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FCC Warning

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 when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

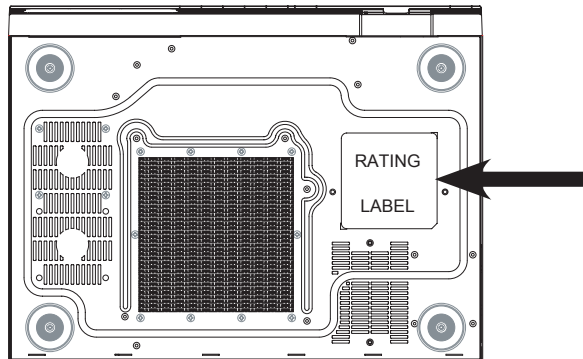
Changes or modifications not expressly approved by the parties responsible for compliance could void the user's authority to operate the equipment.

Important Safety Information

We recommend that you read this section carefully before using the HA91. These safety and usage instructions will ensure that you enjoy many years safe use of the HA91. Keep this manual for future reference.

Warning Symbols on the HA91 Case

Be sure to read the power rating label on the bottom of the HA91 before operation.



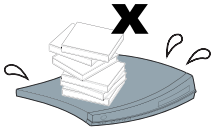
Caution:



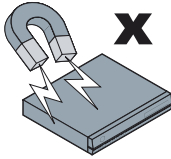
Before connecting power to the HA91, make sure the power source is within the range of AC 100~240V, 50~60 Hz.

Do not attempt to service the HA91 yourself. If the unit gets wet or you think it is damaged, have the unit serviced. Do not open the unit case for any reason.

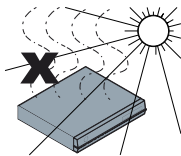
General Safety Information



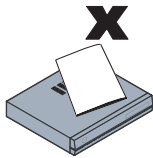
- Do not place heavy objects such as books or bags on the unit.



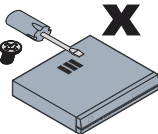
- Avoid placing objects with strong magnets built in too close to the unit. If you suspect stereo speakers may interfere with the unit, try moving the speakers away from the unit.



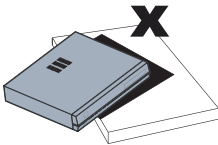
- Avoid using the system in direct sunlight, or near a heating device.



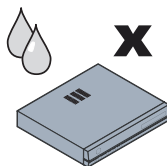
- To prevent the unit from overheating, do not cover the air ventilation openings on the top, sides, or the rear.



- Do not open the unit case. Do not attempt to service the HA91 yourself. For servicing, contact qualified service personnel.



- Do not place the unit on an unstable surface, cart, or stand.



- Avoid exposing the HA91 to moisture or excessive humidity.

- Follow all warnings and cautions in this manual and on the unit case.

Power Safety

- Only use the supplied power cord.
- Do not place anything on the power cord. Place the power cord where it will not be in the way of foot traffic.
- Remove the batteries from the remote control when storing or not in use for a prolonged period.
- Before connecting power to the HA91, make sure the power source is within the range of AC 100~240V, 50~60 Hz.

HDD Partition:

It is strongly recommend not to partitioning the hard disk.

Manual Styles

The following styles are used in this manual to alert you to important information.

Note Style



Provides additional information on the topic at hand.



Provides information that should not be overlooked.



Alerts you to situations that may damage the unit or cause personal injury.



Provides helpful information on the topic at hand.

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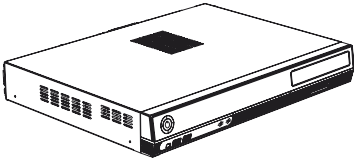
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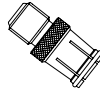
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1.1 Packing Checklist

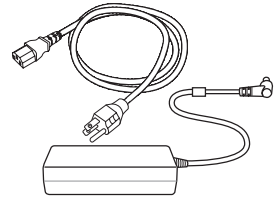
Carefully unpack the HA91 and check that besides this User Manual the following items are included:



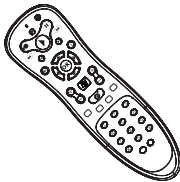
HA91



TV quick connector
For NTSC model only



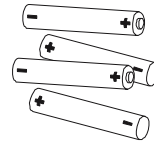
Power cord & Adapter



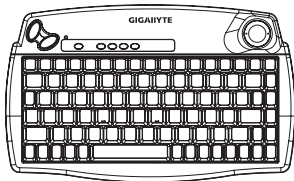
Remote control



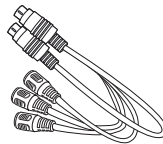
Recovery CD



Two AA for RF
keyboard &
two AA for remote
controller (MCE)



RF keyboard

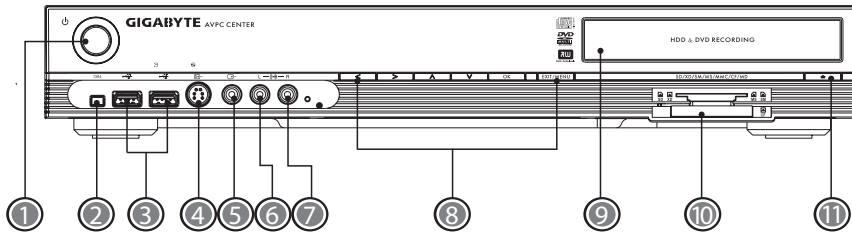


Cable

Contact your dealer immediately if any items are missing, appear damaged, or if the unit does not work.

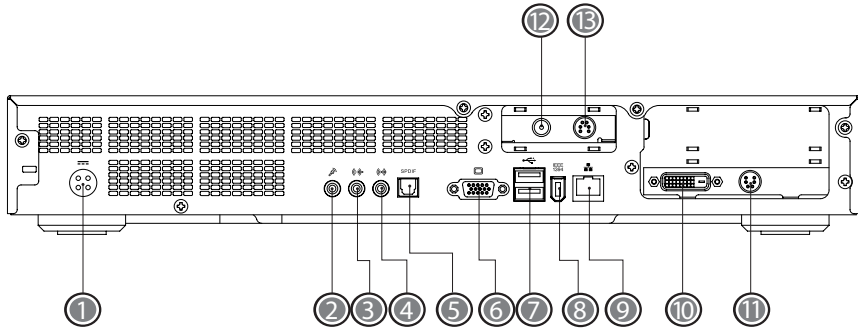
1.2 Features at a Glance

► Front View



Item	Description
1. Power	Push the Power Button to turn the HA91 on.
2. IEEE 1394 (4-pin)	Connect IEEE1394-enabled devices.
3. USB 2.0	Connect USB-enabled devices.
4. S-Video In	Connector for S-Video in.
5. Composite Video In	Connector for Video in.
6. Composite Audio In (L)	Connector for Audio in (Left Channel).
7. Composite Audio In (R)	Connector for Audio in (Right Channel).
8. VFD	VFD (Vacuum Fluorescent Display).
9. DVD Super Multi	DVD-Multi Recorder.
10. Card Reader	6-in-1 card reader.
11. DVD Eject	Push to eject a disc from the DVD drive.

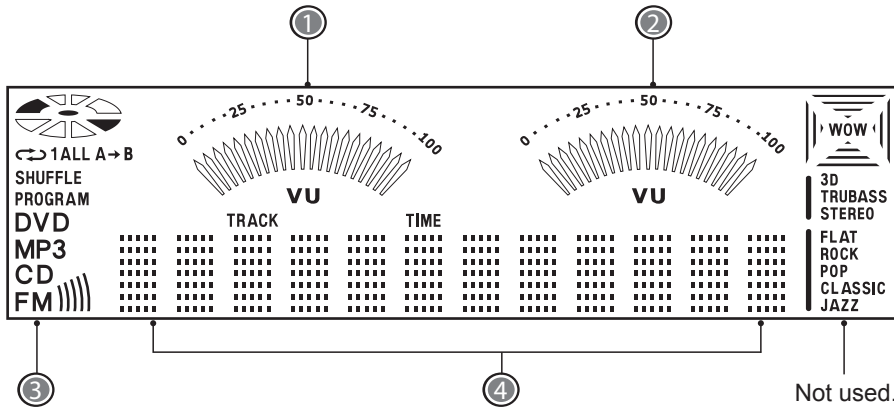
► Rear View



Item	Description
1. Power	Connect the power cord DC Jack here.
2. MIC-In	Connect a microphone here.
3. LINE-Out	Connect to speakers or an amplifier.
4. LINE-In	Stereo audio input port.
5. SPDIF	Digital audio output connector.
6. RGB Out	Connected to flat screen.
7. USB (x2)	Connect USB-enabled devices here.
8. IEEE1394 (6-pin)	Connect IEEE1394-enabled devices here.
9. LAN	Connect to an RJ-45 connector (Ethernet cable).
10. DVI Port	Connect to digital monitor.
11. S-Video Port	Connect to a television or display device with S-Video input.
12. CATV	Cable-TV input.
13. Video/ Audio in	Connector for Video/Audio in.

► VFD (Vacuum Fluorescent Display) Messages

The LED display on the front of the HA91 displays status information. As well as disc information, the following messages display in the LED display:

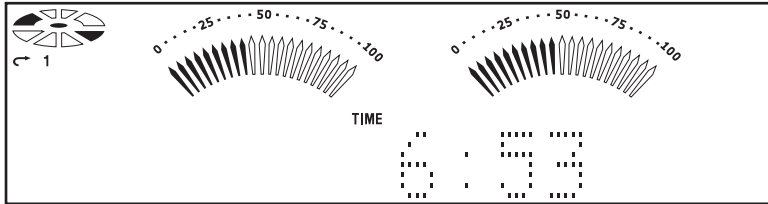


Item	Description
1	Displays the volume level.
2	Displays the volume level.
3	Displays the current mode.
4	Display time information, media play time, and mode status.

► Normal Windows Mode (Media Center Applications are not run) / Sleep Mode

Status:

1. The system is turn on in normal Windows mode. Media Center applications are not run.
2. System is sleeping.



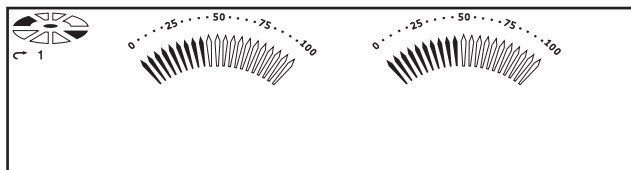
Description:

1. Time is shown. The clock control by VFD MCU.
2. Volumes of audio in left and right are shown.
3. Run Disk is stop.

► Start to run Media Center Applications / On Meida Center Home Frame

Status:

1. Press “Start” button to run Media Center applications and the system is in Media Center Home frame.
2. User can use ▲ and ▼ to choose the wanted multi-media in MCE.



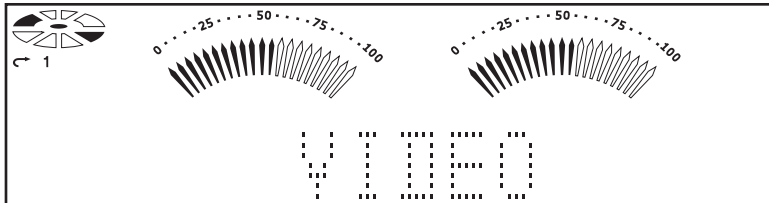
Description:

1. No display information shown.
2. Run Disk is stop.

► My Video Mode

Status:

When “My Videos” is selected, the screen is on video frame and stop mode.



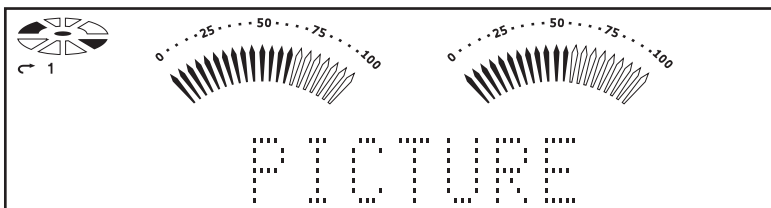
Description:

1. “VIDEO” is shown
2. Run Disk is stop till the media is played.

► My Picture Mode

Status:

On “My Pictures” frame and stop mode.



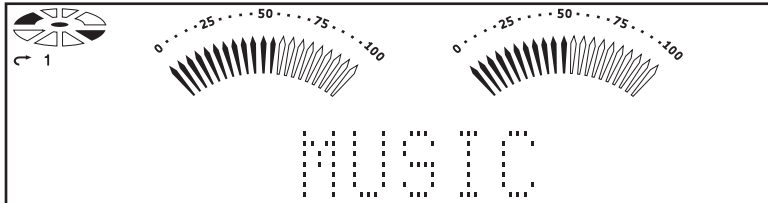
Description:

1. “PICTURE” is shown.
 2. Run Disk is stop.
- * Run Disk can be rotating when the previous selected media is keep playing.

► My Music Mode

Status:

On "My Music" frame and stop mode.

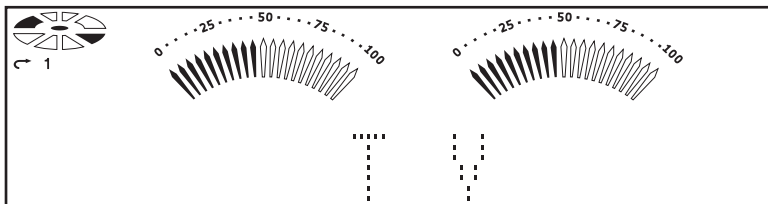


Description:

1. "MUSIC" is shown.
2. Run Disk is stop till the media is played.

► TV Mode

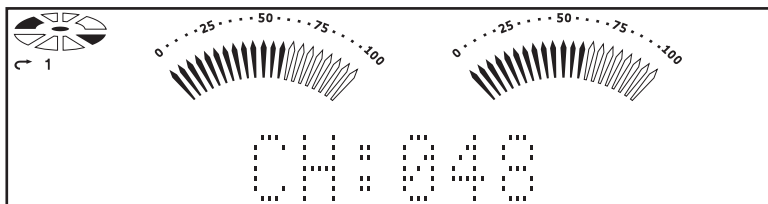
Status: On "My TV" frame and stop mode.



Description:

1. "TV" is shown.
2. Run Disk is stop till the media is played.

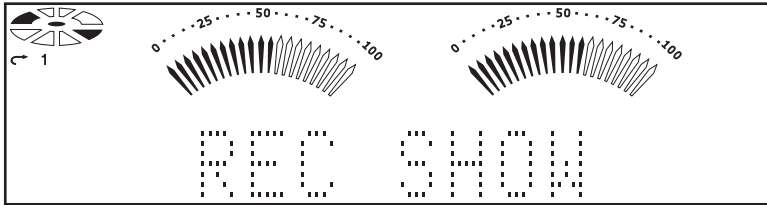
Status: On TV frame and go to live TV.



Description:

1. It will show the channel number once press the button of "CH_PG".
2. Run Disk is running.

Status: On TV frame and go to record TV.

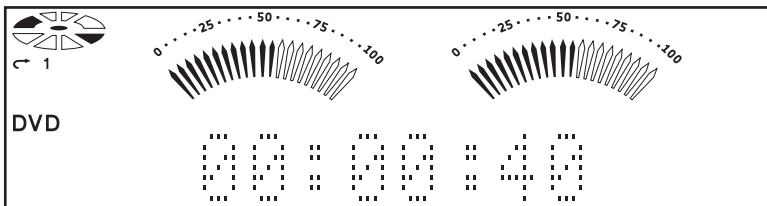


Description:

1. "REC SHOW" is shown.

► Music / DVD / Video / Play Mode

Status: On music, DVD, video frame and play mode

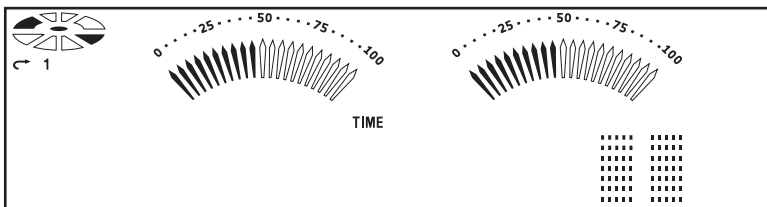


Description:

1. When playing the music, it will show the track time on Music frame or Home frame.
2. Run Disk is running.
3. If you go to "My Pictures" on picture frame, then "PICTURE" is shown on the display.

► CD Burning Progress

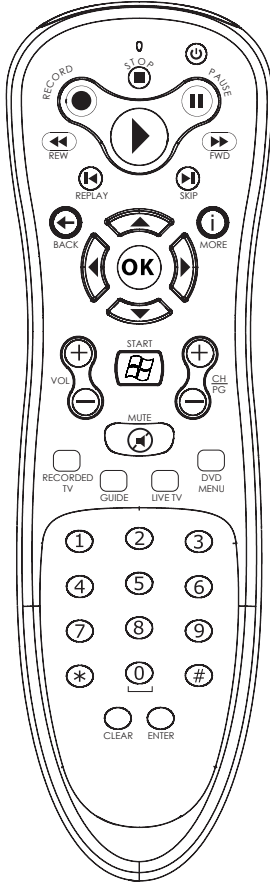
Status: CD burning progress....



Description:

1. When the dot-block is full, means the CD burring progress is complete.
2. This example shown is 100% in the last 2 dot-block.

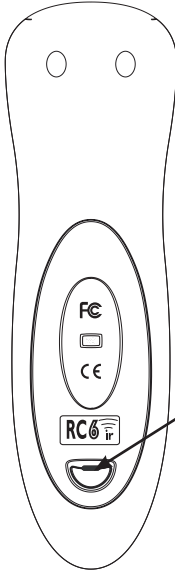
1.3 Remote Control Functions



Item	Function
	Power on/off
	Stop
	Recording Button
	Play
	Pause
	Fast Rewind
	Fast Forward
	Previous Track
	Next Track
	Back
	More Information
	Direction Keys: Up/ Down
	Enter Key: OK
	Direction Keys: Left/ Right
	Next Channel (TV)
	Previous Channel (TV)
	"START" Menu
	Mute
	Volume Up
	Volume Down

► Inserting the Remote Control Batteries

The battery compartment is on the underside of the remote control. Remove the batteries when not using the HA91 for a longer period.



1. Pull the latch upward and open the battery compartment cover.

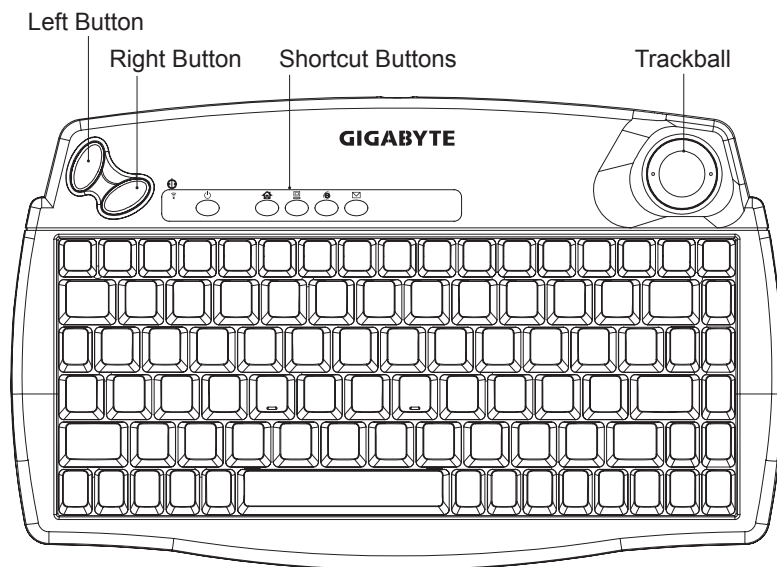
2. Insert 2 AA batteries taking note of the correct polarity (+/-).

3. Close the cover.



1. Only use AA batteries.
2. Dispose of used batteries according to local ordinance regulations.
3. Remove the batteries when not using the HA91 for prolonged periods.

1.4 Keyboard Function

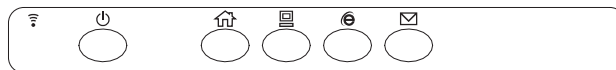







► Using the trackball and buttons

The trackball and buttons have the same functions as a PC mouse. Roll the trackball to move the cursor on the screen, use the left and right buttons as you do a standard mouse.

► Shortcut Buttons

In addition to the normal keys found on standard keyboards, the HA91 keyboard features a number of shortcut buttons, whose functions are outlined below.

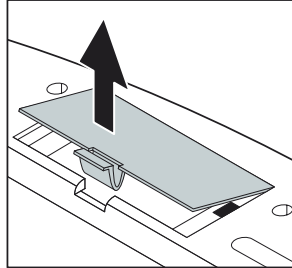


Button	Function
Power 	Power button.
AV 	MCE/PCM start up.
PC 	Back to PC screen.
IE 	Internet.
E-MAIL 	Shortcut button to your e-mail manager.

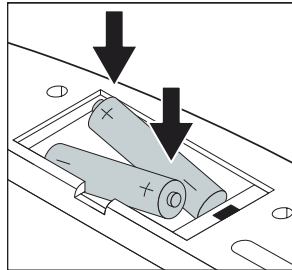
► Inserting the Keyboard Batteries

The battery compartment is on the underside of the keyboard. Remove the batteries when not using the HA91 for a longer period.

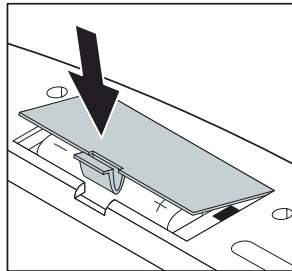
1. Lift as shown to remove the cover.



2. Insert two AA batteries taking note of the correct polarity (+/-).



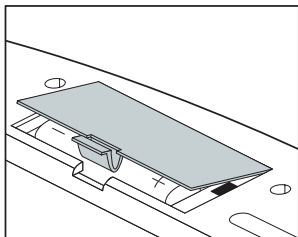
3. Replace the cover.



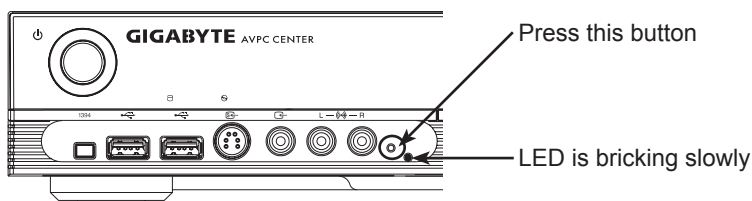
1. Only use AA batteries.
2. Dispose of used batteries according to local ordinance regulations.
3. Remove the batteries when not using the HA91 for prolonged periods.

► Set Up for Linkage

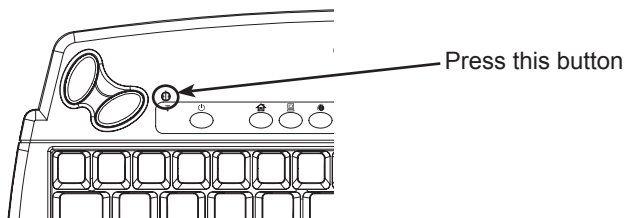
1. Remove the cover and check if the batteries have been installed. (You can follow instructions on P.12 Inserting the Keyboard Batteries).



2. Press connect button on the front panel. After pressing the button, its indicator will light (slowly) and waiting for the match signal from RF Keyboard.



3. Then press this learning button on RF Keyboard to let receiver recognize signal. As soon as the linkage is completed, the indicator turns to quick flash.

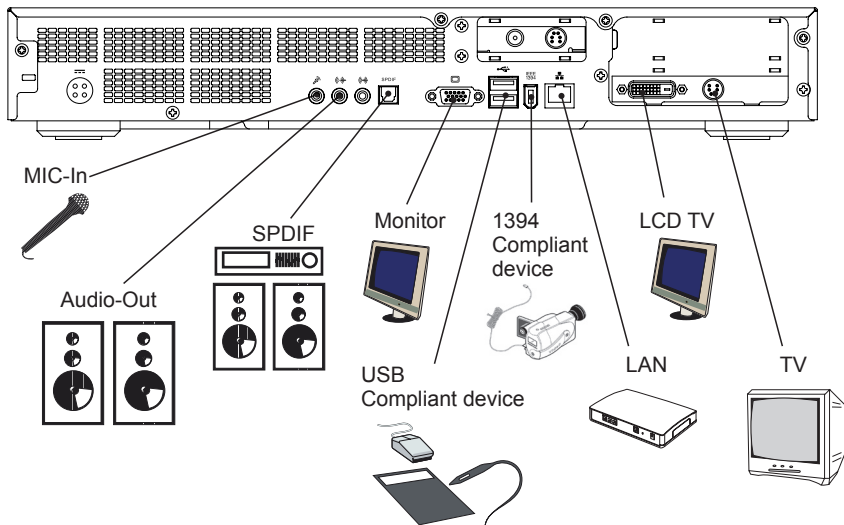
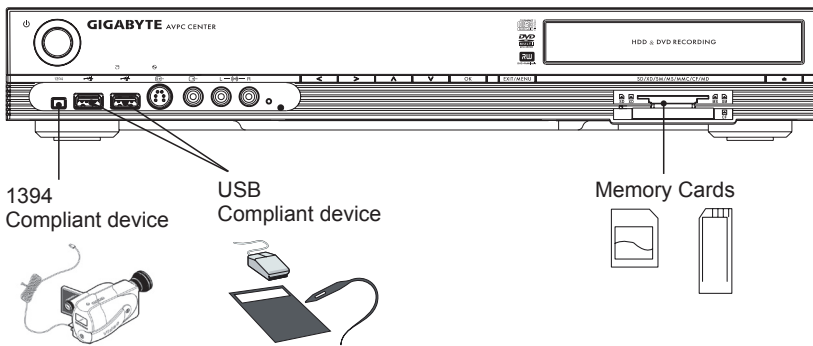


1.5 Remote Control and Keyboard Operating Range

The remote control uses infrared transmission to control the HA91. It is not necessary to point the remote directly at the HA91. Provided you are facing the HA91, the remote will function well within a radius of about 3 meters (10 feet) and 30 degrees above or below the HA91 level. If the HA91 does not respond to the remote control, move a little closer or replace the batteries.

2.1 Connecting Input Devices

Many of the connectors on the HA91 support the connection of more than one kind of device. For example, USB printers, keyboards, or scanners can be connected to any of the USB ports.

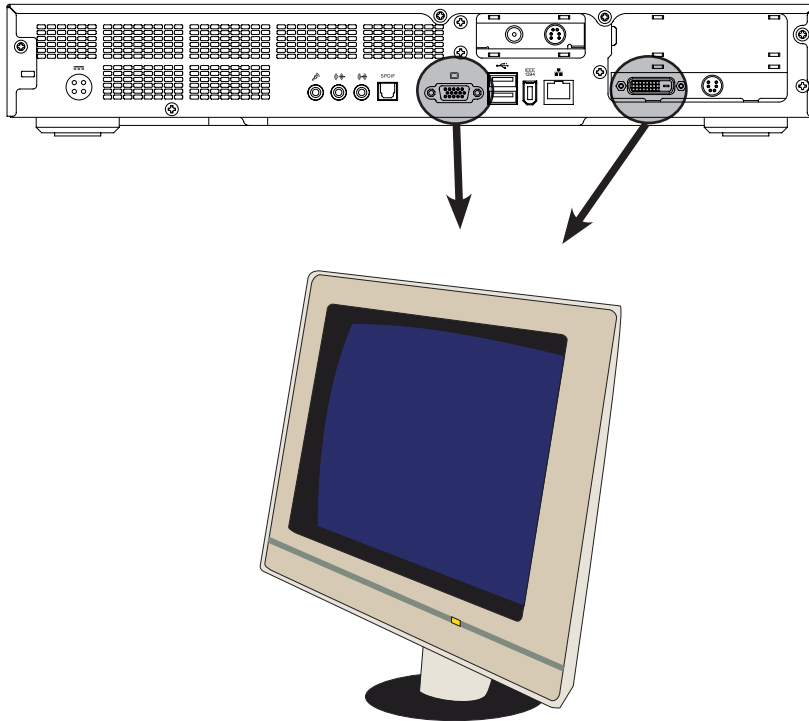


2.2 Connecting a Monitor/ Flat Display

Check the connectors on your monitor; many monitors have both a VGA (analog) connector and a DVI-I (digital) connector. If the monitor has both connectors, use the DVI-I connection as digital provides a better quality signal.

The following directions refer to connecting a VGA:

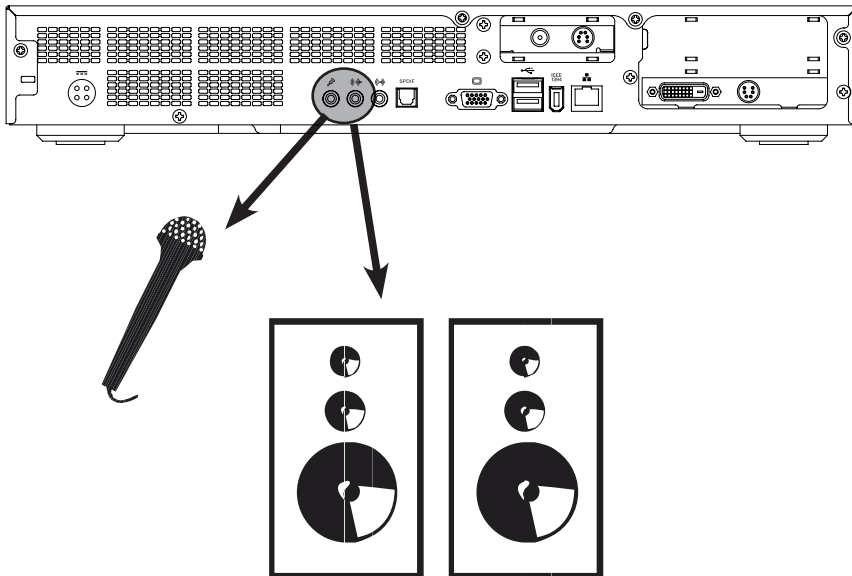
1. Connect the cable to the VGA connector on the HA91. Tighten the securing screws.
2. Connect the other end of the cable to corresponding connector on the monitor and tighten the securing screws.



2.3 Connecting Speakers or an Amplifier

There are many options for connecting amplifiers using both analog and digital connections.

Analog connections are made using the line-out connector. Digital connections are made using the SPDIF connector.

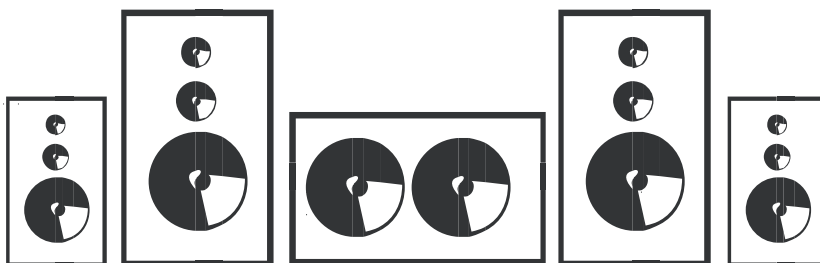
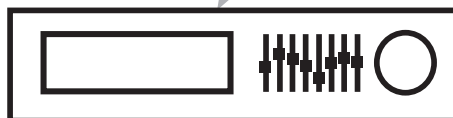
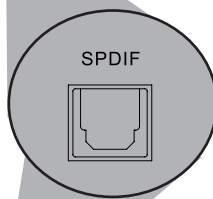
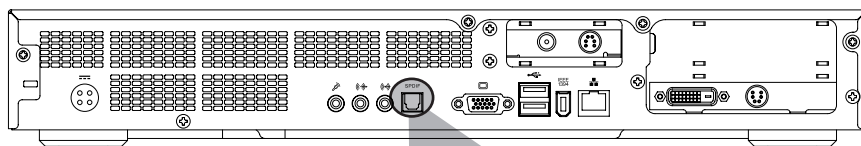


SPDIF (Sony/Philips Digital InterFace) is an interface for transferring digital audio between devices such as CD and DVD players and amplifiers. Use this connection if available on your amplifier.

2.4 Setting up a 5.1 Audio Environment

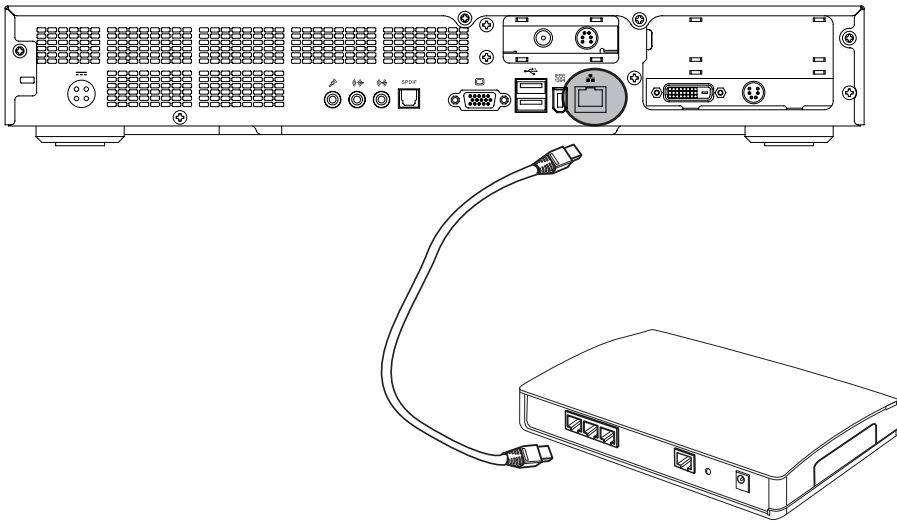


The 5.1 channel audio environment is a digital audio playback system for home theater. It includes five channels (left, right, center, rear/surround left and right) plus a subwoofer channel.



2.6 Connecting to a LAN

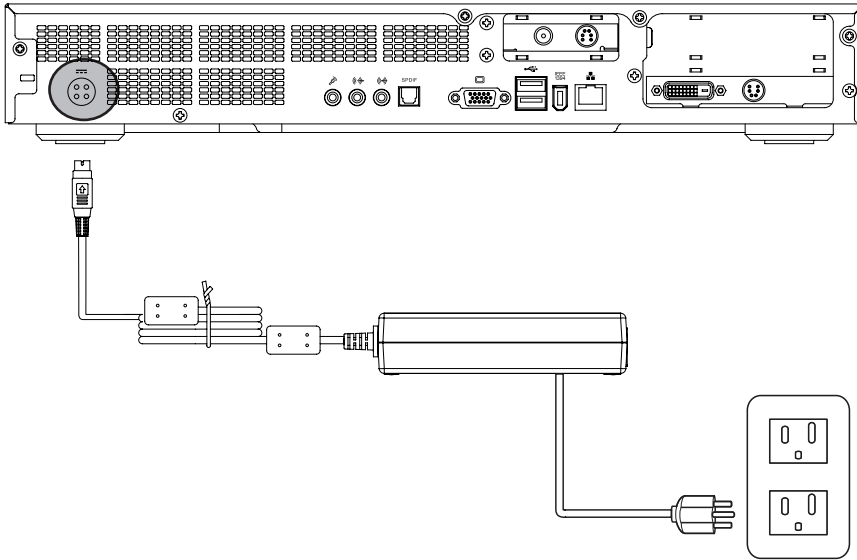
To go online and send or receive email you must have an Internet connection. If you have an existing ADSL account, connect the RJ-45 cable from your ADSL to the LAN connector on the HA91.



2.7 Connecting the Power Cable

Refer to the following to connect the power cable.

1. Connect the power cable to the power connector on the HA91.
2. Connect the other end to an electrical outlet.



SPECIFICATIONS

Board	GA-8I865SC
CPU	PSC Celeron 2.8GHz (Celeron D 335)
DRAM	512MB
HDD	160G or greater
Dimensions	438.2 (W) x 325.8 (D) x 60.8 (H) mm
Power Rating	180W Adaptor (100-240V; 50/ 60 Hz)
Chipset	865G/ ICH5 / RTL655 / RTL8100C
Front I/O	SPDIF/ Front USB 2-Port (2x5) / Front 1394 1 Port/ Front A/V / IrDA/ Card reader
Peripherals	Optical device/ FDD/ Keyboard/ Mouse
Add-on Cards	Riser card/ ADD card/ Tuner card/ FIO board/ Card Reader/ VFD module
Operating System	Window 98/ 98SE/ ME/ 2000/ XPO/ MCE
A/P	GBT driver disk
Rear I/O	USB/ D-sub/DVI/ TV-out/ Audio / LAN (RJ45)/ SPDIF/ 1394
Certification	Windows Logo/ EMI/Safety