipment.



1. 2.4 : This equipment uses a frequency of 2.4GHz.
2. DS : This equipment uses DS-SS modulation.
3. OF : This equipment uses OFDM modulation.

4. 4 : The interference range of this equipment is less than 40m.
5. ■■■ : This equipment uses a frequency bandwidth from 2,400MHz to 2,483.5MHz. It is possible to avoid the band of mobile object identification systems.

### 3. Indication for Bluetooth

The indication shown below appears on this equipment.



1. 2.4 : This equipment uses a frequency of 2.4 GHz.
2. FH : This equipment uses FH-SS modulation.
3. 1 : The interference range of this equipment is less than 10 m.
4. ■■■ : This equipment uses a frequency bandwidth from 2,400 MHz to 2,483.5 MHz. It is impossible to avoid the band of mobile object identification systems.

### 4. About the JEITA

5GHz Wireless LAN supports W52/W53/W56 Channel.



## Device Authorization

This device obtains the Technical Regulation Conformity Certification and it belongs to the device class of radio equipment of low-power data communication system radio station stipulated in the Telecommunications Business Law of Japan.

- Intel® Centrino® Wireless-N 2230 Wireless LAN and Bluetooth  
The Name of the radio equipment: 2230BNHMW  
DSP Research, Inc.  
Approval Number: D111287003
- Atheros AR9485WB-EG Wireless Network Adapter Wireless LAN and Bluetooth  
The Name of the radio equipment: AR5B225  
DSP Research, Inc.  
Approval Number: D110317003

The following restrictions apply:

- Do not disassemble or modify the device.
- Do not install the embedded wireless module into other device.

---

## Radio approvals for wireless devices

### *Approved Countries/Regions for Wireless Devices*

This equipment is approved to the radio standard by the countries/regions in the following table.



*Do not use this equipment in the countries/regions which are not listed in the table below.*

As of Aug. 2012

Algeria	Argentina	Armenia	Australia
Austria	Azerbaijan	Bahrain	Bangladesh
Belarus	Belgium	Benin	Bolivia
Bulgaria	Burkina Faso	Burundi	Cambodia
Cameroon	Canada	Central Africa	Chad
Chile	Colombia	Comoros	Costa Rica
Croatia	Czech Republic	Denmark	Djibouti
Ecuador	El Salvador	Estonia	Finland
France	Gambia	Georgia	Germany
Greece	Guatemala	Guinea	Equatorial Guinea
Honduras	Hungary	Iceland	India
Indonesia	Ireland	Israel	Italy
Ivory Coast	Japan	Kazakhstan	Kyrgyzstan
Latvia	Lesotho	Liberia	Libya
Liechtenstein	Lithuania	Luxembourg	Madagascar
Malawi	Malaysia	Malta	Mauritius
Mexico	Moldova	Monaco	Montenegro
Morocco	Netherlands	New Zealand	Nicaragua
Niger	Norway	Pakistan	Panama
Papua New Guinea	Paraguay	Peru	Philippines
Poland	Portugal	Puerto Rico	Dominican Republic
Reunion	Romania	Russia	Rwanda
Senegal	Serbia	Sierra Leone	Singapore



Slovak Republic	Slovenia	Korea	Spain
Sri Lanka	Swaziland	Sweden	Switzerland
Taiwan	Tajikistan	Thailand	Togo
Tunisia	Turkey	Turkmenistan	Ukraine
United Kingdom	United States	Uruguay	Uzbekistan
Bolivarian Republic of Venezuela			

## Legal Footnotes

### Non-applicable Icons

Certain computer chassis are designed to accommodate all possible configurations for an entire product series. Therefore, please be aware that your selected model may not have all the features and specifications corresponding to all of the icons or switches shown on the computer chassis.

### CPU

Central Processing Unit (CPU) Performance Legal Footnotes.

CPU performance in your computer product may vary from specifications under the following conditions:

- use of certain external peripheral products
- use of battery power instead of AC power
- use of certain multimedia, computer generated graphics or video applications
- use of standard telephone lines or low speed network connections
- use of complex modeling software, such as high end computer aided design applications
- use of several applications or functionalities simultaneously
- use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
- use of computer at temperatures outside the range of 5°C to 30°C (41°F to 86°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 [www.pcsupport.toshiba.com](http://www.pcsupport.toshiba.com) for details).

CPU performance may also vary from specifications due to design configuration.

Under some conditions, your computer product may automatically shut-down. This is a normal protective feature designed to reduce the risk of lost data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data

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by periodically storing it on an external storage medium. For optimum performance, use your computer product only under recommended conditions. Read additional restrictions in your product documentation. Contact TOSHIBA technical service and support, refer to [TOSHIBA support](#) section for more information.

### **64-Bit Computing**

64-bit processors are designed to take advantage of 32 and 64 bit computing.

64-bit computing requires that the following hardware and software requirements are met:

- 64-bit Operating System
- 64-bit CPU, Chipset and BIOS (Basic Input/Output System)
- 64-bit Device drivers
- 64-bit applications

Certain device drivers and/or applications may not be compatible with a 64-bit CPU and therefore may not function properly.

## **Memory (Main System)**

Part of the main system memory may be used by the graphics system for graphics performance and therefore reduce the amount of main system memory available for other computing activities. The amount of main system memory allocated to support graphics may vary depending on the graphics system, applications utilized, system memory size and other factors.

If your computer is configured with more than 3 GB memory, the memory might be displayed as approximately 3 GB only (depending on the computer's hardware specifications).

This is correct because the operating system usually displays the available memory instead of the physical memory (RAM) built into the computer.

Various system components (like the video adapter's GPU and PCI devices like Wireless LAN, etc.) require their own memory space. Since a 32-bit operating system cannot address more than 4 GB of memory, these system resources overlap the physical memory. It is a technical limitation that the overlapped memory is not available to the operating system. Even though some tools might display the actual physical memory built into your computer, the memory available to the operating system will still be approximately 3 GB only.

Computers configured with a 64-bit operating system can address 4 GB or more of system memory.

## **Battery Life**

Battery life may vary considerably depending on product model, configuration, applications, power management settings and features

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utilized, as well as the natural performance variations produced by the design of individual components. 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.

After going through many charge and discharge cycles, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is a normal phenomenon for all batteries.

## **Solid State Drive (SSD) Capacity**

1 Gigabyte (GB) means  $10^9 = 1,000,000,000$  bytes using powers of 10. The computer operating system, however, reports storage capacity using powers of 2 for the definition of  $1 \text{ GB} = 2^{30} = 1,073,741,824$  bytes, and therefore shows less storage capacity. Available storage capacity will also be less if the product includes one or more pre-installed operating systems, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

## **LCD**

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 may not be able to increase the brightness of the screen.

## **Graphics Processing Unit (GPU)**

Graphics processing unit (GPU) performance may vary depending on product model, design configuration, applications, power management settings and features utilized. GPU performance is only optimized when operating in AC power mode and may decrease considerably when operating in battery power mode.

Total Available Graphics Memory is the total of, as applicable, Dedicated Video Memory, System Video Memory and Shared System Memory. Shared System Memory will vary depending on system memory size and other factors.

## **Wireless LAN**

The transmission speed over the wireless LAN and the distance over which wireless LAN can reach may vary depending on surrounding electromagnetic environment, obstacles, access point design and configuration, and client design and software/hardware configurations.

The actual transmission speed will be lower than the theoretical maximum speed.

---

## Copy Protection

Applicable copy protection standards included in certain media may prevent or limit recording or viewing of the media.

## Messages

Messages are used in this manual to bring important information to your attention. Each type of message is identified as shown below.



*Indicates a potentially hazardous situation, which could result in death or serious injury, if you do not follow instructions.*



*Pay attention! A caution informs you that improper use of equipment or failure to follow instructions may cause data loss or damage your equipment.*



*Please read. A note is a hint or advice that helps you make best use of your equipment.*

---

# Chapter 2

## Getting Started

This chapter provides an equipment checklist, and basic information to start using your computer.



*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, taking care to save the box and packaging materials for future use.

#### Hardware

Check to make sure you have all the following items:

- TOSHIBA Portable Personal Computer
- AC adaptor and power cord (2-pin plug or 3-pin plug)

#### Documentation

- Quickstart
- Instruction Manual for Safety and Comfort
- Warranty information

If any of the items are missing or damaged, contact your dealer immediately.


### Conventions

This manual uses the following formats to describe, identify, and highlight terms and operating procedures.

---

<b>Click</b>	<ul style="list-style-type: none"><li>■ Tap the Touch Pad or click the left Touch Pad control button once.</li><li>■ Left-click the mouse once.</li><li>■ Tap the touch screen once.</li></ul>
<b>Right-click</b>	<ul style="list-style-type: none"><li>■ Click the right Touch Pad control button once.</li><li>■ Right-click the mouse once.</li><li>■ Press and hold on the touch screen.</li></ul>

---

<b>Double-click</b>	<ul style="list-style-type: none"> <li>■ Tap the Touch Pad or click the left Touch Pad control button twice.</li> <li>■ Left-click the mouse twice.</li> <li>■ Tap the touch screen twice.</li> </ul>
<b>Charm</b>	By swiping in from the right edge or pointing the mouse pointer to the lower-right (or upper-right) corner of your screen, you will find a list of charms: <b>Search</b> , <b>Share</b> , <b>Start</b> , <b>Devices</b> and <b>Settings</b> .
<b>Desktop</b>	Click the <b>Desktop</b> tile from the Start screen to access the desktop.
<b>Start screen</b>	You can go to the Start screen by clicking the <b>Start</b> charm. You can also use the Windows logo key (  ) on your keyboard to go to Start screen. For detailed information, please refer to the Windows Help and Support.

## Using your product 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. It is intended to help you be more comfortable and productive while using a notebook computer. By following the recommendations in it you may reduce your chance of developing a painful or disabling injury to your hand, arms, shoulders or neck.*

This section provides basic information to start using your computer. It covers the following topics:

- About the computer mode
- Connecting the AC adaptor
- Turning on the power
- Initial setup
- Getting to know the Start screen



- *Use a virus-check program and make sure it is updated regularly.*
- *Never format storage media without checking its content - formatting destroys all stored data.*
- *It is a good idea to periodically back up the internal SSD or other main storage device to external media. General storage media is not durable or stable over long periods of time and under certain conditions may result in data loss.*

- *Before you install a device or application, save any data in memory to the SSD or other storage media. Failure to do so may result in the loss of data.*

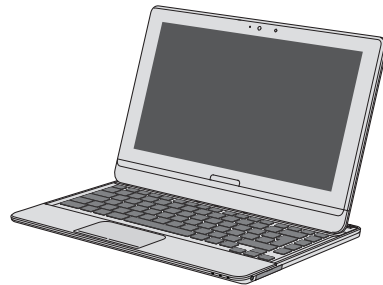
## About the computer's modes

The computer can be used as a tablet computer, a normal laptop computer or a photography computer. In this manual, the corresponding uses are called "Tablet mode", "Laptop mode" and "Photography mode" respectively.

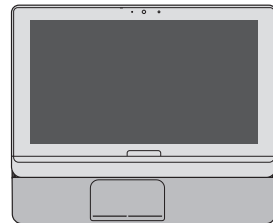
Tablet mode



Laptop mode



Photography mode



*Disconnect the AC adaptor before moving or lifting up the computer in Laptop mode.*

*Disconnect the AC adaptor, USB device and HDMI cable on the back of the computer before sliding the display panel.*

*Disconnect the AC adaptor and all peripherals/cables while operating the computer in Photography mode.*



*When operating the computer in Photography Mode or Tablet Mode, cooling performance has a higher priority than CPU performance, in order to avoid an increase in temperature. If you require higher CPU performance, please change the computer to Laptop mode.*

### ***Changing to the Laptop mode***

To use the computer as a normal laptop computer with its internal keyboard:

1. Hold the computer with two hands on both the left and right sides.
2. Slowly slide the display panel along the main body with two hands.



*Please carefully slide out the display panel evenly from both sides without excessive or sudden force.*

3. Slide the display panel to the end as far as you can.
4. While holding down the main body with your palms to ensure the main body of the computer is not raised, slowly lift the display panel with your fingers.

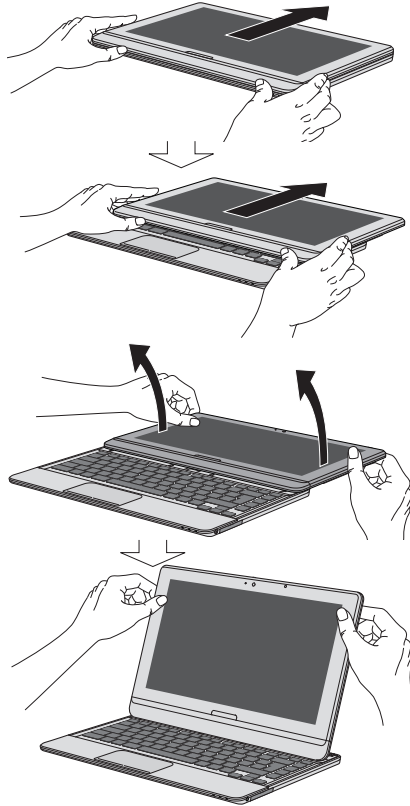


■ *Keep your hands away from the keyboard to avoid nipping your hands when lifting the display panel.*

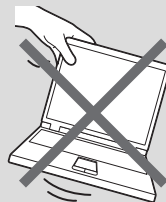
■ *Slide and lift the display panel carefully. Violent sliding or lifting could damage the computer.*



Figure 2-4 Changing to the Laptop mode



- Do not lift the computer by the display panel.



## Connecting the AC adaptor

Attach the AC adaptor when you need to charge the battery or you want to operate from AC power. It is also the fastest way to get started, because the battery pack will need to be charged before you can operate from battery power.

---

The AC adaptor can automatically adjust to any voltage ranging from 100 to 240 volts and to a frequency of either 50 or 60 hertz, enabling you to use this computer in almost any country/region. The adaptor converts AC power to DC power and reduces the voltage supplied to this computer.



- *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. TOSHIBA assumes no liability for any damage caused by use of an incompatible adaptor.*
- *Never plug the AC adaptor into a power source that does not correspond to both the voltage and the frequency specified on the regulatory label of the unit. Failure to do so could result in a fire or electric shock, possibly resulting in serious injury.*
- *Always use or purchase power cables that comply with the legal voltage and frequency specifications and requirements in the country of use. Failure to do so could result in a fire or electric shock, possibly resulting in serious injury.*
- *The supplied power cord conforms to safety rules and regulations in the region the product is bought and should not be used outside this region. For use in other regions, please buy power cords that conform to safety rules and regulations in the particular region.*
- *Do not use a 3-pin to 2-pin conversion plug.*
- *When you connect the AC adaptor to the computer, always follow the steps in the exact order as described in the User's Manual. Connecting the power cable to a live electrical outlet should be the last step otherwise the adaptor DC output plug could hold an electrical charge and cause an electrical shock or minor bodily injury when touched. As a general safety precaution, avoid touching any metal parts.*
- *Never place your computer or AC adaptor on a wooden surface, furniture, or any other surface that could be marred by exposure to heat since the computer base and AC adaptor's surface increase in temperature during normal use.*
- *Always place your computer or AC adaptor on a flat and hard surface that is resistant to heat damage.*

*Refer to the enclosed Instruction Manual for Safety and Comfort for detailed precautions and handling instructions.*

1. Connect the power cord to the AC adaptor.

Figure 2-5 Connecting the power cord to the AC adaptor (2-pin plug)

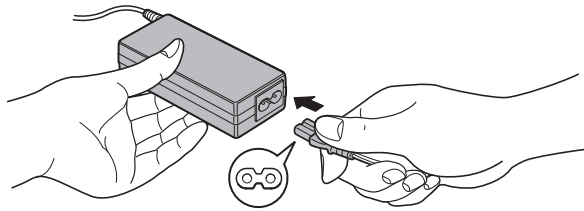
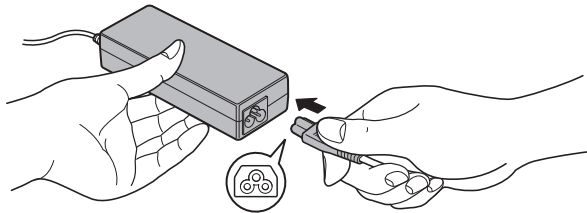


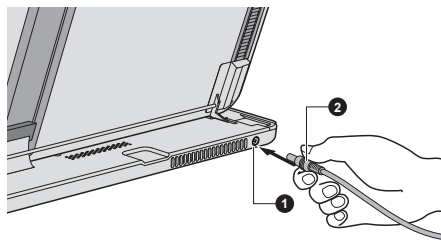
Figure 2-6 Connecting the power cord to the AC adaptor (3-pin plug)



*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 back of the computer.

Figure 2-7 Connecting the DC output plug to the computer



1. DC IN 19V jack

2. DC output plug

3. Plug the power cord into a live wall outlet - the **DC IN/Battery** indicator on the front of the computer should glow.

## Turning on the power

This section describes how to turn on the power - the **Power** indicator will then indicate the status. Please refer to the [Monitoring of power condition](#) section for more information.

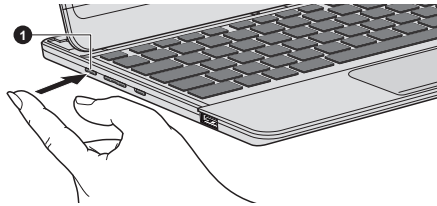


- After you turn on the power for the first time, do not turn it off until you have set up the operating system.
- Volume cannot be adjusted during Windows Setup.

---

Press and hold the computer's power button for two or three seconds to turn on the computer.

Figure 2-8 Turning on the power



1. Power button

## Initial setup

The Windows 8 Startup Screen will be the first screen displayed when you turn on the power. Follow the on-screen instructions on each screen in order to properly install the operating system.



When it is displayed, be sure to read the **License Terms** carefully.

## Getting to know the Start screen

The Windows 8 Start screen provides you a new and easy way to access your favorite things, such as apps, websites and contacts.

By pointing the mouse pointer to the lower-right (or upper-right) corner of your screen, you will find a list of charms with different demands, including basic tasks such as turning off the power and advanced PC settings.

You can also find the settings and features by clicking the **Desktop** tile from the Start screen.

For detailed information on what is new and how to operate Windows 8, please refer to the Windows Help and Support.

## Turning off the power

The power can be turned off in one of the following modes, either Shut Down Mode, Sleep Mode or Hibernation mode.

### Shut Down Mode

When you turn off the power in Shut Down Mode, no data will be saved and the computer will boot to the operating system's main screen the next time it is turned on.

1. If you have entered data, either save it to the SSD or to other storage media.



- *Never turn off the power while a disk (disc) is being accessed, otherwise you may lose data or damage the disk.*
- *Never turn off the power while an application is running. Doing so could cause loss of data.*
- *Never turn off the power, disconnect an external storage device or remove storage media during data read/write. Doing so can cause data loss.*

3. Click the **Settings** charm.
4. Click **Power** and then select **Shut down**.
5. Turn off any peripheral devices connected to your computer.



*In any emergency case, you can also press & hold Power button for about 5 seconds to force power off.*

*Do not turn the computer or peripheral devices back on immediately - wait a short period to avoid any potential damage.*

## Restarting the computer

Certain conditions require that you reset the computer, for example if:

- You change certain computer settings.
- An error occurs and the computer does not respond to your keyboard commands.

If you need to restart the computer, there are three ways this can be achieved:

- In the **Settings** charm, click **Power** and then select **Restart**.
- Press **CTRL**, **ALT** and **DEL** simultaneously (once) to display the menu window, and then select **Restart** by clicking the power icon (⏻) in the lower-right corner.
- Press the power button and hold it down for five seconds. Once the computer has turned itself off, wait between ten and fifteen seconds before turning the power on again by pressing the power button.

## Sleep Mode

If you 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.



*When you have to turn off your computer aboard an aircraft or in places where electronic devices are regulated or controlled, always completely shut down the computer. This includes turning off any wireless communication functionalities, and cancelling settings that reactivate the*

computer automatically, such as a timer recording function. Failure to completely shut down the computer in this way could allow the operating system to reactivate and run pre-programmed tasks or preserve unsaved data, which could interfere with aviation or other systems, possibly causing serious injury.



- Before entering Sleep Mode, be sure to save your data.
- Do not switch to Sleep Mode while transferring data to external media, such as USB devices, memory media or other external memory devices. Data will be lost.



- When the AC adaptor is connected, the computer will go into Sleep Mode according to the settings in the Power Options (to access it, click **Desktop -> Desktop Assist (in taskbar) -> Control Panel -> System and Security -> Power Options**).
- To restore the operation of the computer from Sleep Mode, press and hold the power button or any key on the keyboard for a short amount of time. Please note that keyboard keys can only be used if the Wake-up on Keyboard option is enabled within the TOSHIBA System Settings.
- If the computer enters Sleep Mode while a network application is active, the application might not be restored when the computer is next turned on and the system returns from Sleep Mode.
- To prevent the computer from automatically entering Sleep Mode, disable Sleep Mode within the Power Options.
- To use the Hybrid Sleep function, configure it in the Power Options.

### **Benefits of Sleep Mode**

The Sleep Mode feature provides the following benefits:

- Restores the previous working environment more rapidly than does the Hibernation Mode feature.
- Saves power by shutting down the system when the computer receives no input or hardware access for the time period set by the System Sleep Mode feature.
- Allows the use of the panel power off feature.

### **Executing Sleep Mode**

You can enter Sleep Mode in one of three ways:

- In the **Settings** charm, click **Power** and then select **Sleep**.
- Close the display panel. Please note that this feature must be enabled within the Power Options.

- Press the power button. Please note that this feature must be enabled within the Power Options.

When you turn the power back on, you can continue where you left when you shut down the computer.



- *When the computer is in Sleep Mode, the Power indicator will blink amber.*
- *If you are operating the computer on battery power, you can lengthen the overall operating time by turning it off into Hibernation Mode - Sleep Mode will consume more power while the computer is off.*

### ***Sleep Mode limitations***

Sleep Mode will not function under the following conditions:

- Power is turned back on immediately after shutting down.
- Memory circuits are exposed to static electricity or electrical noise.

## **Hibernation Mode**

The Hibernation Mode feature saves the contents of memory to the SSD when the computer is turned off so that, the next time it is turned on, the previous state is restored. Please note that the Hibernation Mode feature does not save the status of any peripheral devices connected to the computer.



- *Save your data. While entering Hibernation Mode, the computer saves the contents of memory to the SSD. However, for safety sake, it is best to save your data manually.*
- *Data will be lost if you disconnect the AC adaptor before the save is completed.*
- *Do not switch to Hibernation Mode while transferring data to external media, such as USB devices, memory media or other external memory devices. Data will be lost.*

### ***Benefits of Hibernation Mode***

The Hibernation Mode feature provides the following benefits:

- Saves data to the SSD when the computer automatically shuts down because of a low battery condition.
- You can return to your previous working environment immediately when you turn on the computer.
- Saves power by shutting down the system when the computer receives no input or hardware access for the time period set by the System Hibernate feature.
- Allows the use of the panel power off feature.

---

## **Starting Hibernation Mode**

To enter Hibernation Mode, follow the steps below.

1. Click the **Settings** charm.
2. Click **Power** and then select **Hibernate**.



*In order to show **Hibernate** in Power menu, you need to setup according to the following steps:*

1. Click **Desktop -> Desktop Assist (in taskbar) -> Control Panel -> System and Security -> Power Options**.
2. Click **Choose what the power button does**.
3. Click **Change settings that are currently unavailable**.
4. Select the **Hibernate** check box from Shutdown settings.
5. Click the **Save changes** button.

## **Automatic Hibernation Mode**

The computer can be configured to enter Hibernation Mode automatically when you press the power button or close the lid. In order to define these settings, you can follow the steps as described below:

1. Click **Power Options** and then click **Choose what the power button does**.
2. Enable the desired Hibernation Mode settings for **When I press the power button** and **When I close the lid**.
3. Click the **Save changes** button.

## **Data save in Hibernation Mode**

When you turn off the power in Hibernation Mode, the computer will take a moment to save the current data in memory to the Solid State Drive.

After you turn off the computer, and the content of memory has been saved to the Solid State Drive, turn off the power to any peripheral devices.



*Do not turn the computer or devices back on immediately. Wait a moment to let all capacitors fully discharge.*



---

# Chapter 3

## The Grand Tour

This chapter identifies the various components of the computer - it is recommended that you become familiar with each before you operate the computer.

Legal Footnote (Non-applicable Icons)

For more information regarding Non-applicable Icons, please refer to the [Legal Footnotes](#) section.



*Please handle your computer carefully to avoid scratching or damaging the surface.*

### Front

The following figures show the front of the computer.

*Figure 3-1 Front of the computer with display panel closed*

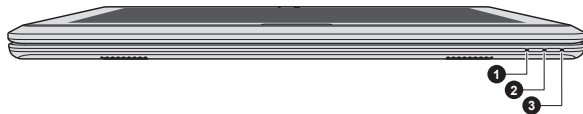
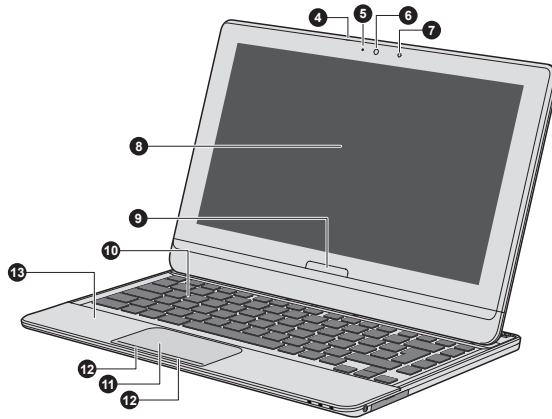


Figure 3-2 Front of the computer with display panel opened



- |                                     |  |
|-------------------------------------|--|
| 1. DC IN/Battery indicator          | 8. Display screen                                  |
| 2. Power indicator                  | 9. Windows button                                  |
| 3. Wireless communication indicator | 10. Keyboard                                       |
| 4. Microphone                       | 11. Touch Pad                                      |
| 5. Web Camera LED (front)           | 12. Touch Pad control buttons                      |
| 6. Web Camera (front)               | 13. NFC (Near Field Communication) detection area* |
| 7. Ambient light sensor             |  |

\* Provided with some models.

Product appearance depends on the model you purchased.



### DC IN/Battery indicator

The **DC IN/Battery** indicator shows the condition of the DC IN and the battery's charge - white indicates the battery is fully charged while the power is being correctly supplied from the AC power adaptor.

Please refer to the [Monitoring of power condition](#) section for more information on this feature.



### Power indicator

The **Power** indicator normally glows white when the computer is turned on. However, if you turn the computer off into Sleep Mode, this indicator will blink amber - approximately two seconds on, two seconds off.



---

**Wireless communication indicator**

The **Wireless communication** indicator glows amber when the Bluetooth, Wireless LAN or Wireless WAN functions are turned on.

Only some models are equipped with Bluetooth and Wireless LAN functions.

Some models are equipped with a Wireless WAN module.

---

**Microphone**

The built-in microphone allows you to import and record sounds for your application.

---

**Web Camera (front)**

**Web Camera** is a device that allows you to record video or take photographs with your computer. You can use it for video chatting or video conferences using a communication tool.

Enables the transmission of video and use of video chat via the internet using specialized applications.

Your computer is equipped with a front Web Camera and a back camera used for recording video or taking photographs.

---

**Web Camera LED (front)**

The Web Camera LED glows when the Web Camera is operating.

---



- *Do not point the web camera directly at the sun.*
  - *Do not touch or press strongly on the web camera lens. Doing so may reduce image quality. Use an eyeglass cleaner (cleaner cloth) or other soft cloth to clean the lens if it becomes dirty.*
- 

**Ambient light sensor**

Ambient light sensor can detect the light quality and intensity outside and can use this information automatically adjust the display screen brightness.

---

**Display screen**

31.8cm (12.5") LCD screen, configured with the following resolution:

- HD, 1366 horizontal x 768 vertical pixels

Please be aware that, when the computer is operating on the AC adaptor, the image displayed on the internal screen will be somewhat brighter than when it operates on battery power. This difference in brightness levels is intended to save power when operating on batteries.

---

## Legal Footnote (LCD)

For more information regarding LCD, please refer to the [Legal Footnotes](#) section.



### Windows button

Press this button to show the Start screen.

### Keyboard

The internal keyboard provides the dedicated cursor control keys,  and  keys.

Refer to the [The Keyboard](#) section for details.

### Touch Pad

The Touch Pad located in the palm rest is used to control the movement of the on-screen pointer. To use the Touch Pad, simply touch and move your fingertip across it in the direction you want the on-screen pointer to go.

### Touch Pad control buttons

The control buttons located on the bottom of the Touch Pad allow you to select menu items or manipulate text and graphics as designated by the on-screen pointer.



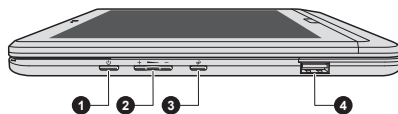
### NFC (Near Field Communication) detection area

NFC (Near Field Communication) initiates interactions immediately between people and objects close the computer. NFC enables quick ad-hoc connections from PC to PC, or PC to device, through simple physical touch, without the pre-requisite of formal pairing. The interactions are intended to be quick, simple and delightful, simplifying the interactions with daily used devices and promoting a more social computing experience. (Provided with some models.)

## Left side

The following figure shows the computer's left side.





*Figure 3-3 The left side of the computer*



1. Power button
2. Volume up/down buttons

3. Orientation lock button
4. Universal Serial Bus (USB 3.0) port

Product appearance depends on the model you purchased.

	<b>Power button</b>	Press and hold this button to turn the computer's power on or off.
	<b>Volume up/down buttons</b>	Press these buttons to increase or decrease the volume.
	<b>Orientation lock button</b>	Press to lock/unlock automatic rotation of the screen orientation.
	<b>Universal Serial Bus (USB 3.0) port</b>	<p>One Universal Serial Bus port, which complies to the USB 3.0 standard, is provided on the left side of the computer.</p> <p>The USB 3.0 port is compliant with USB 3.0 standard and backward compatible with USB 2.0 devices.</p>



*Please note that it is not possible to confirm the operation of all functions of all USB devices that are available. In view of this it may be noted that some functions associated with a specific device might not operate properly.*

*USB 3.0 port(s) may work as USB 2.0 port(s) when operating in USB Legacy Emulation mode.*

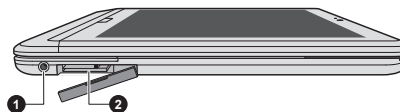


*Keep foreign metal objects, such as screws, staples and paper clips, out of the USB port. Foreign metal objects can create a short circuit, which can cause damage and fire, possibly resulting in serious injury.*

## Right side

The following figure shows the computer's right side.

*Figure 3-4 The right side of the computer*



1. Headphone/Microphone combo jack    2. Memory media slot

Product appearance depends on the model you purchased.

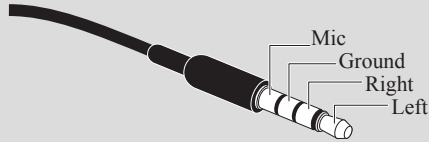


### **Headphone/ Microphone combo jack**

A 3.5 mm mini headphone/microphone combo jack enables connection of a monaural microphone or stereo headphones.



Both the internal and external microphones will be disabled if you use a headset other than the type as shown below.



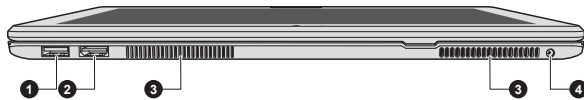
### Memory media slot

This slot lets you insert an SD™/SDHC™/SDXC™ memory card, miniSD™/microSD™ Card and MultiMediaCard™. Refer to the [Memory media](#) section for more information.

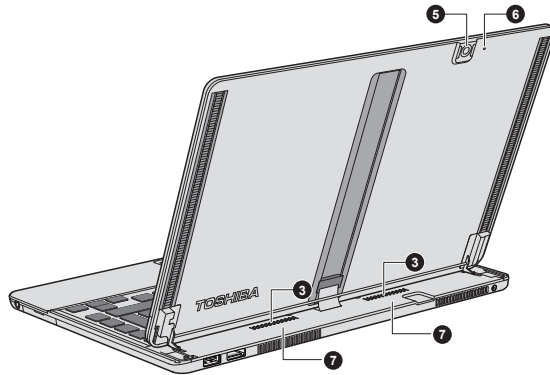
## Back

The following figure shows the computer's back.

*Figure 3-5 The back of the computer with display panel closed*



*Figure 3-6 The back of the computer with display panel opened*



1. Universal Serial Bus (USB 3.0) port
2. HDMI out port
3. Cooling vents
4. DC IN 19V jack
5. Camera (back)
6. Camera flash (back)
7. Wireless communication antennas (not shown)


Product appearance depends on the model you purchased.



### Universal Serial Bus (USB 3.0) port

One Universal Serial Bus port, which complies to the USB 3.0 standard, is provided on the back of the computer.

The USB 3.0 port is compliant with USB 3.0 standard and backward compatible with USB 2.0 devices.

This port with the icon (  ) supports the following functions:

- USB Sleep and Charge function
- System ON CDP Charge Mode



### HDMI out port

HDMI out port can connect with Type A connector HDMI cable.

### Cooling vents

The cooling vents help the processor to avoid overheating.



### DC IN 19V jack

The AC adaptor connects to this jack in order to power the computer and charge its internal batteries. Please note that you should only use the model of AC adaptor supplied with the computer at the time of purchase - using the wrong AC adaptor can cause damage to the computer.

### Camera (back)

Your computer is equipped with a front Web Camera and a back camera used for recording video or taking photographs.

### Camera flash (back)

This LED flash can be used as a light source when the ambient light is not bright.

### Wireless communication antennas

Some computers in this series are equipped with the Wireless LAN/Bluetooth antennas.

Some computers in this series are equipped with the Wireless WAN/WiMAX antennas.

### Legal Footnote (Wireless LAN)

For more information regarding Wireless LAN, please refer to the [Legal Footnotes](#) section.



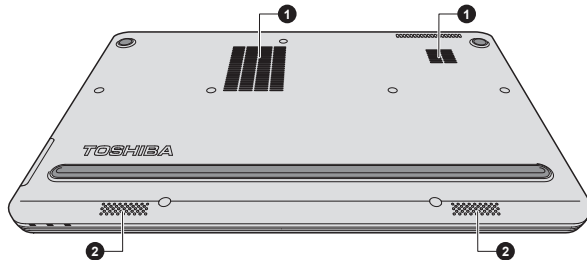
*Please keep dust, dirt or any other small objects out of the slide rails on the left and right sides of the back of the display panel to avoid causing any obstruction in the sliding mechanism. Carefully clean the dust from the guide rails using a soft cloth.*

*Do not touch the slide rails on the middle of the back of the display panel. It could cause damage or malfunction, possibly resulting in injury to your fingers.*

## Underside

The following figure shows the underside of the computer. You should ensure that the display is closed before the computer is turned over to avoid causing any damage.

*Figure 3-7 The underside of the computer*



1. Cooling vents

2. Stereo speakers

Product appearance depends on the model you purchased.

### Cooling vents

The cooling vents help the processor to avoid overheating.



*Do not block the cooling vents. Keep foreign metal objects, such as screws, staples and paper clips, out of the cooling vents. Foreign metal objects can create a short circuit, which can cause damage and fire, possibly resulting in serious injury.*

*Carefully clean the dust on the cooling vents' surface using a soft cloth.*

### Stereo speakers

The speakers emit sound generated by your software as well as audio alarms, such as low battery condition, generated by the system.

## Internal Hardware Components

This section describes the internal hardware components of your computer. The actual specifications may vary depending on the model you purchased.



---

## Battery pack

This product includes a battery pack inside. However, please do not attempt to dismount or replace it by yourself. Please contact an authorized TOSHIBA service provider, if necessary.

The rechargeable lithium-ion battery pack provides power to the computer when the AC adaptor is not connected.

For more detailed information on the use and operation of the battery pack please refer to the [Battery](#) section.

---

### Legal Footnote (Battery Life)

For more information regarding Battery Life, please refer to the [Legal Footnotes](#) section.

---

## CPU

The processor type varies depending on model. To check which type of processor is included in your model, open the TOSHIBA PC Diagnostic Tool Utility by clicking **Desktop -> Desktop Assist (in taskbar) -> Support & Recovery -> PC Diagnostic Tool**.

---

### Legal Footnote (CPU)

For more information regarding CPU, please refer to the [Legal Footnotes](#) section.

---

## Solid State Drive

The capacity of the Solid State Drive varies depending on the model.

To check which type of SSD is included in your model, open the TOSHIBA PC Diagnostic Tool Utility by clicking **Desktop -> Desktop Assist (in taskbar) -> Support & Recovery -> PC Diagnostic Tool**.

Please note that part of the Solid State Drive's overall capacity is reserved as administration space.



*SSD is a large-capacity storage media which uses Solid-State Memory in place of a magnetic disk of the hard disk.*



*Under certain unusual conditions of prolonged non-use and/or exposure to high temperatures, the SSD may be vulnerable to data retention errors.*

---

Legal Footnote (Solid State Drive (SSD) Capacity)

For more information regarding Solid State Drive (SSD) Capacity, please refer to the [Legal Footnotes](#) section.

---

**RTC battery**

The internal RTC battery backs up the Real Time Clock (RTC) and calendar.

---

**Video RAM**

The memory in a computer's graphics adaptor, used to store the image displayed on a bitmap display.

The amount of Video RAM available is dependent on the computer's system memory.

**Desktop -> Desktop Assist (in taskbar) -> Control Panel -> Appearance and Personalization -> Display -> Adjust resolution.**

The amount of Video RAM can be verified by clicking the **Advanced settings** button in the Screen Resolution window.

---

**Memory module**

The memory module is installed in the computer.

---

Legal Footnote (Memory (Main System))

For more information regarding Memory (Main System), please refer to the [Legal Footnotes](#) section.

---

**Display controller**

The display controller interprets software commands into hardware commands that turn particular parts on the screen on or off.

The display controller also controls the video mode and uses industry standard rules to govern the screen resolution and the maximum number of colors that can be displayed at any one time. Therefore, software written for a given video mode will run on any computer that supports that mode.

---

Legal Footnote (Graphics Processing Unit (GPU))

For more information regarding Graphics Processing Unit (GPU), please refer to the [Legal Footnotes](#) section.

---

## Intel® Display Power Saving Technology

Intel GPU model may include the Display Power Saving Technology feature that can save the computer's power consumption by optimizing picture contrast on the internal LCD.

This feature can be used if the computer is:

- running under battery mode
- using the internal LCD display only

The Display Power Saving Technology feature is enabled at factory default. If you want to disable the feature, you can disable it.

The Display Power Saving Technology feature can be disabled in the Intel® Graphics and Media Control Panel.

You can access this control panel in the following way:

- Right-click on the desktop and click **Graphics Properties....**

In this control panel:

1. Click **Power**.
2. Select **On battery** from the drop-down menu in **Power Source**.
3. Clear the **Display Power Saving Technology** check box.
4. Click **OK**.

If you want to enable this feature, under the conditions mentioned above, select the **Display Power Saving Technology** check box.

## Intel Rapid Start Technology

Your computer supports Intel® Rapid Start Technology which enables the computer to change to Hibernation Mode from Sleep Mode after a specified period of time.

With the Intel® Rapid Start Technology, the Windows can rapidly resume from Hibernation Mode and battery life will be longer than when in Sleep Mode.

Intel® Rapid Start Technology is enabled at factory default. The computer will switch to Hibernation Mode after two hours of Sleep Mode.

You can use BIOS Setup to enable/disable the function and change the specified time setting from Sleep Mode to Hibernation Mode.

1. Press and hold the **F2** key, and then turn on the computer - the BIOS setup utility will load.
2. Select **Advanced**.
3. Enable/Disable **Intel(R) Rapid Start Technology** function.
4. You can select the period of time from Sleep Mode to Hibernation Mode using **Rapid Start Entry after**. If the **Immediately** option is selected, the computer will switch to Hibernation Mode immediately after your computer goes into the Sleep Mode.



- *When Intel® Rapid Start Technology is enabled, switching from Sleep Mode to Hibernation Mode consumes power. When you carry your computer aboard on an aircraft or in places where electronic devices are regulated or controlled, always power off your computer.*
- *When Intel® Rapid Start Technology is enabled, Wake-up on LAN, Wake-up on USB or Wake-up from Sleep Mode automatically functions are not available when the computer has been switched from Sleep Mode to Hibernation Mode.*
- *The Windows cannot be restored normally if the battery is exhausted when the computer is moving from Sleep Mode to Hibernation Mode.*
- *The partition allocation on the Solid State Drive for the Intel® Rapid Start Technology cannot be deleted even if Intel® Rapid Start Technology is disabled.*
- *Intel® Rapid Start Technology can be used only for Windows 8.*
- *Intel® Rapid Start Technology cannot be used in models that do not equipped with a Solid State Drive.*
- *The Windows restore time from Hibernation Mode depends on the amount of system memory used in the computer.*

## Monitoring of power condition

### Power conditions

The computer's operating capability and battery charge status are affected by different power conditions, including whether an AC adaptor is connected and what the charge level is for that battery.



*The LED in the table below refers to the **DC IN/Battery** indicator.*

		Power on	Power off (no operation)
<b>AC adaptor connected</b>	Battery fully charged	<ul style="list-style-type: none"> <li>• Operates</li> <li>• No charge</li> <li>• LED: white</li> </ul>	<ul style="list-style-type: none"> <li>• No charge</li> <li>• LED: white</li> </ul>
	Battery partially charged or no charge	<ul style="list-style-type: none"> <li>• Operates</li> <li>• Charge</li> <li>• LED: amber</li> </ul>	<ul style="list-style-type: none"> <li>• Quick charge</li> <li>• LED: amber</li> </ul>

		Power on	Power off (no operation)
<b>AC adaptor not connected</b>	Remaining battery capacity is above low battery trigger point	<ul style="list-style-type: none"> <li>Operates</li> <li>LED: off</li> </ul>	
	Remaining battery capacity is below low battery trigger point	<ul style="list-style-type: none"> <li>Operates</li> <li>LED: flashes amber</li> </ul>	
	Remaining battery capacity is exhausted	Computer shuts down	

## DC IN/Battery indicator

Check the **DC IN/Battery** indicator to determine the status of the battery pack and the power status with the AC adaptor connected. The following indicator conditions should be noted:

<b>Flashing amber</b>	<ul style="list-style-type: none"> <li>The battery charge is low. The AC adaptor must be connected in order to recharge the battery.</li> <li>Indicates a problem with the power supply. You should initially try plugging the AC adaptor into another power outlet - if it still does not operate properly, you should contact your reseller or dealer.</li> </ul>
<b>Amber</b>	Indicates the AC adaptor is connected and the battery is charging.
<b>White</b>	Indicates the AC adaptor is connected and the battery is fully charged.
<b>No light</b>	Under any other conditions, the indicator does not light.



*If the battery pack becomes too hot while it is being charged, the charge will stop and the **DC IN/Battery** indicator will go out. When the battery pack's temperature falls to a normal range, charging will resume - this process will occur regardless of whether the computer's power is on or off.*

---

## Power indicator

Check the **Power** indicator to determine the power status of the computer - the following indicator conditions should be noted:

<b>White</b>	Indicates power is being supplied to the computer and the computer is turned on.
<b>Flashing amber</b>	Indicates that the computer is in Sleep Mode and that there is sufficient power available (AC adaptor or battery) to maintain this condition. In Sleep Mode, this indicator will turn on for one second and off for two seconds.
<b>No light</b>	Under any other conditions, the indicator does not light.

## Specifications

This section summarizes the computer's technical specifications.

### Physical Dimensions

<b>Size</b>	Approximately 326.5 (w) x 213 (d) x 19.9 (h) millimeters (not including parts that extend beyond the main body). The physical dimensions may vary depending on the model you purchased.
-------------	--

### Environmental Requirements

Conditions	Ambient temperature	Relative humidity
<b>Operating</b>	5°C (41°F) to 35°C (95°F)	20% to 80% (noncondensing)
<b>Non-operating</b>	-20°C (-4°F) to 60°C (140°F)	10% to 90% (noncondensing)
<b>Wet-bulb temperature</b>	29°C maximum	
Conditions	Altitude (from sea level)	
<b>Operating</b>	-60 to 3,000 meters	
<b>Non-operating</b>	-60 to 10,000 meters maximum	

---

## Power Requirements

<b>AC adaptor</b>	100-240V AC 50 or 60 Hz (cycles per second)
<b>Computer</b>	19V DC

## 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:

<b>Wire size:</b>	Minimum 0.75 mm <sup>2</sup>
<b>Current rating:</b>	Minimum 2.5 amperes

### *Certification agencies*

<b>China:</b>	CQC		
<b>U.S. and Canada:</b>	UL listed and CSA certified No. 18 AWG, Type SVT or SPT-2		
<b>Australia:</b>	AS		
<b>Japan:</b>	DENANHO		
<b>Europe:</b>			
<b>Austria:</b>	OVE	<b>Italy:</b>	IMQ
<b>Belgium:</b>	CEBEC	<b>The Netherlands:</b>	KEMA
<b>Denmark:</b>	DEMKO	<b>Norway:</b>	NEMKO
<b>Finland:</b>	FIMKO	<b>Sweden:</b>	SEMKO
<b>France:</b>	LCIE	<b>Switzerland:</b>	SEV
<b>Germany:</b>	VDE	<b>United Kingdom:</b>	BSI

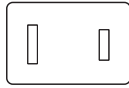
In Europe, two conductors power cord must be VDE type, H05VVH2-F or H03VVH2-F and for three conductors power cord must be VDE type, H05VV-F.

---

For the United States and Canada, two pin plug configuration must be a 2-15P (250V) or 1-15P (125V) and three pin 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.

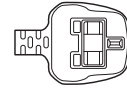
The following illustrations show the plug shapes for the U.S.A. and Canada, the United Kingdom, Australia, Europe and China.

**USA**



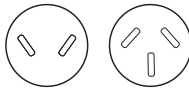
UL approved

**United Kingdom**



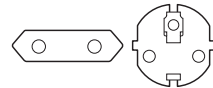
BS approved

**Australia**



AS approved

**Europe**



Approved by the appropriate agency

**Canada**



CSA approved

**China**



CCC approved



# Chapter 4

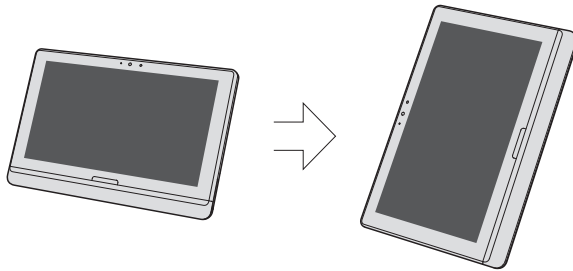
## Operating Basics

This chapter describes the basic operations of your computer, highlights the precautions that should be taken when using it.

### Changing the Screen Orientation

If you are operating the computer in Tablet mode, you can change the screen orientation to Portrait mode by rotating the tablet sideways. The screen orientation automatically changes according to the rotation angle detected.

*Figure 4-1 Rotating the tablet sideways*



You can also lock the orientation by using the Orientation lock button and always use the tablet in Portrait or Landscape mode.

If you are operating the computer in Laptop mode or in Photography mode, the screen orientation will always be in Landscape mode.



- *If you are operating the computer in Laptop mode or in Photography mode, the screen orientation will always be in Landscape mode. If you unlock the screen orientation by manually selecting Autorotate off, you may experience some problems while auto-rotating the screen orientation back to Landscape mode from Portrait mode. In such a case, please tilt the screen panel slightly and try again.*
- *Always make sure to keep the Web camera on the top (landscape mode) or on the left (Portrait mode) while rotating the screen. Avoid having direct contact with the other edges of the hand held device while the wireless device is turned on and transmitting. Only factories installed wireless transmitter can be used with this hand held device to satisfy RF exposure compliance.*

- 
- *In the Portrait mode, some drivers/utilities may not perform install and uninstall operation. If it occurs, switch to the Landscape mode to proceed.*

## Using the Touch Screen

The computer is equipped with a touch screen.

You can use your finger to manipulate icons, buttons, menu items, the onscreen keyboard, and other items on the touch screen.

- **Tap**

Simply tap your finger once on the touch screen to open whatever you tap, such as an app.

- **Press and hold**

Press your finger down and leave it there for a few seconds. This will show information to help you learn more about an item or will open a menu specific to what you are doing.

- **Pinch or stretch**

Touch the screen or an item with two or more fingers, and then move the fingers toward each other (pinch) or away from each other (stretch). This will show different levels of info or visually zooms in or out.

- **Rotate**

Put two or more fingers on an item and then turn your hand to rotate things in the direction you turn your hand. Only some items can be rotated.

- **Slide**

Drag your finger on the touch screen to move through what's on the screen.

- **Swipe**

Quickly move your finger across the surface of the screen, without pausing when you first touch it.

Swipe from the right or left edge for system commands and swipe from the bottom or top edge for app commands.

For details and more advanced touch screen gestures to interact with Windows 8, please refer to Help & Support.

## The Keyboard

The computer's keyboard layouts are compatible with a 104/105-key enhanced keyboard - by pressing some keys in combination, all of the 104/105-key enhanced keyboard functions can be performed on the computer.

The number of keys available on your keyboard will depend on which country/region your computer is configured for, with keyboards being available for numerous languages.

In use there are different types of keys, specifically typewriter keys, function keys, soft keys and Windows special keys.



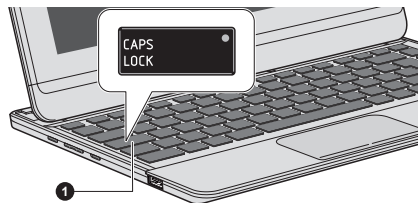
*Never remove the key caps on your keyboard. Doing so could cause damage to the parts under the key caps.*

## Keyboard indicators

The following figure shows the position of the CAPS LOCK indicator which shows the following conditions:

When the **CAPS LOCK** indicator glows, the keyboard will produce capitals when any letter is typed.

Figure 4-2 Keypad indicator



1. CAPS LOCK indicator

### CAPS LOCK

This indicator glows green when letter keys are locked into their uppercase format.

## Function Key

The function keys (F1 ~ F12) are the twelve keys at the top of your keyboard.





The **FN** key is used in combination with other keys to form soft keys. Soft keys are key combinations that enable, disable or configure specific features.



*Please note that some software may disable or interfere with soft-key operations, and that the soft-key settings are not restored when the computer returns from Sleep Mode.*

You can configure the Function Keys' mode by selecting the "Special function mode" or "Standard F1-F12 mode". Please refer to the [TOSHIBA System Settings](#) section.

Function keys let you enable or disable certain features of the computer. The functions can be performed by pressing the associated function keys.

Special function mode	Standard F1-F12 mode	Function
F1	FN + F1	Launches the help file supplied with the software.
F2	FN + F2	Decreases the computer's display panel brightness in individual steps.
F3	FN + F3	Increases the computer's display panel brightness in individual steps.
F4	FN + F4	Changes the active display device. To use a simultaneous mode, you must set the resolution of the internal display panel to match the resolution of the external display device.
F5	FN + F5	Enables or disables the Touch Pad.
F6	FN + F6	Moves media backward.
F7	FN + F7	Plays or pauses media playback.
F8	FN + F8	Moves media forward.
F9	FN + F9	Decreases the computer's volume.
F10	FN + F10	Increases the computer's volume.
F11	FN + F11	Turns the sound on or off.
F12	FN + F12	Turns the Airplane mode on or off.
FN + 1	FN + 1	Reduces the icon size on the desktop or the font sizes within one of the supported application windows.
FN + 2	FN + 2	Enlarges the icon size on the desktop or the font sizes within one of the supported application windows.
FN + Space	FN + Space	Changes the display resolution.
FN + 	FN + 	Turns the keyboard backlight on or off. This function is supported with some models.



*Some functions will show the toast notification at the edges of the screen.*

Those toast notifications are disabled at factory default. you can enable them in the TOSHIBA Function Key application.

To access it, click **Desktop -> Desktop Assist (in taskbar) -> Tools & Utilities -> TOSHIBA Function Key.**

## Windows special keys

The keyboard provides two keys that have special functions in Windows, the Windows Start Button key activates the **Start screen** while the application key has the same function as the secondary (right) mouse button.



This key activates the **Start screen**.



This key has the same function as the secondary (right) mouse button.

## Generating ASCII characters

Not all ASCII characters can be generated using normal keyboard operation, but you are able to generate these characters using their specific ASCII codes.

1. Hold down **ALT** key.
2. Using the overlay keypad, type the ASCII code of the character you require.
3. Release **ALT** - the ASCII character will appear on the display screen.

## Wireless communications

The computer's wireless communication function supports some wireless communication devices.

Only some models are equipped with both Wireless LAN and Bluetooth functions.



- *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. Interference from a microwave oven or other source can disrupt Wi-Fi or Bluetooth operation.*
- *Turn all wireless functionalities off when near a person who may have a cardiac pacemaker implant or other medical electric device. Radio waves may affect pacemaker or medical device operation, possibly resulting in serious injury. Follow the instruction of your medical device when using any wireless functionality.*

- *Always turn off wireless functionality if the computer is near automatic control equipment or appliances such as automatic doors or fire detectors. Radio waves can cause malfunction of such equipment, possibly resulting in serious injury.*
- *It may not be possible to make a network connection to a specified network name using the ad hoc network function. If this occurs, the new network (\*) will have to be configured for all computers connected to the same network in order to re-enable network connections.*  
*\* Please be sure to use new network name.*

## Wireless LAN

The Wireless LAN is compatible with other LAN systems based on Direct Sequence Spread Spectrum / Orthogonal Frequency Division Multiplexing radio technology that complies with the IEEE802.11 Wireless LAN standard.

- Frequency Channel Selection of 5GHz for IEEE 802.11a or/and IEEE802.11n
- Frequency Channel Selection of 2.4GHz for IEEE 802.11b/g or/and IEEE802.11n
- Roaming over multiple channels
- Card power management
- Wired Equivalent Privacy (WEP) data encryption based on an 128-bit encryption algorithm
- Wi-Fi Protected Access™ (WPA™)



*The transmission speed over the Wireless LAN, and the distance over which the Wireless LAN can reach, may vary depending on surrounding electromagnetic environment, obstacles, access point design and configuration, client design and software/hardware configurations. The transmission rate described is the theoretical maximum speed as specified under the appropriate standard - the actual transmission speed will be lower than the theoretical maximum speed.*

### Setting

1. Please make sure that the **Wireless Communication function** is on.
2. Click **Desktop -> Desktop Assist (in taskbar) -> Control Panel -> Network and Internet -> Network and Sharing Center**.
3. Click **Set up a new connection or network**.
4. Follow the wizard. You will need the name of the wireless network together with security settings. Consult the documentation accompanied with your router or ask your wireless network administrator for the settings.

---

## Security

- TOSHIBA strongly recommend that you enable encryption functionality, otherwise your computer will be open to illegal access by an outsider using a wireless connection. If this occurs, the outsider may illegally access your system, eavesdrop, or cause the loss or destruction of stored data.
- TOSHIBA is not liable for the loss of data due to eavesdropping or illegal access through the wireless LAN and the damage thereof.

## Card Specifications

<b>Form Factor</b>	PCI Express Mini Card
<b>Compatibility</b>	■ IEEE 802.11 Standard for Wireless LANs
<b>Network Operating System</b>	■ Microsoft Windows Networking
<b>Media Access Protocol</b>	■ CSMA/CA (Collision Avoidance) with Acknowledgment (ACK)

## Radio Characteristics

Radio Characteristics of Wireless LAN module 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.

<b>Radio Frequency</b>	■ Band 5GHz (5150-5850 MHz) (Revision a and n)
	■ Band 2.4GHz (2400-2483.5 MHz) (Revision b/g and n)

The range of the wireless signal is related to the transmit rate of the wireless communication. Communications at lower transmit range may travel larger distances.

- The range of your wireless devices can be affected when the antennas are placed near metal surfaces and solid high-density materials.
- Range is also impacted due to "obstacles" in the signal path of the radio that may either absorb or reflect the radio signal.

## Bluetooth wireless technology

Some computers in this series have Bluetooth wireless communication function which eliminates the need for cables between electronic devices

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such as computers, printers and mobile phones. When it is enabled, Bluetooth provides the wireless personal area network environment which is safe and trustworthy, that is quick and easy.

You cannot use the computer's built-in Bluetooth functions and an external Bluetooth adaptor simultaneously. For reference, Bluetooth wireless technology has the following features:

### ***Worldwide operation***

The Bluetooth radio transmitter and receiver operate in the 2.4GHz band, which is license-free and compatible with radio systems in most countries in the world.

### ***Radio links***

You can easily establish links between two or more devices, with these links being maintained even if the devices are not within a line-of-sight of each other.

### ***Security***

Two advanced security mechanisms ensure a high level of security:

- Authentication prevents access to critical data and makes it impossible to falsify the origin of a message.
- Encryption prevents eavesdropping and maintains link privacy.

## **Battery**

This section explains battery types, use, recharging methods and handling.

### **Battery types**

The computer has different types of batteries.

#### ***Battery pack***

When the AC adaptor is not connected, the computer's main power source is this lithium ion battery pack, also referred to in this manual as the main battery.

#### ***Real Time Clock (RTC) battery***

The Real Time Clock (RTC) battery provides power for the internal real time clock and calendar function and also maintains the system configuration while the computer is turned off. If the RTC battery becomes completely discharged, the system will lose this information and the real time clock and calendar will stop working.

Your computer will automatically power off after 1 minute and the same message will appear again the next time when it is turned on.



You can change the Real Time Clock settings in the BIOS setup utility. Please refer to [Troubleshooting](#) for further information.



*The RTC battery does not charge while the computer is turned off even if the AC adaptor is attached.*

## Care and use of the battery pack

This section provides the important safety precautions in order to handle your battery pack properly.

Refer to the enclosed **Instruction Manual for Safety and Comfort** for detailed precautions and handling instructions.



- *The computer's RTC battery is a Ni-MH 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. Dispose of the battery as required by local ordinances or regulations.*
- *Charge the battery pack only in an ambient temperature between 5 and 35 degrees Celsius. Otherwise, the electrolyte solution might leak, battery pack performance might deteriorate and the battery life might be shortened.*

## Charging the batteries

When the power in the battery pack becomes low, the **DC IN/Battery** indicator will flash amber to indicate that only a few minutes of battery power remain. If you continue to use the computer while the **DC IN/Battery** indicator flashes, the computer will enable Hibernation Mode so that you do not lose any data, and automatically turn itself off.

You must recharge a battery pack when it becomes discharged.

### **Procedures**

To recharge a battery pack, connect the AC adaptor to the DC IN 19V jack and plug the other end into a working outlet - the **DC IN/Battery** indicator will glow amber while the battery is being charged.

### **Charging Time**

The following table shows the approximate time required to fully charge a discharged battery.

Battery type	Power off	Power on
Battery pack (37.7Wh, 3 cell)	about 3.5 hours	about 3.5 ~ 8.5 hours



*Please be aware that the charging time when the computer is on is affected by ambient temperature, the temperature of the computer and how you are using the computer - if you make heavy use of external devices for example, the battery might scarcely charge at all during operation.*

### **Battery charging notice**

The battery may not begin charging immediately under the following conditions:

- The battery is extremely hot or cold (if the battery is extremely hot, it might not charge at all). To ensure the battery charges to its full capacity, you should charge it at room temperature of between 5°C to 35°C (41°F to 95°F).
- The battery is nearly completely discharged. In this instance you should leave the AC adaptor connected for a few minutes and the battery should begin charging.

The **DC IN/Battery** indicator may show a rapid decrease in battery operating time when you try to charge a battery under the following conditions:

- The battery has not been used for a long time.
- The battery has completely discharged and been left in the computer for a long time.

In such cases you should follow the steps as detailed below:

1. Fully discharge the battery by leaving it in the computer with the power on until the system automatically turns itself off.
2. Connect the AC adaptor to the DC IN 19V jack of the computer, and to a wall outlet that is supplying power.
3. Charge the battery until the **DC IN/Battery** indicator glows white.

Repeat these steps two or three times until the battery recovers normal capacity.

## **Monitoring battery capacity**

Remaining battery power can be monitored using the following methods.

- Clicking the battery icon on the Taskbar
- Via the Battery Status in the Windows Mobility Center window



*You should wait at least 16 seconds after turning on the computer before trying to monitor the remaining operating time. This is because the computer needs this time to check the battery's remaining capacity and then calculate the remaining operating time, based on this together with the current power consumption.*

- *Please be aware that the actual remaining operating time may differ slightly from the calculated time.*

- *With repeated discharges and recharges, the battery's capacity will gradually decrease. In view of this it will be noted that an often used, older battery will not operate for as long as a new battery even when both are fully charged.*

## Maximizing battery operating time

A battery's usefulness depends on how long it can supply power on a single charge, while how long the charge lasts in a battery depends on:

- Processor speed
- Screen brightness
- System Sleep Mode
- System Hibernation Mode
- Display power off period
- Solid State Drive power off period
- How often and for how long you use the Solid State Drive and external disk(c) drives, for example, optical disc.
- How much charge the battery contained to begin with.
- How you use optional devices, such as a USB device, to which the battery supplies power.
- Whether you enable Sleep Mode, which can conserve battery power if you are frequently turning the computer off and on.
- Where you store your programs and data.
- Whether you close the display panel when you are not using the keyboard - closing the display saves power.
- The environmental temperature - operating time decreases at low temperatures.
- Whether you enable Sleep and Charge function.

## Batteries exhausted time

When you turn off the power of your computer with batteries fully charged, the batteries will be exhausted within the following approximate period.

Battery type	Sleep Mode	Shut Down Mode
Battery pack (37.7Wh, 3 cell)	about 3.5 days	about 70 days

## Extending battery life

To maximize the life of your battery packs:

At least once a month, disconnect the computer from a power source and operate it on battery power until the battery pack fully discharges. Before doing so, follow the steps as detailed below.

1. Turn off the computer's power.
2. Disconnect the AC adaptor and turn on the computer's power - if it does not turn on then go to Step 4.
3. Operate the computer on battery power for five minutes. If you find that the battery pack has at least five minutes of operating time, continue operating until the battery pack is fully discharged, however, if the **DC IN/Battery** indicator flashes or there is some other warning to indicate a low battery condition, go to Step 4.
4. Connect the AC adaptor to the DC IN 19V jack of the computer, and to a wall outlet that is supplying power. The **DC IN/Battery** indicator should glow amber to indicate that the battery pack is being charged, however, in the event that **DC IN/Battery** indicator does not glow this indicates that power is not being supplied - check the connections for the AC adaptor and the power cord.
5. Charge the battery pack until the **DC IN/Battery** indicator glows white.

## Peripheral devices

### Memory media

The computer is equipped with a Memory media slot that can accommodate some kinds of memory media with various memory capacities so that you can easily transfer data from devices, such as digital cameras and Personal Digital Assistants.

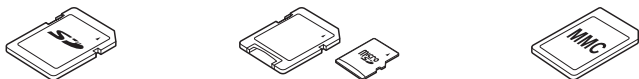


*Keep foreign objects out of the Memory media slot. Never allow metal objects, such as screws, staples and paper clips, to enter the Memory media slot. Foreign metal objects can create a short circuit, which can cause computer damage and fire, possibly resulting in serious injury.*



- *Please note that an adaptor is required to use miniSD/microSD Card.*
- *Please note that not all memory media have been tested and verified to work correctly. Therefore, it is not possible to guarantee that all memory media will operate properly.*
- *The slot does not support Magic Gate functions.*

Figure 4-6 Examples of memory media



Secure Digital (SD)  
Card

microSD card  
adaptor and microSD  
card

MultiMediaCard (MMC)

## Memory media

This section provides the important safety precautions in order to handle your memory media.


### Points to note about the memory media card


SD/SDHC/SDXC memory cards comply with SDMI (Secure Digital Music Initiative), which is a technology adopted to prevent unlawful copy or playback of digital music. For this reason, you cannot copy or playback protected material on another computer or other device, and you may not reproduce any copyrighted material except for your personal enjoyment.


Below is a simple explanation for distinguishing SD memory cards from SDHC and SDXC memory cards.

- SD, SDHC and SDXC memory cards appear the same externally. However, the logo on memory cards is different, so pay careful attention to the logo when purchasing.



- The SD memory card logo is (  ).

- The SDHC memory card logo is (  ).

- The SDXC memory card logo is (  ).

- The maximum capacity of SD memory cards is 2GB. The maximum capacity of SDHC memory cards is 32GB. The maximum capacity of SDXC memory cards is 64GB.

Card Type	Capacities
SD	8MB, 16MB, 32MB, 64MB, 128MB, 256MB, 512MB, 1GB, 2GB
SDHC	4GB, 8GB, 16GB, 32GB
SDXC	64GB

### Memory media format

New media cards are formatted according to specific standards. If you wish to reformat a media card, be sure to do so with a device that uses media cards.

#### Formatting a memory media card

Memory media cards are sold already formatted in conformity to specific standards. If you reformat a memory card, be sure to reformat it with a device such as digital camera or digital audio player that uses the memory cards, not with the format command provided within Windows.



*Should you need to format all areas of the memory card, including the protected area, you will need to obtain an appropriate application that applies the copy protection system.*

### **Media care**

Observe the following precautions when handling the card.

- Do not twist or bend cards.
- Do not expose cards to liquids or store in humid areas or lay media close to containers of liquid.
- Do not touch the metal part of a card or expose it to liquids or let it get dirty.
- After using card, return it to its case.
- The card is designed so that it can be inserted only one way. Do not try to force the card into the slot.
- Do not leave a card partially inserted in the slot. Press the card until you hear it click into place.
- Set the write-protect switch to the lock position, if you do not want to record data.
- Memory cards have a limited lifespan, so it is important to backup important data.
- Do not write to a card if the battery power is low. Low power could affect writing accuracy.
- Do not remove a card while read/write is in progress.



*For more details on using memory cards, see manuals accompanying the cards.*

### **About the write-protect**

The memory media cards have a function for protect.

- SD Card (SD memory card, SDHC memory card and SDXC memory card)



*Set the write-protect switch to the lock position, if you do not want to record data.*

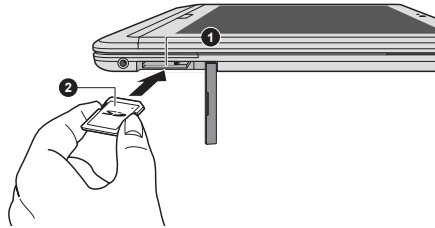
### **Inserting a memory media**

The following instructions apply to all types of supported media devices. To insert a memory media, follow the steps as detailed below:

1. Turn the memory media so that the contacts (metal areas) are face down.
2. Insert the memory media into the Memory media slot on the right side of the computer.

3. Press the memory media gently to ensure a firm connection is made.

*Figure 4-7 Inserting a memory media*



1. Memory media slot

2. Memory media



- *Make sure memory media is oriented properly before you insert it. If you insert the media in wrong direction, you may not be able to remove it.*
- *When inserting memory media, do not touch the metal contacts. You could expose the storage area to static electricity, which can destroy data.*
- *Do not turn the computer off or switch to Sleep Mode or Hibernation Mode while files are being copied - doing so may cause data to be lost.*

### ***Removing a memory media***

The following instructions apply to all types of supported media devices. To remove a memory media, follow the steps as detailed below:

1. Click the **Desktop** tile and open the **Safely Remove Hardware and Eject Media** icon on the Windows Taskbar.
2. Point to **memory media** and click the left Touch Pad control button.
3. Press the memory media to partially extend it out of the computer.
4. Grasp the media and remove it.



- *Do not remove the memory media while the computer is in Sleep or Hibernation Mode. The computer could become unstable or data in the memory media could be lost.*
- *Do not remove only the miniSD/microSD Card while leaving the adaptor in the Memory media slot.*

## **HDMI Device**

An HDMI display device can be connected to the HDMI out port on the computer. To connect the HDMI display device, follow the steps as detailed below:

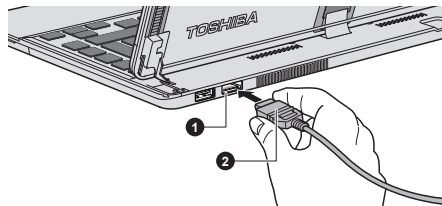


As the port operation of all HDMI (High-Definition Multimedia Interface) display devices have not been confirmed, some HDMI display devices may not function properly.

### **Connecting the HDMI out port**

1. Plug one end of the HDMI cable into the HDMI port of the HDMI display device.
2. Plug the other end of the HDMI cable into the HDMI out port on your computer.

*Figure 4-8 Connecting the HDMI out port*



1. HDMI out port

2. HDMI cable



Please do not plug/unplug an HDMI display device under the following conditions:

- The system is starting up.
- The system is shutting down.

When you connect a television or external monitor to the HDMI port, the display output device is set to HDMI.

When you unplug the HDMI cable and re-plug it, please wait at least 5 seconds before you re-plug the HDMI cable again.

When you change the display output device by function key, the playback device may not switch automatically. In this case, in order to set the playback device to the same device as the display output device, please adjust the playback device manually by the following steps:

1. Click **Desktop -> Desktop Assist (in taskbar) -> Control Panel -> Hardware and Sound -> Sound**.
2. In the **Playback** tab, select the playback device which you want to switch to.
3. To use the internal speakers on your computer, select **Speakers**. To use the television or the external monitor that you have connected to the computer, select a different playback device.
4. Click the **Set Default** button if it is available.
5. Click **OK** to close the **Sound** dialog.



---

## Settings for display video on HDMI

To view video on the HDMI display device, be sure to configure the following settings otherwise you may find that nothing is displayed.



*Be sure to use the function key to select the display device before starting to play video. Do not change the display device while playing video.*

*Do not change the display device under the following conditions.*

- While data is being read or written.
- While communication is being carried out.

## Select HD Format

To select the display mode, follow the steps as detailed below:

1. Click **Desktop -> Desktop Assist (in taskbar) -> Control Panel**.
2. Click **Appearance and Personalization**.
3. Click **Display**.
4. Click **Change display settings**.
5. Click **Advanced settings**.
6. Click **List All Modes**.
7. Select one of the mode at **List All Modes**.

## Optional TOSHIBA Accessories

You are able to add a number of options and accessories in order to make your computer even more powerful and convenient to use. For reference, the following list details some of the items that are available from your reseller or TOSHIBA dealer:

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**Universal AC Adaptor** If you frequently use your computer at more than one site, it may be convenient to purchase an additional AC adaptor to be kept at each site in order to remove the need to always carry the adaptor with you.

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## Sound System and Video mode

This section describes some of the audio control functions.

### Volume Mixer

The Volume Mixer utility lets you control the audio volume for playback of devices and applications under Windows.

- To launch the Volume Mixer utility, click **Desktop** and right click on the speaker icon on the Taskbar, and then select **Open Volume Mixer** from the sub menu.

- To adjust the volume level of speakers or headphones, move the **Speakers** slider.
- To adjust the volume level of an application that you are using, move the slider for the corresponding application.

## Microphone Level

Follow the steps below to change the microphone recording level.

1. Right click on the speaker icon on the Taskbar, and select **Recording devices** from the sub menu.
2. Select **Microphone**, and click **Properties**.
3. On the **Levels** tab move the **Microphone** slider to increase or decrease the microphone volume level.

If you feel the microphone volume level is inadequate, move the **Microphone Boost** slider to a higher level.

## SRS

SRS Premium Sound offers the richest and most immersive audio experience in any listening environment using technologies from SRS Labs.

To access the utility, Click **Desktop -> Desktop Assist (in taskbar) -> Media & Entertainment -> SRS Premium Sound HD/SRS Premium Sound 3D**.

Your computer may be preinstalled with SRS Premium Sound HD or SRS Premium Sound 3D depending on the model you purchased.

For more information, please refer to the help file.


## Realtek HD Audio Manager

You can confirm and change the audio configuration using the **Realtek HD Audio Manager**. To launch the **Realtek HD Audio Manager**:

- Click **Desktop -> Desktop Assist (in taskbar) -> Control Panel -> Hardware and Sound -> Realtek HD Audio Manager**.


When you first launch the Realtek HD Audio Manager, you will see two device tabs. **Speakers** is the default output device. **Microphone** is the default input device. To change the default device, click the **Set Default Device** button under the chosen device tab.

### Information

Click the **Information** button  to view hardware information, software information, and language setting.


---

## Power Management

The audio controller in your computer can be turned off when the audio function is not used. To adjust the configuration of audio power management, click the **Power Management** button  .

- When audio power management is enabled, the circle button at the upper left of the Power Management is blue and convex.
- When audio power management is disabled, the button is black and concave.

## Speaker Configuration

Click the **Auto Test** button  to confirm the internal speakers or the headphone sound is coming from the right direction.

## Default Format

You can change the sample rate and bit depth of sound.

## Video mode

Video mode settings are configured via the **Screen Resolution** dialog.

To open the **Screen Resolution** dialog, click **Desktop -> Desktop Assist (in taskbar) -> Control Panel -> Appearance and Personalization -> Display -> Change display settings**.



*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.*

*If that occurs, adjust the resolution of display, lowering it until the screen is displayed properly.*

## GPS Function

Your computer may include a built-in GPS (Global Positioning System).

The performance of GPS will vary depending on the environment. It might happen that a location cannot be determined.

Your current location may not be shown depending on the status of GPS or the location. If you are obtaining your current location information from the computer, your current location may not be detected due to the information accuracy. Specifically, your current location may not be detected in the following places or situations:

- Inside or directly under a building
- Inside a bag or box
- Among dense trees
- When there is an obstacle (person or object) in the front of the antenna

- Underground tunnel, underground, or underwater
- Buildings streets or residential areas
- Near to the high voltage cables
- Bad weather such as heavy rain or snow

## Computer Handling

This section explains computer handling and maintenance.

### Cleaning the computer

To help ensure long, trouble-free operation, keep the computer free of dust and dirt, and use care with all liquids around it.

- Be careful not to spill liquids into the computer. If the computer does get wet, turn the power off immediately and let the computer dry completely - in these circumstance you should get the computer inspected by an authorized service provider in order to assess the scope of any damage.
- Clean the plastics of the computer using a slightly water dampened cloth.
- You can clean the display screen by spraying a small amount of glass cleaner onto a soft, clean cloth and then wiping the screen gently with the cloth.



*Never spray cleaner directly onto the computer or let liquid run into any part of it. Never use harsh or caustic chemical products to clean the computer.*

### Moving the computer

While the computer is designed for flexible day-to-day usage you should exercise a few simple precautions when moving it in order to help ensure trouble-free operation.

- Make sure all disk/disc activity has ended before moving the computer.
- Turn off (shut down) the computer.
- Disconnect the AC adaptor and all peripherals before moving the computer.
- Close the display panel.
- Do not pick up the computer by its display panel.
- Before carrying your computer, shut it down, disconnect the AC adaptor and allow it to cool down - a failure to follow this instruction may result in minor heat injury.
- Be careful not to subject the computer to impact or shock - a failure to follow this instruction could result in damage to computer, computer failure or loss of data.

- 
- Never transport your computer with any cards installed - this may cause damage to either the computer and/or the card resulting in product failure.
  - Always use a suitable carry case when transporting the computer.
  - When carrying your computer, be sure to hold it securely so that it does not fall or hit anything.
  - Do not carry your computer by holding any of its protruding elements.

## Heat dispersal

To protect against overheating, the processor is equipped with an internal temperature sensor which activates a cooling fan or lowers the processing speed if the computer's internal temperature rises to a certain level. You are able to select whether to control this temperature by either turning on the fan first, then if necessary lowering the processor speed, or by lowering the processor speed first, then if necessary turning on the fan. Both of these functions are controlled through the Power Options.

When the processor's temperature falls within normal range, the fan will be turned off and the processor operation returned to its standard speed.



*If the processor's temperature reaches an unacceptably high level with either setting, the computer automatically shuts down to prevent any damage. In this instance all unsaved data in memory will be lost.*

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# Chapter 5

## Utilities and Advanced Usage

This chapter describes the utilities and special features of this computer, and the advanced usage of some utilities.

### Utilities and Applications

This section describes the pre-installed utilities that come with the computer and details how to start them. For further information on their operation, you may refer to each utility's online manual, help files or README.TXT file (if applicable).



*All the utilities described here can be accessed from **Desktop -> Desktop Assist (in taskbar)**.*

*Furthermore, some utilities can also be launched from Start screen and via desktop shortcut.*

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#### **Desktop Assist**

Desktop Assist is a graphical user interface that provides access to specific tools and TOSHIBA utilities and applications that make the use and configuration of the computer easier.

To access this utility, click **Desktop -> Desktop Assist (in taskbar)**.

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#### **TOSHIBA PC Diagnostic Tool**

The TOSHIBA PC Diagnostic Tool will display basic system configuration information and allow the functionality of some of the computer's built-in hardware devices to be tested.

For details on TOSHIBA PC Diagnostic tool, see the help file.

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#### **TOSHIBA Password utility**

This utility allows you to set a password in order to restrict access to the computer.

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#### **TOSHIBA System Settings**

This utility allows you to customize your hardware settings according to the way you work with the computer and the peripherals you use.

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### TOSHIBA eco Utility

This computer is equipped with "eco mode". This mode slightly lowers performance of some devices to reduce electric power consumption. You can realize measurable power savings by using it continuously.

TOSHIBA eco Utility helps you control and monitor your power savings. Various information can help you to understand your degree of contribution to the environment.

Furthermore, this utility contains Peak shift function that can help reduce power usage during periods of peak demand by shifting some power consumption to periods when demand is lower.

To access this utility, click **Desktop -> Desktop Assist (in taskbar) -> Tools & Utilities -> eco Utility**.

For details on TOSHIBA eco Utility, see the help file.

---

### TOSHIBA Media Player by sMedioTrueLink+

This software is a multimedia player which can be used to play back video, music and photo.

TOSHIBA Media Player can play back contents on a local library/home network/SkyDrive.

To access it, click the **Media Player** icon on the Start screen.

For details, please refer to the Tutorial.

---

### TOSHIBA Function Key

This utility allows you to perform some features by pressing a specified key or combined with the FN key.

To setup this utility, click **Desktop -> Desktop Assist (in taskbar) -> Tools & Utilities -> TOSHIBA Function Key**.

For details, please refer to the [Function Key](#) section.

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### **TOSHIBA Service Station**

This application allows your computer to automatically search for TOSHIBA software updates or other alerts from TOSHIBA that are specific to your computer system and its programs. When enabled, this application periodically transmits to our servers a limited amount of system information, which will be treated in strict accordance with the rules and regulations as well as applicable data protection law.

To access this utility, click **Desktop -> Desktop Assist (in taskbar) -> Support & Recovery -> Service Station**.

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### **TOSHIBA PC Health Monitor**

The TOSHIBA PC Health Monitor application proactively monitors a number of system functions such as power consumption, battery health and system cooling, informing you of significant system conditions. This application recognizes the system and individual component serial numbers and will track specific activities related to their usage.

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### **TOSHIBA Resolution+ Plug-in for Windows Media Player**

The plug-in lets you upconverts wmv and mp4 videos on Windows Media Player.

For more information, please refer to the TOSHIBA Resolution+ Plug-in for Windows Media Player Help.

To access it, click **Desktop -> Desktop Assist (in taskbar) -> Media & Entertainment -> TOSHIBA Resolution+ Plug-in for Windows Media Player - Help**.



*You may not have all the software listed above depending on the model you purchased.*

## **Special features**

The following features are either unique to TOSHIBA computers or are advanced features which make the computer more convenient to use.

Access each function using the following procedures.

\*1 To access the Power Options, click **Desktop -> Desktop Assist (in taskbar) -> Control Panel -> System and Security -> Power Options**.



<b>Function keys</b>	Function keys are specific key combinations that let you quickly change the system configuration directly from the keyboard without running a system program.
<b>Display automatic power off *1</b>	This feature automatically cuts off power to the computer's display panel when there is no keyboard input for a specified time, with power being restored the next time a key is pressed. This can be specified in the Power Options.
<b>HDD automatic power off *1</b>	This feature automatically cuts off power to the hard disk drive when it is not accessed for a specified time, with power being restored when the hard disk drive is next accessed. This can be specified in the Power Options.
<b>System automatic Sleep/Hibernation Mode *1</b>	This feature automatically shuts down the system into either Sleep Mode or Hibernation Mode when there is no input or hardware access for a specified time. This can be specified in the Power Options.
<b>Power on password</b>	Two levels of password security, supervisor and user, are available to prevent unauthorized access to your computer.
<b>Intelligent power supply *1</b>	A microprocessor in the computer's intelligent power supply detects the battery's charge, automatically calculates the remaining battery capacity and protects electronic components from abnormal conditions such as a voltage overload from the AC adaptor. This can be specified in the Power Options.
<b>Battery save mode *1</b>	This feature lets you configure the computer in order to save battery power. This can be specified in the Power Options.
<b>Panel power on/off *1</b>	This feature automatically turns power to the computer off when the display panel is closed, and turns it back on when the display panel is opened. This can be specified in the Power Options.
<b>Low battery automatic Hibernation Mode *1</b>	When battery power is exhausted to the point that computer operation cannot be continued, the system automatically enters Hibernation Mode and shuts itself down. This can be specified in the Power Options.

<b>Heat dispersal</b> *1	To protect against overheating, the processor has an internal temperature sensor so that, if the computer's internal temperature rises to a certain level, the cooling fan is turned on or the processing speed is lowered. This can be specified in the Power Options.
<b>Sleep Mode</b>	If you have to interrupt your work, you can use this feature to allow you to turn off power to the computer without exiting from your software. Data is maintained in the computer's main memory so that when you next turn on the power, you can continue working right where you left off.
<b>Hibernation Mode</b>	This feature lets you turn off the power to the computer without exiting from your software. The contents of main memory are automatically saved to the SSD so that when you next turn the power on again, you can continue working right where you left off. Refer to the <a href="#">Turning off the power</a> section, for more details.
<b>USB Wakeup function</b>	This function restores the computer from Sleep Mode depending on the external devices connected to the USB ports.  For example, if a mouse or USB keyboard is connected to a USB port, clicking the mouse button or pressing the keyboard will wakeup the computer.

## TOSHIBA Password utility

The TOSHIBA Password utility provides two levels of password security: User and Supervisor.



*Passwords set by the TOSHIBA Password utility function are different from the Windows password.*

### User Password

To start the utility, click the following items:

**Desktop -> Desktop Assist (in taskbar) -> Tools & Utilities -> User Password**

User authentication may be required to validate user rights when using TOSHIBA Password Utility to delete or change passwords, etc.

- **Set** (button)

Click this button to register a password. After a password is set, you will be prompted to enter it when you start the computer.



- *After you set the password, a dialog box will be displayed asking whether you want to save it to a medium. If you forget the password, you can open the password file on another computer. Be sure to keep the media in a safe place.*
- *When entering the character string to register the password, enter from the keyboard character by character and do not enter as ASCII code or copy-and-paste the character string. In addition, ensure that the registered password is correct by outputting the character string to the password file.*
- *When entering a password, do not enter any characters (for example "!" or "#") produced by pressing the **SHIFT** or **ALT** keys and so on.*

- **Delete** (button)

Click this button to delete a registered password. Before you can delete a password, you must first enter the current password correctly.

- **Change** (button)

Click this button to change a registered password. Before you can change a password, you must first enter the current password correctly.

- **Owner String** (text box)

You can use this box to associate text with the password. After you enter text, click **Apply** or **OK**. When the computer is started, this text will be displayed together with the prompt asking you to enter a password.



*You can use BIOS Setup to set, change or delete the HDD Password or HDD Master Password.*

- *To start BIOS Setup, press and hold the **F2** key, and then turn on the computer. Release the **F2** key one second after the computer is power on.*
- *To end the BIOS Setup, press **F10**, and then press **Y** to accept the changes. The computer will restart.*

*If your computer does not load the BIOS Setup utility, please refer to the [Troubleshooting](#) section.*



- If you forget your HDD User Password, TOSHIBA will NOT be able to assist you, and your HDD will be rendered COMPLETELY and PERMANENTLY INOPERABLE. TOSHIBA will NOT be held responsible for any loss of any data, any loss of use or access to your HDD, or for any other losses to you or any other person or organization that result from the loss of access to your HDD. If you can't accept this risk, don't register the HDD User Password.
- When saving the HDD User Password shut down or restart the computer. If the computer is not shut down or restarted, the saved data may not be correctly reflected. For more information on shutting down or restarting the computer, refer to [Turning on the power](#).

## Supervisor Password

If you set a Supervisor Password, some functions might be restricted when a user logs on with the User Password. To set a Supervisor Password:

**Desktop -> Desktop Assist (in taskbar) -> Tools & Utilities -> Supervisor Password**

This utility lets you do the following:

- Register or delete the Supervisor Password.
- Specify restrictions for general users.

## Starting the computer by password

If you have already registered a user password, there is one way to start the computer:

- Enter the password manually.



*The password is necessary only if the computer was shut down in Hibernation mode or boot mode, not in Sleep mode and Restart.*

To enter a password manually, follow the steps as detailed below:

1. Turn on the power as described in the [Getting Started](#) section. The following message will appear in the screen:

### Enter Password



*At this point, the function keys do not work. They will function after you enter the password.*

2. Enter the Password.
3. Press **ENTER**.



*If you enter the password incorrectly three times in a row, or if you don't enter the password within 1 minute, the computer shuts off. In this case,*

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some features that can power on the computer automatically (Wake-up on LAN, Task Scheduler, etc) may not work. You must turn the computer back on to retry password entry.

## TOSHIBA System Settings

This section explains how to use the TOSHIBA System Settings to configure your computer, and provides information on settings for various functions.



*The settings or options explained here may vary depending on the model you purchased.*

*After you changed the settings, a dialog box may appear to prompt you that the changes will take effect after the computer is restarted. Make sure to restart your computer immediately to apply these changes.*

### Accessing TOSHIBA System Settings

To run TOSHIBA System Settings, click **Desktop -> Desktop Assist (in taskbar) -> Tools & Utilities -> System Settings** .

### TOSHIBA System Settings window

The TOSHIBA System Settings window contains a number of tabs to allow specific functions of the computer to be configured.

In addition there are also three buttons: OK, Cancel and Apply.

<b>OK</b>	Accepts your changes and closes the TOSHIBA System Settings window.
<b>Cancel</b>	Closes the window without accepting your changes.
<b>Apply</b>	Accepts all your changes without closing the TOSHIBA System Settings window.



*Some options shown in grey are possible to confirm their status.*

#### **General**

This window displays the installed **BIOS version**, **date** and **EC version**.

<b>Set all settings to default</b>	Return all values to the factory default settings.
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## Sleep and Charge

This tab allows you to set advanced features when the power of the computer is turned OFF. "Power OFF" includes Sleep Mode, Hibernation Mode or shutdown state.

It also displays the remaining battery capacity.

## Sleep and Charge

Your computer can supply USB bus power (DC5V) to the USB port even when the computer is turned OFF.

This function can be used for ports that support the Sleep and Charge function.

The port with the icon ( ⚡ ) has Sleep and Charge function. You can use the Sleep and Charge function to charge certain USB-compatible external devices such as mobile phones or portable digital music players.

Move the slider to enable or disable this function.

<b>Enabled</b>	Enables the <b>Sleep and Charge</b> function. Then you can use this function to charge certain USB-compatible external devices such as mobile phones or portable digital music players.
<b>Disabled</b>	Disables the <b>Sleep and Charge</b> function.



- *The Sleep and Charge function may not work with certain external devices even if they are compliant with the USB specification. In those cases, turn the power of the computer ON to charge the device.*
- *When Sleep and Charge function is enabled, USB bus power (DC5V) will be supplied to compatible ports even when the power of the computer is turned OFF. USB bus power (DC5V) is similarly supplied to the external devices which are connected to the compatible ports. However, some external devices cannot be charged solely by supplying USB bus power (DC5V). As for the specifications of the external devices, please contact the device manufacturer or check the specifications of the external devices thoroughly before use.*
- *Using the sleep and charge function to charge external devices will take longer than charging the devices with their own chargers.*
- *If Sleep and Charge function is enabled, the computer's battery will discharge during hibernation or when the computer is turned off. It is recommended that you connect the AC adaptor to the computer when enabling the Sleep and Charge function.*
- *External devices connected to the USB bus power (DC5V) function that interfaces with the power ON/OFF of the computer may always be in an operational state.*

- *When there is a current overflow of the external devices connected to the compatible ports, USB bus power (DC5V) supply may be stopped for safety reasons.*
- *When Sleep and Charge function is enabled, the USB Wakeup function does not work for compatible ports. In that case, if there is a USB port that does not have the Sleep and Charge function, attach the mouse or keyboard to it. If all USB ports have the Sleep and Charge function, change to disable Sleep and Charge function. The USB Wakeup function will now work, but the Sleep and Charge function will be disabled.*



*Metal paper clips or hair pins/clips will generate heat if they come into contact with USB ports. Do not allow USB ports to come into contact with metal products, for example when carrying the computer in your bag.*

Your PC has multiple charging modes so that many different USB devices can be supported for Sleep and Charge function. **Auto Mode** (Default) is suitable for a wide range of digital audio players.

Your computer supports High Current Mode (2.0A Mode). Using the following procedure to find a suitable mode from **Auto Mode** to **High Current Mode** for your USB device to charge.

Do not use High Current Mode when your USB devices do not support High Current Mode (2.0A Mode).

This function may not be able to be used with some connected external devices even if the appropriate mode is selected. In this situation, disable and stop using this function.

While using High Current Mode, your computer can supply USB bus power (DC5V, 2.0A) to the compatible ports while the computer is turned off.

Some external devices cannot use High Current Mode (2.0A Mode). As for the specifications of the external devices, please contact the device's manufacture or check the specifications of the external device thoroughly before use.

It is recommended that AC adaptor be connected to the computer while using High Current Mode.

Never use USB devices and cables not supporting this feature when High Current Mode is used.

Always use the USB cable that was included with your USB device.

### **Function under Battery Mode**

This utility can be used to enable/disable USB charge under battery mode. Move the slider to enable or disable this function.

<b>Enabled</b>	Enables Sleep and Charge function under battery mode.
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<b>Disabled</b>	Enables Sleep and Charge function only when the AC adaptor is connected.
<b>Lower limit of remaining battery life</b>	Specifies the lower limit of remaining battery life by moving the slider bar. If the remaining battery life falls below the setting, the Sleep and Charge function will be stopped.  This setting is only available when the <b>Function under Battery Mode</b> is enabled.

## **CPU**

This function allows you to set the processor's operating mode.

### **Dynamic CPU Frequency Mode**

This option allows you to configure the power saving modes associated with the processor - the following settings are available:

<b>Dynamically Switchable</b>	The processor's automatic clock speed switching function is enabled - in use the processor's operation is automatically switched when necessary.
<b>Always High</b>	The processor's automatic clock speed switching function is disabled - in use the processor will always run at its highest level of power consumption and its highest speed.
<b>Always Low</b>	The processor's automatic clock speed switching function is disabled - in use the processor will always run at a lower level of power consumption and a low speed.

## **Boot**

This tab allows you to modify the boot settings.

### **Boot Priority Options**

This option allows you to set the priority for booting the computer. Click the **Up** and **Down** buttons to adjust the priority.

To change the boot drive, follow the steps below.

1. Hold down **F12** and boot the computer. Release the **F12** key one second after the computer is power on.
2. Use the up and down cursor keys to select the boot device you want and press **ENTER**.



*If your computer does not load the Boot menu, please refer to the [Troubleshooting](#) section.*



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*If a Supervisor Password has been set, manual boot device selection functions may be restricted.*

*The boot device selection methods described above will not change the boot priority settings that have been configured in TOSHIBA System Settings. In addition, if you press a key other than one of those listed, or if the selected device is not installed, the system will continue to boot according to the current and available settings in TOSHIBA System Settings.*

### **Boot speed**

This option allows you to select system boot-up speed.

<b>Fast</b>	Reduces system boot-up time. System can boot only from the built-in HDD and only internal LCD and keyboard are supported during the boot process.
<b>Normal</b>	System boots up at normal speed.

### **USB Memory Boot Mode**

This option allows you to set the type of the USB memory to be used as a startup device.

<b>HDD Type</b>	Sets the USB memory to be the equivalent of a hard disk drive (default). With this setting, the USB memory device can be used to start the computer as though it were a hard disk drive based on the hard disk drive settings within both the Boot Priority and HDD Priority options detailed previously.
<b>FDD Type</b>	Sets the USB memory to be the equivalent of a floppy diskette drive. With this setting, the USB memory device can be used to start the computer as though it were a floppy diskette based on the floppy diskette drive settings within the Boot Priority option detailed previously.

### **Keyboard**

This tab allows you to set conditions for the Keyboard.

#### **Function Keys mode**

This feature allows you to configure the Function Keys Mode. Please refer to the [Function Key](#) section for more information about function keys.

<b>Special function mode</b>	Press the function key by itself to use special functions. Hold <b>FN</b> first to use standard F1-F12 functions.
<b>Standard F1-F12 mode</b>	Press the function key by itself to use standard F1-F12 functions. Hold <b>FN</b> first to use special functions.

### **Wake-up on Keyboard**

When this feature is enabled, and the computer is in Sleep Mode, you can turn on the system by pressing any key. However, please be aware that this option will only work with the internal keyboard and only when the computer is in Sleep Mode.

<b>Enabled</b>	Enables the Wake-up on Keyboard function.
<b>Disabled</b>	Disables the Wake-up on Keyboard function.

## **USB**

### **Legacy USB Support**

Use this option to enable or disable USB Legacy Emulation. If your operating system does not support USB, you can still use a USB mouse and keyboard by setting the Legacy USB Support item to enabled.

<b>Enabled</b>	Enables the USB Legacy Emulation.
<b>Disabled</b>	Disables the USB Legacy Emulation.

### **System ON CDP Charge Mode**

<b>Enabled</b>	Rapid USB battery charge at maximum 1.5A while PC is powered On.
<b>Disabled</b>	Conventional USB battery charge while PC is powered On.



*When "System ON CDP Charge Mode" is enabled, your computer can supply USB bus power (DC5V, 1.5A) to the compatible ports while the computer is turned on.*

*The "System ON CDP Charge Mode" may not work with certain external devices even if they are compliant with the USB specifications. In those cases, use a USB port without "USB Sleep and Charge function" or disable "System ON CDP Charge Mode".*

*It is recommended that AC adaptor be connected to the computer while using the "System ON CDP Charge Mode".*

*When your computer battery capacity is too low to continue, "System ON CDP Charge Mode" may not work. In those cases, connect the AC adaptor and reboot the computer.*

Never use USB cables not supporting this feature when "System ON CDP Charge Mode" (DC5V, 1.5A) is enabled.

Always use the USB cable that was included with your USB device.

When "System ON CDP Charge Mode" or "USB Sleep and Charge function" is enabled, the "USB Wakeup" function will not work. In that case, use a USB port without "USB Sleep and Charge function" or disable both "System ON CDP Charge Mode" and "USB Sleep and Charge function".

## **SATA**

This tab allows you to set conditions for SATA.

### **SATA Interface setting**

This feature allows you to set SATA interface setting.

<b>Performance</b>	Let SSD work with maximum performance. (Default)
<b>Battery life</b>	Let SSD work with battery life mode. If this setting is selected, performance will be lower.

## **Advanced**

This tab allows you to set the conditions for each device or function.

You can enable or disable the device or function you selected for power management. Disabled mode consumes less power.



*If you disable a device or function, you must re-enable it before you can use it again.*

## **TOSHIBA Media Player by sMedio TrueLink+**

Please be aware of the following limitations when you use the TOSHIBA Media Player by sMedio TrueLink+:

### **Notes on use**

This software is a multimedia player which can be used to play back video, music and photo. However, some files may not be able to play back normally.

- TOSHIBA Media Player can only support resolution higher than 1280x800.
- It is recommended that the AC adaptor be connected while TOSHIBA Media Player is running. Power saving features may interfere with smooth playback. When TOSHIBA Media Player is used with a battery power, set the Power Options to "Balance".

- The screen saver is disabled while TOSHIBA Media Player is playing a video file or slideshows of photos.
- The computer will not enter Sleep, Hibernation and shut-down mode automatically, while TOSHIBA Media Player is running.
- The display automatic power off function is disabled while TOSHIBA Media Player is playing a video file or slideshows of photos.
- The Resolution+ function was specially adjusted for the internal monitor. Hence, please turn OFF Resolution+ when viewing on external monitor.
- Playback of high bit rate content may cause frame dropping, audio skipping or decrease in computer performance.

## Operating TOSHIBA Media Player by sMedio TrueLink+

The steps for playing a video file on a local library:

1. Click **My Local Library** on the Start Page of TOSHIBA Media Player.
2. Click a video file to playback.

The steps for playing a music file on a local library:

1. Click **My Local Library** on the Start Page of TOSHIBA Media Player.
2. Click **Music** in the upper-left corner of the screen.
3. Select an artist icon or album icon for playback.
4. Click a music file to playback.

The steps for playing a photo file on a local library:

1. Click **My Local Library** on the Start Page of TOSHIBA Media Player.
2. Click **Photos** in the upper-left corner of the screen.
3. Select a folder icon or date icon for playback.
4. Click a photo file to playback.

## Opening TOSHIBA Media Player by sMedio TrueLink+ Manual

The features and operations about TOSHIBA Media Player are explained in the TOSHIBA Media Player Manual. Use the following procedure to open TOSHIBA Media Player Manual:

Click the **Tutorials** icon on the Start Page of TOSHIBA Media Player.

## TOSHIBA PC Health Monitor

The TOSHIBA PC Health Monitor application proactively monitors a number of system functions such as power consumption, battery health and the system cooling, informing you of significant system conditions. This application recognizes the system and individual component serial numbers, and will track specific activities related to the computer and their usage.

The collected information includes device operation time and number of actuations or status changes (i.e.: number of power button and **FN** key

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combination uses, AC adaptor, battery, LCD, fan, HDD, sound volume, wireless communication functionalities and USB information), date of initial system use, and also computer and device usage (i.e.: power settings, battery temperature and recharging, CPU, memory, backlight illumination time, and temperatures for various devices). The stored data uses a very small portion of the total hard disk capacity, approximately 10MB or less per year.

This information is used to identify and provide a notification of system conditions which may effect the performance of your TOSHIBA computer. It may also be used to help diagnose problems should the computer require service by TOSHIBA or TOSHIBA's authorized service providers. Additionally, TOSHIBA may also use this information for quality assurance analysis.


Subject to the use restrictions above, the HDD data logged may be transferred to entities located outside of your country or region of residence (e.g., European Union). Those countries may or may not have the same data protection laws or data protection levels as required by your home country or region.

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.

The TOSHIBA PC Health Monitor software does not extend or modify TOSHIBA's obligations under its standard limited warranty in any way. TOSHIBA's standard limited warranty terms and limitations apply.

## Starting the TOSHIBA PC Health Monitor

The TOSHIBA PC Health Monitor can be started using the following methods:

- Click **Desktop -> Desktop Assist (in taskbar) -> Support & Recovery -> PC Health Monitor**.
- Click the icon (  ) in the notification area, then click the **Enable PC Health Monitor...** message the first time you run the application and **Run PC Health Monitor...** every time thereafter.

No matter which method is used, the TOSHIBA PC Health Monitor explanation screen will be displayed.

Clicking **Next** will display the "PC Health Monitor Software Notice & Acceptance" screen. Please carefully read the information displayed. Selecting **ACCEPT** and clicking **OK** will enable the program. By enabling the TOSHIBA PC Health Monitor software, you agree with these terms and conditions and to the use and sharing of the collected information. Once the program is enabled, the TOSHIBA PC Health Monitor screen is displayed, and the program will begin monitoring system functions and collecting information.



A message will be displayed if any changes which may interfere with the operation of the program are detected. Follow the instructions displayed on screen in the message.

## System Recovery

There is a hidden partition allocated on the SSD for the System Recovery Options in the event of a problem.

You can also create recovery media and restore the system.

The following items will be described in this section:

- Creating Recovery Media
- Restoring the pre-installed software from your created Recovery Media
- Restoring the pre-installed software from the Recovery Solid State Drive
- Ordering Recovery Discs from TOSHIBA

### Creating Recovery Media

This section describes how to create Recovery Media.



- *Be sure to connect the AC adaptor when you create Recovery Media.*
- *Be sure to close all other software programs except the Recovery Media Creator.*
- *Do not run software such as screen savers which can put a heavy load on the CPU.*
- *Operate the computer at full power.*
- *Do not use power-saving features.*
- *Do not write to the media when the virus check software is running. Wait for it to finish, then disable virus detection programs including any software that checks files automatically in the background.*
- *Do not use utilities, including those intended to enhance SSD access speed. They may cause unstable operation and damage data.*
- *Do not shut down/log off or Sleep/Hibernate while writing or rewriting the media.*
- *Set the computer on a level surface and avoid places subjected to vibrations such as airplanes, trains, or cars.*
- *Do not use on an unstable surface such as a stand.*

A recovery image of the software on your computer is stored on the Hard Disk Drive, and can be copied to either disc media or USB Flash Memory by using the following steps:

1. Select either blank disc or USB Flash Memory.

The application will allow you to choose from a variety of different media onto which the recovery image can be copied including disc media and USB Flash Memory.



- *Please note that some of the disc media may not be compatible with the optical disc drive connected to your computer. You should therefore verify the optical disc drive supports the blank media you have chosen before proceeding.*
- *USB Flash Memory will be formatted and all the data in the USB Flash Memory will be lost when proceeding.*

2. Turn on your computer and allow it to load the Windows operating system from the Solid State Drive as normal.
3. Insert the first blank disc into the optical disc drive tray, or Insert the USB Flash Memory into one available USB port.
4. Click **Desktop -> Desktop Assist (in taskbar) -> Support & Recovery -> Recovery Media Creator**.
5. After 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 Media

If the pre-installed files are damaged, you are able to use the Recovery Media you have created to restore the computer to the state it was in when you originally received it. To perform this restoration, follow the steps below:



- *When you reinstall the Windows operating system, the hard disk will be reformatted and all data will be lost.*
- *Please make sure to use the default Boot Mode option in the BIOS setup utility before restoring.*

*To start BIOS Setup, press and hold the **F2** key, and then turn on the computer. Release the **F2** key one second after the computer is power on. If your computer does not load the Recovery options, please refer to the [Troubleshooting](#) section.*

*In the BIOS setup screen, select **Advanced -> System Configuration -> Boot Mode -> UEFI Boot** (Default).*

*If you set the Boot Mode as **CSM Boot**, the recovery media created by Recovery Media Creator will NOT be able to restore.*

*If you create a recovery image using advanced recovery tools from Control Panel, please also make sure to use the default Boot Mode option (**UEFI Boot**) in the BIOS setup utility before restoring.*

1. Load the Recovery Media into the external Optical Disc Drive or insert the recovery USB Flash Memory into one available USB port.
2. Turn off the computer's power.

3. While holding down the **F12** key on the keyboard, turn on your computer. Release the **F12** key one second after the computer is power on.
4. Use the up and down cursor key to select the appropriate option from the menu according to your actual recovery media. Please refer to the [Boot Priority Options](#) section for further information.
5. A menu will be displayed from which you should follow the on-screen instructions.



*If your computer does not load the Boot menu, please refer to the [Troubleshooting](#) section.*



*If you have previously chosen to remove the recovery partition and are trying to create "Recovery Media", you will see the following message: "The Recovery Media Creator can not be launched because there is no recovery partition."*

*When there is no recovery partition, the Recovery Media Creator cannot make Recovery Media.*

*However, if you have already created a "Recovery Media", you can use it to restore the recovery partition.*

*If you have not created "Recovery Media", please contact TOSHIBA support for assistance.*

## Restoring the pre-installed software from the Recovery Solid State Drive

A portion of the total Solid State Drive space is configured as a hidden recovery partition. This partition stores files which can be used to restore pre-installed software in the event of a problem.

If you subsequently set up your Solid State Drive again, do not change, delete or add partitions in a manner other than specified in the manual, otherwise you may find that space for the required software is not available.

In addition, if you use a third-party partitioning program to reconfigure the partitions on your Solid State Drive, you may find that it becomes impossible to setup your computer.



*Make sure that the AC adaptor is connected during the restoring process .*



*When you reinstall the Windows operating system, the Solid State Drive may be reformatted and all data may be lost.*

1. Turn off your computer.



2. While holding down **0** (zero) key on the keyboard, turn on your computer. Release the **0** (zero) key one second after the computer is power on.
3. A menu will be displayed from which you should follow the on-screen instructions.



*If your computer does not load the Recovery options, please refer to the [Troubleshooting](#) section.*

You can also perform the restoration through PC settings in the operating system:

1. Click the **Settings** charm and click **Change PC settings**.
2. Click **General** under PC settings.
3. Select the options you desired and follow the on-screen instructions.

## Ordering Recovery Discs from TOSHIBA\*

You can order Product Recovery discs for your computer from the TOSHIBA Europe Backup Media Online Shop.



*\* Please note that this service is not free-of-charge.*

1. Visit <https://backupmedia.toshiba.eu> on the Internet.
2. Follow the on-screen instructions. You will receive your Recovery Discs within two weeks after placing your order.

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# Chapter 6

## Troubleshooting

TOSHIBA have designed this computer for durability, however, should problems occur you are able to use the procedures detailed in this chapter to help determine the cause.

All users should become familiar with this chapter as knowing what might go wrong can help prevent problems from occurring in the first place.

### Problem solving process

Resolving problems will be much easier if you observe the following guidelines:

- Stop immediately when you recognize a problem exists as taking further action may result in data loss or damage, or you may destroy valuable problem related information that can help solve the problem.
- Observe what is happening - write down what the system is doing and what actions you performed immediately before the problem occurred. Make a screenshot of the current display.

Please also be aware that the questions and procedures described in this chapter are meant only as a guide, they are not definitive problem solving techniques. In reality many problems can be solved simply, but a few may require help from TOSHIBA Support - if you find you need to consult others, be prepared to describe the problem in as much detail as possible.

### Preliminary checklist

You should always consider the simplest solution first - the items detailed 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 - this includes your printer and any other external device you are using.
- Before you attach an external device you should first turn the computer off, then when you turn the computer back on again it will recognize the new device.
- Make sure all optional accessories are configured properly in the computer's setup program and that all required driver software has been loaded (please refer to the documentation included with the optional accessories for further information on its installation and configuration).

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- Check all cables to ensure they are correctly and firmly attached to the computer - loose cables can cause signal errors.
  - Inspect all connecting cables for loose wires and all connectors for loose pins.
  - Check that your disc media is correctly loaded

Always try to make detailed notes of your observations and keep them in a permanent error log - this will help you to describe your problems to TOSHIBA Support. In addition, if a problem recurs, the log you have made will help to identify the problem faster.

## Analyzing the problem

Sometimes the computer will give you clues that can help you identify why it is malfunctioning. In view of this you should keep the following questions in mind:

- Which part of the computer is not operating properly - keyboard, SSD, display panel, Touch Pad, Touch Pad control buttons - as each device will produce different symptoms.
- Check the options within the operating system to ensure that its configuration is set properly.
- What appears on the display? Does it display any messages or random characters? Make a screenshot of the current display and, if possible, look up the messages in the documentation included with the computer, software or operating system.
- Check that all connecting cables are correctly and firmly attached as loose cables can cause erroneous or intermittent signals.
- Do any indicators light, if so, which ones, what color are they and do they stay on or blink? Write down what you see.
- Do you hear any beeps, if so how many, are they long or short and are they high pitched or low pitched? In addition, is the computer making any unusual noises? Write down what you hear.

Record your observations so you can describe them in detail to TOSHIBA Support.

---

### Software

The problems may be caused by your software or disk. If you cannot load a software package, the media may be damaged or the program might be corrupted - in these instances try loading another copy of the software if possible.

If an error message appears while you are using a software package you should refer to the documentation supplied with it as this will usually include a problem solving section or a summary of error messages.

Next, you should check any error messages against the operating system documentation.

---

## Hardware

If you cannot find a software problem, you should then check the setup and configuration of your hardware. First run through the items in the preliminary checklist as described previously then, if you still cannot correct the problem, try to identify the source - the next section provides checklists for individual components and peripherals.



*Before using a peripheral device or application software that is not an authorized TOSHIBA part or product, make sure the device or software can be used with your computer. Use of incompatible devices may cause injury or may damage your computer.*

## If something goes wrong

### *Your program stops responding*

If you are working with a program that suddenly freezes all operations, chances are the program has stopped responding. You can exit the failed program without shutting down the operating system or closing other programs.

To close a program that has stopped responding:

1. Press **CTRL**, **ALT**, and **DEL** simultaneously (once), then click **Start Task Manager**. The Windows® Task Manager window appears.
2. Select the program you want to close, then click **End Task**. Closing the failed program should allow you to continue working. If it does not, continue with the next step.
3. Close the remaining programs one by one by selecting the program name, then **End Task**. Closing all programs should allow you to continue working. If it does not, power off your computer and then restart it.

### *The computer will not start*

Make sure you attached the AC adaptor and power cord/cable properly.

If you are using the AC adaptor, check that the wall outlet is working by plugging in another device, such as a lamp.

Verify that the computer is on by looking at the ON/OFF indicator.

If the indicator is glowing, the computer is on. Also, try turning the computer off and then on.

If you are using an AC adaptor, verify that the computer is receiving power from the external power source by looking at the DC IN/Battery indicator. If the indicator is glowing, the computer is connected to a live external power source.

## ***The computer will not load advanced options during startup***

By holding down one of the following keys during startup, your computer will load advanced options as shown below.

<b>Key</b>	<b>Advanced option</b>
F2	BIOS utility
F12	Boot menu
0 (zero)	Recovery options

If your computer starts to load the Operating System instead of desired advanced options, follow the steps below:

1. In the **Settings** charm, click **Power** and then select **Restart**.
2. Hold down the corresponding key and then release this key one second after the computer is powered on.
3. Follow the on-screen instructions to proceed.

## **Hardware and system checklist**

This section discusses problems caused by your computer's hardware or attached peripherals. Basic problems may occur in the following areas:

- Power
- Keyboard
- Internal display panel
- SSD
- Memory Media Card
- Pointing device
- USB device
- Sound system
- Wireless LAN
- Bluetooth

### **Power**

When the computer is not plugged into an AC power outlet, the battery pack is the primary power source. However, your computer also has a number of other power resources, including an intelligent power supply and a Real Time Clock (RTC) battery, all of which are interrelated with any one having the ability to produce apparent power problems.

#### ***Overheating power down***

If the processor's temperature reaches an unacceptably high level with either setting, the computer will automatically shut down to prevent any damage - in this instance all unsaved data in memory will be lost.

<b>Problem</b>	<b>Procedure</b>
Computer shuts down automatically.	Leave the computer off until it reaches room temperature. If the computer has reached room temperature and it still does not start, or if it starts but shuts down quickly, contact TOSHIBA Support.

---

## **AC power**

If you have trouble turning on the computer with the AC adaptor connected you should check the status of the **DC IN/Battery** indicator. Please refer to the [Monitoring of power condition](#) section for further information.

<b>Problem</b>	<b>Procedure</b>
AC adaptor doesn't power the computer	<p>Check the connections to make sure that the power cord/adaptor is firmly connected to the computer and a working power outlet.</p> <p>Check the condition of the cord and terminals. If the cord is frayed or damaged it should be replaced, while if the terminals are soiled, they should be cleaned with a clean cotton cloth.</p> <p>If the AC adaptor still does not power the computer, you should contact TOSHIBA Support.</p>

## **Battery**

If you suspect a problem with the battery, you should check the status of the **DC IN/Battery** indicator.

<b>Problem</b>	<b>Procedure</b>
Battery doesn't power the computer	The battery may be discharged - connect the AC adaptor to recharge the battery.
Battery doesn't charge when the AC adaptor is attached	If the battery is completely discharged, it will not begin charging immediately, in these instances you should wait a few minutes before trying again. If the battery still does not charge, you should check that the power outlet the AC adaptor is connected to its supplying power - this can be tested by plugging another appliance into it.
Battery doesn't power the computer as long as expected	<p>If you frequently recharge a partially charged battery, the battery might not charge to its full potential - in these instances you should fully discharge the battery and then attempt to charge it again.</p> <p>Check the <b>Power saver</b> option under <b>Select a power plan</b> in the <b>Power Options</b>.</p>

---

## Real Time Clock

Problem	Procedure
The BIOS setting and system date/time are lost.	<p>The charge in the Real Time Clock (RTC) battery has run out - you will need to set the date and time in the BIOS setup application by using the following steps:</p> <ol style="list-style-type: none"><li>1. Press and hold the <b>F2</b> key, and then turn on the computer. Release the <b>F2</b> key one second after the computer is power on - the BIOS setup utility will load.</li><li>2. Set the date in the <b>System Date</b> field.</li><li>3. Set the time in the <b>System Time</b> field.</li><li>4. Press <b>F10</b> - a confirmation message will be displayed.</li><li>5. Press the <b>Y</b> key - the BIOS setup application will end and the computer will restart.</li></ol>

---

## Keyboard

Keyboard problems can be caused by the setup and configuration of the computer - please refer to the [The Keyboard](#) section for further information.

Problem	Procedure
Output to screen is garbled	<p>Please refer to your software's documentation to ensure that it is not remapping the keyboard in any way (remapping involves changing or reassigning the function of each key).</p> <p>If you are still unable to use the keyboard, you should contact TOSHIBA Support.</p>

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## Internal display panel

Apparent computer's display panel problems may be related to the computer's setup and configuration - please refer to the [TOSHIBA System Settings](#) section, for further information.

Problem	Procedure
No display	Press the function keys to adjust the display priority, and to make sure it is not set for output to an external monitor.

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Problem	Procedure
Markings appear on the computer's display panel.	These marks may have come from contact with the keyboard and Touch Pad while the display panel has been closed. You should try to remove the marks by gently wiping the display panel with a clean dry cloth or, if this fails, with a good quality LCD screen cleaner. In this latter instance you should always follow the instructions with the screen cleaner and always ensure you let the display panel dry properly before closing it.

## Solid State Drive

Problem	Procedure
Computer does not boot from Solid State Drive	<p>Check to see whether there is a disc in the optical disc drive - if so remove it and try to start the computer again.</p> <p>If this has no effect, check the <b>Boot Priority</b> setting within the TOSHIBA System Settings - please refer to the <a href="#">Boot Priority Options</a> section for further information.</p>
Slow performance	<p>The files on the SSD may be fragmented - in this instance you should run the disk Defragmentation utility to check the condition of your files and the Solid State Drive. Please refer to the operating system's documentation or online Help File for further information on operating and using the Defragmentation utility.</p> <p>As a last resort you should reformat the Solid State Drive and then reload the operating system and all other files and data. If you are still unable to resolve the problem, contact TOSHIBA Support.</p>

## Memory Media Card

For further information, please refer to [Operating Basics](#).

Problem	Procedure
Memory media card error occurs	<p>Remove the memory media card from the computer and then reinsert it in order to ensure it is firmly connected.</p> <p>If the problem persists, then you should refer to the documentation supplied with your memory media card for further information.</p>



Problem	Procedure
You cannot write to a memory media card	Remove the memory media card from the computer and check to ensure that it is not write protected.
You cannot read a file	Check to ensure the required file is actually on the memory media card that is inserted into the computer.  If you are still unable to resolve the problem, contact TOSHIBA Support.

## Pointing device

If you are using a USB mouse, you should also refer to both the [USB mouse](#) section, and the documentation supplied with your mouse.

### *Touch Pad*

Problem	Procedure
The Touch Pad does not work.	Check the Device Select settings.  Click <b>Desktop -&gt; Desktop Assist (in taskbar) -&gt; Control Panel -&gt; Hardware and Sound -&gt; Mouse</b> .  Press function keys to enable.
On-screen pointer does not respond to pointing device operation	In this instance the system might be busy - Try moving the mouse again after waiting a short while.
Double-tapping (Touch Pad) does not work	In this instance, you should initially try changing the double-click speed setting within the Mouse Control utility.  <ol style="list-style-type: none"> <li>To access this utility, click <b>Desktop -&gt; Desktop Assist (in taskbar) -&gt; Control Panel -&gt; Hardware and Sound -&gt; Mouse</b>.</li> <li>Within the Mouse Properties window, click the <b>Buttons</b> tab.</li> <li>Set the Double Click Speed as required and click <b>OK</b>.</li> </ol>

Problem	Procedure
The on-screen pointer moves too fast or too slow	<p>In this instance, you should initially try changing the speed setting within the Mouse Control utility.</p> <ol style="list-style-type: none"> <li>To access this utility, click <b>Desktop -&gt; Desktop Assist (in taskbar) -&gt; Control Panel -&gt; Hardware and Sound -&gt; Mouse</b>.</li> <li>Within the Mouse Properties window, click the <b>Pointer Options</b> tab.</li> <li>Set the pointer speed as required and click <b>OK</b>.</li> </ol> <p>If you are still unable to resolve the problem, contact TOSHIBA Support.</p>
The reaction of Touch Pad is either too sensitive or not sensitive enough.	<p>Adjust the touch Sensitivity.</p> <p>To access it, click <b>Desktop -&gt; Desktop Assist (in taskbar) -&gt; Control Panel -&gt; Hardware and Sound -&gt; Mouse</b> .</p> <p>If you are still unable to resolve the problem, contact TOSHIBA Support.</p>

### **USB mouse**

Problem	Procedure
On-screen pointer does not respond to mouse operation	<p>In this instance the system might be busy - Try moving the mouse again after waiting a short while.</p> <p>Remove the mouse from the computer and then reconnect it to a free USB port in order to ensure it is firmly attached.</p>
Double-clicking does not work	<p>In this instance, you should initially try changing the double-click speed setting within the Mouse Control utility.</p> <ol style="list-style-type: none"> <li>To access this utility, click <b>Desktop -&gt; Desktop Assist (in taskbar) -&gt; Control Panel -&gt; Hardware and Sound -&gt; Mouse</b>.</li> <li>Within the Mouse Properties window, click the <b>Buttons</b> tab.</li> <li>Set the double-click speed as required and click <b>OK</b>.</li> </ol>

Problem	Procedure
The on-screen pointer moves too fast or too slow	<p>In this instance, you should initially try changing the speed setting within the Mouse Control utility.</p> <ol style="list-style-type: none"> <li>To access this utility, click <b>Desktop -&gt; Desktop Assist (in taskbar) -&gt; Control Panel -&gt; Hardware and Sound -&gt; Mouse</b>.</li> <li>Within the Mouse Properties window, click the <b>Pointer Options</b> tab.</li> <li>Set the pointer speed as required and click <b>OK</b>.</li> </ol>
The on-screen pointer moves erratically	<p>The elements of the mouse responsible for detecting movement might be dirty - please refer to the documentation supplied with the mouse for instructions on how to clean it.</p> <p>If you are still unable to resolve the problem, contact TOSHIBA Support.</p>

## USB device

In addition to the information in this section, please also refer to the documentation supplied with your USB device.

Problem	Procedure
USB device does not work	<p>Remove the USB device from the computer and then reconnect it to a free port in order to ensure it is firmly attached.</p> <p>Ensure that any required USB device drivers are properly installed - to achieve this you should refer to both the device documentation and the operating system documentation.</p>

### *Sleep and Charge function*

For more information and settings, please refer to the [Sleep and Charge](#) section.

Problem	Procedure
<p>I cannot use the Sleep and Charge function.</p>	<p>Sleep and Charge function may be disabled. Enable the <b>Sleep and Charge</b> function in the TOSHIBA System Settings.</p> <p>When there is a current overflow of the external device connected to the compatible port, USB bus power (DC5V) supply may be stopped for safety reasons. When this happens, disconnect an external device if some external devices are connected. After that, turn the power of the computer ON/OFF to restore the function. If this function can not be still used even if only one external device is connected, stop using the external device because its current is over the acceptable value of this computer.</p> <p>Some external devices may not be able to use the Sleep and Charge function. In this case, please try one or more of the following methods.</p> <ul style="list-style-type: none"> <li>■ Turn OFF the computer while external devices are connected.</li> <li>■ Connect external devices after turning OFF of the computer.</li> </ul> <p>If this function can not be still used, change the setting to disable the function and stop using this function.</p>
<p>The battery depletes quickly even when I turned OFF the power of the computer.</p>	<p>If Sleep and Charge function is enabled, the computer's battery will discharge during hibernation or when the computer is turned off. Connect the AC adaptor to the computer or disable the Sleep and Charge function.</p>
<p>External devices connected to the compatible ports do not work when connected to a compatible port.</p>	<p>Some external devices may not work when connected to a compatible port if the Sleep and Charge function is enabled. Reconnect the external device after turning the computer ON.</p> <p>If the external device still does not work, connect device to an USB port that does not have the Sleep and Charge function or change to disable the Sleep and Charge function.</p>

Problem	Procedure
The "USB Wakeup function" does not work.	<p>When "System ON CDP Charge Mode" or "USB Sleep and Charge function" is enabled, the "USB WakeUp" function does not work for ports that support the Sleep and Charge function.</p> <p>In that case, use an USB port that does not have the USB Sleep and Charge function or change to disable both "System ON CDP Charge Mode" and "USB Sleep and Charge function".</p>

## Sound system

In addition to the information in this section, please also refer to the documentation supplied with your audio device.

Problem	Procedure
No sound is heard	<p>Increase or decrease the volume.</p> <p>Check the software volume settings.</p> <p>Please check to see if Mute is turned to Off</p> <p>Check to make sure the headphone connection is secure.</p> <p>Check within the Windows Device Manager application to ensure the sound device is enabled and that the device is properly working.</p>
Annoying sound is heard	<p>In this instance you may be experiencing feedback from either the internal microphone or an external microphone connected to the computer - please refer to <a href="#">Sound System and Video mode</a> for further information.</p> <p>Volume cannot be adjusted during Windows start up or shut down.</p> <p>If you are still unable to resolve the problem, contact TOSHIBA Support.</p>

## External monitor

Please also refer to [Operating Basics](#), and to the documentation supplied with your monitor for further information.

Problem	Procedure
Monitor does not turn on	After confirming that the monitor's power switch is on, you should check the connections to make sure that the power cord/adaptor is firmly connected to the monitor and to a working power outlet.
No display	<p>Try adjusting the contrast and brightness controls on the external monitor.</p> <p>Press the function key in order to change the display priority and ensure that it is not set for the internal display only.</p> <p>Check to see if the external monitor is connected.</p> <p>When the external monitor is set as the primary display device in extended desktop mode, it will not display when the computer wakes up from Sleep Mode if the external monitor has been disconnected while in Sleep Mode.</p> <p>To keep this from happening, do not disconnect the external monitor while the computer is in Sleep or Hibernation Mode.</p> <p>Remember to turn off the computer before disconnecting the external monitor.</p> <p>When the display panel and an external monitor are set to clone mode and they are turned off by the timer, the display panel or the external monitor may not display when turned on again.</p> <p>If this occurs, press the function key to re-set the display panel and external monitor to clone mode.</p>
Display error occurs	<p>Check that the cable connecting the external monitor to the computer is firmly attached.</p> <p>If you are still unable to resolve the problem, contact TOSHIBA Support.</p>

## Wireless LAN

If the following procedures do not restore LAN access, consult your LAN administrator. For more information on wireless communication, refer to [Operating Basics](#).

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Problem	Procedure
Cannot access Wireless LAN	Make sure the computer's Wireless communication function is on.  If problems persist, contact your LAN administrator.

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## Bluetooth

For further information on Bluetooth wireless communication, please refer to [Operating Basics](#).

Problem	Procedure
Cannot access Bluetooth device	Check to ensure the computer's Wireless Communication function is on.  Check to ensure the Bluetooth Manager application is running on the computer and that power to the external Bluetooth device is turned on.  Check to ensure that no optional Bluetooth Adaptor is installed in the computer - the built-in Bluetooth hardware cannot operate simultaneously with another Bluetooth controller.  If you are still unable to resolve the problem, contact TOSHIBA Support.

---

## 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 so it is important that you investigate other sources of assistance first. Before contacting TOSHIBA, try the following:

- Review troubleshooting sections in the documentation supplied with your software and/or peripheral devices.
- If a problem occurs when you are running software applications, consult the software documentation for troubleshooting suggestions and consider calling the software company's technical support department for assistance.
- Consult the reseller or dealer from where you purchased your computer and/or software - they are your best resource for current information and support.

---

## **TOSHIBA technical support**

If you are still unable to solve the problem and suspect that it is hardware related, read the enclosed warranty booklet or visit [www.toshiba-europe.com](http://www.toshiba-europe.com) on the Internet.



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