

# Integra®

Audio Network Server

# NAS-2.3

Instruction Manual

Thank you for purchasing the Integra Audio Network Server.

Please read this manual thoroughly before making connections and plugging in the unit. Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new Audio Network Server. Please retain this manual for future reference.

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# Important Safety Instructions

**READ INSTRUCTIONS** - All the safety and operating instructions should be read before the product is operated.

**KEEP INSTRUCTIONS** - The safety and operating instructions should be kept for future reference.

**HEED WARNINGS** - All warnings on the product and in the operating instructions should be adhered to.

**FOLLOW INSTRUCTIONS** - All operating and use instructions should be followed.

**CLEANING** - Unplug this product from the wall outlet before cleaning. The product should be cleaned only with a soft dry cloth. Never clean with furniture wax, benzene, insecticides, or other volatile liquids since they may corrode the cabinet.

**ATTACHMENTS** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

**WATER AND MOISTURE** - Do not use this product near water - for example near a bathtub, washbasin, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

**ACCESSORIES** - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.

**CART** - A product and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn:



**VENTILATION** - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. Do not block any ventilation openings. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided. Install in accordance with the manufacturer's instructions.

**POWER SOURCES** - This product should be operated only from the type of power source indicated on the marketing label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

**LOCATION** - The appliance should be installed in a stable location.

**NONUSE PERIODS** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

**GROUNDING OR POLARIZATION** - If this product is equipped with a polarized alternating current line plug (a plug having one prong wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug does not fit into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only work in a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

**POWER CORD PROTECTION** - Power supply cords should be protected from being walked on or being pinched, particularly at plugs, convenience receptacles, and the point where they exit from the product.

**OUTDOOR ANTENNA GROUNDING** - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code. ANSI/NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.

**LIGHTNING** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

**POWER LINES** - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

**OVERLOADING** - Do not overload wall outlets, extension cords or integral convenience receptacles as this can result in a risk of fire or electric shock.

**OBJECT AND LIQUID ENTRY** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

**SERVICING** - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

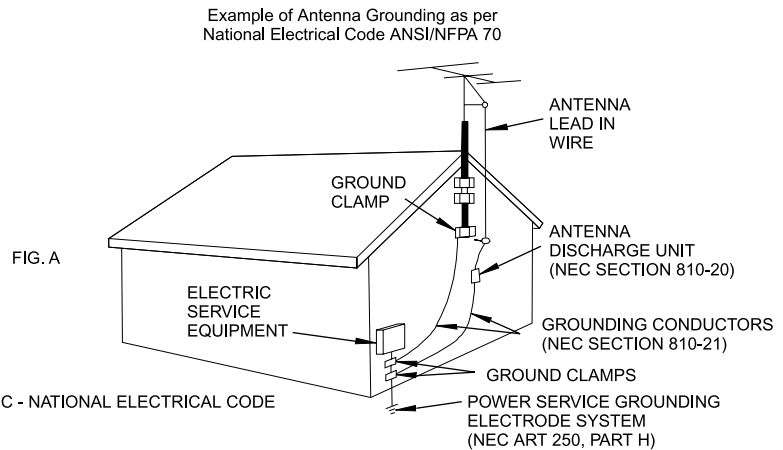
**DAMAGE REQUIRING SERVICE** - Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as if a power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**REPLACEMENT PARTS** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

**SAFETY CHECK** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

**WALL OR CEILING MOUNTING** - The product should not be mounted to a wall or ceiling.

**HEAT** - Do not install near any heat source such as radiators, heaters, stoves, or other apparatus (including amplifiers) that produce heat.



**WARNING**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN

**AVIS**  
RISQUE DE CHOC ELECTRIQUE  
NE PAS OUVRIR

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

# Important Safety Notices

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

## For U.S. models

**CAUTION:** This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

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

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

Changes or modifications may cause this unit to fail to comply with Part 15 of the FCC Rules and may void the user's authority to operate the equipment.

## 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.

## Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

## For Canadian models

**NOTE:** This Class B digital apparatus complies with Canadian ICES-003.  
Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.

**CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE PRONG OF PLUG TO WIDE SLOT, FULLY INSERT.

**ATTENTION:** POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

## For European models

**NOTE:** This product has been designed and type-tested to comply with the limits set out in EN55013, EN55020, EN60950, EN55022: 1998 CLASS B4, EN65024: 1998, FCC RULES PART 15 SUBPART B CLASS B. AS/NZS 3548:1995 CLASS B



## CAUTION:

**LASER SAFETY:** This unit employs a LASER. Only a qualified person should remove the cover or attempt to service the device, due to possible eye injury.

“CAUTION-USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURE OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.”



1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet.
2. To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

# Precautions

## General precautions

When installing the equipment ensure that:

- the ventilation holes are not covered.
- air is allowed to circulate freely around the equipment.
- it is placed on a vibration free surface.
- it will not be exposed to excessive heat, cold, moisture, or dust.
- it will not be exposed to direct sunlight.
- it will not be exposed to electrostatic discharges.

In addition, never place heavy objects on the equipment.

If a foreign object or water does enter the equipment, contact your nearest dealer or service center.

Do not pull out the plug by pulling on the power cord; grasp the plug.

It is advisable when leaving the house, or during a thunderstorm, to disconnect the equipment from the electrical wall outlet.

### WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Do not remove the cover from the equipment. There are no user serviceable parts inside, and opening the case will invalidate your warranty.

Do not insert anything into the equipment through the ventilation holes.

Do not handle the power cord with wet hands.

To avoid overheating, do not position the Audio Network Server near heat sources, and ensure that the ventilation holes are not blocked.

**CAUTION:** This product contains a lithium battery. Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by Integra/Onkyo. Dispose of batteries according to the manufacturer's instructions.

### WARNINGS

Do not expose the equipment to rain or moisture.

Do not remove the cover from the equipment.

Do not insert anything into the equipment through the ventilation holes.

Do not cover the ventilation holes with any items such as tablecloths, newspapers, curtains, etc.

Do not place an open flame, such as lighted candles, on the equipment.

Do not handle the power cord with wet hands.

Allow adequate ventilation. Leave a gap of 0.1 m on all sides of the unit.

Do not splash or spill water on the unit. Do not place objects filled with liquid (such as vases) on the unit.

## CD handling precautions

- Handle discs carefully so as not to damage or scratch the front side. Always keep the disc surface clean.
- To protect the disc avoid placing it in the following locations:
  - In direct sunlight or near a source of heat like a heater.
  - In a place that is damp or dirty.
  - In a place that could be exposed to rain, such as near a window.
- Do not use a disc with a special shape.

## DTS encoded discs

**Caution** - When playing DTS encoded CDs excessive noise will be heard on the analog outputs jacks of the Audio Network Server. To avoid possible damage to the audio system you should ensure that the correct connections are made to your amplification system for replaying this type of disc.

## Power cord precautions

Your Integra product complies with the household power and safety requirements in your area.

## COPYRIGHT NOTICE

This equipment must not be used for unauthorized duplication of CDs or any other works protected by copyright. No license to infringe on copyrights is granted by the sale of this equipment. Recording and playback of some material may require permission. For further information refer to the following:

- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963, and 1972
- Any subsequent statutory enactments and orders.

## CAUTION

When disposing of used batteries, please comply with governmental regulations or environmental regulations or environmental public instruction's rules that apply in your country or area.

## POWER BUTTON

When this button is pressed once, the power turns **On** and information will appear on the display. When pressed again, press the **Off** action key or the **i** key on the remote control to switch to **Off** mode.

When the unit is in **Off** mode the "Standby" indicator is lit; the apparatus is not disconnected from the AC power supply in this mode.

## Copyright notice



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## Precautions



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The information in this guide is believed to be correct as of the date of publication. However our policy is one of continuous development and so the information in this guide is subject to change without notice, and does not represent a commitment on the part of Integra.

This guide was designed and produced by Imerge Ltd.

### **XiVA™ NEW MEDIA BROUGHT TO LIFE**

XiVA™ is a highly portable software framework that powers next-generation media appliances. XiVA™ blends hard disk technology, advanced software design, and embedded Internet technology to provide amazing features. Audio, video, text, graphics, and all forms of streaming new media are all brought to life through a wealth of interactive user interface options. Powerful personalized software accesses online content like never before. The next generation media appliance is powered by XiVA™.

### **Gracenote CDDb Flow-Down License Terms**

This product contains technology and data from Gracenote of Berkeley, California ("Gracenote"). The technology from Gracenote (the "Gracenote Embedded Software") enables this product to do disc identification and obtain music-related information, including name, artist, track, and title information ("Gracenote Data"), which is included on the Gracenote Database (the "Gracenote Database").

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## Features

Welcome to the **NAS-2.3 Audio Network Server** from Integra. The NAS-2.3 is a revolutionary way of filling your home with music.

Your Audio Network Server stores and catalogs your music collection, allowing you to select any album or track at the press of a key.

You can browse through your albums and tracks using convenient on-screen menus displayed on your television, showing full album, track, and artist names downloaded from the Gracenote CDDb Music Recognition Service as well as album cover art illustration from the XiVA™ online service. Your Audio Network Server also lets you organize your music collection and create selections for different occasions to suit your mood.

### **Incredible capacity**

Your Audio Network Server is a hard disk based audio system which can store hundreds of hours of music, all with the convenience of instant access, at the touch of a key.

### **Convenient TV screen**

Play music, record CDs, or organize your library using convenient on-screen menus which show the full album, artist, and track names, allowing you to select the one you want with a few simple selections.

### **Internet access for track listings**

Your Audio Network Server records the CDs from your music collection at faster than real time. It then automatically connects to the Gracenote CDDb Music Recognition Service via the built-in modem or Ethernet connection. This database provides album and track details for a wide range of CDs. This information can be downloaded and stored with each CD you record, allowing you to select any item in your music collection by album name, artist name, track name, or genre, giving you total flexibility in the way you access and control your music collection.

### **Create your own playlists**

Your Audio Network Server allows you to compile personal playlists and then automatically play tracks from the playlist you have selected. Playlists let you customize your Audio Network Server for each member of the family, or for matching the music to the occasion or mood.

### **Instant access, irrespective of your music collection**

Whether you select a track by title, album, artist, or genre, your Audio Network Server locates it instantly and plays it at the press of a key. All this is achieved with an extremely simple and intuitive user interface, operated using a few keys on the front panel or remote control.

## Accessories

Stereo RCA cable .....	1
Video cable .....	1
Modem cable .....	1
Power cord .....	1
Remote control unit .....	1
AAA (R03P) dry cell batteries .....	2

# Quick Start Guide

## Controls

- Output button:** Press this button to display information on the music currently playing.  
Press this button again to switch to the next output on the Audio Network Server. This function is enabled by an optional future software upgrade.
- Front panel action keys:** These four keys correspond to the different actions clearly visible by reading the front panel display. For example, in the display opposite, the **✓ Play** action key will begin playback of the selected album. The **✓** symbol indicates that you can also press the **✓ Select** key on the remote control to begin playback.
- Navigation keys:** Move up, down, left, and right through the menu system. The button in the center selects the currently highlighted option.
- Transport keys:** Controls the playback of music on the currently selected output. The **□ Record** key is an action key used on some menu screens to begin a recording or to modify a playlist.
- HDD Audio button:** Press this button to control the Audio Network Server.
- Remote control action keys:**
  - Press the **☰ Menu** key to display the main menu at any time.
  - Press the **✕** key whenever this symbol is displayed on the TV screen or on the front panel to cancel, exit or delete the current operation according to the information on the screen.
  - Press the **i** key whenever this symbol is displayed on the TV screen or on the front panel to edit text information, or confirm a new text entry according to the information on the screen.
  - Press the **🏠** key to return to the “home” page of the current function. For instance, when browsing the library press this key to return to the **Library** menu.

## Recording from a CD

- Press the **Open/Close** key on the front panel to open the CD tray.
- Place a CD in the tray.
- Push the **Open/Close** key on the front panel.

The CD detected prompt is displayed.

- Press the **□ Record** action key to proceed.

The **Please select Auto or Custom record** display then allows you to choose whether to do a quick (one touch) record or specify individual record options.

- Press the **✓ Auto** action key to do a one touch recording.

The display confirms when the recording is finished.

**Note:** You can play music from your music library while you are recording a CD.

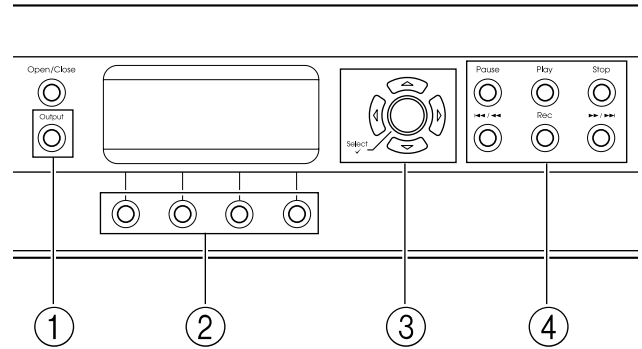


Fig. A - Front Panel Display

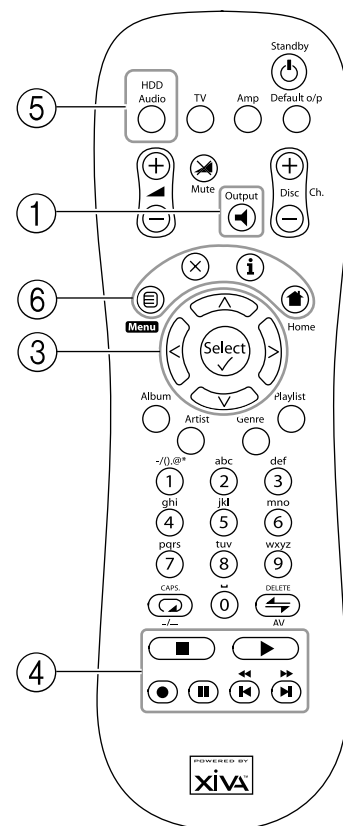


Fig. B - Remote Control



Fig. C - TV User Interface

# Quick Start Guide

## Playing music

- Display the **Main Menu** by pressing the **Menu** key on your Audio Network Server remote control, or the **Menu** action key on the front panel.

The **Main Menu** will be displayed.

- Press the **^** and **v** keys to highlight **Library**.
- Press the **✓ Select** action key.

The **Library** menu lets you choose how you want to browse your music collection. You can browse items by album, artist, genre, or playlist.

- Press the **^** and **v** keys to step between categories.

For example, if you select **Albums** you will see an alphabetical list of your album titles.

## To play music

- Use the **^** and **v** keys to highlight the item you would like to play.
- Press the **>** key to view the contents of the selected item.
- Press the **✓ Play** action key.

## To stop play

- Press the **■** key on the front panel or the Audio Network Server remote control.

## To pause play

- Press the **⏸** key on the front panel or your Audio Network Server remote control.

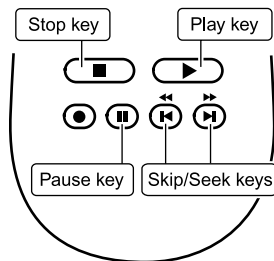
## To skip to the next or previous track

- Press the **⏮** or **⏭** key on the front panel or your Audio Network Server remote control.

## To seek within a track

- Hold down the **⏮** or **⏭** key on the front panel or your Audio Network Server remote control.

Play resumes from the new position when you release the key.



## Entering text

### To enter text using the alphanumeric keypad

- Press the **>** or **<** keys to move the cursor to the required position.
- Use the keys on the alphanumeric keypad to enter a letter.

For example, to enter **S** press the **7** key four times, because **S** is the fourth letter on the **7** key.

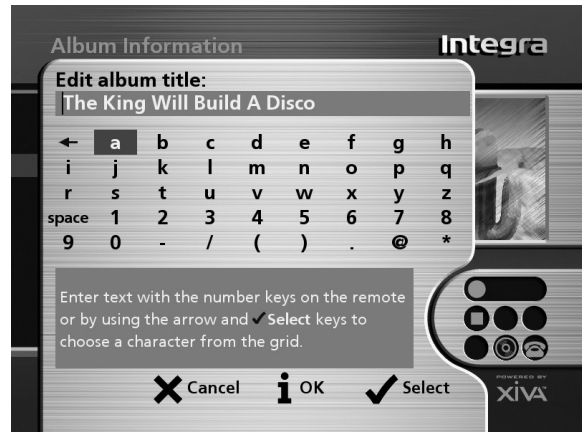
- Press the **DELETE** key on your Audio Network Server remote control to delete letters.
- Press the **CAPS** key on either the front panel or your Audio Network Server remote control to switch between upper case and lower case letters.

## To select letters from a grid

Alternatively, the **Grid** provides a convenient way of selecting letters:

- Press the **v** key to move the cursor into the grid area.

The currently selected letter is highlighted:



- Use the **>**, **<**, **^** or **v** keys to move the cursor and press the **✓ Select** action key to enter each letter.
- Use the **CAPS** key on either the front panel or the Audio Network Server remote to switch between upper and lower case letters.

If at any time you need to enter text in a different part of the text field, or you want to return to entering text using the alphanumeric keypad:

- Press the **^** key repeatedly until the cursor returns to the text field.

Finally, when you have finished entering the name:

- Press the **i OK** action key.

## Switching on and off

### To switch to standby mode

Standby mode should be used when the Audio Network Server is not being used for a short period of time. **Do not** disconnect the power from the Audio Network Server in this mode.

- Press the **Standby** key on the front panel or the **⏻ Standby** key on the remote control.
- Press the **✓ Standby** action key to enter standby.

### To switch to off mode

Off mode should be used when the Audio Network Server is not being used overnight (or for several days). When the unit is in off mode it consumes very little power. You can safely disconnect the power from the Audio Network Server in this mode.

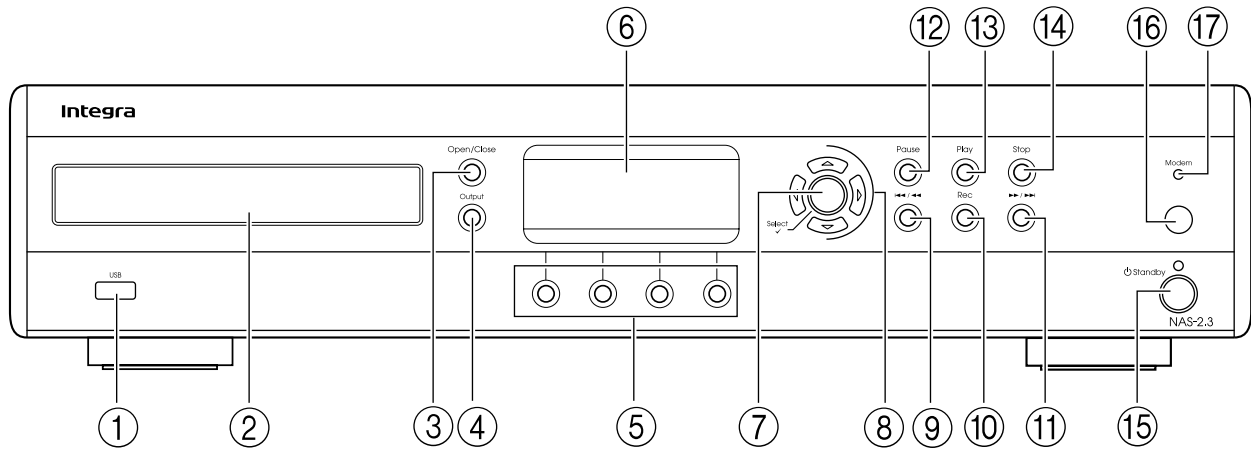
- Press the **Standby** key on the front panel or the **⏻ Standby** key on the remote control.
- Press the **i Off** action key to enter off mode.

### To switch on from standby or off mode

- Press the **Standby** key on the front panel or the **⏻ Standby** key on the remote control.

# Controls and Connections

## Front View



This section provides information on the controls and connections available on your Audio Network Server.

### ① USB

Allows the Audio Network Server to communicate with supported USB devices.

### ② Disc Tray

Insert a disc with the label side up.

### ③ Open/Close button

Pressing the **Open/Close** button opens the disc tray. Place a compact disc on the tray with the label side facing up. Press the button again to close the tray.

### ④ Output button

Press the **Output** button to display what music is playing on the currently selected output.

### ⑤ Action buttons

Action buttons allow you to perform specific operations dependent on the current menu screen. For more information on using the action buttons see **Using the Audio Network Server action keys** on page 14.

### ⑥ Display

The display shows information about the music available on the unit, the status of the Audio Network Server (for instance if the unit is currently playing), and the current configuration of the unit.

### ⑦ Select button

Selects the option currently visible on the display.

### ⑧ Navigation buttons

The Navigation buttons allow you to move up, down, left, or right through the menus shown on the display.

### ⑨ ⏮ / ⏪ button

When the button is pressed briefly during playback, play restarts at the beginning of the current track. A second brief press moves to the beginning of the previous track. When the button is held for a longer period of time the music will rewind at high speed.

### ⑩ Rec button

The **Rec** button is an action key - on some menu screens you can use this button to begin a recording from the CD inside the unit. When managing playlists this button is also used to create new playlists or add tracks to an existing playlist.

### ⑪ ⏭ / ⏩ button

When the button is pressed briefly during playback, play restarts at the beginning of the next track. When the button is held for a longer period of time the music will fast forward at high speed.

### ⑫ Pause button

Press the **Pause** button to interrupt playback temporarily.

### ⑬ Play button

Press the **Play** button to resume playback if the music has been stopped or paused.

### ⑭ Stop button

Press the **Stop** button to halt playback on the current output.

### ⑮ ⏻ Standby

Press to put your Audio Network Server into either **standby** or **off** mode, press again to switch your Audio Network Server back on.

### ⑯ Remote Sensor

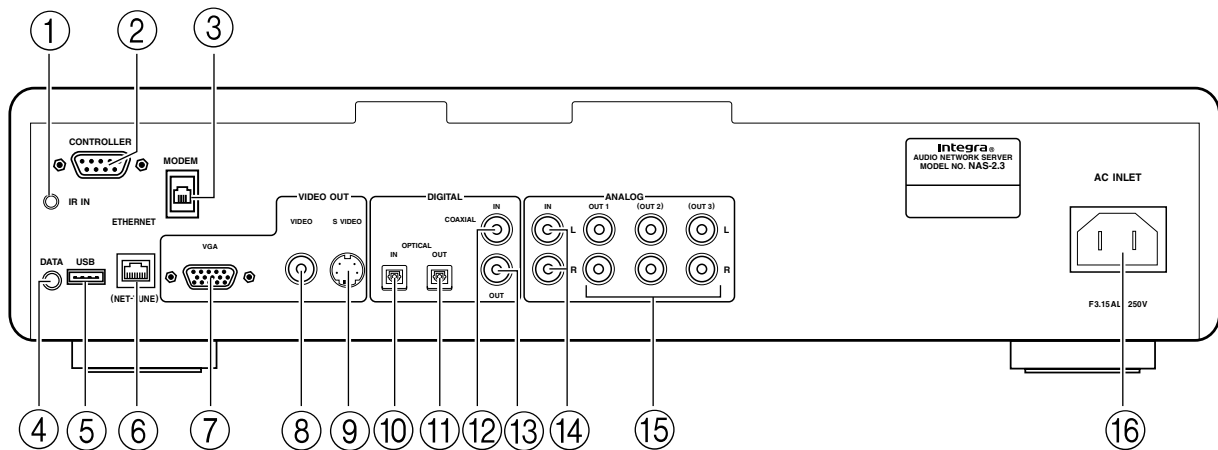
This window receives signals transmitted from the remote control unit.

### ⑰ Modem

The online indicator is illuminated when the modem is active.

# Controls and Connections

## Rear View



### 1 IR IN

The IR IN connection allows remote control information to be carried from other devices directly into the Audio Network Server.

### 2 CONTROLLER

The **CONTROLLER** port provides serial communication with supported devices. For instance, a multiroom control system may communicate with the Audio Network Server using the **XiVA™-Link** protocol.

### 3 MODEM

The **MODEM** port can be used to connect the Audio Network Server to a standard analog telephone line for internet access (using the supplied cable).

### 4 DATA

Allows the Audio Network Server to send control information to other supported devices.

### 5 USB

Allows the Audio Network Server to communicate with supported USB devices.

### 6 ETHERNET (NET-TUNE)

The Ethernet port can be used to connect a Net-tune device (such as the NAC-2.3) for remote network playback of your music collection. It may also be used to connect the Audio Network Server to a high speed internet connection, and to connect supported software applications to your device. A shielded Ethernet cable should be used in conjunction with this connection.

### 7 VIDEO OUT VGA

The **VGA** connector may be used to connect a **VGA** monitor or a suitable plasma screen for displaying the TV User interface.

### 8 VIDEO OUT VIDEO

Connect the Composite **VIDEO** output of the Audio Network Server to the composite input of a TV to display the TV User Interface. You may also need to switch the TV to the relevant **AUX** input to display the picture.

### 9 VIDEO OUT S-VIDEO

Connect the **S-VIDEO** output of the Audio Network Server to the **S-VIDEO** input of a TV to display the TV User Interface. You may also need to switch the TV to the relevant **AUX** input to display the picture.

### 10 DIGITAL OPTICAL IN\*

High quality recordings can be made onto the Hard Disk of the Audio Network Server using an optical connection from a suitable device (such as Minidisc or DAT).

### 11 DIGITAL OPTICAL OUT

The digital optical output can be used to transmit high quality audio to a device with a digital optical input (D/A convertor, A/V amplifier, etc.) using an optical fiber cable. The advantage of using the optical output is that it has low signal loss due to cables and is completely isolated from the ground loop. The audio output of the **DIGITAL OUT** connector is the same as the audio output of the **ANALOG AUDIO OUT 1** connector.

**Note:**

This output cannot be used for making a digital copy of your media.

### 12 DIGITAL COAXIAL IN\*

High quality recordings can be made onto the Hard Disk of the Audio Network Server using a coaxial connection from a suitable device (such as Minidisc or DAT).

### 13 DIGITAL COAXIAL OUT

By connecting this jack to a digital audio component (D/A convertor, digital sound processor, etc.), digital signals from the Audio Network Server can be transmitted directly from the system without first being converted to analog. The audio output of the **DIGITAL OUT** connector is the same as the audio output of the **ANALOG AUDIO OUT 1** connector.

**Note:**

This output cannot be used for making a digital copy of your media.

### 14 ANALOG IN\*

Analog sources (such as cassette or vinyl LP) may be recorded onto the Hard Disk of the Audio Network Server using this connection.

### 15 ANALOG OUT 1, 2, 3

Currently, only the **ANALOG OUT 1** output is available. The **ANALOG OUT 2** and **3** outputs are reserved for optional future upgrade.

### 16 AC INLET

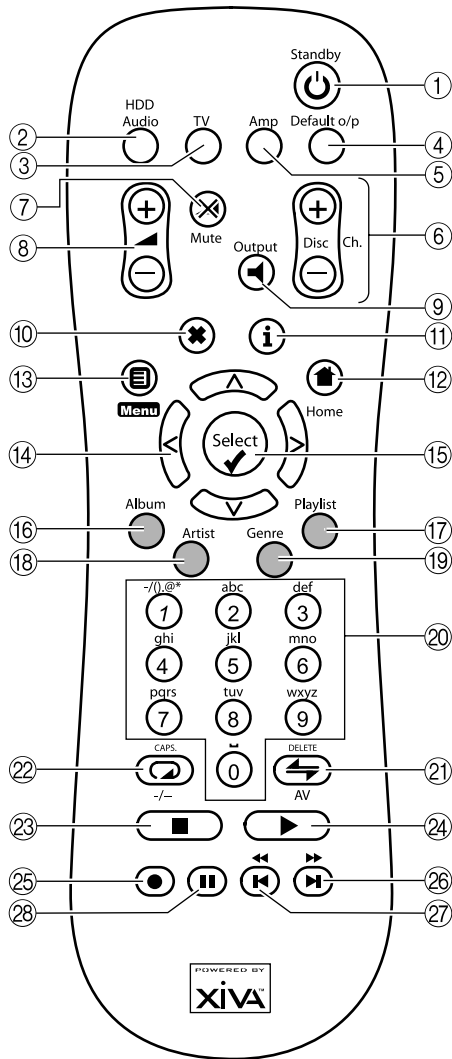
Connect the supplied power cord to this connector to provide power to the unit.

\* To be enabled in a future software release.

# Controls and Connections

## Remote Control

The following diagram explains the function of the keys on your Audio Network Server remote control:



**1** **Standby button**

Places the Audio Network Server in/out of **standby** or **off** mode.

**2** **HDD Audio button**

Selects the Audio Network Server as the device to be controlled.

**3** **TV button**

This button is not used for this Audio Network Server.

**4** **Default o/p button**

This function is enabled by an optional future software upgrade. Currently, this button displays the library menu.

**5** **Amp button**

This button is not used for this Audio Network Server.

**6** **Disc/Ch. buttons**

Selects the next/previous album (or playlist) on your Audio Network Server.

**7** **Mute button**

Provided that the Audio Network Server output volume is set to **variable**, this button will mute the output of the Audio Network Server. For more information see the chapter **Advanced Settings** on page 26.

**8** **(Volume +/-) buttons**

Provided that the Audio Network Server output volume is set to **variable**, these buttons will increase/decrease the volume of the Audio Network Server output. For more information, see **Advanced Settings** on page 26.

**9** **Output button**

Press the **Output** button to display what music is playing on the currently selected output.

In certain situations, pressing the output button for a second time will select the next output in sequence. This function is enabled by an optional future software upgrade.

**10** **(Cancel) button**

The **Cancel** button is an action key - on some menu screens this is used to cancel an operation which you no longer wish to continue.

**11** **i (Info) button**

The **Info** button is an action key - on some menu screens this is used to display additional information which may not be currently displayed; on other menu screens it may also be used to edit text on the screen.

**12** **(Home) button**

The **Home** button is an action key - it can be used to return to the top page of a particular function. For instance, if you are browsing the music library and you wish to look for a different album you may use the **home** button to return to the main **Library** menu.

**13** **Menu button**

The **Menu** button is an action key - pressing this key will always return the TV screen and front panel to the **Main Menu**. Use this button if you wish to start a new operation.

**14** **Navigation ^, v, <, > buttons**

The navigation buttons are used to move up, down, left, or right through the menu pages.

**15** **Select button**

**Select** is used to activate the currently highlighted option. When browsing the **library** this key will start playback of the selected item.

**16** **Album button**

The **Album** button can be used to jump to the album list in the music library.

**17** **Playlist button**

The **Playlist** button can be used to jump to the playlist list in the music library.

**18** **Artist button**

The **Artist** button can be used to jump to the artist list in the music library.

## Controls and Connections

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### 19 Genre button

The **Genre** button can be used to jump to the genre list in the music library.

### 20 Numeric (0 to 9) buttons

The numeric keys can be used as follows:

- When browsing the track list, these buttons allow you specify the track you wish to play.
- In the music library you may jump to an item in the list that begins with one of the letters specified at the top of each key.
- In text entry mode these keys can be used as an alphanumeric key pad (similar to a mobile phone).

### 21 ↔ (Random) (DELETE) button

The **Random** button has the following functions:

- During playback this button toggles the random play setting on the Audio Network Server.
- In text entry mode this button can be used to delete characters.

### 22 ↻ (Repeat) (CAPS) button

The **Repeat** button has the following functions:

- During playback this button toggles the repeat play setting on the Audio Network Server.
- In text entry mode this button can be used to toggle between upper case and lower case letters.

### 23 ■ (Stop) button

During playback the **Stop** button halts playback on the currently selected output of the Audio Network Server.

### 24 ▶ (Play) button

The **Play** button can be used to resume playback on the currently selected output of the Audio Network Server.

### 25 ● (Record) button

The **Record** button is an action key - on some menu screens you can use this button to begin a recording from the CD inside the unit; when managing playlists this button is also used to create new playlists or add tracks to an existing playlist.

### 26 ▶▶ / ▶ button

When the button is pressed briefly during playback, play restarts at the beginning of the next track. When the button is held for a longer period of time, the music will fast forward at high speed.

### 27 ◀◀ / ◀ button

When the button is pressed briefly during playback, play restarts at the beginning of the current track. A second brief press moves to the beginning of the previous track. When the button is held for a longer period of time the music will rewind at high speed.

### 28 || (Pause) button

Press the **Pause** button to interrupt playback temporarily.

# Controls and Connections

## Reassigning volume control when using the Audio Network Server.

If the volume of the Audio Network Server is set to **fixed**, the **▲** and **⊗ Mute** keys will not function (for more information on volume output settings see **Advanced Settings** on page 26). These buttons may therefore be configured to control the volume on your amplifier while the **HDD Audio** device is selected. To re-configure these keys:

- Ensure that the Amp device is correctly configured to control your amplifier (as shown above).
- Press the **HDD Audio** and **☑ Select** buttons simultaneously; hold them down for 1 second.

The **HDD Audio** button will remain lit for 20 seconds; the configuration process must be completed during this time.

- Press the **⊗ Mute**.
- Press the **▲ + key**.
- Press the **Amp** device key.

The **HDD Audio** device key will blink twice to indicate that the configuration has been accepted. If the **HDD Audio** button does not blink, begin the process again, taking care to press the buttons in the correct sequence. The **▲** and **⊗ Mute** keys should now control the amplifier when the **HDD Audio** device is selected.

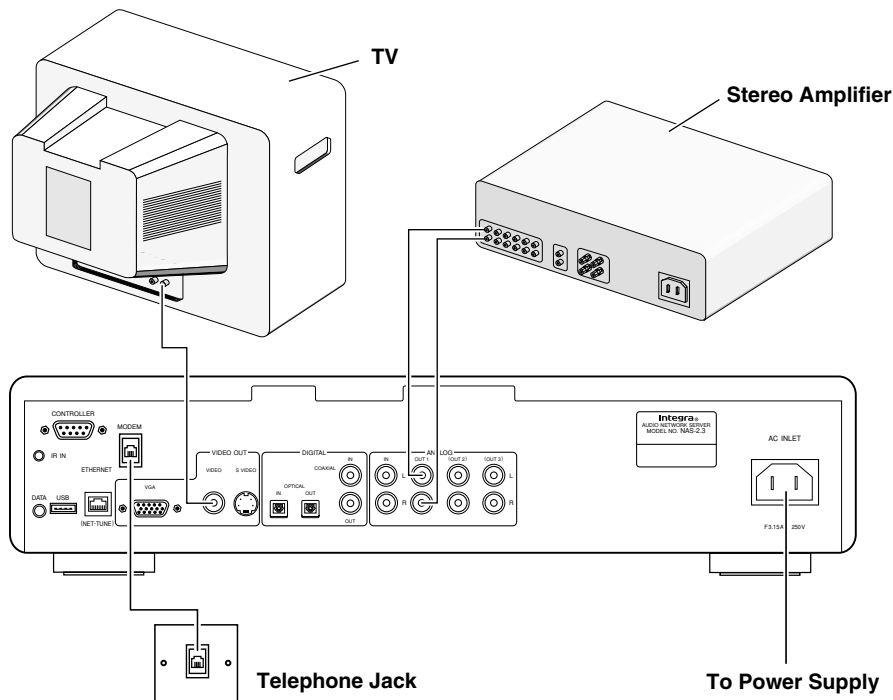
To return the **▲** and **⊗ Mute** keys to their original configuration, repeat the above process, pressing the **HDD Audio** button instead of the **Amp** button.

## Connecting your Audio Network Server

The diagram below illustrates the basic connections required to use your Audio Network Server.

**Note: Do not** make any connections to the Audio Network Server while the power supply is connected and switched on.

- Connect the supplied telephone lead to a standard analog telephone jack. Connect the other end of this lead to the jack marked **MODEM** on the back panel of the Audio Network Server.
- Connect the red plug of the supplied audio cable to the red **ANALOG OUT 1** jack on the back of the Audio Network Server. Connect the adjacent white plug to the white **ANALOG OUT 1** jack on the Audio Network Server. Connect the other end of this cable to the AUX or CD inputs on your amplifier.
- Connect the yellow plug of the supplied TV cable to the yellow **VIDEO OUT VIDEO** jack of the Audio Network Server. Connect the yellow plug to the video input on the rear of your TV.
- Connect the supplied AC power cord to your electrical wall outlet.
- Switch on your television. Select the appropriate video channel to view the Audio Network Server TV User Interface display.



### Basic connections required for Audio Network Server operation

**Note:**  
Digital Outputs cannot be used for making a digital copy of your media.

# Controls and Connections

## Switching on and off

There are two power saving modes available from the **Standby** button on the Audio Network Server front panel and the **Standby** button on the remote control.

If you are not using your Audio Network Server it is strongly recommended that you place the unit into one of the two power saving modes.

### Standby mode

Standby mode should be used when the Audio Network Server is not being used for a short period of time. Putting the unit into standby takes just a few seconds; switching the unit on from standby also takes just a few seconds. **Do not** disconnect the power from the Audio Network Server in this mode.

### Off mode

Off mode should be used when the Audio Network Server is not being used overnight (or for several days). There is a short wait while the unit is switched to off mode; switching the unit on from off mode may take a few minutes. When the unit is in off mode it consumes very little power. You can safely disconnect the power from the Audio Network Server in this mode.

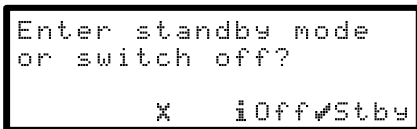
### To enter standby or off mode

- Press the **Standby** key on the front panel or the **Standby** key on the remote control.

The following prompt is displayed:



The front panel display shows:



Either:

- Press the **Stby** action key on the front panel or the **Select** key on the remote control to switch to standby.

After a short delay the TV screen shows:



Or:

- Press the **Off** action key on the front panel or the **i** key on the remote control to switch to off mode.

After a short period of time the TV display and front panel display will switch off.

### To switch on from standby or off mode

- Press the **Standby** key on the front panel or the **Standby** key on the remote control.

## TV screen and front panel display

The following diagram shows the key features of a typical Audio Network Server TV screen and front panel display:



- Indicates the title of the current screen.
- Title of the current selection, shown highlighted on the TV screen.
- Indicates that you can use the **^** or **v** keys to browse up and down the current menu list.
- Indicates that you can press the **>** key to look inside the currently selected item, such as to show the tracks in an album, or the albums by an artist or in a genre.
- Action keys available from the current menu for selection or navigation.

## Controls and Connections

### Using the Audio Network Server action keys

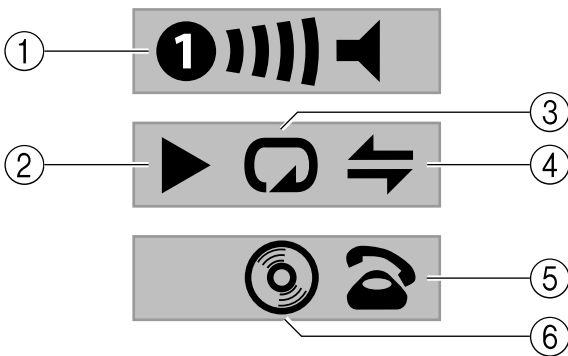
The front panel of your Audio Network Server has four “action” keys located underneath the main display. The function of these keys changes depending on which menu you are currently viewing. The available actions are shown on the bottom line of the front panel display. In the example above, the functions **Menu**, **Open**, **Info**, and **Play** are available; next to each option is a symbol indicating where a key on the Audio Network Server remote control may be used instead of pressing the action key. By default:

- **i** corresponds to an **information** action
- **X** corresponds to a **cancel** action
- **✓** corresponds to a **select** action

The TV screen also displays these actions as well as other actions available on the Audio Network Server remote control.

### Audio Network Server status icons

The TV display shows the current status of the Audio Network Server using a series of icons as shown below:



1. Indicates the default output of the remote current in control of the TV user interface (this will always indicate “1” unless an optional future software upgrade has been applied to your unit). The bar to the right shows how long the user has before the TV interface is available for other users to access. A green circle indicates that infrared is being received from the controlling remote. A red circle indicates that infrared is being received from a remote with a different default output and will be rejected until the interface is available again. A yellow circle indicates that infrared is being received and no update is required on the TV user interface.
2. Indicates the playback status. (e.g. play, stop, pause, etc.)
3. Indicates whether repeat is enabled.
4. Indicates whether random is enabled.
5. When the handset is lifted the unit is online, when the handset is on top of the telephone the unit is offline.
6. Indicates that a disc is inside the CD tray.

## Registering your Audio Network Server

Before using your Audio Network Server you should spend some time registering your purchase. This enables you to receive technical support as well as software upgrades.

### To register your Audio Network Server

- When the welcome screen is first displayed, press the **✓ Select** key on the remote control or the **Regstr** action key on the front panel.



The following registration screen will be displayed:



The same information is also shown on the front panel display.

- Press the **✓ Select** key on your remote control or the **Cont.** action key on the front panel to display the first registration screen:



# Registering your Audio Network Server

## To use the alphanumeric keypad

As part of the registration process you will need to enter your name and address into the Audio Network Server. You can do this using the following keys on the remote control:

Action	How
Enter Text	Use the alphanumeric keys on the remote control. For example, to type an <b>S</b> press the <b>7</b> key four times.
Switch between entering upper case or lower case letters	Press the action key labeled <b>Caps</b> or the <b>↻CAPS</b> key on the remote control.
Enter a space	Press the <b>0</b> key.
Delete a mistake	Press the <b>↵DELETE</b> key on the remote control.
Move the cursor within the text	Press the <b>&lt;</b> or <b>&gt;</b> keys.

Alternatively, you can use the built-in alphanumeric **grid** to enter details:

- Press the **∨** key to move the cursor onto the grid, then use the **<**, **>**, **∨**, and **∧** keys to highlight characters, and the **☑Select** key to select them.
- Use the **∧** key repeatedly to move the cursor back into the text entry box to return to normal text entry mode.

When you have completed each entry:

- Press the **Next** action key on the front panel or the **i** button on the remote.

When you have entered your name and address details you will be prompted to select your country:



- Press the **∧** or **∨** keys to highlight your country and press the **☑Select** key on the remote or the **✓** action key on the front panel.

## To connect your Audio Network Server to an Internet Account

The next sequence of screens helps you connect your Audio Network Server to the Internet.

- Press the **Cont.** action key on the front panel or the **☑Select** key on the remote to begin.

The following screen then allows you to select from a range of options to set up your internet connection:



- Press the **∨** or **∧** keys to select between the following options:

### 1. Using the built-in Internet account

Your Audio Network Server will connect using a pre-installed internet account for your country.

**Note:** The built-in Internet account may not be available for your country.

### 2. Using your existing Internet account

If you are already using a computer to connect to the Internet via a telephone line, and you have an existing Internet account, you may prefer to use these account details for your Audio Network Server. If you do not know your user name, password, and Internet account telephone number you may be able to read these from your computer's settings; otherwise contact your Internet Service Provider for assistance.

**Note:** AOL and Compuserve accounts are not currently supported.

### 3. Do not connect to the Internet

You should use this option if you do not presently have access to a telephone line (you may set up a connection later).

- Press the **✓** action key on the front panel or the **☑Select** key on the remote to select the option you have chosen.

If you have selected **Use built-in Internet Account**, read the terms and conditions and press the **Accept** action key on the front panel or the **☑Select** key on the remote control to continue.

If you have selected **Use your existing Internet account**, follow the on-screen instructions to enter your account user name, password, and the telephone number of your service provider.

## Registering your Audio Network Server

The Audio Network Server will then attempt to connect to the Internet to send your registration details to Integra.



Before proceeding, check that you have connected your Audio Network Server to a telephone line using the supplied lead.

- Press the **Regstr** action key on the front panel or the  **Select** button on the remote control.

The following screen confirms that registration was successful and your Internet account is operating successfully:



- Press the **Cont** action key on the front panel or the  **Select** button on the remote control to continue.

Registration is now complete and the **Main Menu** will be displayed. If the Audio Network Server is unable to successfully connect to the Internet, you will be given further details on how to connect to the Internet later.

## The Audio Network Server Main Menu

To display the **Main Menu** at any time during normal operation:

- Press the  **Menu** action key.

The **Main Menu** will be displayed on the TV screen and on the front panel display.



### To select an option from the main menu

- Press the **^** or **v** key on the front panel or Audio Network Server remote control to step between the main menu options. The current option is shown highlighted.
- Press the  **Select** button to select the current option.

The options are as follows:

Option	Description
Register	Connects to the Internet and registers your Audio Network Server with Integra
Library	Allows you to select the music you want to play by album, artist, genre, or playlist. You may also edit the names of the music stored on the Hard Disk.
CD	Allows you to play a CD or record new music to the Hard Disk.
Settings	Allows you to configure your Audio Network Server settings.
Look Up	This option allows you to retrieve any missing CD information from the Internet.
Disconnect	Interrupts any online activity and releases the telephone line.

More information about each of these functions is given in the following chapters.

# Recording Music

Your Audio Network Server allows you to record music from CDs and add it to the music library stored on the Hard Disk. It is also able to access the Internet, either through a broadband connection (using the Ethernet port) or using the built-in modem. Each time you record a CD, the Audio Network Server allows you to automatically retrieve the album name, artist name, track names, and music genre using the Gracenote CDDDB Music Recognition Service. An album cover illustration is also often available from the XiVA on-line service.

If you do not provide an Internet connection you can label the CDs you record manually.

## Recording from a CD

- Press the **Open/Close** key on the front panel to open the CD tray.
- Place a CD in the tray.
- Push the **Open/Close** key on the front panel.

The following prompt is automatically displayed:



- Press the  **Record** action key to record the album onto the Hard Disk.

**Note:** If you already have a CD in the tray, select the **CD** option from the **Main Menu** to display the contents of the disc; press the  **Rec. CD** to begin recording.

The following display then allows you to choose whether to do an auto (one-touch) recording of the entire CD, or a custom recording which allows you to select the tracks you want to record and the recording quality:



## To make an automatic (one-touch) CD recording

- Press the  **Auto** key.

An **Auto** recording will automatically look up the track and artist information on the Gracenote CDDDB Music Recognition Service and the album cover illustration on the XiVA online service, and then record all the tracks on the album.

The quality of the recording is specified in the **Settings** menu (under **Default Recording Quality**). For more information on the settings menu see **Advanced Settings** on page 26.

Once recording has begun your Audio Network Server will connect to the Internet to retrieve the CD information:



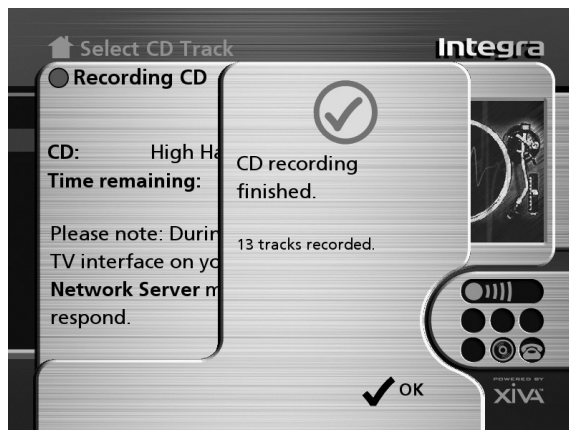
Once the search has been completed you will receive a confirmation to tell you if the CD has been found.

- Press the  **OK** key to continue.

The following display shows the approximate progress of the recording:



Once recording is complete the following screen confirms how many tracks have been successfully recorded.



# Recording Music

## To make a custom CD recording

The custom recording option lets you choose which tracks to record, the sound quality of the recording, and allows you to enter album information.

To make a custom recording:

- Choose **i Custom** from the “Please select Auto or Custom record” screen.

A series of screens allows you to specify each of the recording options.

### Tracks

The **tracks** menu lets you specify which tracks you want to record:



Initially all tracks are selected, as indicated by a ✓ in front of the track number.

- Press the ✓ **Select** key to unselect or select the highlighted track.
- Press the ^ or v keys to step between tracks.
- Press the ✕ **None/All** action key to unselect or select all of the tracks, respectively.

When you have specified which tracks you want to record:

- Press the **i Next** key.

### Record Quality

The **Record Quality** menu allows you to specify the recording quality:



- Use the ^ or v keys to choose between **Maximum** (no compression used) or one of the **MP3** compression options.

**Note:** The higher quality options use more space on your Audio Network Server Hard Disk, so you will not be able to record as many CDs.

In each case the display shows the total remaining recording time available at the specified recording quality.

- Press the ✓ **Select** key to confirm your selection.

### CD information

The **CD information** screen allows you to choose how to enter the album name, artist name, genre, and tracks:



If you select **Enter Information Later** you can download the CD Information for all the CDs you have recorded by choosing **Look Up** from the **Main Menu** at a later time.

If you select **Manually enter now** a series of menus prompts you to enter the album name, artist name, and track titles:



- Edit the album and artist name using the alphanumeric keys on your Audio Network Server remote control, or by using the text **grid** on the front panel.

For more information about entering and editing names see **Entering and editing names** on page 25.

After entering the album name and artist name, you will be prompted to select a genre:

- Select a genre using the ^ and v keys.
- Press the ✓ **Select** action key to confirm your choice.

You will finally be prompted to enter the track titles.

- Edit each track title in the usual way, and press the **i Next** key once each title is complete.
- Once all the entries are complete, recording will start automatically.

## Recording Music

If you select **Automatically enter now**, your Audio Network Server will attempt to retrieve the correct CD information from both the Gracenote CDDB Service and the XiVA™ online service. You will receive confirmation if this search has been successful once the connection is complete. For information about setting up the Internet connection see **Registering your Audio Network Server** on page 14.

If you do not have an Internet connection, or the CD is not listed in the database, it will be given names such as Album 35, Artist 21, and Track 1, Track 2, etc. and it will be classified in genre **Unclassifiable**.

### CD-Text Support

If the CD you have inserted contains CD-Text information your Audio Network Server will use this information to label the recording appropriately.

### Listening to music while recording a CD

You can play music from your music library while you are recording a CD.

- If you are already playing music from the library, press the **Output** action key to return to displaying information about the track you are playing.
- If you are not already playing music from the library, or wish to change the music you are listening to, press the **Menu** key on the Audio Network Server remote control and select music as normal.

For more information on selecting music for playback see **Playing Music** on this page.

At any time you can return to see the progress of your recording by selecting **CD** from the **Main Menu**.

**Note:** During the recording process the update of the TV display may be slightly slower.

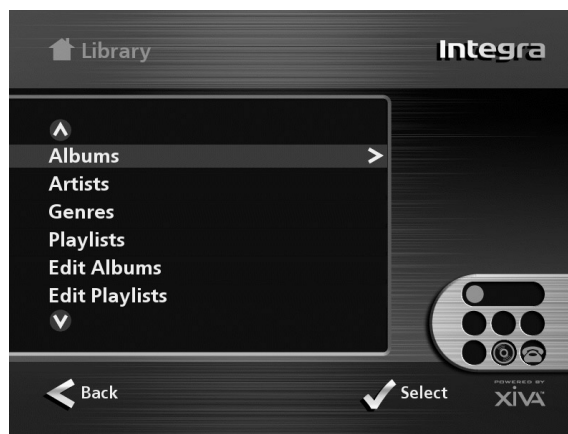
## Playing Music

This chapter explains how to play music on your Audio Network Server. It also explains how to search for a track in a number of alternative ways.

### Playing music from the library

- Display the **Main Menu** by pressing the **Menu** action key on your Audio Network Server remote control.
- If necessary use the **^** or **v** keys to highlight **Library**.
- Press the **✓ Select** key.

The **Library** menu will be displayed. This lets you choose how you want to browse your music collection:



Option	Description
Albums	Display a list of albums in the library sorted alphabetically by album title.
Artists	Display your music library grouped by artist name.
Genres	Display your music library grouped by genre.
Playlist	Display a complete list of custom playlists.
Edit Albums	Edit the album title, artist name, genre, or track name of existing music in your library.
Edit Playlists	Use this option to create and edit custom playlists.

Alternatively you can display the contents of a category directly by pressing the **Album**, **Artist**, **Genre**, and **Playlist** keys on your Audio Network Server remote control.

### To browse the library by album

Either:

- Use the **^** or **v** keys if necessary to highlight the **Albums** option in the **Library** Menu.
- Press the **✓ Select** action key to confirm your selection.
- or:
- Press the **Album** key on your Audio Network Server remote control.

# Playing Music

The front panel display and TV screen both display the albums available in your library:



- Press the  $\wedge$  or  $\vee$  keys to step between albums, or press the appropriate letter on your Audio Network Server remote control to jump directly to that position in the list.

### To play the entire album

- Press the  $\checkmark$  **Play** action key to begin playback.

### To select a particular track from this album

- Press the  $\triangleright$  **Open** key to open the album and display the tracks it contains.
- Use the  $\wedge$  or  $\vee$  keys to step between tracks, or press a key on the alphanumeric keypad to jump to that track number.
- Press the  $\checkmark$  **Play** action key to play the currently selected track.
- Press the  $\leftarrow$  key to return to browsing by album.

### To browse the library by artist

Either:

- Use the  $\wedge$  or  $\vee$  keys if necessary to highlight the **Artists** option in the **Library** menu.
  - Press the  $\checkmark$  **Select** action key to confirm your selection.
- or:
- Press the **Artist** key on your Audio Network Server remote control.

The front panel display and TV screen both display the artists available in your library:



Artists are displayed in alphabetical order.

- Press the  $\wedge$  or  $\vee$  keys to step between artists, or press the appropriate letter on your remote control to jump directly to the item in the list beginning with that letter.

### To play all albums by the selected artist

- Press the  $\checkmark$  **Play** key to begin playback.

### To play a particular album by the selected artist

- Press the  $\triangleright$  **Open** key to display all the available albums by the selected artist.

- Use the  $\wedge$  or  $\vee$  keys to step between albums.

Either:

- Press the  $\checkmark$  **Play** action key to play the currently selected album.

Or:

- Press the  $\triangleright$  **Open** key again to select a track from within this album.

Or:

- Press the  $\leftarrow$  key to return to browsing by artist.

### To browse the library by genre

Either:

- Use the  $\wedge$  or  $\vee$  keys if necessary to highlight the **Genres** option in the **Library** menu.

- Press the  $\checkmark$  **Select** action key to confirm your selection.

or:

- Press the **Genre** key on your Audio Network Server remote control.

The front panel and TV screen both display the genres available in your library:



- Press the  $\wedge$  or  $\vee$  keys to step between genres.

### To play all albums in a selected genre

- Press the  $\checkmark$  **Play** key to begin playback.

### To play a particular album from the selected genre

- Press the  $\triangleright$  **Open** key to display all the available albums in the selected genre.

- Use the  $\wedge$  or  $\vee$  keys to step between albums.

Either:

- Press the  $\checkmark$  **Play** action key to play the currently selected album.

Or:

- Press the  $\triangleright$  **Open** key again to select a track from within this album.

Or:

- Press the  $\leftarrow$  key to return to browsing by genre.

# Playing Music

## To Browse the library by playlist

Playlists allow you to create your own selections of tracks and save them with a name of your choice such as *Party Music*. For more information about creating a playlist see **Creating a new Playlist** on page 23.

Either:

- Use the **^** or **v** keys if necessary to highlight the **Playlists** option in the **Library** menu.
- Press the **✓ Select** action key to confirm your selection.

or:

- Press the **Playlist** key on your Audio Network Server remote control.

The front panel and TV screen both display the Playlists available in your library:



**Note:** If you have not yet created any playlists the list will be empty.

- Press the **^** or **v** keys to step between playlists, or press the appropriate letter on your Audio Network Server remote control to jump directly to the item in the list beginning with that letter.
- Press the **✓ Play** key to begin playback.

## Selecting items directly using your Audio Network Server remote control

You can select an album, artist, genre, or playlist directly by the first letter of its title using the alphanumeric keypad on your Audio Network Server remote control.

### To select an album, artist, genre, or playlist by name

- Display the appropriate library menu for the item you want to find (e.g., **Select Artist** menu).
- Press the alphanumeric keypad key corresponding to the *first* letter of the item you want to select.

For example, to find the artist *Santessa* press the **Artist** key to display the **Select Artist** menu, then press the **7** key four times because S is the fourth letter on the **7** key. The front panel and TV screen show the first artist beginning with the letter S.

If there are several artists beginning with the letter S, press the **v** key to step through until you find the artist you are looking for.

### To select a track by number

- Display the list of tracks in the album or playlist.
- Press the key on the alphanumeric keypad corresponding to the track number you want to select.

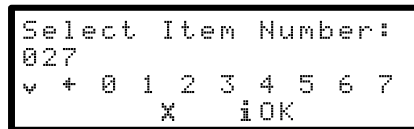
## Selecting an album by number

Each album you have recorded onto the Hard Disk of your Audio Network Server is allocated a sequence number, from zero upwards. If you know the number of the album you want to listen to, you can select it directly by number using the alphanumeric keys on your Audio Network Server remote control.

- Press the **Album** button to display the albums in your library.
- Press the **0** key followed by the number of the album.

For example, to select album 27 press **ALBUM, 0, 2, 7**.

The front panel displays:



- Press the **iOK** action key to finish entering the album number.
- Press the **✓ Play** action key once again to begin playing the album.

## Playing music from a CD

Your Audio Network Server allows you to play a CD directly without recording it to the Hard Disk first.

To play a disc:

- Press the **Open/Close** key on the front panel to open the CD tray.
- Place a CD in the tray with the label side facing upwards.
- Push the **Open/Close** key on the front panel.

The following prompt is automatically displayed:



Alternatively, if you already have a CD in the tray, select the **CD** option from the **Main Menu**.

- Press the **✓ Play** action key to begin playing the CD.

# Playing Music

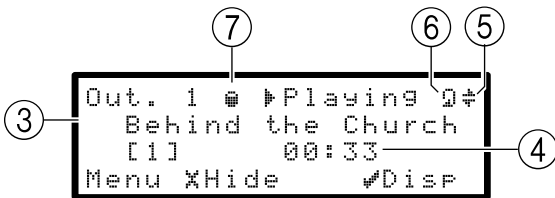
## Playback information

### The output screen

Whenever you select an item for playback the following screen is displayed:



The front panel displays:



1. Indicates the title of the album.
2. Indicates the title of the artist.
3. Indicates the name of the track currently playing.
4. Displays either track time or time remaining for the current track.
5. Indicates that random playback is enabled.
6. Indicates that repeat playback is enabled.
7. Indicates that the unit is playing from an item in the Hard Disk library.

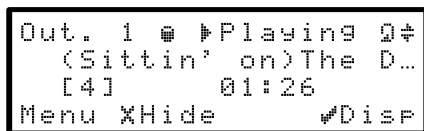
You can display the output screen at any time by pressing the **Output** key.

### To change the displayed information

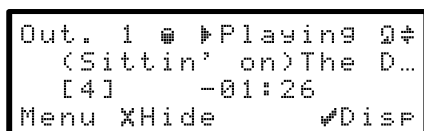
You can choose what information is displayed on the TV screen and front panel display while playing;

- Press the **Display** action key to step between the following four options:

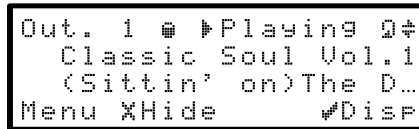
Track name, track number, and elapsed time for the current track:



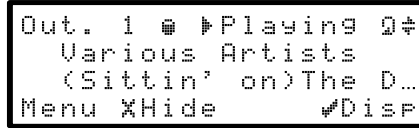
Track name, track number, and time remaining for the current track:



Album name and track name:



Artist name and track name:



## Controlling playback

Whether you are playing music from the library or directly from the CD you can pause, stop and resume playback as well as seek and skip tracks at any time.

### To pause play

- Press the **Pause** key on the front panel or your Audio Network Server remote control.

### To stop play

- Press the **Stop** key on the front panel or your Audio Network Server remote control.

### To resume play

- Press the **Play** key on the front panel or your Audio Network Server remote control.

### To skip to the next or previous track

- Press the **Next** or **Previous** key on the front panel or your Audio Network Server remote control.

The front panel display shows the number of each track as you skip between them.

### To seek within a track

- Hold down the **Fast Forward** or **Fast Reverse** key on the front panel or your Audio Network Server remote control.

Play resumes from the new position when you release the key.

## Random and repeat playback

Your Audio Network Server lets you play albums, artists, genres, or playlists in a random order to add variety to your music. You can also play a selection repeatedly.

### To randomize the current selection

- Press the **Random** key on your Audio Network Server remote control. Press the **Random** key again to disable random playback.

### To repeat the current selection

- Press the **Repeat** key on your Audio Network Server remote control. Press the **Repeat** key again to disable repeat playback.

The front panel and TV screen both indicate that random and repeat are enabled.

# Organizing your Music Collection

This chapter describes the features built into your Audio Network Server to help you organize the music in your music library, including information about creating playlists of your favorite tracks, deleting albums or tracks you no longer want to store, and naming albums, tracks, and artists.

## Using Playlists

Your Audio Network Server allows you to create your own selections of tracks, called playlists, and identify them with a name of your choice. For example, you could select your favorite party tracks from a number of different albums and include them in a playlist called Party Music. You can then play your selection simply by choosing the appropriate playlist from the **Select Playlist** menu.

### Creating a new playlist

- Display the **Main Menu** by pressing the **Menu** key on your Audio Network Server remote control.
- Press the **^** or **v** key to highlight the **Library** option and press the **✓ Select** action key.
- Press the **^** or **v** key to highlight the **Edit Playlists** option and press the **✓ Select** action key.

The existing playlists will be displayed:



If you have not previously created a playlist this list will be empty.

- Press the **□ New** key to create a new playlist.
- The following menu then allows you to enter a name for the playlist:



- Enter a name for the playlist using the alphanumeric keys on your Audio Network Server remote control or using the **grid**.

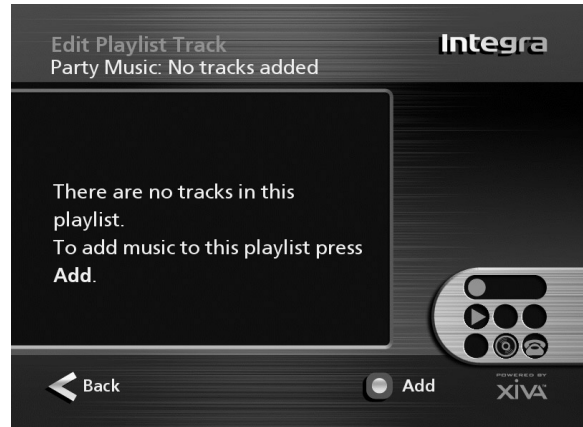
For more information about entering names see **Entering and editing names** on page 25.

- Press the **i OK** action key to confirm the name you have entered.

### To select items for a playlist

- Press the **^** or **v** key to highlight the **Edit Tracks** option and press the **✓ Select** action key.

You will then be prompted to select the items that you want to include in the playlist:



- Press the **□ Add** action key.

The **Add Music Menu** then lets you browse through the music library to select the first item you want to add to the playlist.

You can add whole albums, complete genres, all the albums by a selected artist, another playlist, or individual tracks. For more information on browsing the music library refer to **Playing Music from the Library** on page 19.

When you have located the album, genre, artist, playlist, or track you want to add:

- Press the **✓ Add** action key to add it to the playlist.



- Press the **✓ OK** action key to continue.

### When you have finished compiling the playlist:

- Press the **□ Done** action key to finish adding tracks.
- Press **✓ OK** to confirm your action.

# Organizing your Music Collection

The tracks you have added will be shown in the playlist:



## Editing a playlist

You can change a playlist at any stage by adding items, deleting tracks, or changing position of tracks in the playlist.

### To add items to a playlist

Either:

- Select the playlist you want to change from the **Select Playlist** menu in the library.
- Press the **i Info** action key to display the **Playlist Information** menu.
- Use the **^** or **v** keys to highlight the **Edit tracks** option and press the **✓ Select** action key.

Or:

- Select **Edit Playlists** from the **Library menu** and highlight the playlist you want to change.
- Press the **✓ Select** action key to open the playlist for editing.
- Use the **^** or **v** keys to highlight the **Edit tracks** option and press the **✓ Select** action key.

Once you have selected the appropriate playlist:

- Press the **□ Add** action key to add new tracks, and locate the item you want to add by browsing through the music library.

### To remove a track from a playlist

- Open the playlist as previously described.
- Press the **^** or **v** keys to highlight the track you want to remove.
- Press the **✕ Remove** action key to remove the track.
- Press the **✓ Remove** action key to confirm your choice.

### To change the position of a track within a playlist

- Open the playlist as previously described.
- Press the **^** or **v** keys to highlight the track you want to change.
- Press the **i Move** action key to move the track.
- Press the **^** or **v** keys to move the track up or down as required.
- Press the **✓ Store** key to confirm the new track position.

## Using albums

Your Audio Network Server labels the albums, artists and tracks in your music library with names which identify the track you are listening to, and these help you locate items when you are browsing through the library.

If you have an Internet connection, your Audio Network Server reads the CD information automatically from the Gracenote CDDB Music Recognition Service. You can edit these names at any stage to suit your own preferences.

### To edit album information

- Display the **Main Menu** by pressing the **☰ Menu** key on your Audio Network Server remote control.
- Press the **^** or **v** key to highlight the **Library** option and press the **✓ Select** action key.

Either:

- Press the **^** or **v** key to highlight the **Edit albums** option and press the **✓ Select** action key.
- Select the album you want to edit and press the **✓ Select** action key.

Or:

- Press the **^** or **v** key to highlight the **Albums** option and press the **✓ Select** action key.
- Select the album you want to edit and press the **i Info** action key.

The following menu allows you to choose information to edit:



- Select the item you want to edit and press the **i Edit** action key.
- See the following section **Entering and Editing Names** on page 25 to enter a new name.

# Organizing your Music Collection

## Deleting albums, tracks or playlists

You can delete albums, tracks or playlists you no longer want from your Audio Network Server library.

- Display the **Main Menu** by pressing the **Menu** key on your Audio Network Server remote control.
- Press the **^** or **v** key to highlight the **Library** option and press the **✓ Select** action key.
- Press the **^** or **v** key to highlight either the **Edit Playlists** or **Edit Albums** option and press the **✓ Select** action key.
- Locate the album, playlist or track you want to delete.
- Press the **✕ Delete** action key to delete it.



- If you are sure you want to delete the item, press the **✓ Delete** action key again to complete the operation.

**Note:** This operation will permanently remove information from your Hard Disk; you will need to re-record the album if you delete tracks or albums accidentally. However, deleting a playlist does not remove any music from the Hard Disk - the original albums are unaffected.

## Entering and editing names

You can enter a new name or edit an existing name on your Audio Network Server using either of the following methods:

### To enter text using the alphanumeric keypad

- Press the **>** or **<** keys to move the cursor to the required position.
- Use the keys on the alphanumeric keypad to enter a letter.

For example to enter S press the **7** key four times, because S is the fourth letter on the **7** key.

- Press the **DELETE** key on your Audio Network Server remote control to delete letters.
- Press the **CAPS** key on either the front panel or your Audio Network Server remote control to switch between upper case and lower case letters.

### To select letters from a grid

Alternatively, the **Grid** option provides a convenient way of selecting letters from a grid:

- Press the **v** key to move the cursor into the grid area.

The currently selected letter is highlighted:



- Use the **>**, **<**, **^** or **v** keys to move the cursor and press the **✓ Select** action key to enter each letter.
- Use the **CAPS** key on either the front panel or the Audio Network Server remote to switch between upper and lower case letters.

If at any time you need to enter text in a different part of the text field, or you want to return to entering text using the alphanumeric keypad:

- Press the **^** key repeatedly until the cursor returns to the text field.

Finally, when you have finished entering the name:

- Press the **i OK** action key.

# Advanced Settings

This chapter describes the advanced settings that you can access from your Audio Network Server's **Settings Menu**. These settings are configured automatically for you when you register your Audio Network Server, and you should not normally need to alter them unless you want to change the configuration of your system.

## To display the Settings Menu

- Display the Main Menu by pressing the **Menu** key on your Audio Network Server remote control.
- Press the **^** or **v** key to highlight the **Settings** option on the **Main Menu**.
- Press the **✓ Select** action key to display the **Settings** menu:



The following sections describe each of the options on the **Settings** menu.

## Registration Details

Displays the registration details you entered when you registered your Audio Network Server, and allows you to edit them:



If you change any of these details you will be given the opportunity to re-transmit your updated registration information.

## Internet Account

Displays your Internet account details and allows you to edit them:



If you chose the **Use Built-in Internet Account** option when registering your Audio Network Server, the Internet account details were set up automatically for you.

## Terms and Conditions

Displays the sequence of terms and conditions screens that were displayed during registration, and allows you to decline or accept the following options:

- Whether you want to receive information on other Integra products and services.
- Whether you want to receive information about music and other related products from reputable organizations.

If you change your acceptance of any of these options you should re-register to transmit your new preferences.

## Default Recording Quality

Allows you to specify the recording quality used when you record music using the **Auto** record option:



For each quality setting the screen shows the number of hours of recording time available at that setting.

## Language

Allows you to select the language for the TV user interface - languages available are English, French, German, Italian, and Spanish.

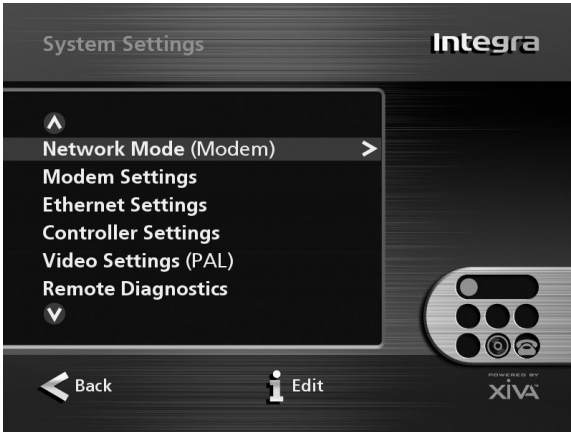
## System Information

Shows the serial number, production date, and software version number of your Audio Network Server. You may need to quote these if you contact Integra/Onkyo for technical support.

# Advanced Settings

## System Settings

Provides a series of menus to allow you to change the hardware configuration on your Audio Network Server:



The following table summarizes the settings available on each of the **System Settings** menus:

Option	Description
<b>Network Mode</b>	Specifies whether your Audio Network Server connects to the Internet via the built-in modem or the Ethernet port.
<b>Modem Settings</b>	Allows you to specify the following settings when connecting via the built-in modem: number of connection retries, the Assigned IP address and the Server IP address, the modem initialization string, and whether to use tone or pulse dialing.
<b>Ethernet Settings</b>	Allows you to specify the following settings when connecting via the Ethernet port: IP address mode, IP address, IP Mask, Gateway, IP DNS1, IP DNS2. (For more information about Ethernet Settings, see <b>Using your Audio Network Server with Net-Tune Network Clients</b> on page 28.)
<b>Controller Settings</b>	Specifies the communication speed for the <b>Controller</b> port on the rear of the unit.
<b>Video Settings</b>	Specifies whether the unit is configured for PAL, NTSC, or VGA use.
<b>Remote Diagnostics</b>	Select this option if instructed to set up your modem to receive incoming calls from technical support staff.

## Output Settings

The volume setting of each individual output of the Audio Network Server may be configured as either **variable** or **fixed**. Any changes made to the output settings will only affect the currently selected output (shown on the status icons).

If the volume setting is set to **fixed**, the output level is set to maximum and the balance is set to the central position. In this mode the **▲** and **⊗ Mute** keys on the Audio Network Server remote control do not function\*.

If the volume setting is set to **variable** the output level can be altered at any time using the **▲** and **⊗ Mute** keys on the Audio Network Server remote control. A **Balance** option is also available from the **Volume Settings** menu which allows you to adjust the left/right balance.

**\*Note:** The Audio Network Server remote control can be configured so that when the **HDD Audio** device is selected the **▲** and **⊗ Mute** keys operate the volume and mute controls on an amplifier.

## Upgrade Unit

Select this option when supplied with a XiVA software upgrade disk for your Audio Network Server.

# Using your Audio Network Server with Net-Tune Network Clients

## Net-Tune features

The NAS-2.3 allows you to connect a Network Audio Client such as the NAC-2.3 via an Ethernet connection to enjoy digitally recorded music throughout the home.

Each NAC-2.3 can individually access the Audio Network Server to browse your music collection by album name, artist, genre or custom playlist and listen to both compressed and uncompressed music over the network.

Up to six NAC-2.3 devices can be attached to the Audio Network Server - each simultaneously listening to a different music selection. Music is streamed over the network by Net-Tune - a protocol developed by Onkyo for high speed access to music around the home.

## What is Audio Network Server with Net-Tune System Protocol?

Audio Network Server streams digitally recorded music files over a LAN so that they can be played by NAC-2.3 functionality. One server can stream to multiple units of NAC-2.3 at the same time.

The music streaming service is built on Onkyo's proprietary NTSP protocol, which is an extension to TCP/IP, thereby providing high response times.

## Connecting a Network Client to the Audio Network Server

In order to take full advantage of a Network Audio Client such as the NAC-2.3 with an Audio Network Server you will need the following items:

■ **Modem** (a device that provides Internet connections via leased lines; e.g., a cable modem, xDSL modem, terminal adapter)

\* To have access to the Internet, you typically need to make a contract with an Internet service provider (ISP). Modem requirements differ from ISP to ISP; for detailed information, consult with your ISP or PC retailer.

■ **Router (gateway)** (a device that enables multiple PCs or devices to connect to the Internet simultaneously)

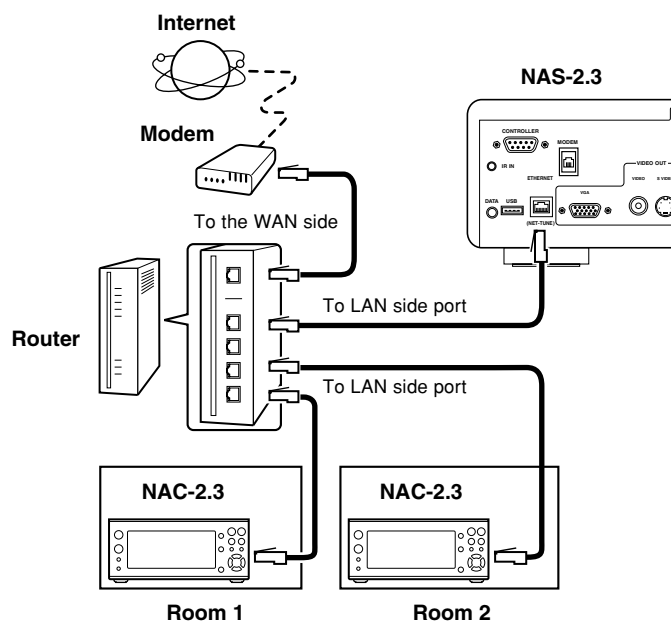
An IP address can be obtained automatically by using the router's DHCP function.

\* Some routers have built-in modem functionality. Router requirements differ from ISP to ISP; for detailed information, consult with your ISP or PC retailer.

■ **Ethernet CAT-5 cable**

■ **Minimum Internet Connection Requirements:**

- Broadband Internet Connection
- DHCP (Dynamic Host Configuration Protocol) based network (requires a DHCP-enabled router)
- 100Base-TX switch built-in broadband router (recommended)




# Using your Audio Network Server with Net-Tune Network Clients

## Ethernet settings

If your broadband router has a DHCP function you should not need to adjust your Ethernet settings as they will be configured automatically for you.

Using the Audio Network Server without a DHCP Server requires some knowledge of configuring networks. See a network specialist for further information.

### To display the Ethernet Settings menu

- Display the Main Menu by pressing the  **Menu** key on your Audio Network Server remote control.
- Press the **^** or **v** key to highlight the **Settings** option on the **Main Menu**.
- Press the **✓ Select** action key to display the **Settings** menu.
- Press the **^** or **v** key to highlight the **System Settings** option on the **Settings** menu.
- Press the **✓ Select** action key to display the **Ethernet Settings** menu.

The following table summarizes the Ethernet settings available:

Option	Description
<b>Mode</b>	With the Mode feature set to <b>DHCP</b> (or <b>BOOTP</b> ), the NAS-2.3 automatically configures all the network settings. This means that you do not have to configure the following IP Address settings. If you do not have a DHCP server available, you should set the Mode to <b>Manual</b> .
<b>IP Address</b>	This setting is only used when the <b>Mode</b> setting above is set to <b>Manual</b> . Enter the number using the alphanumeric keys on the remote controller. Specify the IP address within the following range: CLASS A: 10.0.0.0 to 10.255.255.255 CLASS B: 172.16.0.0 to 172.31.255.255 CLASS C: 192.168.0.0 to 192.168.255.255 Most commonly available routers use the Class C IP address range - you must use this range in order to use the Net-tune system.
<b>IP Mask</b>	This setting is only used when the <b>Mode</b> setting above is set to <b>Manual</b> . Enter the <b>IP mask</b> using the alphanumeric keys on the remote controller.
<b>Gateway</b>	This setting is only used when the <b>Mode</b> setting above is set to <b>Manual</b> . Enter the <b>Gateway</b> address using the alphanumeric keys on the remote controller.
<b>IPDNS1</b>	This setting is only used when the <b>Mode</b> setting above is set to <b>Manual</b> . Enter the <b>IPDNS1</b> address using the alphanumeric keys on the remote controller.
<b>IPDNS2</b>	This setting is only used when the <b>Mode</b> setting above is set to <b>Manual</b> . Enter the <b>IPDNS2</b> address using the alphanumeric keys on the remote controller.

## Other multiroom control systems

Your Audio Network Server is also compatible with a number of leading multiroom control systems. By an optional future software upgrade, it will be capable of playing different music in up to three rooms simultaneously. Also, the Controller port on the rear of the system uses a versatile protocol called **XiVA™-Link** which allows access to most of the Audio Network Server functions remotely.

For information on the **XiVA™-Link** protocol, as well as the latest information on supported systems, please contact your local dealer.

# Getting Help

Your Audio Network Server has been designed to provide years of trouble-free operation. If, however, you need technical assistance above and beyond what is covered in this user guide, we have established the following methods for continued support:

**Before contacting technical service, try the following troubleshooting methods:**

## The front panel display does not light

- Is the power cord plugged in properly at the wall?
- Is the power cord plugged in properly at the back of the unit?
- Does another device operate correctly using this same AC outlet?

## The system seems to be playing but no sound is heard

- Are the amplifier and speakers connected correctly?
- Is the amplifier switched on?
- Is the amplifier's volume control set at the minimum level?
- Is the amplifier's selector switch set to the correct input (e.g. "CD" or "AUX")?
- Which output is the Audio Network Server currently playing on (this is displayed on the TV screen)? Is this the output you have connected to the amplifier?
- Switch the unit to off mode, disconnect the power supply and restart the unit.

## The Audio Network Server TV interface is not visible

- Is the TV switched on? Can other channels be viewed successfully?
- Is the TV switched to the correct AV input?
- Are you using the correct video cable to connect the TV?

## Remote control operation is not possible

- Is the remote control unit's transmitter pointed correctly at the remote sensor on the front of the Audio Network Server?
- Is there an obstruction between the transmitter and the remote sensor?
- Are the batteries in the remote control exhausted?
- Is there another strong light (from a window, etc.) striking the Audio Network Server's remote sensor?

## A CD/CD-R disc cannot be played

- Is the disc placed in upside down?
- Is the disc damaged, dirty, scratched or warped?
- Is the disc a valid audio format CD?
- Some copy-controlled CDs may not conform to official CD standards. They are special discs and may not play on the NAS-2.3.

## Some tracks of the CD cannot be recorded

- Is the disc damaged, dirty, scratched or warped?
- Are the failed tracks valid audio tracks?

## The disc tray does not come out though you have pressed the Open/Close button

- The disc tray may not come out if an error occurs in the CD deck section of the NAS-2.3 with the CD inserted. For example, when the NAS-2.3 tries to play an unplayable CD, the tray may not come out.

In this case, insert the safety pin into the small hole at the lower right of the tray, and then push the pin carefully to open the tray.

# Specifications

## General

System	Hard Disk Based Audio Server
Power requirements	AC 100-240V~ 50Hz/60Hz
Power consumption	44W Max
Weight	17lbs (7.7Kg)
Dimensions (W×H×D)	17-3/16" × 4" × 14-7/16" 437mm × 101mm × 367mm

## Video Outputs

• S-Video output	
Output level	1V <sub>P-P</sub> /75Ω
Connector	S-VIDEO jack
• Composite video output	
Output level	1V <sub>P-P</sub> /75Ω
Connector	RCA jack
• Video Out VGA	
Output level	0.75V <sub>P-P</sub> /75Ω
Connector	15 pin D-type F
Output resolution	800×600

## Audio outputs

• Analog outputs (3 pairs of outputs)*	
Output level	2V <sub>RMS</sub>
Output impedance	600Ω
Connector	RCA jack
• Digital outputs	
Optical digital output	Toslink
Coaxial digital output level	500mV <sub>P-P</sub> /75Ω
Coaxial digital output connector	RCA jack

## Audio inputs\*

• Analog inputs	
Maximum input level	2V <sub>RMS</sub>
Input impedance	10kΩ
Connector	RCA Jack
• Coaxial digital input	
SRC supported frequency	32kHz, 44.1kHz, 48kHz
Maximum input level	500mV <sub>P-P</sub> /75Ω
Connector	RCA Jack

## Analog audio characteristics (typical)

Frequency response	20Hz to 20kHz ±0.5dB
S/N ratio (@ 1KHz)	100dB (A weight)
Dynamic range	better than 96dB
Total harmonic distortion (@ 1kHz)	0.005%
Channel separation (@ 1KHz)	more than 100dB

## Communications

• Modem	
Connector	RJ11 (56kbit/s)
• Ethernet	
Connector	RJ45 (10 Base T/100 Base T)
• Controller	
Connector	9 pin D-type M
• IR input	
Maximum input level	5V
Connector	3.5mm jack
• USB (2 connectors)	
Connector	Type A USB socket

\* To be enabled in a future software release.

### Note:

The specifications and design of this product are subject to change without notice.

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