

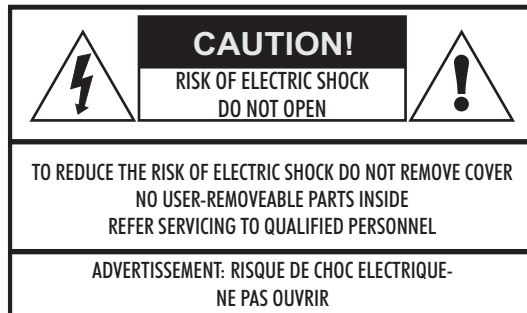


8000AP

User Instructions

audiolab

Statutory & Safety Information



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

IMPORTANT SAFETY INFORMATION

Read these instructions.

Keep these instructions. In the event that you pass the product to a third party this instruction manual should be provided along with the product.

Heed all warnings.

Follow all instructions.

Do not use this apparatus near water.

Clean only with dry cloth.

Do not block any ventilation openings.

Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Use only attachments/accessories specified by the manufacturer.



Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as 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.

Warning: To reduce the risk of fire or electrical shock, do not expose this product to rain or moisture. The product must not be exposed to dripping and splashing and no object filled with liquids such as a vase of flowers should be placed on the product.

No naked flame sources - such as candles - should be placed on the product.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this device.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orientate or re-locate the receiving antenna.
- Increase the separation between the equipment and the 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.

Mains supply and safety

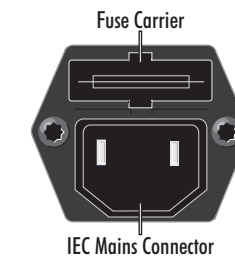


Class II construction double insulated. These products must not be connected to earth.

Power Cord: An AC power cord is normally supplied with a mains plug suitable for your area. If you have any doubts, consult your dealer about obtaining a suitable power cord.

Mains Supply: The mains voltage of Audiolab units is shown on the rear panel. If this does not match the voltage in your area, consult your dealer. The mains supply fuse is on the rear panel. If it has broken, check for any obvious cause before replacing the fuse with one of the correct rating and type. The fuses for all areas are type T (time lag) AL 20mm.

The fuse values are: 220-240V:T1.0A 100-120V: 1.6A



The fuse is located in a slide-in carrier which also contains a spare fuse. The carrier can only be pulled out after the IEC power cord is unplugged. When the carrier is opened the first fuse is the spare. Remove and safely dispose of the blown fuse before replacing it.

Important notice to UK users

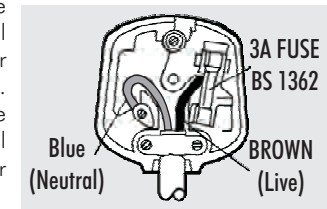
The appliance cord is terminated with a UK approved mains plug fitted with a 3A fuse. If the fuse needs to be replaced, an ASTA or BSI approved BS1362 fuse rated at 3A must be used. If you need to change the mains plug, remove the fuse and dispose of this plug safely immediately after cutting it from the cord.

Connecting a Mains Plug

The wires in the mains lead are coloured in accordance with the code: Blue: NEUTRAL Brown: LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The Blue wire must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The BROWN wire must be connected to the terminal marked with the letter L or coloured BROWN or RED.



Audiolab 8000AP User Manual

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The HDCD system is manufactured under licence from Pacific Microsonics, Inc. This product is covered by one or more of the following patents: USA 5,479,168; 5,638,074; 5,640,161; 5,808,574; 5,838,274; 5,854,600; 5,872,531; Australia 669114. Other patents pending.

Introduction - Players and Formats

DVD Players

There are many DVD players on the market and very many formats - more are added all the time, some useful, many not.

Your existing DVD player will support many formats but almost certainly not all. Equally the Audiolab 8000A supports the vast majority of formats but again, not all although every popular format is supported including most High Definition and audiophile formats. Before using the 8000AP please read your DVD and other digital player handbooks to ascertain which formats your player will support.

A Note on High Definition Players

Blu-Ray and HD-DVD (BD/HD) players will offer some or all of the following formats:

Linear PCM - up to 8 channels of uncompressed audio (LPCM), BD

Dolby Digital 5.1 -channel surround sound.

DTS Digital Surround 5.1 channel surround sound

DTS-HD

DTS-HD Master

Dolby Digital Plus

Dolby True HD

The 8000AP is HDMI 1.2a compliant and HDMI 1.3 compatible and will in most circumstances allow you to enjoy all of the above formats.

Cycling the processor's Mode Key will display all the formats available with the current combination of player and disc. In other words the formats available at any time will depend both on the format support built into your player and the actual disc you are playing.

To play uncompressed Linear PCM: Set your BD/HD player to output PCM (typical player settings are 'Auto' or PCM) From the disc, select either the LPCM, Dolby True HD or DTS-HD Master Audio sound track.

Note. Dolby True HD and DTS-HD Master Audio are "lossless compressed audio formats". In other words they are uncompressed Linear PCM (LPCM) tracks 'zipped up' rather like a .zip file on a computer. The built in codec in your BD/HD player will "un-zip" the file and pass the uncompressed LPCM stream on to the 8000AP.

Audiolab 8000AP Supported Formats

The 8000AP features four types of input: Stereo Analogue: 5.1 analogue: SPDIFdigital (optical and coaxial): HDMI.

All these inputs (with the exception of 5.1 analogue) have processing options. The following lists detail the various options that can be applied to the various inputs. It should be stressed that in the case of digital sources, the more esoteric formats are all optional - all DVD discs offer basic multi-channel processing and the 8000AP caters for all of those.

Analogue Inputs

Encoded Format	Decoding Options <i>Default in Bold</i>
Analogue 2.0 (None or ProLogic)	Stereo PLIIx Movie/Music DTS NEO:6 Cinema/Music
Analogue 5.1 Pass through	None

HDMI Inputs

Encoded Format	Decoding Options <i>Default in Bold</i>
PCM 2 Channel	Stereo PLII(x) Movie/Music
PCM 3-8 Channel	Multi-Channel Stereo Downmix
SPDIF	As SPDIF (below)

SPDIF Digital Inputs - Optical and Coaxial

Encoded Format	Decoding Options <i>Default in Bold</i>
Dolby Digital 5.x + EX	Dolby Digital 5.x Dolby Digital EX Dolby Digital + PLIIx Movie/Music Stereo Downmix
Dolby Digital 5.x	Dolby Digital 5.x Dolby Digital EX Dolby Digital + PLIIx Movie/Music Stereo Downmix
Dolby Digital 2.0 + Surround	Stereo PLII(x) Movie/Music
Dolby Digital 2.0	Stereo PLII(x) Movie/Music
DTS ES (discrete)	DTS ES (discrete) DTS 5.x Stereo Downmix
DTS ES (matrix)	DTS ES (matrix) DTS 5.x Stereo Downmix
DTS	DTS DTS ES (matrix) Stereo Downmix
DTS 2.0	DTS 2.0 DTS NEO:6 Cinema/Music
DTS 96/24	DTS 96/24 (5.x) DTS 96/24 Stereo Downmix
PCM (None or ProLogic)	Stereo PLII(x) Movie/Music DTS NEO:6 Cinema/Music
HDCD	Stereo

1: Preliminaries

Unpacking

Unpack the product fully. The carton should contain:

- The Audiolab 8000AP
- One IEC power cord suitable for your area
- One Remote Handset with two AAA batteries
- This instruction manual.

If any item is missing or damaged report this to your dealer as soon as possible.

Retain the packing for future safe transport of your amplifier. If you dispose of the packing, do so with regard to any recycling regulations in your area.

Placement

Place the processor on a sturdy shelf or table.

The 8000AP is designed to run warm during normal operation - even when put into standby.

Do not place anything on top of the unit. If you are using an equipment rack ensure the 8000AP has sufficient space to allow adequate ventilation and is on its own shelf.

Before you connect the 8000AP to the mains, ensure your mains voltage corresponds to the rating plate on the rear of the product. If in doubt, consult your dealer. If you move house to an area which has a different mains voltage seek advice from an Audiolab appointed dealer or a competent service technician.

Make sure you locate the unit so that the front panel is in view as otherwise the infrared-remote handset will not work.

Before Starting

Your 8000AP's performance is determined by the care you take in setting your system up: not merely the processor but all connected sources, amplification and loudspeakers.

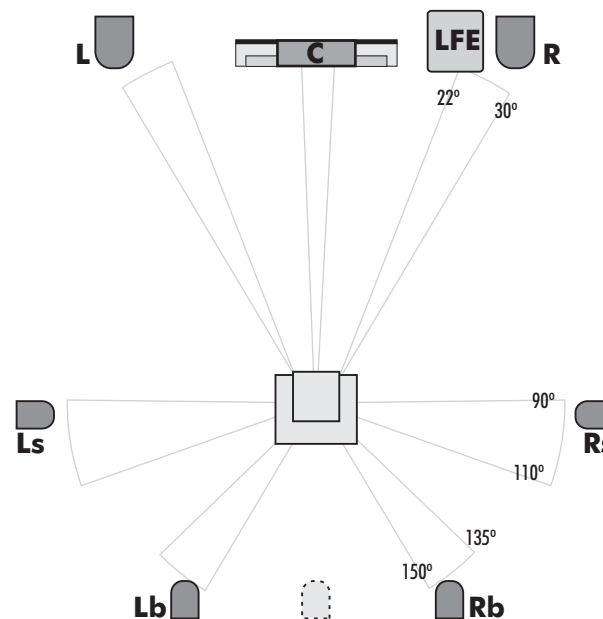
Before setting up your processor, review all the handbooks for your existing equipment and confirm that those items are set up correctly. Have a variety of music and video software on hand - you will need them. You will also need a tape measure, and ideally a sound level (SPL) meter.

Loudspeaker Placement

The 8000AP is a 7.1 channel processor. It allows the connection of seven channels: front left, front centre, front right, surround left, surround right, back left and back right, plus a subwoofer channel.

All speakers (with the exception of the subwoofer) should be arranged around your normal viewing/listening position. Don't worry if you are unable to position your speakers at ideal distances from your preferred listening position, the 8000AP can be set up to take account of different distances. The subwoofer can be placed almost anywhere, but we recommend you experiment to obtain the best result.

Here is the Dolby Labs recommended speaker placement for 7.1 channel reproduction. Speaker placement is important and dependent on room circumstances but this layout is a very good starting point. If you are using a 5.1 or 6.1 layout, adjust accordingly. *(If you are using back channels, we strongly recommend that you use a 7.1 layout with two rear speakers rather than a 6.1 layout which only uses one.)*



Phase

Phase is **critical** in a multi-channel environment. Make sure that your loudspeakers are properly connected.

If you are using different amplifiers:

Some power amplifiers invert the phase - in a mixed system it is just possible that even if all the loudspeakers are properly connected one or more may be out of phase.

All Audiolab power amplifiers are phase coherent so even if you are using different series, the loudspeakers will always be in phase, provided they are properly connected.

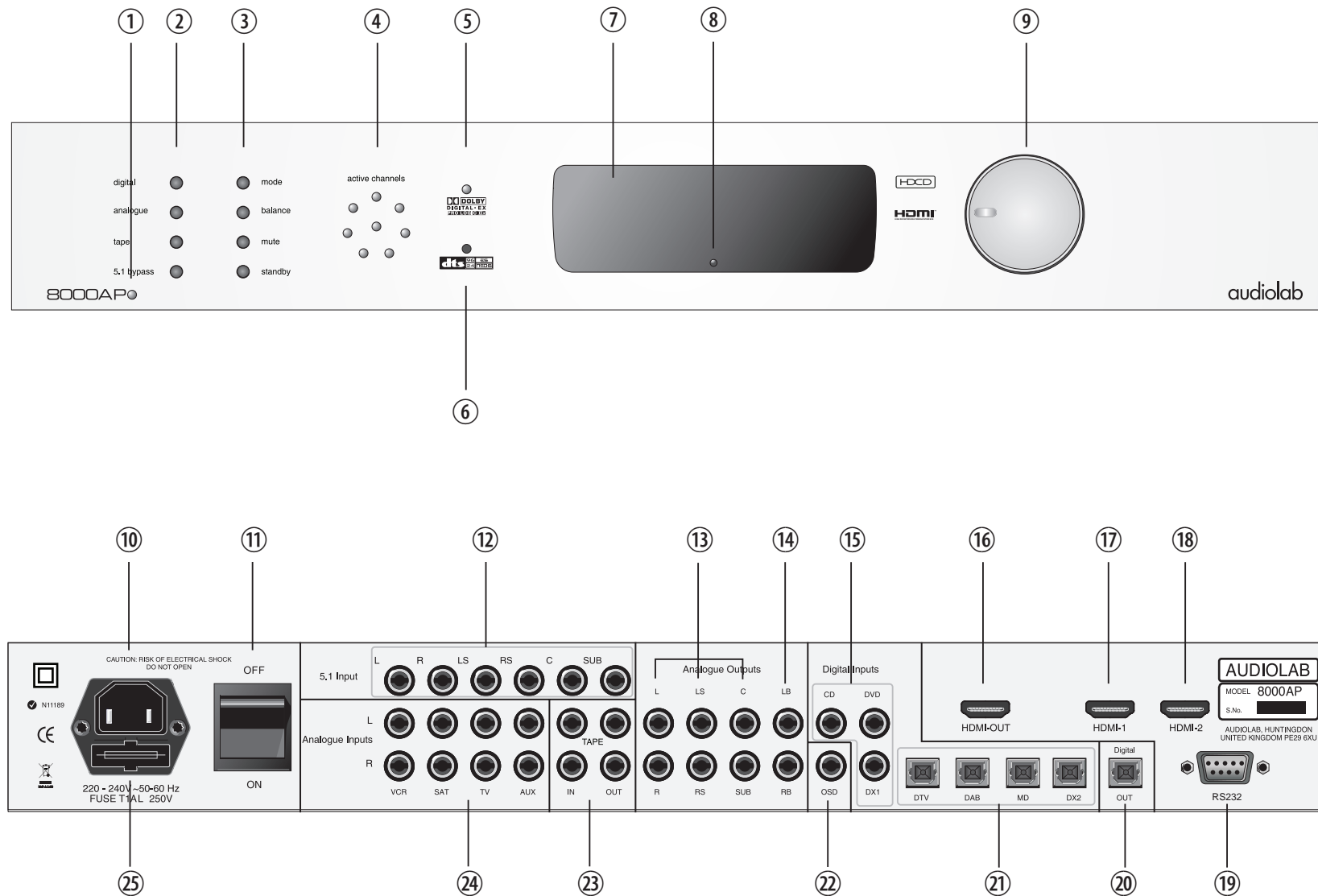
Some subwoofers have adjustable phase control, others have a phase inverting switch. You may have to use these controls during the setup procedure. Consult the subwoofer handbook for more information.

Gain and Efficiency

The 8000AP is adjustable across a wide range of volume levels so differences in gain (in power amplifiers) and efficiency (in loudspeakers) can be fully compensated. All Audiolab amplifiers, irrespective of their output power feature the same gain parameters.

Try not to set the subwoofer input volume too high or you may overload the input. See Page 10 of this manual for more information and additionally, refer to your subwoofer handbook.

2: Controls and Connectors



- 1 power/standby LED
- 2 input buttons
- 3 mode buttons
- 4 channel indicators
- 5 Dolby mode indicator
- 6 dts mode indicator
- 7 remote control sensor
- 8 display screen
- 9 volume knob
- 10 IEC mains input socket
- 11 mains on/off switch
- 12 external 5.1 input
- 13 analogue 5.1 outputs
- 14 back outputs (for 7.1)
- 15 coaxial digital inputs
- 16 HDMI output
- 17 HDMI 1 input
- 18 HDMI 2 input
- 19 RS232 (service only)
- 20 optical digital output
- 21 optical digital inputs
- 22 composite video output*
(for on-screen setup only)
- 23 tape input/output
- 24 stereo analogue inputs
- 25 mains input fuse

3: Audio and Video Connections

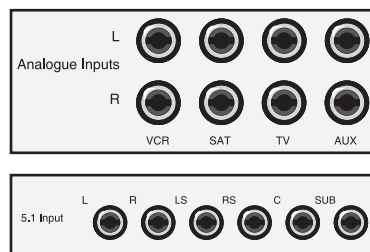
Analogue Inputs and Outputs

Standard Analogue Inputs

Your 8000AP has four regular analogue stereo inputs - **VCR**, **SAT**, **TV**, and **AUX**. These are electrically identical and may be used for any analogue stereo audio source.

There is a 5.1 analogue input, **L: R: LS: RS: C: SUB** for connection of a multi channel SACD or DVD Audio player. This input is a straight-line pass-through input. The output appears unchanged at the 5.1 outputs of the 8000AP.

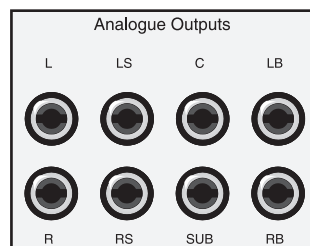
These inputs should be connected to a suitable line output on the source component using high quality, screened, RCA phono interconnects.



Analogue Outputs

The 8000AP can be configured to any multi-channel combination, from stereo to full 7.1 output. The **L** (Front Left), **R** (Front Right), **LS** (Left Surround), **RS** (Right Surround), **C** (Centre), **LB** (Left Back) and **RB** (Right Back) outputs should be connected to the appropriate line inputs of your AV power amplifier using quality, screened RCA phono interconnects.

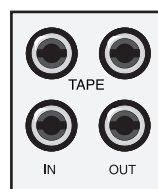
The **SUB** output should be connected to the line input of your subwoofer using a high quality, well screened RCA phono interconnect. Take care not to run the interconnect parallel with mains wiring and other potential interference sources.



Tape Input and Output

The **TAPE OUT** is a line-level output of the currently selected stereo analogue input. It is unaffected by the volume control. This should be connected to the input of a suitable recorder.

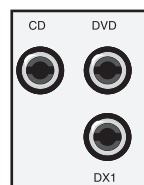
The **TAPE IN** should be connected to the analogue output of a recorder. If you have a three head recorder you can compare the original and recorded sound during recording.



Digital Inputs and Outputs

Coaxial Digital Inputs

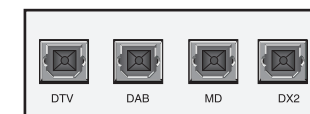
Your 8000AP has three identical coaxial digital inputs - **CD**, **DVD**, **DX1** (Digital Aux 1). These should be connected to the SPDIF digital output on the source component using a quality, screened, coaxial digital cable.



Make sure all system components are disconnected from the mains before making or changing system connections!

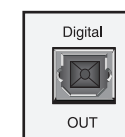
Optical Digital Inputs

Your 8000AP has four optical inputs - **DTV**, **DAB**, **MD**, **DX2** (Digital Aux 2). These should be connected to the TOSLINK output on the source component using a quality, optical cable. All connections are electrically identical.



Optical Digital Output

The signal at **DIGITAL OUT** is an unmodified copy of the currently selected digital source, i.e. it is unaffected by the volume control or processing mode. It is not possible to route an analogue source to the digital output. This should be connected to a digital recorder such as a DAT or MD recorder.



HDMI Connections

There are two HDMI inputs. These should be connected via an HDMI interconnect to the output of a DVD player or other AV streaming device. They are identical.

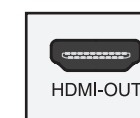
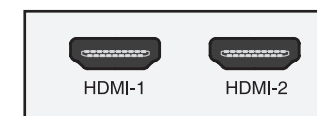
The audio component of the HDMI input is stripped off and routed through the processor. The processed output appears at the analogue outputs of the 8000AP.

The HDMI output may be connected to an HDMI input on your TV screen.

Apart from conducting the mandatory handshaking protocols the video component of the HDMI signal is not processed by the 8000AP. The video signal that appears at your TV is entirely dependent on your DVD player or other source. To get the best video result you should consult the handbooks of the video source component and the TV.

HDMI interconnects carry very high frequencies and levels of information. For optimum results use high quality interconnects and ensure that they are as short as possible.

HDMI-DVI cables: A DVI enabled graphics card may be connected to the HDMI input of the 8000AP. Likewise the HDMI output may be connected to the DVI input of a Computer monitor. In both cases a HDMI-DVI convertor will be required. There are very real problems with computer graphics cards and monitors when passing High Definition Video signals. Even if they support HD, the lack of High Definition Copy Protection (HDCP) circuitry in many products means that HD signals will be blocked or downgraded to standard definition video. If you are contemplating these connections consult your manuals before proceeding.



4: Other Connections

On Screen Display Connections

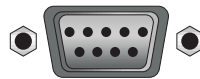
There is a composite video output labelled **OSD**. *This connection is purely for viewing the Setup menu on your TV screen.*

Connect a single RCA video interconnect from the OSD socket of the 8000AP to the Composite Video (CVBS) input on your TV screen. Once you have set up your 8000AP you may disconnect this cable as basic system parameters can be set up from the front panel of the 8000AP.



RS232

The RS 232 connection is for applying patches and upgrades to the software and is specifically for the use of appointed qualified service agents. This connection should never be used in normal operation.



Mains Input

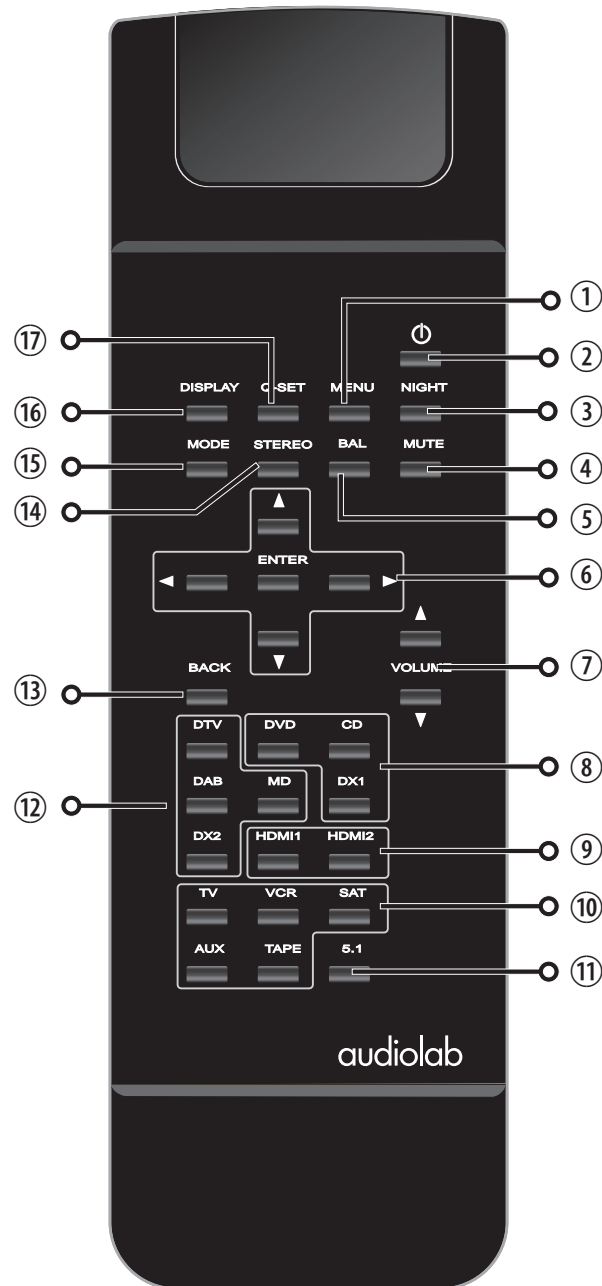
Before connecting the 8000AP to the mains supply make sure that all the other connections to your AV system have been properly and securely made. Switch the mains supply at the wall socket and then using the cable supplied, connect the socket on the back of your 8000AP to an AC supply outlet.






The 8000AP has been designed to remain connected to power at all times to optimise its sonic performance. The 8000AP will automatically switch into standby when first connected to power.

The principal means of disconnection from the mains is the on/off switch located on the rear panel. This must be kept unobstructed and freely operable at all times.



6: Remote Handset



- | | | |
|----|--|---|
| 1 | MENU | Enter/leave the on-screen setup menu |
| 2 | STANDBY | Bring the unit in/out of Standby mode |
| 3 | NIGHT | Toggle "Night" mode on/off |
| 4 | MUTE | Mute/unmute the sound |
| 5 | BALANCE | Adjust left/right balance of front speakers |
| 6 |  | <ul style="list-style-type: none"> Navigation buttons (in Setup menu) Adjust Balance (During Play) Confirm an action (in Setup menu) Access setup options (During Play) |
| 7 | VOLUME | Adjust the Volume level |
| 8 |  | Co-axial digital input selection |
| 9 |  | HDMI input selection |
| 10 |  | Analogue input selection |
| 11 | 5.1 | 5.1 analogue input key |
| 12 |  | Optical digital input selection |
| 13 | BACK | Return to main menu options (in Setup mode) |
| 14 | STEREO | Down-mix a multi-channel signal to stereo |
| 15 | MODE | Cycle analogue and digital processing modes |
| 16 | DISPLAY | Toggle the display off/on |
| 17 | Q-SET | Enter/leave the front panel setup menu |

Fitting Batteries

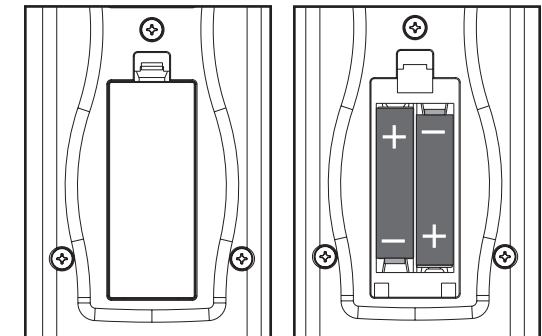
Open the cover. Unwrap the supplied AAA batteries and place them in the battery compartment with the polarity as shown. Replace the cover.

Always use AAA batteries and always replace them in sets. Never mix old and new batteries. Very weak batteries can leak and damage the handset. Replace them in good time!

Do NOT short circuit batteries or throw them into water, the general rubbish or a fire. Dispose of used batteries with regard to recycling regulations in your area.

1: Open the battery compartment cover

2: Insert 2AAA batteries



3: Replace the cover

Handset Operation

Point the handset at the 8000AP display window and press the relevant key. The handset should be within 15 metres of the 8000AP and there must be a clear line of sight between the two units.

7a: Setting Up the 8000AP - 1

Getting Started

Read this manual thoroughly so you get to understand the main controls of the 8000AP and how they work.

- **Make sure your power amplifier/s are switched off.**
- Switch on all source units (and the TV monitor if used).
- Connect the 8000AP to the mains power and switch on.
- Switch the unit on via the mains switch on the rear panel.

The power LED will illuminate, the front panel display window will show the Model No and the software version.

Audiolab 8000AP
V 3.20 HD0.35

The 8000AP will then go into Standby.

To bring the unit out of standby: Press the **Standby** key on the handset or the front panel.

- Now switch on the power amplifier/s.

Configuring the 8000AP

On Screen Display Menu

When setting up your unit for the first time the process will be simplified if you run the **On-screen Set-up** as this will ensure you enter all the essential parameters required.

Once the required settings are input and saved, you may alter them at any time. Changes will be retained when the unit is switched off or even if the mains power is removed, provided they have been saved.

You must connect your television to the **OSD** output in order for the on-screen information to be displayed.

QSet (Quick set)

The QSet menu enables you to set basic parameters of the 8000AP from the front panel without using a TV connection.

NOTES:

The QSet menu is intended for use when the 8000AP is operational. The OSD set-up menus contain items absent in the QSet menu and vice versa, so both menus should be enabled if you wish to take advantage of the full range of set up possibilities featured in the 8000AP.

Entering and Navigating the Set Up Menu

The on-screen set-up menus are operated by the handset.

- To enter set-up mode, press the **MENU** key.

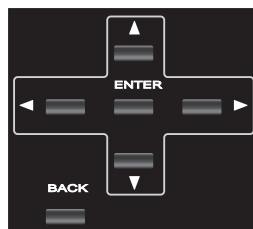
Audiolab 8000AP Setup
Main Menu

- >1. Speaker Sizes
- 2. Speaker Distance
- 3. Speaker Levels
- 4. Mode Options
- 5. 5.1 Bypass Levels
- 6. HDMI
- 7. Other Options

Press MENU to Exit

If the Menu screen does not appear: You may need to set the TV system in the QSet menu. Refer to Page 19

NAVIGATING THE MENUS



Press the **▲▼** keys to navigate the cursor to the desired option.

Press **ENTER** to access the sub-menu

Press **BACK** to jump back up to the front page

Press the **MENU** key to exit the OSD menu and save the setting.

If you have not made any changes to your settings you will simply exit the on-screen menu system.

NOTE: The 8000AP factory settings allow you to operate your system "straight out of the box" but the unit will not perform at its best until you fully set it up. Also the pre-set configurations may not correspond to your system.

Loudspeaker set-up

You will be asked to enter which speakers are present in your system, whether they are "Large" or "Small". If you select "Large" the full bass range will be delivered to the speakers. If you select "Small" you will be asked to enter the frequency at you wish to cross them over to the sub-woofer. (refer to your loudspeaker manuals for details)

- Press the **▲▼** keys to select "Speaker Sizes"
- Press **ENTER**

Audiolab 8000AP Setup
Main Menu

- >1. Speaker Sizes
- 2. Speaker Distance
- 3. Speaker Levels
- 4. Mode Options
- 5. 5.1 Bypass Levels
- 6. HDMI
- 7. Other Options

Press MENU to Exit

Audiolab 8000AP Setup
Speaker Size Menu

- >1. Front : Large
- 2. Centre : Small
- 3. Surround : Small
- 4. Back : None
- 5. Subwoofer : Yes

- Press the **▲▼** keys to select "Speaker Sizes"
- Press the **◀▶** keys to toggle **Large** or **Small**

If you select **Large**: No further action is needed.

If you select **Small**: You will be asked to set the bass cut frequency:

- Press **◀▶** to select 50Hz, 80Hz, 100Hz, 120Hz.
- Now press **▲▼** to select **Centre**.

Do you have a centre speaker?

If you select **Large** for the front speakers you may select **Large**, **Small**, or **None**

Audiolab 8000AP Setup
Speaker Size Menu

- 1. Front : Large
- >2. Centre : Large
- 3. Surround : Small
- 4. Back : None
- 5. Subwoofer : Yes

If you select **Small** for the front speakers you may only select **Small** or **None**

Audiolab 8000AP Setup
Speaker Size Menu

- 1. Front : Small
- >2. Centre : Small
- 3. Surround : Small
- 4. Back : None
- 5. Subwoofer : Yes

After setting up the size and bass parameters of the centre speaker:

7b: Setting Up the 8000AP - 2

- Press the ▲▼ keys to select "Surround".
- Press ENTER

```
Audiolab 8000AP Setup
Speaker Size Menu

1. Front      : Large
2. Centre     : Large
>3. Surround  : Small
   Bass Cut   : 120Hz
4. Back       : None
5. Subwoofer  : Yes
```

If you have set the front speakers to **Large**: you will be able to select **Large**, **Small** or **None** for the surrounds.

If you have set the front speakers to **Small**: you will be able to select **Small** or **None** for the surrounds.

After setting up the size and bass parameters of the surround speakers:

- Press the ▲▼ keys to select "Back".
- Press ENTER

```
Audiolab 8000AP Setup
Speaker Size Menu

1. Front      : Large
2. Centre     : Small
   Bass Cut   : 100Hz
3. Surround   : Small
   Bass Cut   : 120Hz
>4. Back      : 2 Small
5. Subwoofer  : Yes
```

By default the Back speakers are fixed at **Small** with predetermined bass cut-off at 100 Hz. You can select **None**, **One** (for 6.1), or **Two** (for 7.1).

After setting up the size and bass parameters of the back speakers:

- Press the ▲▼ keys to select "Subwoofer".
- Press ENTER
- Select Yes/No

```
Audiolab 8000AP Setup
Speaker Size Menu

1. Front      : Large
2. Centre     : Small
   Bass Cut   : 100Hz
3. Surround   : Small
   Bass Cut   : 120Hz
4. Back       : 2 Small
>5. Subwoofer : Yes
```

Loudspeaker Distances

- Press **BACK** to jump back up to the front page
- Press the ▲▼ keys to select "Speaker Distance".
- Press ENTER

```
Audiolab 8000AP Setup
Main Menu

1. Speaker Sizes
>2. Speaker Distance
3. Speaker Levels
4. Mode Options
5. 5.1 Bypass Levels
6. HDMI
7. Other Options
Press MENU to Exit
```

```
Audiolab 8000AP Setup
Speaker Distance Menu

>1. Front Left : 3.50m
2. Centre      : 3.50m
3. Front Right : 3.50m
4. Surr. Left  : 1.75m
5. Surr. Right : 1.75m
6. Back Left   : 1.75m
7. Back Right  : 1.75m
```

These measurements are used by the 8000AP in surround modes to correct for delays in sound reaching your ears due to differences in the distance between each speaker and the listening position.

Use the ▲▼ keys to select the loudspeaker and the ◀▶ keys to vary the distance. The distance can be set from 0 to 10 metres in units of 25cm. A speaker entered as **none** will have no distance shown on the screen.

Speaker Calibration

Speaker calibration is essential to achieve a correctly centred sound image; follow it carefully. We suggest you use a sound level (SPL) meter; otherwise you can set up the levels by ear- you will have to be careful to match the output levels for each speaker to sound equally loud.

- Press **BACK** to jump up to the front page
- Press the ▲▼ keys to select **Speaker Levels**.
- Press ENTER
- Press the ◀▶ keys to select **Noise On**

```
Audiolab 8000AP Setup
Speaker Levels Menu

>1. Noise : On
2. Centre : 0 dB
3. Front Right : 0 dB
4. Surr. Right : 0 dB
5. Back Right : 0 dB
6. Back Left : 0 dB
7. Surr. Left : 0 dB
8. Subwoofer : 0 dB
```

You will hear a burst of white noise from the Left Front speaker. The volume at the Left Front speaker sets the reference level for the calibration. All levels must be set to this reference. Individual levels can be varied by up to +/- 10dB.

When the noise generator is turned on, the volume automatically goes to -30dB. This master level may be adjusted to suit your system with the volume control on the front panel or via the handset. **Do not adjust the volume during calibration after the level is established.**

Using a Sound Level Meter: Set the meter to 'C' weighting with 'slow' response and to read 75dB SPL at centre scale. Place the meter at ear level at your **seated** listening position. Point the microphone at the ceiling.

Adjust the Volume level so the sound level meter reads 75dB. Select each speaker in turn. Adjust the relative channel levels on-screen using the ◀▶ keys on the handset until the sound level meter reads 75dB on all channels.

Set Up By Listening- Sit in your normal **seated** listening position. With the Volume ▲▼ keys, set the Left Front speaker to the equivalent to normal conversation. Now select each speaker in turn and adjust the on-screen level using the ◀▶ keys on the handset to sound the same as the Left Front speaker. During this process you may have to re-visit some loudspeakers to reset the level.

Do not adjust the volume control during the calibration.

Setting up the Subwoofer input level:

Leave the subwoofer level on the screen at 0dB. Adjust the subwoofer's volume control to sound as close to the reference Left Front speaker as you can. Now trim the on-screen subwoofer level with the ◀▶ keys on the handset. The object is to get the subwoofer level as close to 0dB as possible.

7c: Setting Up the 8000AP - 3

Checking the Setup levels

- Press the ◀▶ keys to select **Noise Off**
- Press the SETUP key to exit setup mode

You should now listen to some music on all your selected channels to establish that the levels are correctly set.

Listening to sources

- Connect a multichannel source (i.e DVD player)
- Select the input with the proper key on the remote control

Typical DVD source material is 5.1



The player screen will indicate the input selected, the default mode of the information on the DVD and the volume. In the example above, the 8000AP is receiving a DTS encoded signal in 5.1 mode

The Active channel lights tell you which outputs have audio present. The number of channels in the source material is indicated on the display i.e. 3/2.1 = 3 front, 2 surround and 1 LFE channel.

Press the **MODE** key on the handset or the front panel to cycle the mode options for the current source material

When receiving DTS ES Discrete (6.1) the display will look like this:



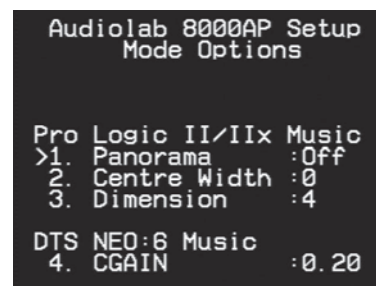
Stereo Mix



When you have all the channels in your system operational, you can trim the levels using the QSet facility. This will save you having to flip back and forth between the Setup screen and the DVD picture. (see P 16-17)

Mode Setup Options

- Press **MENU** to display the setup front page
- Press the ▲▼ keys to select **Mode Options**.
- Press **ENTER**



Dolby Pro Logic II creates five full-bandwidth output channels from 2-channel sources. Two different modes are available:

Pro Logic II Movie is pre-configured by Dolby.

Pro Logic II Music can be adjusted as follows:

Panorama mode extends the front stereo image to include the surround speakers for a 'wraparound' effect with side wall imaging. This is effective for recordings which have strong left or right-channel elements in the mix.

Adjustment: **On/Off**

Centre Width Control allows the sound of the centre-channel to be apportioned between the centre channel loudspeaker and the left/right front loudspeakers, from 'no sound' in the centre to 'full' centre performance.

Adjustment: **L/R :0-6 - 3 is mid point**

Dimension Control allows to move the sound field towards the front or the rear, depending on how much spatial effect there is in a stereo recording.

Adjustment: **L/R :0-6 - 3 is mid point**

DTS Neo:6 Music is a post processing mode providing up to seven sound channels from stereo matrix material. The CGain adjustment controls the amount of subtraction of derived centre channel material from L and R channels.

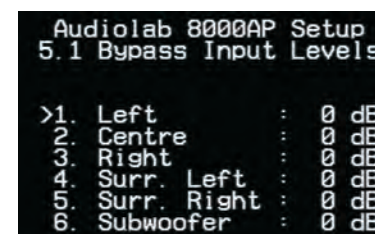
Adjustment: **CGain: 0.0-0.5** in steps of 0.05

NOTE: Setting mode options will only be effective if you have multi-channel loudspeakers. If you have only two (i.e. stereo) speakers the mode will always default to stereo, regardless of the mode options set.

5.1 Input Bypass Level Setup

Use this screen **only** if you are using an external analogue 5.1 source, such as a laserdisc player connected via its analogue outputs. You cannot enable the back speakers in this mode

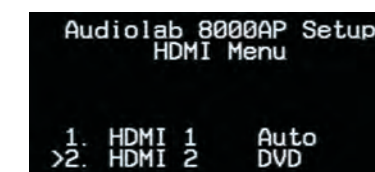
- Press **MENU** to display the setup page.
- Press the ▲▼ keys to select **5.1 Bypass Input Levels**
- Press **ENTER**



This screen is similar to the **Speaker Levels** Menu except that there is no sound generator. Determine the levels by ear with a suitable source. We recommend you set the levels to be identical to the Speaker levels menu and proceed from there.

HDMI Setup

- Access the **HDMI Menu**
- Press **ENTER**



This menu allows you to map an HDMI source input to any digital input. This routes the video portion of the HDMI signal to the TV but disables the audio portion. The audio connection is made from the source component to the digital input of your choice - optical or co-axial as needed.

Why would you want to do this?

- You have a source e.g. A PC, with a DVI output: you can connect the video to the 8000AP via a DVI-HDMI cable and connect the SPDIF output to a digital input on the 8000AP. You can now watch DVDs or stream audio or A/V content via the 8000AP. (See Page 5 for HDCP issues).

7d: Setting Up the 8000AP - 4

Other Options

- Press **MENU** to display the setup page.
- Press the **▲▼** keys to select Other Options
- Press **ENTER**

```
Audiolab 8000AP Setup
Other Options

PCM / Analogue : Stereo
>1. Bass Mgr: Normal
2. DAC Filter : Slow
3. Upsampling : OFF
4. System RESET : NO
```

Bass Manager

This is a special setting for 2ch. PCM / analogue only and does not otherwise affect the normal working of the Bass manager. If you want subwoofer output from stereo material when using large front speakers use this setting. **The choices are:**

Normal - No subwoofer out from stereo material when L & R speakers are set to Large.

L+R to Subwoofer. The low bass output of both channels is mixed to mono and fed to the subwoofer.

If your speakers are large truly full range models you may prefer the purist view and disable the subwoofer in Stereo. As always, personal preferences will come into play.

DAC Filter

You can set the DAC filter to **Fast** or **Slow**.

The **Fast** filter has better technical performance and best attenuation of spurious signals but sounds “mechanical” to many people. The **Slow** filter has improved group delay characteristics and a gentler roll off but could result in higher spurious noise levels.

Upsampling

Upsampling applies only to Audio PCM or HDCD streams. The default setting is “Off”. Setting upsampling “On” pushes the noise spectrum further up the band resulting in an increased “airy” sound which many prefer. We suggest you listen with upsampling on and off and choose accordingly.

System Reset

Select YES to reset the system setup parameters to factory defaults. After a short pause the 8000AP responds with the message “DONE” and the default status is re-established.

8a: Operation

Switching On and Off

- **Make sure your power amplifier/s are switched off.**
 - Switch on all source units (and the TV monitor if used).
 - Connect the 8000AP to the mains power and switch on.
 - Switch the unit on via the mains switch on the rear panel.
- The Power LED illuminates, the display shows the Mode and the software version. The 8000AP will then go into Standby.
- **Bring the unit out of Standby:** Press the **Standby** key on the handset or the front panel.
 - Now switch on the power amplifier.

• **To set the 8000AP to Standby:** Press the **Standby** key on the handset or the front panel.

When switched out of Standby, the last input and volume level used is re-selected. If the volume was set to a high level when last used the unit will power on at a safe volume of -20dB.

Audiolab 8000AP
V 3.20 HD0.35

HDMI2 VOL -20dB
Silent

Selecting a Digital Input

There are three digital co-ax inputs **DVD**, **CD**, **DX1** and four optical inputs **DTV**, **DAB**, **MD**, **DX2**.

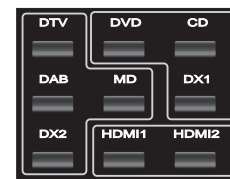
There are also two HDMI inputs **HDMI1**, **HDMI2**

A digital source may be selected by pressing the appropriate input keys on the remote handset or by pressing the **digital** button on the front panel until the desired source is shown in the display window.

The selected digital source is automatically connected to the digital output (**DIGITAL OUT**) socket.

If the source is switched off or disconnected or has no active audio: 'Silent' appears in the window.

Note: The titles of the digital inputs are descriptors: the digital co-axial inputs are identical as are the digital optical inputs and the two HDMI inputs.

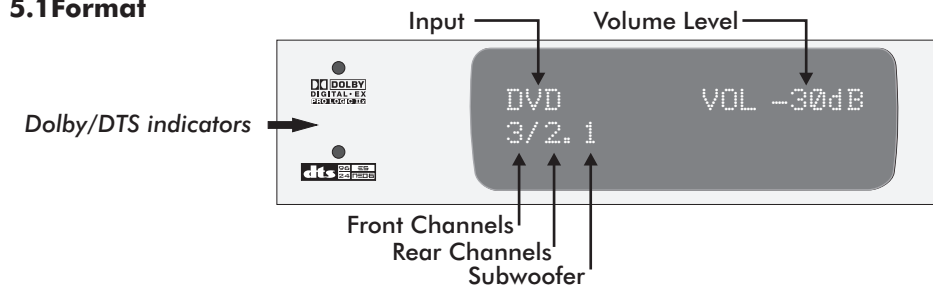


HDMI2 VOL -30dB
Silent

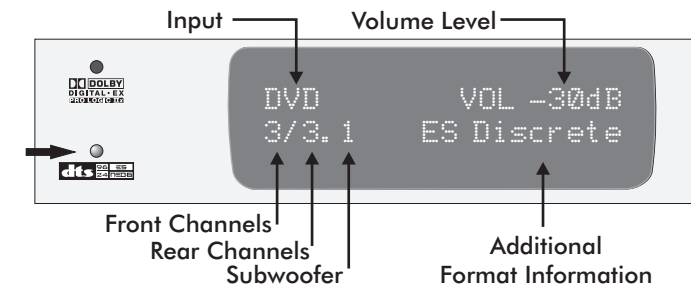
Digital Screen Displays

When a detectable digital format is received by the 8000AP the screen will display the input, the receiving format and the number of channels received. Examples of typical screen displays are given on Page 11 and in the next column.

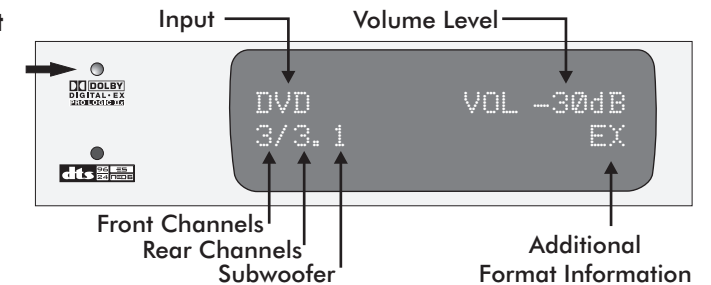
Basic 5.1 Format



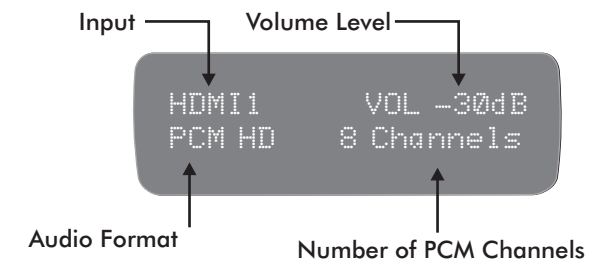
DTS Extended Format



Dolby Extended Format



HDMI PCM Format



8b: Operation - 2

Digital Modes

The 8000AP will detect and display the format of the source material received. Press the MODE key on the handset or front panel to cycle through the options relevant to that format. For example, when receiving Dolby Digital 3/2.1 (5.1) you have the option to apply "EX" processing to create a back channel or "Stereo Downmix" if you just want to listen to 2 channels.

If, for any given input source, a mode option is changed the 8000AP will remember this change and use the last option applied whenever the same encoded material is detected.

Selecting an Analogue Input

There are four Analogue inputs: **VCR**, **SAT**, **TV**, **AUX**. Additionally there is a **TAPE** input and a **5.1 bypass** input.

An **analogue source** may be selected by pressing the appropriate input keys on the remote handset or by pressing the **analogue** button on the front panel until the desired source is shown in the display window.

Note: The titles of the analogue inputs are descriptors: all the analogue inputs are identical as are the digital optical inputs and the two HDMI inputs.

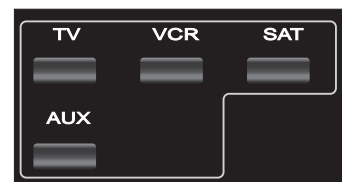
The **TAPE input** allows a tape monitor function (if you have a three head recorder). This enables you to compare the quality of a tape recording to the original at the time of recording.

The selected analogue input, the left and right channel of the 5.1 input or the left and right channel of a processed digital signal are connected to the **TAPE OUT** output when you select the relevant input.

You may listen to the analogue tape input by pressing the tape key on the remote control, or the tape button on the front panel of the 8000AP.

The **5.1 input** routes the 5.1 analogue inputs on the rear panel directly to the volume control on the 8000AP. When you select this input you will hear a relay operate as the input is selected and all processing functions are disabled.

When this input is selected you can only alter the volume and balance. You can also trim the channel parameters via the OSD menu.



analogue



tape



5.1 bypass

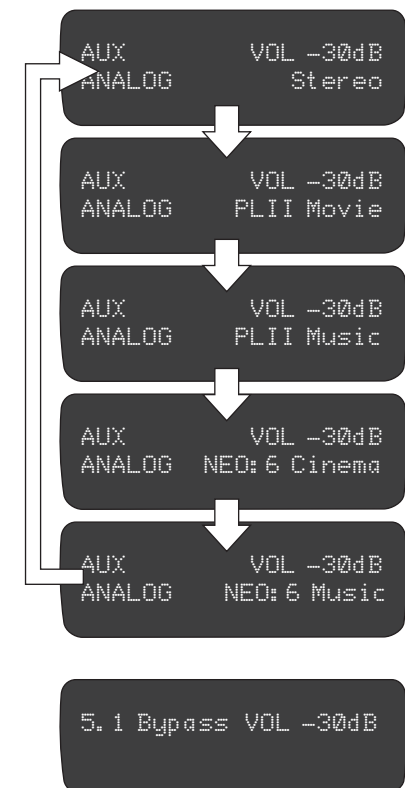
Analogue Screen Displays and Modes

The four regular analogue inputs and the Tape input all operate in the same way.

The basic operating mode is 2 Channel Stereo.

Pressing the MODE button will invoke several matrixed post processing modes. With the exception of *Dolby PLII Movie* and *DTS Neo 6 Cinema*, parameter adjustments for the other modes can be accessed in the Setup menu. (See Page 11).

NOTE: The options available will reflect only your chosen loudspeaker configuration. For example, if you only have Stereo loudspeakers or have enabled only the Front loudspeakers the available options will default to Stereo only.

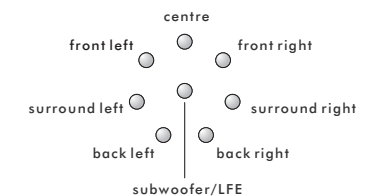


5.1 bypass input

All processing modes are disabled when this input is selected

Active Channels

The Active channel lights tell you which outputs, at any given moment, have audio present.



8c: Operation - 3

Volume Control

The **VOLUME** knob, and the **VOL ▲▼** keys on the handset control the level of all connected loudspeakers. They do not affect the TAPE or DIGITAL OUT sockets.

Turn the **VOLUME** knob clockwise to increase the volume or anticlockwise to decrease the volume in 1 dB steps. When you reach either end of the volume range, you will still be able to rotate the knob but the volume will stop changing.

The volume is alterable from **-90dB** (very low) to **+15dB** (very loud). The Volume level appears in the display. If you go below -90dB the 8000AP will mute and the word MUTE will appear in the display.

Note: The 8000AP remembers the volume when put into Standby and returns to this volume when next switched on. If the last used volume is above -20dB, the 8000AP will power on at a level of -20dB. This eliminates surprises caused by a high previous volume setting.

Mute

To mute all speaker outputs press the **MUTE** button on the front panel or the mute key on the remote control. To restore the volume press MUTE again.

Note: If you have turned the volume down manually below the -90dB mark, the MUTE display will not turn on or off when you press the **MUTE** key.

The 8000AP mutes momentarily whenever you change inputs or undertake certain functions.

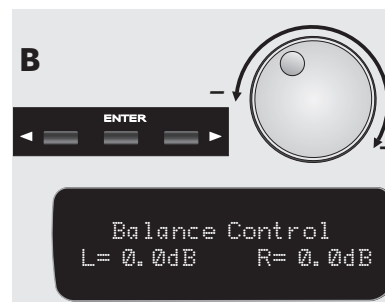
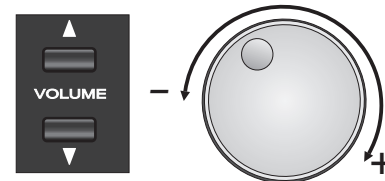
Altering the Front Speakers Balance

Press the **BALANCE** key on the front panel or the remote control to enter Balance Mode

Alter the balance to the Right or Left by rotating the Volume knob or the Left/Right ◀▶ keys on the handset. *Keeping the ◀▶ keys held down will move the sound progressively further left or right.*

Press the **BALANCE** key on the front panel or the remote control to exit Balance Mode

If you do nothing, after a short period the 8000AP will automatically exit Balance Mode.

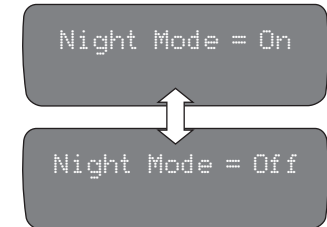


Night Mode

This mode works with Dolby Digital or DTS Digital Surround sources which include Night Mode control parameters. Night Mode reduces the dynamic range for quieter listening, so that you can comfortably hear quieter passages at lower volume levels - low levels are boosted, high levels are cut.

Press **NIGHT MODE** on the handset to toggle Night Mode On or Off

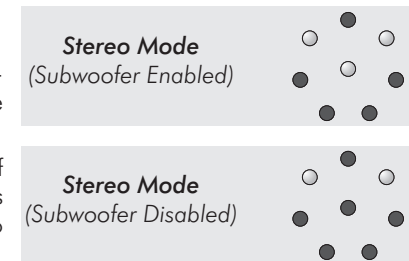
Night Mode will remain active until it is switched off. Always switch this mode off after use.



Forced Stereo Operation

Pressing the **STEREO** key on the handset down-mixes a multi-channel signal to a stereo (front left/right) signal only (the stereo signal is created from all channels).

The subwoofer will appear in the Active Channels display if the Front speakers have been set to Small or if the bass management in the Setup menu has been set to L+R= to Sub.



Display On/Off

Pressing the **DISPLAY** key on the handset switches the display off and on. When the 8000AP is operational and the display is switched off only the Standby light remains on to show the unit is active.

If you set the 8000AP to Standby when the display is switched off, when you bring the unit out of Standby the display will restore.

9a: The Qset Menu - 1

The **QSet menu** enables you to set up basic system parameters from the front pane.

The best way is to use QSet to trim the system. If you are making adjustments to the setup so you can play a disc that is not properly set up, or you are listening in a location that is not the main listening seat, set the parameters back to their original values at the end of the session.

QSet Menus

Set Speakers and sizes. If "small" set bass cut-off frequency

Set speaker distances from the listening position

Set speaker levels as perceived from the listening position

LipSync. Alter the delay between audio and video signals

OSD. Select NTSC or PAL for the OSD display.

Entering and Navigating the QSet Menu

- To enter the QSet menu, press **QSET** on the handset.
- Press the **▼** key to move down through the menus
- Press the **▲** key to move up through the menus
- Press the **◀▶** keys to select a parameter within a menu
- To leave the QSet menu, press the **QSET** key.

Setting Loudspeaker Sizes

Press **QSet**

Set Front Speaker Size

(Qset) Sizes
Front = Large

Press the **◀▶** keys to toggle **Large** or **Small**

If you select Small:

(Qset) SIZES
Front = Small 50Hz

Press the **◀▶** keys to set **50Hz, 80Hz, 100Hz, 120Hz**

After you have set the Front Speaker Sizes:

Press the **▼** key

Set the Centre Speaker

(Qset) SIZES
Centre = Large

Press the **◀▶** keys to toggle **Large, Small** or **None**

If you select Small:

(Qset) SIZES
Centre = Small 50Hz

Press the **◀▶** keys to set **50Hz, 80Hz, 100Hz, 120Hz**

If you have no Centre Speaker or you want to disable it:

Press the **◀▶** keys until
you reach **"None"**

(Qset) SIZES
Centre = None

After you have set the Centre Speaker Size:

Press the **▼** key

Set Surround Speakers

(Qset) SIZES
Surround = Large

Press the **◀▶** keys to toggle **Large, Small** or **None**

If you select Small:

(Qset) SIZES
Surround = Small 50Hz

Press the **◀▶** keys to set **50Hz, 80Hz, 100Hz, 120Hz**

If you have no Surrounds or you want to disable them:

Press the **◀▶** keys until
you reach **"None"**

(Qset) SIZES
Surround = None

After you have set the Surround Speakers Size:

Press the **▼** key

Set Back Speakers

(Qset) SIZES
Back = 1 Small

Press the **◀▶** keys to select **1, 2** or **None**

(Qset) SIZES
Back = 2 Small

**Back effects speakers are
permanently set to "Small"**

(Qset) SIZES
Back = None

Press the **▼** key

Is there a subwoofer?

(Qset) SIZES
Subwoofer = Yes

Press the **◀▶** keys to set the Subwoofer to **Yes** or **No**

Setting Speaker Distances and Levels

Distances are set in metres from the listening seat. Starting with the Front Left speaker, the menu enables you to go round the room setting each speaker in turn. The sequence is:

Front Left: **→** Centre: **→** Front Right: **→**

Surr. Left: **←** Back Left: **←** Back Right: **←** Surr. Right

If a speaker is set to **"None"** it will not appear in the list

Press the **▼** key

Set Front Left Speaker

(Qset) Distances
Front Left = 3.50 m

Press the **◀▶** keys to set the distance. You can set distances from 0.5m to 10 metres in 25cm steps.

When you have set the Front Left speaker:

Press the **▼** key to move to the next loudspeaker and repeat the procedure to set all loudspeaker distances in sequence.

If you have two Back speakers: You will be prompted to set the distance from each speaker to the listening seat

If you have only one (Centre Back) speaker:

(Qset) Distances
LeftBack = 1.75 m

After setting up all the Loudspeaker distances:

Press the **▼** key

Press **◀▶** to set the noise **on/off**

(Qset) Levels
Noise = Off

If you select On: You will hear a noise burst from the Left Front Speaker.

(Qset) Levels
Noise = On

The default noise level is -30dB. This level will not appear when you switch the generator on. Move the Volume Knob or alter the volume level at the handset to trigger the level display.

(Qset) Levels
Noise = On -29dB

9b: The Qset Menu - 2

Setting Speaker Levels

The Front Left loudspeaker determines the reference level. All the other speaker levels are established as variations up or down from this level. If for any reason you change the reference level you will need to re-set all the loudspeakers.

The levels of all loudspeakers are set in order

Front Left (ref): ➡ Centre: ➡ Front Right: ➡ Surr. Right:
Subwoofer: ⬅ Surr. Left: ⬅ Back Left: ⬅ Back Right ⬅

If a speaker is set to "None" it will not appear in the list

Set a comfortable level for the Left Front Speaker.

Press the ▼ key

```
(Qset) Levels  
Centre = 0 dB
```

Press the ◀▶ keys to adjust the level of each loudspeaker to be the same as the Front Left loudspeaker. Individual speaker levels can be adjusted by up to +/- 10dB.

When you have set one speaker:

Press the ▼ key to move to the next loudspeaker and repeat the procedure to set all loudspeaker levels in sequence.

If you have two Back speakers: You will be prompted to set the relative level of each speaker.

If you have only one (Centre Back) speaker:

```
(Qset) Levels  
LeftBack = 0 dB
```

After setting up all the Loudspeaker levels:

Press the ▼ key

```
(Qset) Levels  
Subwoofer = 0 dB
```

if you are trimming the subwoofer. Press the ◀▶ keys to set the level to be the same as the Front Left loudspeaker

If you are establishing the level and have not already set up the subwoofer in the Setup Menu: Follow the procedure described on Page 10

We suggest you follow the procedures described on Page 12 when setting Loudspeaker Levels.

Lip-Sync Adjustment

Lip-sync adjustment will mainly be needed in the following circumstances.

1 Some modern flat panel screens have heavy amounts of video processing which adds delay, hence the need to delay the audio so the picture and sound match.

2 Occasionally there are lip-sync problems, even with 'correctly' synchronized soundtracks. This may be because of poor dubbing which cannot be compensated for as the delay is erratic.

Press the ▼ key

```
(Qset) Lip Sync  
Delay = 0 ms
```

Press the ◀▶ keys to adjust the delay from 0 - 500ms

NOTE: The selected lip-sync delay will remain even after the 8000AP is switched off. If you have adjusted the lip-sync because of programme irregularities you should reset it to the correct value (or the default setting) immediately you have finished listening to the affected programme.

Finally, after setting all the system parameters:

Press the QSET key on the handset to exit the Qset screen.

On Screen Display Adjustment

The default TV system for the On Screen Display is PAL. If you have an NTSC TV set (or have inadvertently set the OSD to NTSC in a PAL area) the Menu Screen may not be visible.

Press QSET on the handset to enter the QSet menu.

Press the ▼ key to move down through the menus until you reach the final screen

```
(Qset) OSD PAL/NTSC  
Mode = PAL
```

Press the ◀▶ keys to toggle the TV system from PAL to NTSC

Press the QSET key on the handset to exit the Qset screen.

10: Troubleshooting

Until you are familiar with the operation of your 8000AP, you may experience occasional difficulties. This guide will help you overcome the most likely issues.

No lights on the unit

Check that:

- the mains lead is plugged in and that the outlet to which it is connected to is switched on.
- the mains switch on the 8000AP is ON.

No response/poor response to handset commands

Check that:

- the 8000AP is switched on.
- there are fresh batteries in the remote control.
- the 8000AP's display window is visible and you are pointing the remote control towards it.

No on-screen display

Check that:

- your television is on and switched to display the output from the 8000AP.
- the correct video input is selected at the TV.
- the correct TV system is enabled (see Page 17)

No sound

Check that:

- the correct source is selected.
- the volume is turned up to a reasonable level
- the output is not muted.
- your source and power amplifier(s) are connected correctly and switched on.

The Mute function does not work

Check that:

- the volume has not been turned fully down to the mute position.

Sound is poor quality / distorted

Check that:

- all cables are making good connections. If necessary, switch off the power, then withdraw the connector and plug it back in again, then switch on the power.
- you have set the speaker type to suit your system.
- Night Mode is not enabled.

The sound does not co-incide with the picture

Check that:

- if you are using a flat screen TV the Lip-Sync is adjusted correctly.

The front panel display is blank

Check that:

- The display is not turned off. Press the display key on the remote control.

Sound comes from only some of your loudspeakers

Check that:

- the 8000AP is set up to use all the speakers in your system.
- a suitable surround sound source is selected and playing.
- if you are playing a digital source, the player is outputting multi-channel data.
- the display indicates that the disc is multi-channel .
- you have not selected the 'stereo' down-mix mode.
- the speaker balance is correct.
- all amplifiers are switched on.

11: Service & Warranty

Care & Cleaning

While cleaning is in progress the AC power cord must be unplugged from the AC power supply socket.

Grease or dirt on the equipment may be removed with a soft, lint-free cloth slightly moistened with a mild solution of warm water and detergent or washing-up liquid. Do not use any other solutions or solvents.

If you have any queries regarding the use of Audiolab equipment, consult your dealer.

Servicing

Servicing of Audiolab products should only be carried out by authorised service agents. If service is required the equipment should be returned, securely packaged, preferably using original packaging, to your dealer.

In the UK equipment may be returned to the IAG Service Centre. In the USA equipment may be returned to the Service address shown on this page.

Always telephone before returning any equipment.

A note should be enclosed with your name, address, telephone number, and a brief description of the reason for return.

If you require Service outside the Warranty period, do not hesitate to contact your dealer.

Service Address - UK

IAG Service Centre
Unit 4, St Margaret's Way
Stukeley Meadows Industrial Estate
Huntingdon Cambs
PE29 6EB
England
Tel: +44 (0)1480 452561 Fax: +44 (0)1480 413403

Service Address - USA

IAG America, Inc.
8440 154th Avenue NE
Redmond, Washington 98052
USA
Tel: +1 425 861 3909 Fax: +1 425 861 3906

Service Address - ASIA

IAG. Room 2310 - 2311, Press Building, Shennan Road C,
Shenzhen, China.
Tel: +86-755-82091200 Fax: +86-755-82091205

Audiolab limited warranty

Audiolab Ltd. warrants this product, subject to the terms and conditions below, to be free from defects in materials and workmanship. During the warranty period Audiolab will repair or replace (at Audiolab's option) this product, or any defective part in this product, if it is found to be defective due to faulty materials, workmanship or function. The warranty period may vary from country to country.

Terms and conditions:

The warranty starts on the date of purchase (or the date of delivery if this is later).

You must provide proof of purchase / delivery before work can be carried out. Without this proof, any work carried out will be chargeable to you.

All work will be carried out by Audiolab or its authorised agents or distributors. Any unauthorised repair or modification will void this warranty.

If any part is no longer available it will be replaced with a functional replacement part.

Any parts that are replaced will become the property of Audiolab.

Any repair or replacement under this warranty will not extend the period of warranty.

This warranty is valid only in the country of purchase, applies only to the first purchaser and is not transferable.

The following are not covered:

- Products on which the serial number has been removed, altered or otherwise made illegible.
- Normal wear and tear and cosmetic damage.
- Transportation or installation of the product.
- Accidental damage, faults caused by commercial use, acts of God, incorrect installation, connection or packaging, misuse, neglect or careless operation or handling of the product which is not in accordance with Audiolab's user instructions.
- Equipment that has been operated in conjunction with unsuitable, inappropriate or faulty apparatus.

- Repairs or alterations carried out by parties other than Audiolab or its authorised agents or distributors.
- Products not purchased from an Audiolab authorised dealer.
- Products that were not new at the time of original purchase.
- Products sold 'as is', 'as seen' or 'with all faults'.

Repairs or replacements as provided under this warranty are the exclusive remedy of the consumer. Audiolab shall not be liable for any incidental or consequential damages for breach of any express or implied warranty in this product. Except to the extent prohibited by law, this warranty is exclusive and in lieu of all other warranties whatsoever, both express and implied, including, but not limited to, the warranty of merchantability and fitness for a practical purpose.

This warranty provides benefits that are additional to and do not affect your statutory rights as a consumer.

Some countries and US states do not allow the exclusion or limitation of incidental or consequential damages or implied warranties so the exclusions in the paragraph above may not apply to you. This warranty gives you specific legal rights, and you may have other statutory rights, which vary from state to state or country to country.

How to claim:

To obtain warranty service contact the Audiolab authorised dealer from which you purchased this product. Do not despatch goods without the prior agreement of the dealer, Audiolab or their authorised distributors.

If asked to return products for inspection and/or repair, pack carefully, preferably in the original cartons or packaging affording an equal degree of protection, and return prepaid. If unsuitable packaging is used, Audiolab may make a charge for the supply of new packaging.

Insurance is recommended as goods are returned at owner's risk. Audiolab or their authorised distributors cannot be held liable for loss or damage in transit.

Packing, insurance and freight on the return journey will be paid by Audiolab or their authorised agents or distributor if corrective work proves to be necessary.

12: 8000AP Specifications

Digital Inputs

Frequency Response	10Hz – 20KHz (± 0.2 dB) 5Hz – 75KHz (± 3 dB)
Distortion (THD)	< 0.002% (0dBFS @ 1KHz) 16bit, $F_s = 44.1$ KHz, B/W 20Hz- 20KHz
Dynamic Range	> 103dB

Analogue Inputs

Input Sensitivity	0dBu (775mV); Max 3.5V Unity Gain (1) with Vol. Level at 0dB
Frequency Response	10Hz – 20KHz (± 0.2 dB) 5Hz – 24KHz (± 3 dB)
Distortion (THD)	< 0.003% (rel. 2V@1kHz) Bandwidth = 20Hz - 20KHz
Dynamic Range	100dB

5.1 Bypass Input

Input Sensitivity	0dBu (775mV); Max 3.5V Unity Gain (1) with Vol. Level at 0dB
Frequency Response	10Hz – 20KHz (± 0.2 dB) 5Hz – 100KHz (± 3 dB)
Distortion (THD)	< 0.001% (rel. 2V@1kHz)
Dynamic Range	> 110dB

Analogue Outputs

Output Level	0dBu (775mV) Max 3.5V
Volume Control	90dB to +15dB in 1dB steps , Channel imbalance < 0.1dB

Video Outputs

HDMI Connection	HDMI 1.2a compliant HDMI 1.3 compatible Max resolution 1080p HDCP compatible
Composite OSD	1.5Vp-p, 75 Ω PAL or NTSC

General

Mains Voltage	90 - 100V / 110 - 120V / 220 - 240V (marked on the rear of the unit)
Power Consumption	15W Operational < 7W Standby
Dimensions overall (WxHxD)	445 mm x 75 mm x 338 mm
Weight	Net: 5.76 Kg shipping: 7.38 Kg

Key Features

DSP: Dual DSP, Cirrus Logic CS494003, 24Bit front end / 32Bit Post processing

D/A converters: 24Bit / 192KHz bit-stream
Adjustable D/A filter response

A/D converters: 24Bit / 48KHz bit-stream

Upsampling: 2x (on Digital PCM & HDCD)

Audio Processing Modes:

Dolby Digital
Dolby Digital EX
Dolby Pro Logic II
Dolby Pro Logic IIx
DTS
DTS ES Matrix
DTS ES Discrete
DTS 96/24
DTS NEO:6
PCM Stereo (24bit / 192KHz)
HDCD
2 Ch. PCM 24Bit / 192KHz via HDMI
8 Ch. PCM 24Bit / 96KHz via HDMI
5.1 Analogue Bypass

Video:

HDMI max resolution 1080p
OSD (On Screen Display) Composite Video (PAL/NTSC)

Connectivity:

2 HDMI inputs and 1 HDMI output
3 Coaxial Digital SPDIF inputs
4 Optical Digital SPDIF inputs
1 Optical Digital SPDIF output
5 Analogue Inputs via RCA phono connectors
8 Analogue Outputs (7.1) via RCA phono connectors
1 Analogue Tape Output via RCA phono connector
6 Analogue Inputs (5.1 Bypass) via RCA phono connectors
1 OSD (On Screen Display) output (Composite Video)
1 RS232 Communications port

Separate Analogue and Digital Power Supply with 10 Regulated Supplies.

Audiolab reserves the right to alter design and specification without notice.
Specification may vary for different countries.



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Cambs
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