SONY®

PLAYSTATION ® **3**

Safety and Support

CECHL04

Before using this product, carefully read all product documentation and retain it for future reference.

WARNING

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Caution
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
The use of optical instruments with this product will increase eye hazard.

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CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
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This appliance is classified as a CLASS 1 LASER product under IEC60825-1+A2:2001.

$C\epsilon$ ①

This equipment has been tested and found to comply with the limits set out in the R&TTE Directive using a connection cable shorter than 3 metres. Do not use cables longer than 3 metres.

The manufacturer of this product is Sony Computer Entertainment Inc., 2-6-21 Minami-Aoyama, Minato-ku Tokyo, 107-0062 Japan. The Authorised Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany.
Distributed in Europe by Sony Computer Entertainment Europe Ltd, 10 Great Marlborough Street, London, W1F 7LP.

Seizures induced by light stimulation (Photosensitive Epilepsy)

If you have an epileptic condition or have had seizures, consult your doctor prior to playing. Some individuals may experience eye soreness, altered vision, migraine, muscle twitching, convulsion, blackout, loss of awareness or disorientation when exposed to flashing or flickering lights or other light stimulation on a television screen or while playing video games. If you experience any of the above symptoms while playing, discontinue use immediately and consult your doctor.

Stop playing immediately when you experience the following symptoms
In addition to the above symptoms, whilst playing if you have a headache, dizziness, nausea, fatigue, similar symptoms to motion sickness, or if you feel a discomfort or pain in any body part such as eyes, ears, hands, arms, feet, discontinue use immediately. If the condition persists, seek medical attention.

Radio waves

Radio waves may affect electronic equipment or medical devices (for example, pacemakers), which may cause malfunctions and possible injuries.
- If you use a pacemaker or other medical device, consult your physician or the manufacturer of your medical device before using the wireless networking feature (Bluetooth and wireless LAN).
- Do not use the wireless networking feature in the following locations:
  – Areas where wireless network use is prohibited, such as in hospitals. Abide by medical institution regulations when using the system on their premises.
  – Areas near fire alarms, automatic doors and other types of automated equipment.

About DNAS

Sony Computer Entertainment Inc. uses DNAS (Dynamic Network Authentication System), a proprietary authentication system, to help protect copyright and security in connecting the PS3™ system to a network. DNAS may retrieve information about a user's hardware and software for authentication, copy protection, account blocking, system, rules, or game management and other purposes. The information collected does not identify the user personally. The unauthorised transfer, exhibition, export, import or transmission of programs and devices circumventing its authentication scheme may be prohibited by law.

System software

The System Software included within this product is subject to a limited licence from Sony Computer Entertainment Inc. Refer to http://www.scei.co.jp/ps3-eula for further details.

Table of contents

Information about system functionality published in this document may vary from the information for your PS3™ system, depending on the system software version in use.

About the PS3™ system documentation

The PS3™ system documentation includes the following:

Safety and Support (this document)

This document contains safety information related to the use of the PS3™ system, troubleshooting, specifications and other information.

Quick Reference

This document contains information on setting up the PS3™ system, preparing for use and basic hardware operations.

User's Guide (access from : eu.playstation.com/manuals)

This online document is accessed through the Internet and contains detailed information related to use of the PS3™ system software.

Precautions

Safety

This product has been designed with the highest concern for safety. However, any electrical device, if used improperly, has the potential for causing fire, electrical shock or personal injury. To help ensure accident-free operation, follow these guidelines:

- Observe all warnings, precautions and instructions.
- Regularly inspect the AC power cord for damage and for dust build-up around the power plug or electrical outlet.
- Stop use, unplug the AC power cord from the electrical outlet and disconnect any other cables immediately if the device functions in an abnormal manner, produces unusual sounds or smells or becomes too hot to touch.
- Contact the appropriate PlayStation® customer service helpline which can be found within every PlayStation®, PlayStation®2, and PLAYSTATION®3 software manual.

Use and handling

- Use in a well-lit area and keep a safe distance from the TV screen.
- Avoid prolonged use of the PS3™ system. Take a 15-minute break during each hour of play.
- Avoid playing when you are tired or need sleep.
- Stop using the system immediately if you begin to feel tired or if you experience discomfort or pain in your hands or arms while operating the Wireless Controller. If the condition persists, consult a doctor.
- If you experience any of the following health problems, discontinue use of the system immediately. If symptoms persist, consult a doctor.
  – Dizziness, nausea, fatigue or symptoms similar to motion sickness
  – Discomfort or pain in a part of the body, such as eyes, ears, hands or arms
- Keep the system and accessories, including cable ties and fasteners, out of the reach of small children.

- Do not connect cables other than a USB cable while the system is turned on (power indicator lit solid green).
- Do not touch the system or connected cables or accessories during an electrical storm.
- Do not use the system or accessories near water.
- Do not allow liquid, small particles or other foreign objects to get into the system or accessories.
- Do not touch the connectors of the system or accessories.
- Do not expose the system or accessories to dust, smoke or steam. Also, do not place the system in an area subject to excessive dust or cigarette smoke. Dust build-up or cigarette smoke residue on the internal components (such as the lens) may cause the system to malfunction.
- Do not expose the system or accessories to high temperatures, high humidity or direct sunlight.
- Do not place the system or accessories on surfaces that are unstable, tilted or subject to vibration.
- Do not set the system other than in the vertical or horizontal position. Also, do not change the position while the system is turned on.
- Be careful when carrying the system. If you do not have a good grip, the system may drop causing potential damage or injury.
- Do not move or change the position of the system with a disc inserted. The vibration may result in scratching of the disc or the system.
- Do not turn off the system while data is being saved on or loaded from the hard disk.
- Do not stand on or put objects on the system, and do not stack the system with other devices.
- Do not place the system and connected accessories on the floor or in a place where they may cause someone to trip or stumble.
- Do not allow bodily contact with the system or air from the system vents for an extended period of time while in use. Extended contact under these conditions may cause low-temperature burns.
- When connecting the system to a plasma or projection* TV, do not leave a still image on the TV screen for an extended period of time, as this may leave a faint image permanently on the screen.
  * Except LCD screen types
- Parents are encouraged to monitor children in online activities to ensure safe and responsible Internet usage.

Notes on safety when using the DUALSHOCK®3 Wireless Controller*

- Do not use the vibration function if you have any ailment or injury to the bones, joints or muscles of your hands or arms. If you have an ailment or an injury, do not play such titles using the DUALSHOCK®3 Wireless Controller unless you have set the vibration function to "Off".
- When using the motion sensor function of the Wireless Controller, be cautious of the following points. If the controller hits a person or object, this may cause accidental injury or damage.
  – Before using the motion sensor function, make sure you have enough space to move around.
  – Firmly grip the Wireless Controller to prevent it from slipping out of your grasp and causing damage or injury.
  – When using the Wireless Controller with a USB cable, ensure that the cable cannot hit a person or any object, and do not pull the cable out of the PS3™ system whilst playing.

* These notes also apply to other controllers.

Vents

Do not block any vents. To maintain good ventilation, follow the guidelines below:
- Place the system at least 10 cm away from a wall surface.
- Do not place on a carpet or rug with long fibres.
- Do not place in a narrow or cramped space.
- Do not cover with cloth.
- Do not allow dust to build up on the vents.

AC power cord use

- To help ensure safe operation, regularly inspect the AC power cord. If damaged, stop use immediately and contact the appropriate PlayStation® customer service helpline which can be found within every PlayStation®, PlayStation®2, and PLAYSTATION®3 software manual.

- Do not use a power cord other than the supplied AC power cord. Do not modify the cord.
- Do not touch the plug of the AC power cord with wet hands.
- Protect the AC power cord from being walked on or pinched particularly at plugs, expansion receptacles and the point where the cord exits from the system.
- Do not place heavy items on the cord.
- Do not place the AC power cord near heating equipment and do not expose the cord to heat.
- Do not allow dust or foreign matter to build up around the AC IN connector. Before connecting or plugging in the AC power cord, check that there is no dust or foreign matter in or on the power plug or connecting end of the cord, the electrical outlet or the AC IN connector on the system rear. If the plug or connector becomes dirty, wipe off with a dry cloth before connecting.
- Unplug the AC power cord from the electrical outlet before cleaning or moving the system, or when you do not intend to use the system for an extended period of time. When disconnecting, grasp the power cord by the plug and pull straight out of the electrical outlet. Never pull by the cord and do not pull out at an angle.
- Do not connect the AC power cord to a voltage transformer or inverter. Connecting the AC power cord to a voltage transformer for overseas travel or an inverter for use in an automobile may cause heat to build up in the system and may cause burns or a malfunction.

Never disassemble or modify the system or accessories

Use the PS3™ system and accessories according to the instructions in the product documentation. No authorisation for the analysis or modification of the system or accessories, or the analysis and use of its circuit configurations, is provided. Unauthorised modification of the system or accessories will void your warranty. There are no user serviceable components inside the PS3™ system (the supplied hard disk may be removed but not disassembled or modified). Additionally, there is a risk of exposure to laser radiation as well as to electrical shock.

Network

- A broadband Internet connection is required to connect to a network.

- User is responsible for Internet service fees. For details, refer to the information provided in your service contract or contact your Internet service provider.
- Use only an Ethernet cable compatible with 10BASE-T, 100BASE-TX or 1000BASE-T networks. Do not use a cord for a standard residential telephone line or cables of types other than those mentioned here. Using the wrong type of cord or cable can cause more electrical current than necessary to flow through the LAN connector, which may lead to heat build-up, fire or malfunction.

Wireless networking feature

- The 2.4 GHz range of radio waves used by the wireless networking feature of this product is a range shared by various devices. This product has been designed to minimise the effect of other devices using the same range. However, in some cases interference from other devices may reduce the connection speed, shorten the signal range or cause the connection to be terminated unexpectedly.
- When using the PS3™ system's scan function to select a wireless LAN access point, access points that are not intended for public use may be displayed. Only connect to an access point that you are authorised to use, or one that is available through a public wireless LAN or hotspot service.

Moisture condensation

If the system or disc is brought directly from a cold location to a warm one, moisture may condense on the lens inside the system or on the disc. Should this occur, the system may not operate properly. In this case, remove the disc and turn off and unplug the system. Do not put the disc back in until the moisture evaporates (this may take several hours). If the system still does not operate properly, contact the appropriate PlayStation® customer service helpline which can be found within every PlayStation®, PlayStation®2, and PLAYSTATION®3 software manual.

Cleaning

For safety reasons, before cleaning the system or connected accessories, disconnect the AC power cord from the electrical outlet.

Exterior surfaces (plastic cover of system and Wireless Controller)

Follow the instructions below to help prevent the product exterior from deteriorating or becoming discoloured.
- Wipe with a soft, dry cloth.
- Do not apply insecticides or other volatile substances.
- Do not place any rubber or vinyl materials on the product exterior for an extended period of time.
- Do not use solvents or other chemicals. Do not wipe with a chemically-treated cleaning cloth.

Vents

When dust accumulates in the system vents, remove the dust with a low-powered vacuum cleaner.

Connectors

Do not use when the connectors of the system or the AC power cord are not clean. If used when dirty, the flow of electrical current may be obstructed. Remove the dirt with a dry cloth.

Backing up data

You should where possible make periodic back-ups of data stored on the hard disk drive as a precaution against possible loss or corruption. If for any reason software or data loss or corruption occurs or the hard disk must be formatted during authorized service, it may not be possible to restore or repair the software or data. Note that SCEE will not be liable for any loss or corruption of data, files or software.

Using the backup utility

You can back up data stored on the hard disk to a USB mass storage device and restore data that has been backed up. Select "Backup Utility" under ⚙ (Settings) ➡ 🎮 (System Settings) and follow the on-screen instructions to perform this operation. In some cases, you may not be able to use the backup utility feature to back up or restore the system correctly. It is recommended that you create a spare backup for important data in advance by copying or moving the data to a USB mass storage device.

For details on the backup utility feature, refer to the online user's guide.

Copying/moving files

The following file types saved on the system's hard disk can be copied or moved to a USB device. Select the file, press the Ⓐ button, and then select "Copy" or "Move" from the options menu. You may not be able to copy or move files that contain copyright-protected data.

File type	Back up destination
Saved data from games; video, audio or image files	USB mass storage device (USB flash drive, etc.)

Hint

By using a commercially available card reader/writer (USB connector type), you can back up files saved on the hard disk to storage media such as a Memory Stick™ or an SD Memory Card.
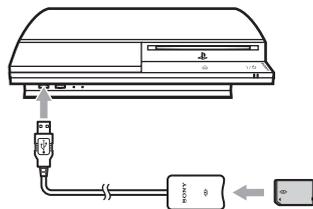
Note on compatibility

Some media may have region or territorial restrictions and may not work with your system. See media packaging for details.

Handling

• Do not touch the disc surface when handling a disc; hold it by the edges.
• Do not stick paper or tape onto discs and do not write on discs.
• Fingerprints, dust, dirt or scratches on the disc can distort the picture or reduce sound quality. Always handle carefully and check that discs are clean before use.

Storage

• Do not expose discs to high temperatures, high humidity or direct sunlight.
• When discs will not be used for an extended period of time, store them in their cases. Stacking uncased discs or storing them at an angle can cause them to warp.

Cleaning method

• Clean discs with a soft cloth, lightly wiping from the centre outwards.
• Do not use solvents, record cleaners, anti-static spray or other chemicals as these can damage the discs.

Before requesting service

Go through this section if you experience difficulty in operating the PS3™ system. Should any problem persist, contact the appropriate PlayStation® customer service helpline which can be found within every PlayStation®, PlayStation®2, and PLAYSTATION®3 software manual.

Power

The system does not turn on.

➡ Check that the main power switch on the system rear is turned on.

➡ Check that the AC power cord is securely inserted in the system and the electrical outlet.

Picture

There is no picture on the TV screen.

➡ Adjust the video input on the TV to match the input connector that is being used to connect to the PS3™ system.

➡ Check that the cable is securely inserted. Try disconnecting the cable from the PS3™ system or TV and then reconnecting it.

➡ There may be a problem with the AV cable in use. Try using another cable that is compatible with the PS3™ system.

➡ If the video output settings on the system do not match those of the cable or TV in use, there may be no picture. If the screen goes blank, turn off the system. Then, with only the system and the TV connected, touch the system's power button for more than 5 seconds to turn the system back on. The video output settings will automatically be reset to the standard resolution.

➡ If the resolution of the video content is not supported by the TV in use, when the video is played the screen may go blank. If this happens, go to the screen for selecting the resolution in the system's video output settings, and then select all the resolutions that are supported by the TV.

The Blu-ray Disc (BD) or DVD cannot be played, or the picture is distorted.

➡ When outputting DVD content or PLAYSTATION®3 format software in SD resolution, only discs recorded in the PAL standard can be played.

➡ If the system is connected to a VCR or a combination TV/VCR unit, copy protection encoding on some BDs and DVDs may cause image distortion, or may cause the image to become lighter or darker. In such cases, connect the system to the TV directly.

➡ If the BD or DVD does not match the region code set in the system, it cannot be played.

➡ Some DVDs are preset with parental control restrictions. Enter the password that was set in 🔒 (Security Settings) to temporarily increase the parental control level.

➡ Some BDs are preset with parental control restrictions. Enter the password that was set in 🔒 (Security Settings) to change the parental control level.

➡ The BD may be disc-locked. Enter the password that was set when the disc was created.

➡ See also the notices under "Playable discs" (••▶page 21).

Certain BDs cannot be played.

➡ To play commercially available BD video software, in some cases the encryption key for AACS (Advanced Access Control System) may need to be renewed. The encryption key can be renewed when the system software is updated.

The size of the video image and the TV screen do not match.

➡ Check that the system's settings under 🧰 (Settings) ➡ 🖥 (Display Settings) ➡ "Video Output Settings" are correct.

➡ Check that the settings of the connected TV are correct. For details, refer to the instructions supplied with your TV.

➡ With some video content, the screen size cannot be changed.

The screen colour does not seem right.

➡ If set to the default setting, the background colour changes automatically with the passing of time.

Audio

There is no sound.

➡ Check that the muting function on the TV or speakers is turned off. Also check that the volume is at the appropriate level.

➡ If an audio device is connected, check the settings of the device. For details, refer to the instructions supplied with the audio device.

➡ There may be a problem with the AV cable. Try using another cable that is compatible with the PS3™ system.

➡ Some software do not support digital audio output.

➡ If the system's audio output settings do not match the cable or device in use, the system may not produce sound. Check that the system's settings under 🧰 (Settings) ➝ 🔊 (Sound Settings) ➝ "Audio Output Settings" are correct.

➡ Some content that support Dolby Digital, DTS, and other formats may not produce audio from all channels.

Music files do not play.

➡ Tracks with a time limit or a limited number of playing times cannot be played.

➡ Playback methods may be limited for some music files that are distributed via the Internet. In such cases, it may not be possible to play the data on the PS3™ system.

Video

Even after selecting an item from the control panel, the desired operation cannot be performed.

➡ Playback conditions may be set in advance by the software developer. In such cases, certain options may not be available, even if you follow the instructions in the product documentation.

Network

A connection to the network cannot be established.

➡ Check that the Ethernet cable is securely connected.

➡ Check that the network settings are correct. Refer to the instructions supplied by your Internet service provider or in the software manual to make the correct network settings.

The Web page does not display properly.

➡ Some Web pages may not display properly due to the browser.

Disc Media and USB Devices

The system does not recognise the disc.

➡ Remove the disc and reinsert it.

➡ If the disc has a label, insert it with the label side up.

➡ Check whether the disc is scratched or dirty. If dirty, wipe it gently with a soft cloth.

➡ See also the notices under "Playable discs" (•▶ page 21).

The disc cannot be removed.

➡ Touch the eject button on the system front for 10 seconds or longer to force the disc to eject. After removing and before reinserting a disc into the system, turn off the system, and then turn on the system again to resume use.

The system does not recognise the USB device, or the USB device does not operate properly.

➡ Check that the device is inserted correctly.

➡ Check whether the device's connector is dirty. If dirty, wipe it with a cotton swab.

➡ The connected device may not be compatible with the system.

➡ Try using a different USB connector. The device may not be recognised depending on the combination of USB connectors in use.

➡ In some cases, the system may not recognise the device if an external USB hub is used and more than the allotted number of devices are connected. Try removing unused devices.

When connecting a USB device, the message "An unknown USB device has been connected." is displayed.

➡ The connected device may not be compatible with the system or software application.

➡ The device may be compatible with specific software only. Use software that is compatible with the device.

➡ There may be too many USB hubs connected. Try removing a USB hub.

Wireless Controller

The Wireless Controller does not function.

➡ When using the controller wirelessly, if the controller and the system are too far apart, you will not be able to operate the system effectively.

➡ When using the Wireless Controller, you must pair it with the system and assign a controller number. With the system turned on (power indicator on the system front is lit solid green), connect the system and the controller using the USB cable, and then press the PS button on the controller.

➡ The controller number may have been cleared. Press the PS button on the controller to reassign the number.

➡ Check the charge level of the Wireless Controller battery. When the controller is used in wireless mode, it will not function if the battery does not have any charge left. Charge the battery by connecting the controller to the system with the USB cable.

➡ Reset the Wireless Controller by pushing the reset button on the controller rear with a sharp-tipped object such as a pen.

Reset button
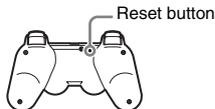
The wireless controller does not vibrate.

➡ Select 🧰 (Settings) ➡ 🎮 (Accessory Settings) ➡ "Controller Vibration Function", and then try setting "Vibration Function" to "On".

➡ The software may not support the vibration function. Refer to the instruction manual for the software. For software downloaded from 🏪 (PLAYSTATION®Store), refer to the compatibility notice information included in the software's online description.

The response to button operations is slow.

➡ The response speed may be slow on an LCD display or PC display. This is not a malfunction.

The battery does not charge or does not fully recharge.

➡ The battery can only be charged when the system is turned on (power indicator on the system front is lit solid green).

➡ Check whether the connector on the USB cable is dirty. If dirty, wipe it with a soft cloth.

➡ See "Wireless Controller battery" ().

The battery charge does not last long.

➡ The battery may be wearing out. Battery duration will gradually decrease with repeated usage and age. See "Wireless Controller battery" ().

Even when the Wireless Controller is not being used, it loses its charge over time.

➡ The controller's battery slowly loses its charge even when the Controller is not in use. It is recommended that you charge the controller frequently.

Other issues

The system makes noise.

➡ Because some discs read at higher speeds, disc noise may be louder than normal.

➡ When using the system in a location where heat can build up, such as an enclosed AV cabinet, the internal fan will rotate rapidly to reduce the system's temperature and this may generate increased noise. Move the system to a location with good ventilation.

You forgot your password for security settings.

➡ If you initialise the system using 🧰 (Settings) ➡ 🔧 (System Settings) ➡ "Restore Default Settings", your password will return to "0000". However, note that all settings other than the password will also be reset. Once these settings are reset, they cannot be recovered.

The system is warm.

➡ When the system is being used or is turned on, it may become warm. This is not a malfunction.

The screen is frozen. The system does not operate.

➡ Restart the system. Touching the power button on the system front for 10 seconds or longer will force the system to shut down. After shutdown, turn on the system again.

The power indicator on the system front is flashing red and green alternately.

➡ The interior of the system has become hot. Check whether the system is being used in a hot location or whether the vents are blocked. Continuing to use the system in the above condition will cause it to stop functioning. Turn the system off and leave it unused until it cools down. After the system cools down, turn it on again.

The power indicator on the system front is flashing red and the system does not operate.

➡ The temperature inside the system may be too high. Check whether the system is being used in a hot location or whether the vents are blocked. Touch the power button on the system front to stop the flashing, and then leave the system turned off until it cools down. After it cools down, turn on the system again.

The system does not recognise content.

➡ The content may be of a format that is not supported by the system. Content of types not supported by the system will not be recognised. For information on supported formats, refer to the online user's guide.

GUARANTEE

GUARANTEE

Thank you for buying this Product. We hope that you enjoy using it.

The term "Product" means the PLAYSTATION®3 computer entertainment system ("the PS3™ system") and any official PLAYSTATION®3 peripherals supplied in the box with the PS3™ system. The system software pre-installed in the PS3™ system or subsequently provided via updates or upgrade releases is licensed to you, not sold, and is for use only as part of the PS3™ system. The terms of such system software licence are at http//www.scei.co.jp/ps3-eula.

This Guarantee does not cover your data, any separate software or PlayStation® games whether or not packaged or included with the Product, or any PlayStation® accessories or peripheral devices that are not manufactured by or for SCEE.

This Guarantee is given to you, the first user of the Product. It is personal to you and cannot be used by anyone else.

Sony Computer Entertainment Europe Ltd ("SCEE") guarantees that this Product is free from defects in materials and workmanship that result in Product failure during normal usage in accordance with the terms set out in below and will, for a period of 1 (one) year from the date of original purchase, repair or (at SCEE's option) replace any component part of this Product, free of charge, where it is faulty due to defective materials or workmanship. Replacement will be with a new or refurbished component or unit, at SCEE's option, which is guaranteed for the remainder of the original Guarantee Period.

This Guarantee is in addition to your statutory consumer rights (under applicable law) and does not affect them in any way.

This Guarantee is given to you as first user by Sony Computer Entertainment Europe Ltd of 10 Great Marlborough Street, London, W1F 7LP, United Kingdom.

IMPORTANT

1. If you need to claim under this Guarantee, please call your local Customer Service helpline (listed in the PLAYSTATION®3 software manuals) for return instructions.
2. This Guarantee is only valid:
   i. in Austria, Belgium, France, Germany, Italy, Luxembourg, the Netherlands, Portugal, Spain and Switzerland; and
   ii. when the original sales receipt or invoice or other proof of purchase (indicating the date of purchase and retailer's name) is presented together with the defective Product within the Guarantee period (and has not been altered or defaced since the date of original purchase); and
   iii. when the Guarantee seal and the serial number on the Product have not been damaged, altered, defaced or removed.
3. SCEE may elect at its option to repair or replace the Product with a new or refurbished component or unit.
4. Repair or replacement will involve installation of the latest software or firmware updates for the Product.
5. When arranging for warranty service under this Guarantee, our Customer Service helpline will discuss with you whether you should leave the hard disk drive ("HDD") included in the PS3™ system on purchase inside the PS3™ system, or remove and retain the HDD prior to the return of the system for warranty service.
6. If the PS3™ system is returned with the HDD for warranty service, repair or replacement of the Product will involve reformatting of the HDD. This is the quickest form of warranty service we can offer.
7. If the PS3™ system is returned without the HDD for warranty service, we will where possible ensure the repaired or replaced unit has the same unique internal identification as the returned PS3™ system. Please note this form of warranty service will take longer than the service described in the previous paragraph. If for any reason we are unable to rewrite the original system ID and you wish to receive warranty service, you will need to reformat your HDD before you are able to use it with your repaired or replaced PS3™ system.
8. You understand and agree that reformatting of the HDD will result in loss of your stored data, files or software. To avoid loss or erasure of any software, data or files you may have stored on the hard disk and which you consider private or confidential or which you wish to retain, before submitting the Product for guarantee service you should where possible back these up and remove them. Clearing your PLAYSTATION®Network password is helpful to protect your information.
9. You understand that this Guarantee does not cover stored data and you agree that SCEE is not liable to you for any loss or corruption of your data, files or software resulting from repair or replacement of the Product under this Guarantee.

10. You should back up your hard disk regularly to prevent loss or alteration of data, although some content cannot be backed up and must be reinstalled by the user.

11. To avoid damage to or loss or erasure of removable external data storage media or peripherals or non-PS3™ components, you must remove these before submitting the Product for guarantee service.

12. You may not claim under this Guarantee when the Product is damaged as a result of:

    i. commercial use, accident, fair wear and tear, negligence, abuse, or misuse (including, without limitation, failure to use this Product for its normal purpose and/or in accordance with instructions on proper use and maintenance, or installation or use in a manner inconsistent with applicable local technical or safety standards);

    ii. use in conjunction with any unauthorised peripheral (including, without limitation, game enhancement devices, hard disk drives, adaptors and power supply devices);

    iii. any adaptation or adjustment to, or alteration of, the Product carried out for any reason, and whether properly carried out or not;

    iv. maintenance or repair or attempted repair carried out other than by a SCEE authorised service facility;

    v. use in conjunction with unauthorised software, virus infection, or fire, flood or other natural calamity; or

    vi. operation or treatment of the Product inconsistent with normal personal or domestic use or operation outside the Product specifications.

13. You may not claim under this Guarantee where you are in material breach of your system software licence (see http//www.scei.co.jp/ps3-eula).

14. To the extent permitted by applicable law, this Guarantee will be your sole and exclusive remedy in relation to defects in this Product and all other guarantees, warranties, terms and conditions, express or implied by statue or otherwise, in respect of this Product are excluded and neither SCEE nor any its affiliates or suppliers, will be liable for any special, incidental, indirect or consequential loss or damage including loss of data, howsoever arising.

15. SCEE does not warrant or guarantee any third party product or service which may be offered in connection with the Product.

If this Product needs any repair which is not covered by this Guarantee, please call your local Customer Service helpline for advice. If your home country is not one of those listed, please contact your retailer.

Removing / replacing the hard disk

The following section explains how to remove and replace the hard disk.

> ⚠ **Caution**
> - Remove the hard disk in a location out of the reach of small children to help prevent accidental swallowing of small parts such as the screws.
> - The inside of the system is hot directly after use. Allow time for the system to cool down before starting to remove the hard disk.
> - Be careful not to injure yourself when removing or handling the hard disk.
> - Be sure to reattach the HDD bay cover before turning the PS3™ system on. If the cover is not attached, it may cause heat to build up inside the system.

Notices

- Depending on the type of service performed, the hard disk that had been in use prior to servicing may need to be reformatted. Be sure to back up important data in advance.
- To help protect your personal information and prevent misuse of this information by others, be sure to clear passwords for all PLAYSTATION®Network accounts and remove the hard disk before submitting the PS3™ system for service.
- To attach or remove screws, use an appropriate crosshead screwdriver. If the size does not match, the groove on the screw's head may be damaged.

Removing the hard disk

> ⚠ **Caution**
> For safety reasons, be sure to turn off and unplug the system before attempting to remove the hard disk.

1 **Select ⏻ (Turn Off System) under 🏠 (Users) in the home menu.**

The power indicator will turn solid red and the system will enter standby mode.

2 **Turn off the system using the main power switch on the system rear.**

3 **Unplug the AC power cord, and then disconnect the other cables from the system.**

For safety reasons, remove the plug for the power cord from the electrical outlet, and then detach the other cables.

**4** **Remove the HDD bay cover on the system's left side.**

Use the space at the left edge of the HDD bay cover to pull it out from the system.

If the cover is difficult to remove, gently insert a small screwdriver in the space and pry the cover off. Be careful not to damage the system or the cover when using a screwdriver.

HDD bay cover
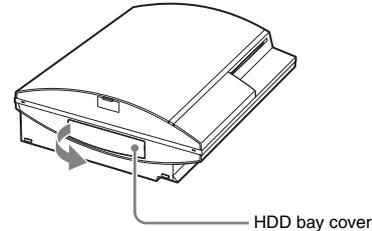
5 Free the hard disk from the system.

① Remove the blue screw with the correct sized crosshead screwdriver.
② Pull the handle forward.
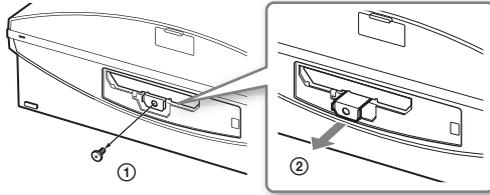
Pull while sliding the handle to the left. Be careful not to hurt yourself during this operation.

6 Remove the hard disk from the system.

Pull the handle further to remove the hard disk from the system.
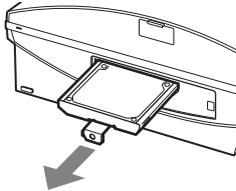
Notices

The hard disk is a sensitive piece of equipment and should be handled with care at all times. To help prevent software or data loss or corruption, or damage to the hard disk, carefully follow the precautions listed below:

- Do not drop the system or hard disk, or subject them to physical shock or vibration.
- Do not allow liquid or small particles to get into the system or hard disk.
- Do not touch the connectors or insert foreign objects into the connectors.
- Do not place the system or hard disk close to magnetic fields such as those produced by magnets or loudspeakers. Also, do not place devices that may be sensitive to magnetic forces (such as a wrist watch or a magnetic card) near the hard disk.
- Do not put heavy objects on the hard disk.
- When handling the hard disk hold it only by the edges or metal frame.
- The hard disk is sensitive to static electricity. Ensure that proper handling methods are used when installing the hard disk.
- Store in a cool, dry location.

Replacing the hard disk

⚠ **Caution**
For safety reasons, be sure to turn off and unplug the system before attempting to replace the hard disk.

When replacing the hard disk, follow the procedure below to remove the metal frame.

1 Using a crosshead screwdriver, remove the screws (4 places).
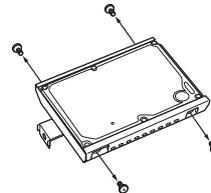
2 Remove the hard disk from the metal frame.
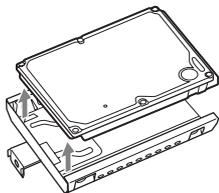
3 Place the replacement hard disk on the PS3™ system hard disk's metal frame, and then attach using the screws (4 places).

Do not overtighten the screws.

4 Install the hard disk in the system.

Fully insert the hard disk in the HDD bay. Attach the blue screw to lock the hard disk in place. Refer to the instructions in "Removing the hard disk" (••▶page 15) and follow them in reverse order when installing.

5 Reattach the HDD bay cover.

6 Reinstall the system software.

When the hard disk has been replaced, the system software must be reinstalled (••▶page 17).

Replacement hard disks

You can use hard disks of the following types with the PS3™ system:

| Size	2.5 inch (internal type)*1
Interface format	Serial ATA*2

*1 Proper operation is not guaranteed for all models.
*2 Parallel ATA is not supported.

Hint

If you lose the HDD bay cover, screws, or metal attachment, for availability of replacement parts contact your local Customer Service helpline (listed in PLAYSTATION®3 software manuals).

Reinstalling the system software

If the system software does not start when the system is turned on (such as when the hard disk has been replaced), a screen such as the one shown below is displayed on the system. In this case, you must reinstall the system software using downloaded update data.

The system software cannot be run correctly. Press the PS button to try to restart the system.

If the system cannot be restarted, the system partition of the hard disk must be reformatted and you must reinstall the system software.
Insert storage media that contains update data of version X.XX or later, and then press the START and SELECT buttons at the same time.
For information on how to obtain update data, refer to the SCE Web...

If the system cannot be restarted, the system partition of the hard disk must be reformatted and you must reinstall the system software.
Insert storage media that contains update data of version X.XX or later, and then press the START and SELECT buttons at the same time.

Step 1: Download the system software update data

Using a PC with Internet access, download the system software update data from the Web site shown below.

http://eu.playstation.com/ps3

Hints

- Use the latest version of the update data. You cannot reinstall the system software using a version that is older than the system software version that had previously been used. If the relevant update data is not available on the Web page, contact your local Customer Service helpline (listed in PLAYSTATION®3 software manuals).
- If you have a game disc or other disc that contains update data, you may be able to use that disc to reinstall the system software. If you insert the disc in the PS3™ system and follow the on-screen instructions, you can verify whether the update data can be used.
- If you do not have Internet access from a PC, contact your local Customer Service helpline (listed in PLAYSTATION®3 software manuals).

Step 2: Save the update data on storage media

Save the downloaded update data on any of the following types of storage media.

■ Disc media such as a CD-R

CD-R, CD-RW, DVD-R, DVD-RW, DVD+RW and BD-RE are supported.

■ USB mass storage device

Storage media such as a USB flash drive are supported.

■ Memory Stick Duo™ and other card-type storage media

If using this type of media, a commercially available card reader/writer (USB connector type) is required.

The amount of free space that is required varies depending on the version of the update data. In general, the storage media must have at least 150 MB or more of free space.

Save the update data according to the instructions below. Using a PC, create a folder named "PS3" on the storage media. Within the "PS3" folder, create a folder named "UPDATE". Save the update data in the "UPDATE" folder.

Storage media   PS3   UPDATE
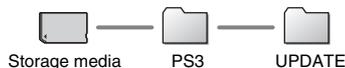
Notice

Be sure to save the update data as noted below. If the data is not saved in the correct way, the PS3™ system will not recognize the update data. The folder name must be in all uppercase letters.
Location: Save in the "PS3" folder > "UPDATE" folder
File name: Save as file name "PS3UPDAT.PUP"

Step 3: Install the system software

Notices

• Do not turn off the system or remove the storage media during the installation. If the installation is cancelled before completion, the system software may become damaged, and the system may require servicing or exchange.
• During the installation, the power button on the system front and the PS button on the Wireless Controller are not active.

Turn on the PS3™ system, and then insert the storage media. Follow the on-screen instructions to reinstall the system software.

Caution on disposal of the PS3™ system

Before disposing of the system, it is essential that personal information and other data of similar nature be deleted. To delete data, go to ▤ (Settings) ➡ ⚙ (System Settings) ➡ "Restore PS3™ System".
It is recommended that you select "Full Format" when the screen for selecting hard disk format method is displayed during system restoration. Although formatting time can be reduced by using "Quick Format", it might be possible to restore erased data in some cases if a special tool is used.

Where you see either symbol on any of our electrical products, batteries or packaging, it indicates that the relevant electrical product or battery should not be disposed of as general household waste in Europe. To ensure the correct waste treatment of the product and battery, please dispose of them in accordance with any applicable local laws or requirements for disposal of electrical equipment/batteries. In so doing, you will help to conserve natural resources and improve standards of environmental protection in treatment and disposal of electrical waste.

This product contains a battery which is permanently built-in for safety, performance or data integrity reasons. The battery should not need to be replaced during the lifetime of the product and should only be removed by skilled service personnel. To ensure the correct waste treatment of the battery, please dispose of this product as electrical waste.

Wireless Controller battery

⚠ **Caution**
If you come into contact with material from a leaking battery, take the following actions:
• If the material gets into the eyes, do not rub. Immediately flush the eyes with clean water and seek medical attention.
• If the material comes into contact with the skin or clothes, immediately rinse the affected area with clean water. Consult your physician if inflammation or soreness develops.
Do not allow the battery to come into contact with fire or subject it to extreme temperatures such as in direct sunlight, in a vehicle exposed to the sun or near a heat source.

Wireless Controller battery life
• The battery has a limited lifespan. Battery duration will gradually decrease with repeated usage and age.
• Battery life also varies depending on the storage method, usage state, environment and other factors.

Storage
When the Wireless Controller is not used for an extended period of time, it is recommended that you fully charge it at least once a year in order to maintain battery functionality.

Additional information

Specifications

Design and specifications are subject to change without notice.

PLAYSTATION®3 system

CPU		Cell Broadband Engine™
GPU		RSX™
Audio output		Dolby Digital Plus, Dolby Digital 5.1 ch, DTS 5.1 ch, LPCM 7.1 ch, AAC, others*1
Memory		256 MB XDR Main RAM, 256 MB GDDR3 VRAM
Hard disk	2.5" Serial ATA	80 GB*2
Inputs/outputs*3	Hi-Speed USB (USB 2.0)	2
Networking		Ethernet (10BASE-T, 100BASE-TX, 1000BASE-T) × 1
		IEEE 802.11 b/g
		Bluetooth 2.0 (EDR)
Controller		Wireless Controller (Bluetooth)
AV output	Resolution	1080p, 1080i, 720p, 576p, 576i
	HDMI OUT connector*4	1
	AV MULTI OUT connector	1
	Digital out (optical) connector	1
BD/DVD/ CD drive (read only)	Maximum read rate	BD × 2 (BD-ROM) DVD × 8 (DVD-ROM) CD × 24 (CD-ROM)

Power	AC 220 - 240 V, 50 / 60 Hz
Power consumption	Approx. 280 W
External dimensions (excluding maximum projecting part)	Approx. 325 × 98 × 274 mm (width × height × length)
Mass	Approx. 4.3 kg
Operating temperature	5°C - 35°C

*1 A device compatible with Linear PCM 7.1 Ch. is required to output 7.1 Ch. audio, supported by Dolby TrueHD or a similar format, from the HDMI OUT connector.
*2 Hard disk capacity calculated using base 10 mathematics (1 GB = 1,000,000,000 bytes). System software versions 1.10 and later calculate capacity using binary mathematics (1 GB = 1,073,741,824 bytes), which will display lower capacity and free space. A portion of hard disk capacity is reserved for system administration, which varies depending upon system software version, and is not available for use.
*3 Usability of all connected devices is not guaranteed.
*4 "Deep Colour" and "x.v.Colour (xvYCC)" defined by HDMI ver 1.3a are supported.

DUALSHOCK®3 Wireless Controller

Battery type	Built-in rechargeable Lithium-Ion battery
Voltage	DC 3.7 V
Battery capacity	610 mAh
Mass	Approx. 193 g

Playable discs

Blu-ray Disc (BD)	PLAYSTATION®3 format BD-ROM
	BD-ROM
	BD-R
	BD-RE[*1]
DVD	DVD-ROM
	DVD+R/RW
	DVD-R/RW
	AVCHD
	DSD Disc
CD	PlayStation® format CD-ROM[*2][*3]
	CD-DA (audio CD)[*4]
	CD-R/RW

*1 Playback of BD-RE ver. 1.0 discs is not supported.
*2 PlayStation®2 format software titles do not perform on this system.
*3 This product has limited backward compatibility with PlayStation® format software. Many PlayStation® format software titles operate, but full compatibility is not guaranteed.
*4 Playback of Super Audio CDs is not supported.

Notices

- Use only circular-shaped discs with the system. Do not use irregularly-shaped discs (for example, heart- or star-shaped discs). Using irregularly-shaped discs may cause a malfunction.
- Do not use damaged, re-shaped or repaired discs. Use of such discs may cause a malfunction.
- When using an 8 cm disc, insert the disc in the system without an adaptor.

- The audio CD playback feature of this system is designed to conform to the Compact Disc (CD) standard. Recently, some record companies have started marketing music discs encoded with copyright protection technologies. Some of these music discs do not conform to the CD standard and may not be playable on this system.
- A DualDisc is a dual-sided disc that combines a DVD side and an audio side. Note that the audio side is not guaranteed to play because this type of disc does not conform to the specifications required for an audio Compact Disc (CD).
- If a device that is not compatible with the HDCP (High-bandwidth Digital Content Protection) standard is connected to the system using an HDMI cable, video or audio cannot be output from the system.
- When you use the AV MULTI OUT connector of the system to connect to a TV, copyright-protected video from a BD or from video files may be output at resolutions lower than 1080p. Also, these types of video will be output at resolutions of 576p or lower if recorded at 1080i (50 Hz) or 720p (50 Hz).
- When playing discs with content that was copied fraudulently, abnormal sounds may be produced or the content may not play correctly.
- To continuously enjoy playback of copyright-protected BDs, in some cases the encryption key for AACS (Advanced Access Control System) may need to be renewed. To renew the encryption key, the system must be updated.
- Some discs may not be playable due to scratches, dust, the quality of recording, or the characteristics of the recording device.
- In rare instances, CDs, DVDs, BDs and other media may not operate properly when played on the PS3™ system. This is primarily due to variations in the manufacturing process or encoding of the software.

Region codes

Depending on the disc, a region code that is based on the geographic region where the disc is distributed may be assigned. This system can play discs marked with the following region codes.

Disc	Region code
Blu-ray Disc (BD)	(B)
DVD	2 ALL
PLAYSTATION®3 format BD-ROM	2 ALL
PlayStation® format CD-ROM	PAL

DVD and PLAYSTATION®3 format software

- When outputting DVD content or PLAYSTATION®3 format software in SD resolution, only discs recorded in the PAL standard will definitely be playable. You may not be able to play discs recorded for other standards (such as NTSC) on this system (unless an NTSC compatible TV is used).
- When playing PLAYSTATION®3 format software in HD resolution, a TV that supports video playback at 59.94 Hz is required.

DVD-R/DVD-RW/DVD+R/DVD+RW discs

Discs that have not been finalised cannot be played.

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@(#)fdlibm.h 1.5 95/01/18

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