

ZOTAC[®] ZBOX

Blu-ray



ZOTAC ZBOX-AD05BR
ZOTAC ZBOX-AD05BR-PLUS

USER'S MANUAL

ZOTAC ZBOX Blu-ray User's Manual



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Every effort has been made to ensure that the contents of this manual are correct and up to date. However, the manufacturer makes no guarantee regarding the accuracy of its contents, and reserves the right to make changes without prior notice.

CAUTION:

Risk of explosion if the battery is replaced with an incorrect type. Batteries should be recycled where possible. Disposal of used batteries must be in accordance with local environmental regulations.

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Product specifications

Chipset

- AMD M1

Product Dimensions

- 280mm x 187mm x 38mm (11.02in x 7.36in x 1.5in)

Onboard CPU

- AMD E-450 (Dual-core, 1.65 GHz)

Onboard graphics

- AMD RADEON HD 6320 Graphics, DirectX11
- Single-link DVI-I & HDMI output (VGA compatible with adapter)
- Dual display ready
- Support up to 1920x1200 resolution (when using the DVI-to-VGA adapter, the VGA output can support up to 2560x1600 resolution)
- Support AMD UVD3.0

Memory support

- Two 204-pin SO-DIMMs DDR3-1333
- Up to 8 GB of memory

USB ports

- One USB 2.0 & one combo eSATA / USB 2.0 port (wake-on-USB supported)
- Two USB 3.0 ports

Storage support

- SATA 3.0 Gb/s transfer rates
- Supports one 2.5-inch SATA HDD or SSD (height limit: 9.5 mm)
- One combo eSATA / USB 2.0 port

Network support

- Gigabit (10/100/1000Mbps) LAN
- IEEE 802.3 compatible

WiFi

- 802.11b/g/n compatible
- Enhanced wireless security compatible

Audio

- 2-channel high-definition audio
- Jack-sensing compatible

Operating System support

- Microsoft Windows XP, Windows Vista and Windows 7
- 32-bit and 64-bit support

Green Function

- ACPI (Advanced Configuration and Power Interface) compatible


Bluray Combo Driver Support

- BD read compliant, max speed: 4X
- DVD read and write compliant, max speed: 8X
- CD read and write compliant, max speed: 24X
- Supports 8cm & 12cm diameter
- Supports SMART-X (Smart Monitoring & Adjusting Read-speed Technology for eXtraction) and Seamless Link® (Smart Monitoring & Adapting Recording Technology for Burning) function

Safety information

Your ZOTAC ZBOX is designed and tested to meet the latest standards of safety for information technology equipment. However, to ensure your safety, it is important that you read the following safety instructions.

Setting up your system

- ❖ Read and follow all instructions in the documentation before you operate your system.
 - ❖ Do not use this product near water or a heat source such as a radiator.
 - ❖ Set up the system on a stable surface with the provided stand. Never use the system alone without the stand.
 - ❖ Openings on the chassis are for ventilation. Do not block or cover these openings. Make sure you leave plenty of space around the system for ventilation. Never insert objects of any kind into the ventilation openings.
 - ❖ Use this product in environments with ambient temperatures between 0°C and 35°C.
-  If you use an extension cord, please use the UL listed cord and make sure that the total ampere rating of the devices plugged into the extension cord does not exceed its ampere rating.

Care during use

- ❖ Do not walk on the power cord or allow anything to rest on it.
- ❖ Do not spill water or any other liquids on your system.
- ❖ When the system is turned off, a small amount of electrical current still flows. Always unplug all power, modem, and network cables from the power outlets before cleaning the system.
- ❖ If you encounter the following technical problems with the product, unplug the power cord and contact a qualified service technician or your retailer.
 - The power cord or plug is damaged.
 - Liquid has been spilled into the system.
 - The system does not function properly even if you follow the operating instructions.
 - The system was dropped or the cabinet is damaged.
 - The system performance changes.

Welcome

Congratulations on your purchase of the ZOTAC ZBOX Blu-ray mini-PC. The following illustration displays the package contents of your new ZOTAC ZBOX Blu-ray. Please contact your retailer if any of the below items are damaged or missed.

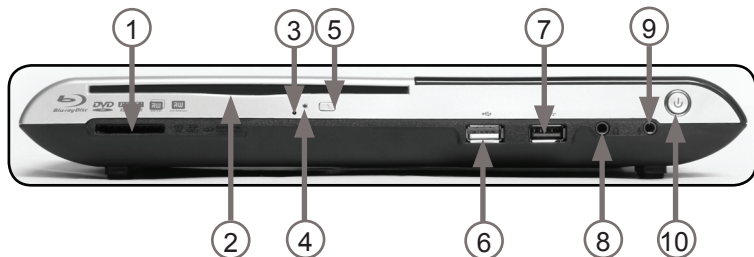
Package contents

- 1 x ZOTAC ZBOX Blu-ray mini-PC
- 1 x ZOTAC VESA mount
- 4 x Mount screws
- 1 x AC Adapter
- 1 x Power Cord
- 1 x Remote Control with 2 x CR2032 batteries
- 1 x USB Extended IR Receiver for Remote Control
- 1 x User Manual
- 1 x Quick Start Guide
- 1 x Support DVD
- 1 x DVI-to-VGA adapter



Getting to know your ZOTAC ZBOX Blu-ray

Front view



Refer to the diagram below to identify the components on this side of the system

1. 6-in-1 Memory card slot

The built-in memory card reader reads and writes MMC/SD/SDHC/MS/MS Pro/xD cards used in devices such as digital cameras, MP3 players, mobile phones and PDAs.

2. Optical drive

The optical drive is a slot-in type drive which supports compact discs (CD), digital video discs (DVD) and Blu-ray discs (BD).

3. Blu-ray drive emergency eject

Users can use a pin to insert into the Blu-ray drive emergency eject pin-hole to manually eject disc.

4. Optical drive activity indicator

The optical drive activity indicator shows when data is being transferred by the optical disk drive.

5. Optical drive eject button

The optical drive eject button ejects the disc from the optical drive.

6. USB 2.0 port

The USB (Universal Serial Bus) port is compatible with USB devices such as keyboards, mice, cameras and hard disk drives.

7. USB 3.0 port

The USB 3.0 port supports the SuperSpeed USB 3.0 devices and is backwards compatible with USB 2.0/1.1 devices. Use this port for USB 3.0 devices for maximum performance with USB 3.0 compatible devices.

8. Headphone/Audio output jack

The stereo headphone jack (3.5mm) is used to connect the system's audio out signal to analog headphones or amplified speakers.

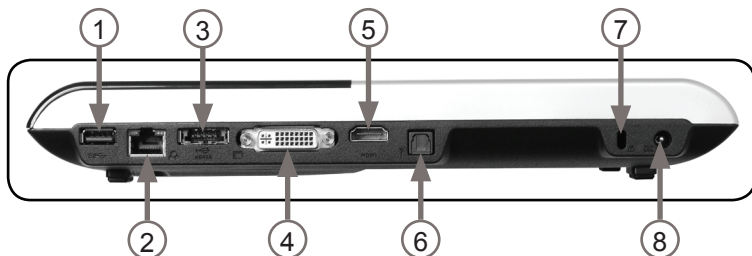
9. Microphone jack

The microphone jack is designed to connect a microphone for video conferencing, voice narrations or simple audio recordings.

10. Power switch

The power switch turns the mini-PC ON and OFF.

Rear view



Refer to the diagram below to identify the components on this side of the system.

1. USB 3.0 port

The USB 3.0 port supports the SuperSpeed USB 3.0 devices and is backwards compatible with USB 2.0/1.1 devices. Use this port for USB 3.0 devices for maximum performance with USB 3.0 compatible devices

2. Ethernet port

The eight-pin RJ-45 LAN port supports standard Ethernet cable for connection to a local area network (LAN) with speeds of 10/100/1000Mbps.

3. Combo eSATA 3.0 Gb/s / USB 2.0 port

The combo eSATA 3.0 Gb/s / USB 2.0 port is compatible with eSATA devices such as external hard drives, Blu-ray drives, and USB 2.0 devices.

4. Single-link DVI-I output

The single-link DVI-I output supports digital displays with resolutions up to 1920x1200 and connection to analog VGA monitors with the included adapter (up to 2560x1600).

5. HDMI output

The HDMI (High Definition Multimedia Interface) output supports Full HD 1080p displays such as an HDTV or monitor.

6. Optical SPDIF output

The optical SPDIF output enables connecting the ZOTAC ZBOX Blu-ray to digital audio receivers and speakers for crystal clear digital audio and surround sound from compatible soundtracks.

7. Safety lock

Connects to compatible Kensington Safety Locks.

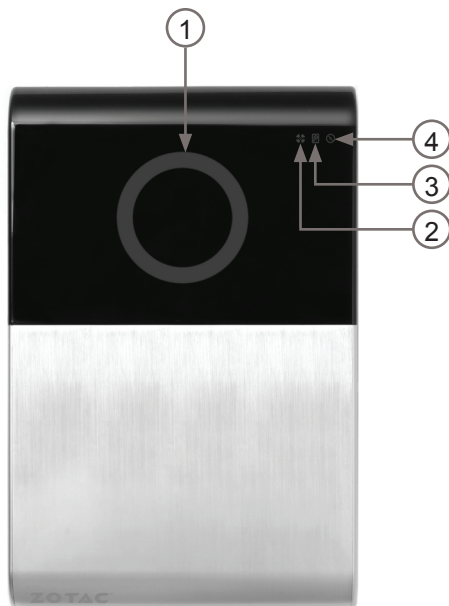
8. Power input (DC19V)

The supplied power adapter converts AC power to DC power for use with this jack. Power supplied through this jack supplies power to the mini-PC. To prevent damage to the mini-PC, always use the supplied power adapter.

Note 1: The power adapter may become warm to hot when in use. Do not cover the adapter and keep it away from your body.

Note 2: Due to the special design for easy upgrade, some connectors are placed upside down.

LED indicator



LED indicator illustration

1. Blue Ring ()

LED is on	System is on
LED is off	System is off
LED flashes slowly	System is in standby mode

Note: The blue ring LED can be disabled in BIOS setting. Refer to the next chapter for more details.

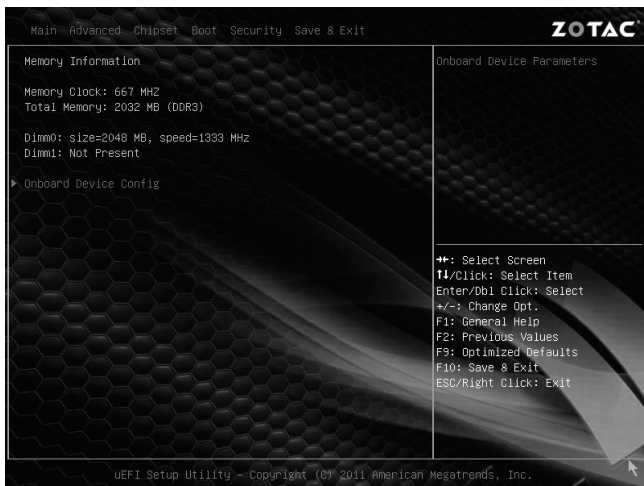
2. WiFi Status Indicator ()

3. HDD Status Indicator ()

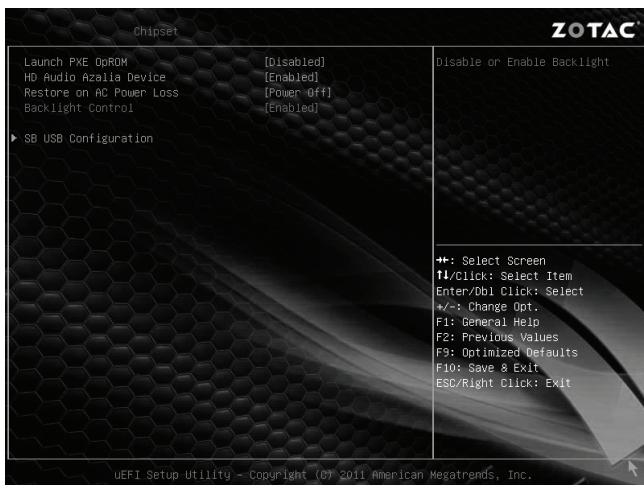
4. Power On/Off Indicator ()

How to disable the blue ring LED indicator

1. Turn on the ZBOX Blu-ray mini-PC, then press <Delete> to enter the BIOS SETUP UTILITY.
2. Use the arrow keys to navigate to the **Chipset** menu and select **Onboard Device Config**.



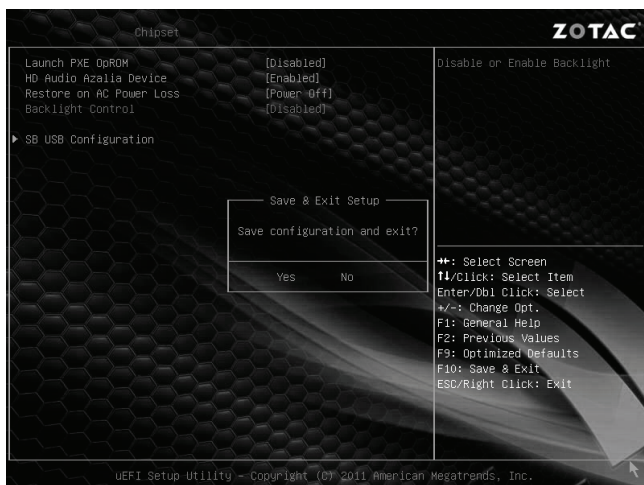
3. Press <Enter> to display the **Onboard Device Config** and navigate to **Backlight Control**.



4. Press <Enter> and select **Disabled**.



5. Press F10 to save the configuration and exit. The PC will reboot.



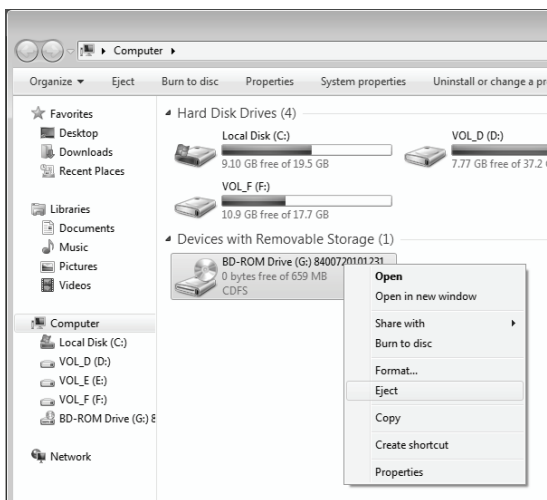
Blu-ray disc

The ZOTAC ZBOX Blu-ray features a Blu-ray combo drive that can read Blu-ray discs, and read/write DVDs and CDs.

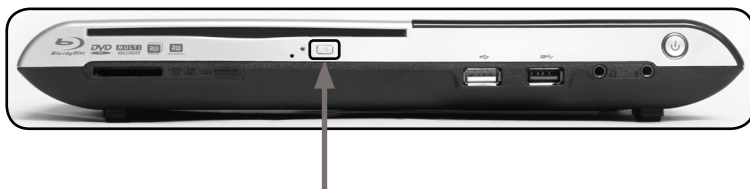
Ejecting a disc

There are two ways to get the disk to eject.

1. Right-click on the **Blu-ray Drive** in **My Computer** and left-click on **Eject**.



2. Press the eject button.



Eject Button

Setting the region code for Blu-ray movie playback

The region code does not need to be set manually. The Blu-ray drive will recognise the region code from the first Blu-ray movie inserted into the drive. The drive can change region codes up to 5 times. Once the region code has changed 5 times, it will lock to the last detected region.

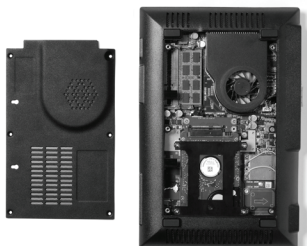
Customizing the ZOTAC ZBOX Blu-ray

Please follow the instructions below to remove the cover of the ZOTAC ZBOX Blu-ray before customizing.

1. Remove the 6 screws securing the bottom cover into place.

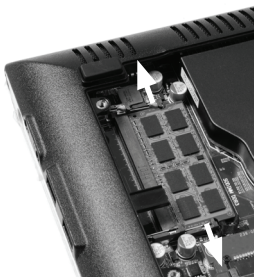


2. Gently remove the cover as shown on the image below.

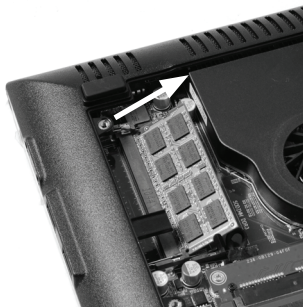


Removing a memory module

1. Locate the SO-DIMM memory slot and gently press the two arms securing the memory module outwards, as shown in the image below, to release the memory module.

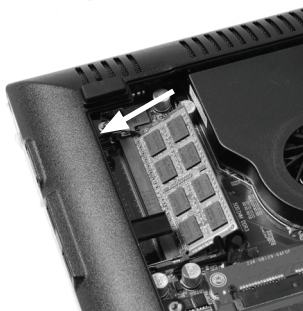


2. Remove the memory module from the slot at a 45-degree angle.



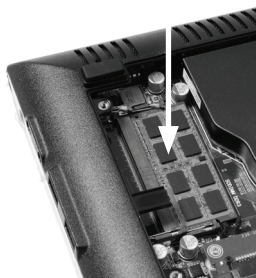
Installing a memory module

1. Locate the SO-DIMM memory slots and insert a SO-DIMM memory module into the slot at a 45 degree angle.



Note: When installing two SO-DIMM memory modules, please insert a module into the lower slot first.

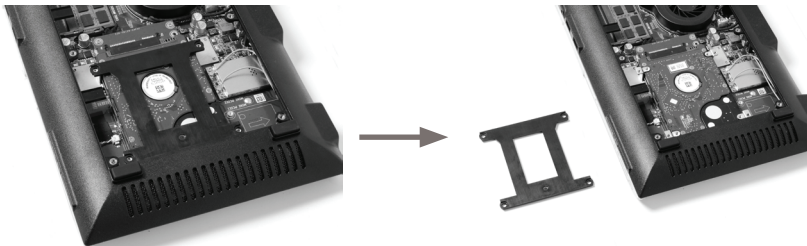
2. Gently press down on the memory module until it locks into place by the arms of the memory slot.



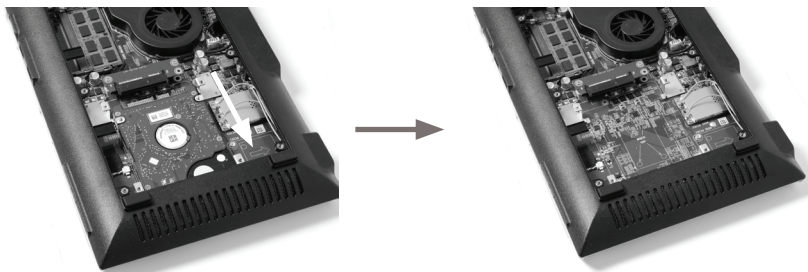
Note: This ZOTAC ZBOX Blu-ray accommodates two DDR3 SO-DIMM memory modules. You must install at least one module in one of the two slots.

Removing a hard disk

1. Locate the hard disk bracket, remove the 4 screws, and remove the cover as shown in the image below.

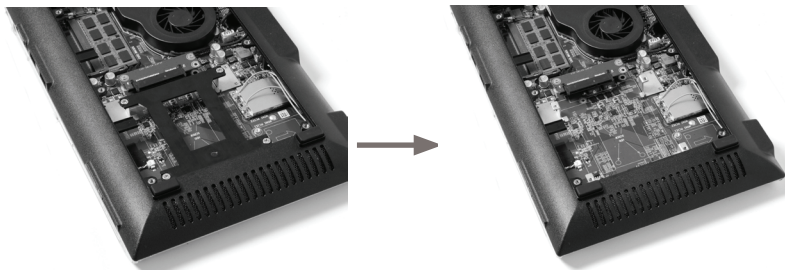


2. Gently slide the hard disk away from the connector and remove the hard disk.

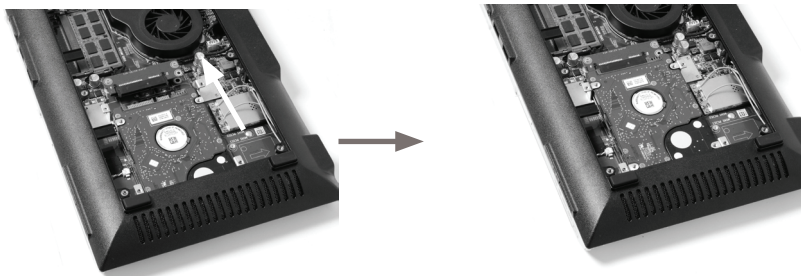


Installing a hard disk

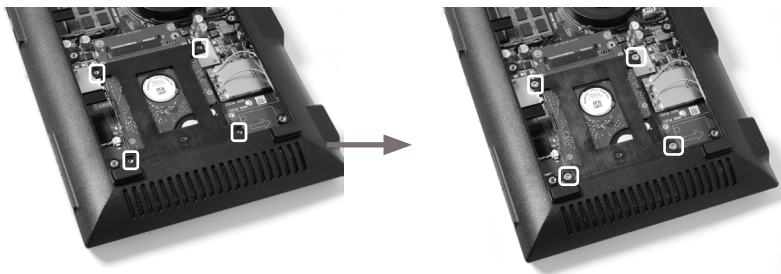
1. Locate the hard disk bracket, remove the 4 screws, and remove the hard disk cover as shown in the image below.



2. Insert a 2.5-inch SATA hard disk into the socket and gently slide into the connector.



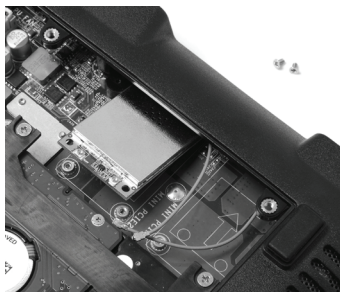
3. Reinstall the cover and screws.



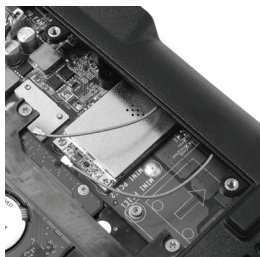
Note: Due to the 9.5mm-height limit of the hard disk, 12.5mm height drives are not supported by the ZOTAC ZBOX Blu-ray.

Installing a Mini-PCle card

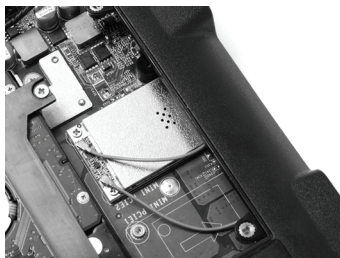
1. Locate the Mini-PCle slot and insert a Mini-PCle card into the slot at a 45 degree angle.



2. Gently press down on the Mini-PCle card with one finger and secure the screws.

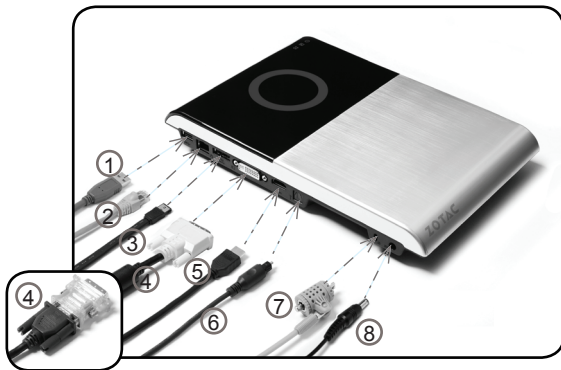


3. Connect the WiFi wires to the Mini-PCle card.



Setting up the ZOTAC ZBOX Blu-ray

Please connect the peripherals before using the ZOTAC ZBOX Blu-ray.



1. Connecting to USB 3.0 device

Connect USB 3.0 devices such as external hard drives, SSDs and flash drives to the USB 3.0 port on the system rear panel.

2. Connecting to a home network

Connect one end of a network cable to the LAN port on the system rear panel and the other end to a network hub, switch or router.

3. Connecting to an eSATA or USB device

Connect one end of an eSATA device or USB 2.0 device to the combo eSATA / USB 2.0 port.

4. Connecting to a DVI or VGA display

Connect one end of a DVI/VGA cable to an HDTV or monitor, and the other end to the DVI port on the system rear panel. If using a VGA connection, please use included DVI-to-VGA adapter.

5. Connecting to an HDMI display

Connect one end of an HDMI cable to the HDMI port on the system rear panel and the other end to a HDMI-compatible display such as an HDTV or monitor

6. Connecting to an optical SPDIF device

Connect the SPDIF output from the ZBOX Blu-ray to a SPDIF input device such as a home theater receiver or digital speakers for digital audio transfer.

7. Connecting to a Kensington safety lock

Connect Kensington Safety Lock to ZBOX Blu-ray and lock.

8. Turning on the system

Connect the supplied AC adapter to the DC IN jack on the system rear panel and then press the power switch on the front panel to turn on the system.

Note: When your ZOTAC ZBOX Blu-ray is not in use, unplug the power adapter or switch off the AC outlet to conserve power.

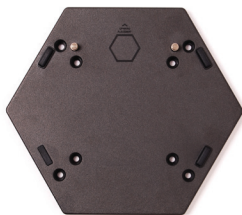
Positioning the ZOTAC ZBOX Blu-ray

- Do not cover or block the ventilation holes on ZOTAC ZBOX Blu-ray. To ensure proper operation and reliability, leave approximately 4 inches (10 cm) of spacing in front of the ventilation holes.
- ZOTAC ZBOX Blu-ray mini-PC systems provide ample expansion in a miniature form factor, please use connectors and cables that are appropriate in size to avoid interference.

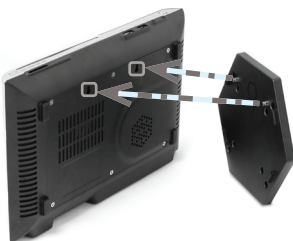
Mounting the ZOTAC ZBOX Blu-ray to a wall

The ZOTAC ZBOX Blu-ray is wall-mountable using the included VESA mount.

1. Secure the VESA mount to the wall using screws (not included).
Note 1: Always secure the VESA mount to a stud or solid wood surface or use anchors.
Note 2: Do not use the included screws for wall mounting.
Disclaimer: ZOTAC cannot be held liable for damages resulting from an improper installation.



2. Align the ZOTAC ZBOX mounting holes to the VESA mount attachment pegs. Attach the ZOTAC ZBOX to the VESA mount and gently press down to secure the ZBOX to the mount.



3. Connect the ZOTAC ZBOX Blu-ray to your monitor or TV with a HDMI/DVI-I/ VGA cable.



Note: The ZOTAC ZBOX Blu-ray mount is VESA75/100 compliant.

IR receiver

Enjoy more of your favorite entertainment by MCE (Media Center Edition) remote controller with USB IR receiver (connecting to USB 2.0 port).



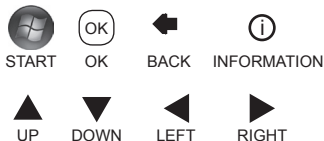
External USB IR receiver

Remote control

ZOTAC ZBOX Giga is shipped with a remote control. Follow the instructions below to use the remote control.

Function keys

Navigation Buttons



Shortcut Buttons



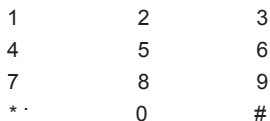
Audio and Video Buttons



Playback Buttons



Numeric Keypad



CLEAR

ENTER

Teletext Buttons




TELETEXT



Note: Some remote control functions listed above are only available with the relative hardware equipments. If the hardware equipments you adopt are not compatible with the system, you are unable to use these functions. This product is designed to meet MCE standards.

Lithium cell installation

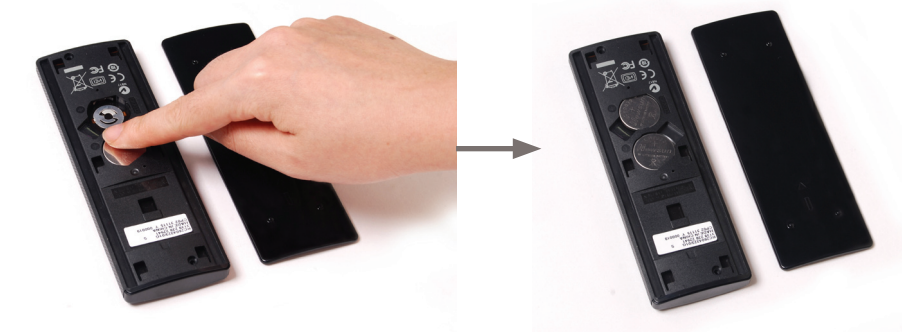
1. Locate the arrow  on the rear cover of the remote control, and push the cover as the arrow direction.



2. Remove the rear cover, and insert the CR2032 lithium cells into the battery jar at a 45 degree angle.



3. Gently press down on the CR2032 lithium cells, and reinstall the rear cover.



Installing drivers and software

Installing an operating system

The ZOTAC ZBOX Blu-ray does not ship with an operating system preinstalled. An operating system must be installed before the ZOTAC ZBOX Blu-ray can be used.

The following operating systems are supported:

- Windows XP
- Windows Vista
- Windows 7

Follow the instructions below to install an operating system:

1. Insert disk for operating system into the optical drive.
2. Wait for the ZOTAC ZBOX Blu-ray to boot from the disk.
3. Follow the onscreen directions to install the operating system.
4. Install system drivers to gain full functionality of the ZOTAC ZBOX Blu-ray hardware and features.

Installing system drivers

Before you can use the full features of the ZOTAC ZBOX Blu-ray, the system drivers must be installed. The following types of operating systems are supported by the ZOTAC ZBOX Blu-ray driver DVD:

- Windows XP
- Windows Vista
- Windows 7

Follow the instructions below to install the system drivers:

1. Insert the ZOTAC ZBOX Blu-ray driver DVD. If

autorun is enabled, the driver installation main menu will show up automatically.

Windows Vista may ask for further confirmation, please click “Allow” or “OK” to proceed.

Note: If autorun is disabled, you can click the file Launch.EXE to bring up the driver installation main menu.

2. The following drivers are available on the DVD:

- AMD Chipset driver
- Realtek HD Audio driver
- Realtek Network driver
- Renesas USB3.0 driver
- MassStorage driver



- Ralink Wireless driver

Note: Each driver must be installed individually to ensure proper operation of the ZOTAC ZBOX Blu-ray.

3. Select the driver you want to install. The driver installer should launch.
4. Follow the onscreen instructions for the selected driver to install.
5. Restart the system.

Using your ZOTAC ZBOX Blu-ray

Configuring wireless connection

Please follow the instructions below to connect to a wireless network:

1. Double-click the crossed wireless network icon (pic) in the notification area.
2. Select the wireless network you want to connect to from the list and click Connect.
3. After connection was established, you will see "Connected".

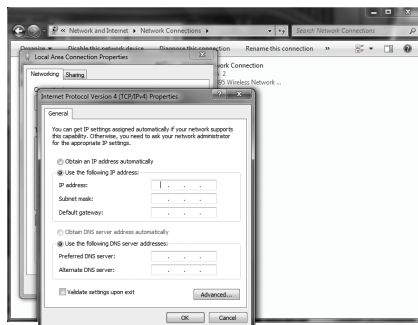
Note 1: For security concerns, Do NOT connect to an unsecured network, otherwise, the transmitted information without encryption might be visible to others.

Note 2: Enter the network security key if necessary.



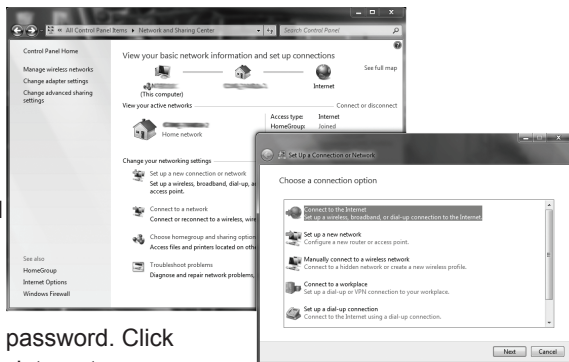
Configuring wired connection Using a static IP

1. Right-click the network icon in the notification area and select "Open Network Connections".
2. Right-click "Local Area Connection" and select "Properties".
3. Highlight "Internet Protocol (TCP/IP)" and click "Properties".
4. Select "Use the following IP address".
5. Enter your IP address, subnet mask and Default gateway.
6. Enter the preferred DNS server address if necessary.
7. After entering all of the related values, click "OK" to finish the configuration.



Using a dynamic IP (PPPoE connection)

1. Repeat Step 1-3 in the previous section.
2. Select "Obtain an IP address automatically" and click "OK".
3. Click "Create a new connection" to start the NEW Connection Wizard.
4. Click "Next".
5. Select "Connect to the Internet" and click "Next".
6. Select "Set up my connection manually".
7. Select your connection type and click "Next".
8. Enter your ISP Name and click "Next".
9. Enter your User name and Password. Click "Next".
10. Click "Finish" to finish the configuration.
11. Enter your user name and password. Click "Connect" to connect to the internet.

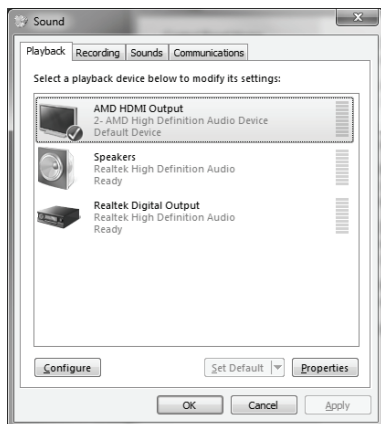


Note: Contact your internet Service Provider (ISP) if you have problems connecting to the network.

Configuring audio output via an HDMI device

Follow the steps below to enable audio output via HDMI when connecting the ZOTAC ZBOX Blu-ray to a TV or receiver via HDMI.

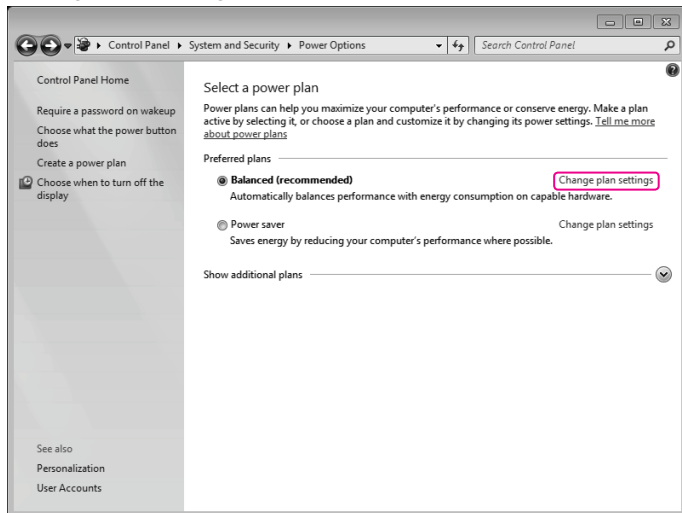
1. Access the Sound settings via the system Control Panel.
2. Under Playback devices, click "AMD HDMI Output".
3. Click the "Set as Default" in the lower right hand corner.
4. Click "OK" to exit the setup.



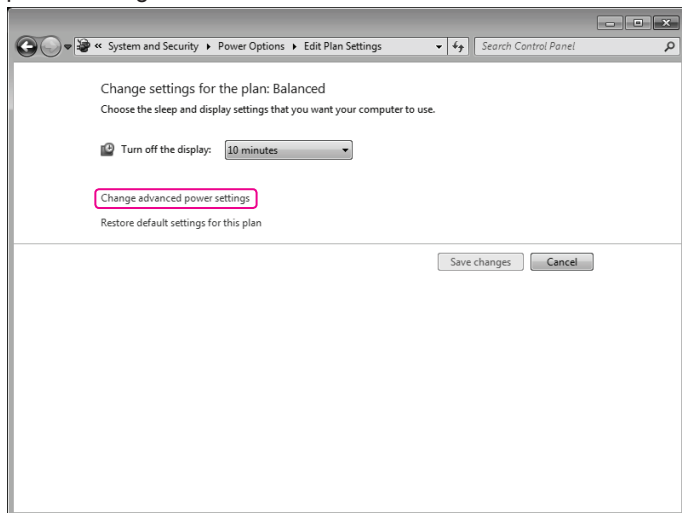
Configuring the PCIe link state power management

Follow the steps below to configure PCIe link state power management to get maximum USB 3.0 speed.

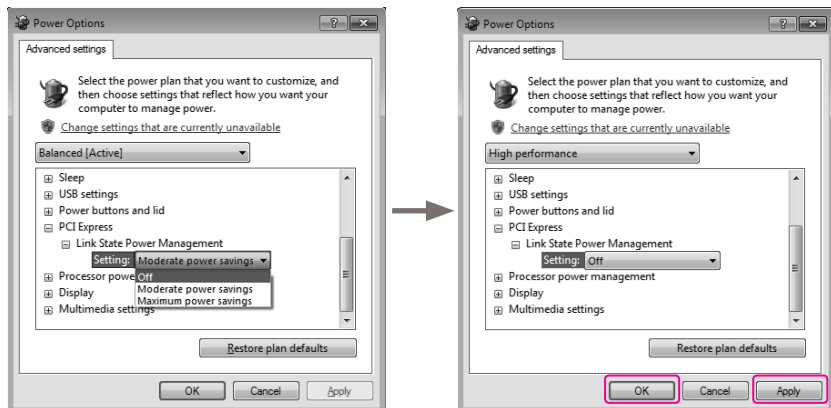
1. Enter “Control Panel > System and Security > Power Options”, and select “Change plan settings” (Balanced (recommended)).



2. In “Change settings for the plan: Balanced” menu, click “Change advanced power settings”.



3. In “Advanced settings” window, select “PCI Express > Link State Power Management”, change Setting “Moderate power savings” to “Off”, and click “Apply” and “OK” to finish the configuration.



Note 1: We recommended users to keep the default settings for normal operation.

Note 2: The screenshots shown in this section are for the Windows 7 operating system.

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