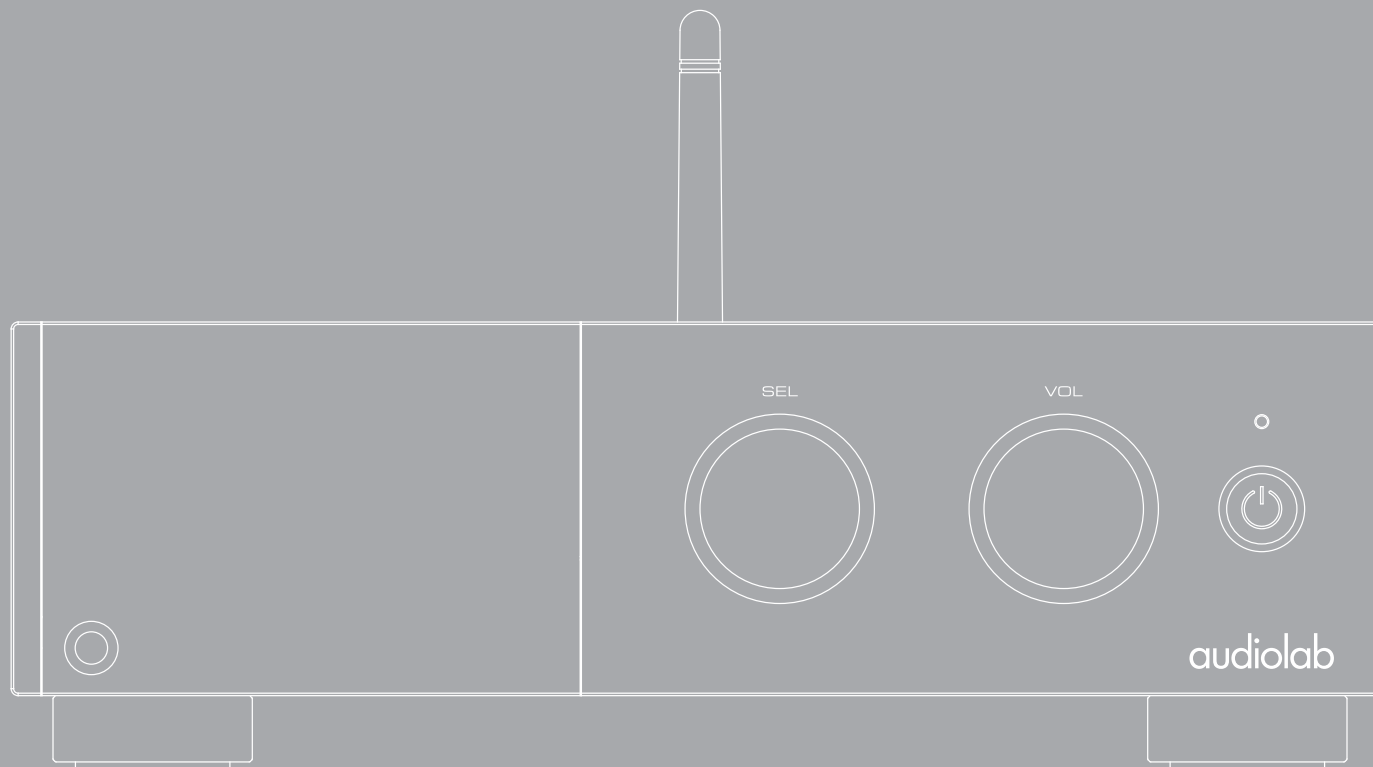


3 YEAR
WARRANTY



Scan the QR code using a smart-phone device,
for product warranty registration online.



D9 User Manual

audiolab

Important Safety Information



This lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

Warning: To reduce the risk of electric shock, do not remove cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance. Read these instructions. Keep these instructions. Heed all warnings.

Follow all instructions:

Do not use this apparatus near water. Clean only with a dry cloth.
Do not block any ventilation openings. Install under 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 polarised or grounding-type plug. A polarised plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for the replacement of the obsolete outlet.

Protect the power cord from being stepped on or pinched, particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
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 spilt or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Do not install this equipment in a confined or built-in space such as a bookcase or similar unit, and keep well ventilated in an open space. The ventilation should not

be impeded by covering the ventilation openings with items such as newspaper, tablecloths, curtains etc.

WARNING: Only use attachments/accessories specified or provided by the manufacturer (such as the exclusive supply adapter, battery etc.).

WARNING: Please refer to the information on the exterior panel of the enclosure for electrical and safety information before installing or operating the apparatus.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on the apparatus.

WARNING: The terminals marked with the symbol of “ ⚡ ” may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.

 Ground protection terminal. This product should be connected to a power outlet with ground protection.

Denmark: Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.

Finland: Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan.

Norway: Apparatet må tilkoples jordet stikkontakt.

Sweden: Apparaten skall anslutas till jordat uttag.

WARNING: No naked flame sources, such as lighted candles, should be placed on the apparatus.

WARNING: Attention should be drawn to environmental aspects of battery disposal. **WARNING:** Use of the apparatus in tropical climates.

THE FUSE VALUES ARE: 220 – 240V (UK, China, etc.) T1.0AL 250V Slow Blow
100 – 120V (USA, Japan, etc.) T1.6AL 250V Slow Blow

Important Safety Information



The Bluetooth® word mark and logos are registered trademarks, owned by Bluetooth SIG, Inc. and any use of such marks by Audiolab is under license. Other trademarks and trade names are those of their respective owners.



Qualcomm is a trademark of Qualcomm Incorporated, registered in the United States and other countries. aptX is a trademark of Qualcomm Technologies International, Ltd., registered in the United States and other countries.



Being Roon Tested means that Audiolab and Roon have collaborated to ensure you have the best experience using Roon, software and IAG Group Ltd equipment together, so you can just enjoy the music.



MQA (Master Quality Authenticated)

MQA is an award-winning British technology that delivers the sound of the original master recording. The master MQA file is fully authenticated and is small enough to stream or download. Visit mqa.co.uk for more information. D9 includes MQA technology, which enables you to playback MQA audio files and streams, delivering the sound of the original master recording.



The audiolab D9 LED on screen glows green or blue to indicate that the unit is decoding and playing an MQA stream or file, and denotes provenance to ensure that the sound is identical to that of the source material. It glows blue to indicate it is playing an MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.

Contents

Audiolab D9

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1 : Getting Started

Page 05

Introduction

Thank you for choosing the Audiolab D9, a cutting-edge high-resolution DAC. It offers extensive format compatibility and a rich feature set with support for high-resolution audio files.

Versatile connectivity ensures seamless integration into any setup. Built on Audiolab's legacy of digital audio excellence, the D9 employs state-of-the-art DAC technology and meticulous engineering to offer exceptional clarity, dynamic range, and musicality.

Please read this manual in order to achieve the best performance and experience with the Audiolab D9.

Features

- Full DAC and preamp facilities
- Bluetooth aptX, aptX HD, LDAC receiver
- Selectable digital filter settings
- Dedicated headphone amplifier
- 480 x 640px WVGA full view IPS LCD

Inputs

- Two coaxial SPDIF digital inputs
- Two optical SPDIF digital inputs
- One AES/EBU digital input
- Bluetooth 5.1 (aptX/aptX HD/LDAC) input
- USB-A port for USB HDD sources
- USB-B 2.0 port for replaying audio from a compatible host

Outputs

- One pair of balanced XLR outputs
- One pair of unbalanced RCA outputs
- Headphone output
- 2 x Trigger outputs
- 1 x Optical S/PDIF output
- 1 x COAX S/PDIF output

Unpacking the Equipment

The carton should contain:

- The Audiolab D9
- One IEC power cord suitable for your region
- One remote handset
- One instruction manual
- 2 x AAA Batteries (where permitted by local import and transit regulations)

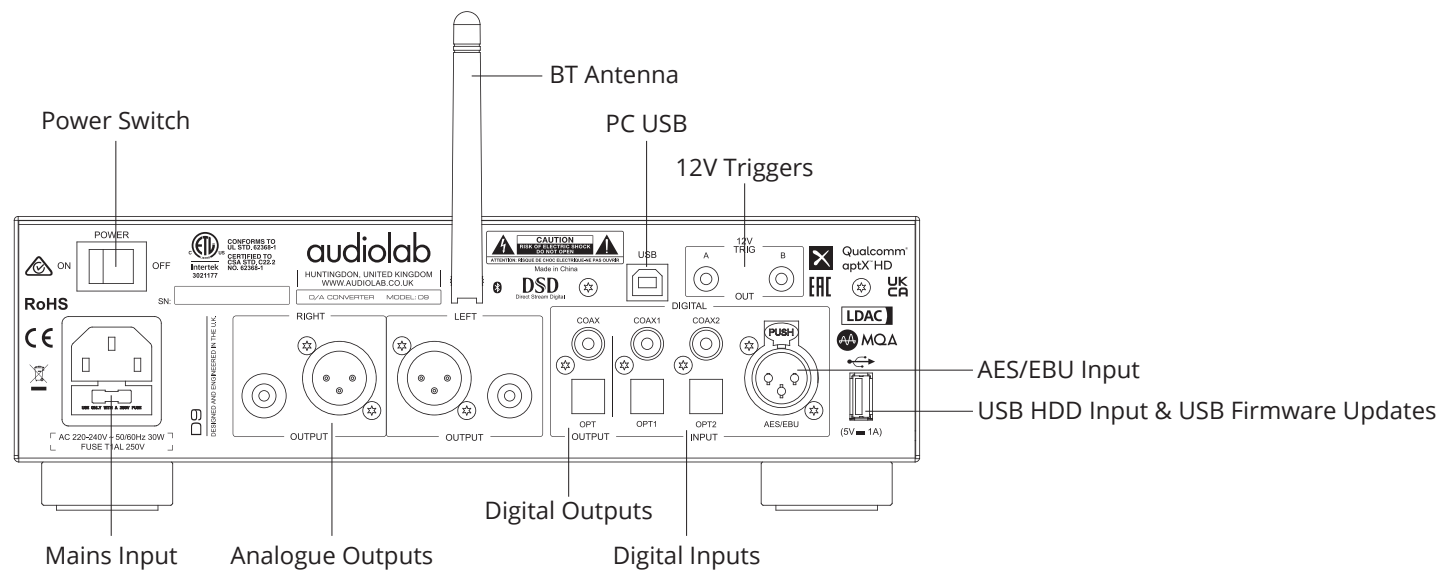
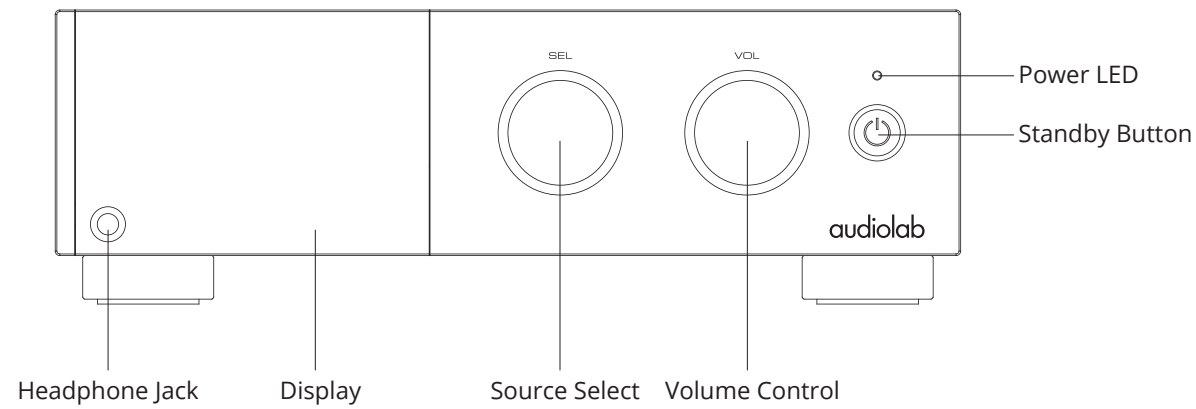
Consult the dealer from whom you purchased the equipment if any item is not present. Carefully unpack the unit and accessories. Take care not to damage the surface finish when undoing the protective polythene sleeve. Retain the packing materials for future use. Retain the user manual and information concerning the date and place of purchase of your equipment for future reference. If you transfer the unit to a third party, please pass on this instruction manual along with the equipment.

Placement

The unit must be mounted on a solid, level and stable surface.

Before you connect the Audiolab D9 to the AC mains power, ensure your AC mains voltage corresponds to the rating on the rear panel of the product. If in doubt, consult your dealer. If you move to an area that has a different mains voltage, seek advice from an Audiolab-appointed dealer or a competent service technician.

2: Controls and Functions
Page 06



3: Remote Handset
Page 07



1. Standby	Press to bring the unit in/out of Standby
2. Mute	Press to mute and unmute the sound
3. 	Long Press: Enter Folder Mode selection from the Playing Interface. Short Press: Access the Folder View. If you are in a subfolder, continue to short press to return to the previous level until you reach the root folder. Long Press (in Folder View): Exit the Folder View immediately, regardless of your current level.
4. Menu	Press to enter or exit the Menu
5. Time	Press to toggle 'single track' or 'all' remaining time
6. 	Page up
7. 	Move to the previous track
8. 	Move to the next track
9. 	Press to start/pause. Press to confirm setting selected in menu
10. 	Page down
11. 	Press to select the repeat mode
12. 	Press to select the random mode
13. 	Press to select the display option
14. +/-	Increase/decrease volume
15. 	Press to stop
16. 	Press to cycle source inputs
17. PC USB	Press to select PC USB input
18. USB HDD	Press to select USB HDD input
19. Digital	Press to cycle through and select digital inputs
20. Bluetooth	Press to select BT input

4: Connections

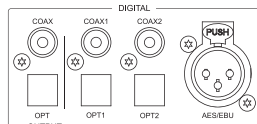
Page 08

Coaxial Digital Input

Connect your coaxial digital sources to either COAX1 or COAX2.

Optical Digital Input

Connect your optical digital sources to either OPT1 or OPT2.



AES/EBU Digital Input

Connect your AES3/EBU digital sources to the AES/EBU input.

Digital Output

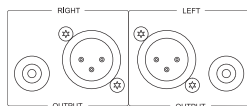
Connect to your DAC or amplifier via coaxial/optical output.

Balanced Output

Balanced connections can provide greater dynamic range and lower noise. If your amplifier has balanced inputs, please connect them to the balanced outputs. You will need one XLR balanced cable per channel.

Unbalanced Output

Connect your amplifier to the unbalanced RCA outputs using a shielded stereo RCA cable.



Headphone Output

A stereo 6.3mm (1/4") jack is provided on the front panel for connecting headphones. When headphones are connected, the audio to the XLR and RCA outputs will be muted.

Bluetooth Connection

Select BT source on the D9, on your mobile device search for 'Audiolab D9 BT' and connect.



If you switch to another input on the D9, your mobile device will be disconnected after 60 seconds. To reconnect, select BT on the D9, and it will connect to the last paired device or select 'Audiolab D9 BT' on your mobile device in the Bluetooth menu, and it will reconnect.

You can disconnect your mobile device by long pressing the Play/Pause button on the remote control.

USB Update

Copy the update file onto a USB key, following the instructions included in the update package.

Turn off the D9 at the rear mains switch.

Plug the USB key into the update port. Press and hold the standby button on the front panel, and then switch on the D9 at the rear mains switch.

Your D9 will then upgrade automatically.

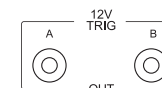
Once completed, unplug the USB key and restart the device.



(5V 1A)

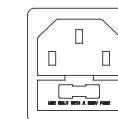
12V Trigger Connection

The trigger connections are made using 3.5mm to 3.5mm mono or stereo jack interconnects (not included).



Mains Input

Before connecting the AC power cord to the D9, please make sure the Power Switch is in the OFF position. Switch it to the ON position after connecting the unit to the AC mains.



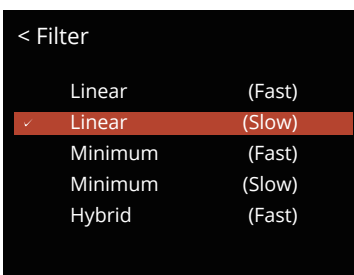
AC 220-240V ~ 50/60Hz 30W
FUSE T1A1 250V

5: Menu Options

Page 09

Filter

The ESS ES9038PRO SABRE DAC settings allow for detailed tuning of the audio experience. The DAC reconstruction filter is a critical aspect of refining the sound of a system that depends on listening taste, program material, and equipment set-up. Linear Phase (Slow Roll-Off) is the default setting.



- **Linear (Fast):** This is the most common filter with clean overall suppression and excellent rejection, best for music with large transients. Provides crisp clean highs.
- **Linear (Slow):** A low group delay and symmetrical input response with less ringing than 'Linear-phase fast roll-off'. It offers punchier bass than 'Linear-phase fast roll-off' with clean highs. (Default)
- **Minimum (Fast):** This offers minimal pre-ringing. It is usually preferred for imaging and sound stages. It offers no aliasing in the frequency domain and stronger bass than 'Linear Phase', with clean highs.
- **Minimum (Slow):** A Non-Symmetrical filter designed to minimise pre-ringing. It offers a strong punchy bass with a good transient attack.
- **Hybrid:** This is the combination of 'Linear-phase' and 'Minimum-phase'. It offers a fast transient attack, strong punchy bass and crisp highs.

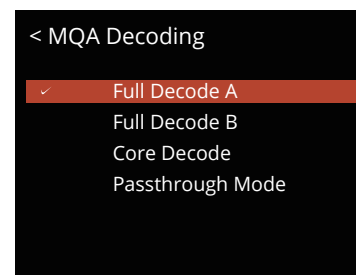
MQA Decoding

There are four MQA decoding options:

- **Full Decode A** - (PCM Upsampling Off) - This enables the full internal MQA decoding process of the D9, and simultaneously enables PCM streaming via SPDIF (COAX or OPTICAL) up to 192kHz. The SPDIF outputs will be switched off when MQA decoding is taking place, or if the PCM stream sample rate is above 192kHz. This mode is best for those streaming MQA and using the analogue outputs, or for streaming PCM (FLAC, WAV etc.) and using either analogue or digital outputs.
- **Full Decode B** - (PCM Upsampling On) - this enables the full internal MQA decoding process of the D9, and up-samples both MQA and PCM to 352.8kHz or 384kHz. This mode is for use with the analogue outputs only. The SPDIF outputs (COAX and OPTICAL) are disabled.

• **Core Decode** - this option is suitable for users connecting to a 3rd party external MQA renderer via SPDIF, up to a sample rate of 192kHz.

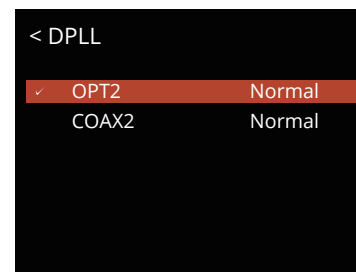
• **Passthrough Mode** - this will bypass the MQA decoding stage in the D9 and allow the full non-decoded signal to pass through the D9 via the digital outputs. This mode is suited to users who prefer to use a separate DAC within their system (for example, when using the D9 with the Audiolab 9000A). The MQA decoding will therefore happen at the external DAC stage, not within the D9. Default setting is Full Decode A (PCM Upsampling OFF).



DPLL

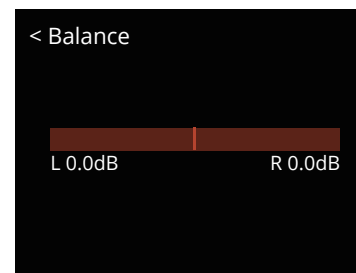
This setting is used for changing the bandwidth of the digital phase lock loop of the D/A converter to accommodate different levels of jitter on the incoming SPDIF signal. Normal mode should be selected for signals with low jitter, while Wide mode should be selected for signals with abnormal jitter.

For best audio quality, leave this setting at the default value 'Normal'. Only use 'Wide' use Wide for a given input if the system is having problems locking onto the source.



Balance

Adjust the Left and Right balance of the D9 audio output.



5: Menu Options

Page 10

Volume

Power On Limit

Power On Limit sets the maximum volume level as the unit is switched on. When coming out of standby, the volume setting will be set to the level that was used at the end of the previous operating session OR to the Power On Limit value set in this menu, whichever is lowest.

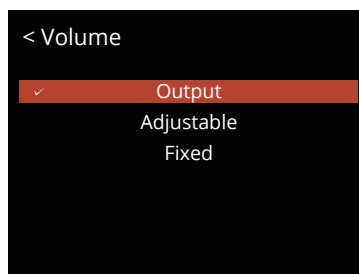
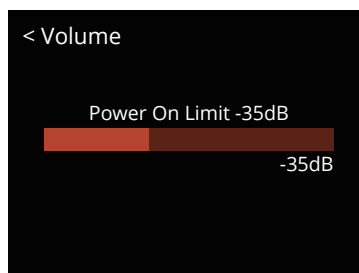
This will avoid a sudden loud signal at the beginning of a new session.

Output

The analogue output level can be switched between FIXED and ADJUSTABLE.

When set to FIXED mode, the analogue output level will be fixed to the maximum output. This can be useful when connecting to an integrated amplifiers' AUX input, and therefore using the integrated amplifiers volume control.

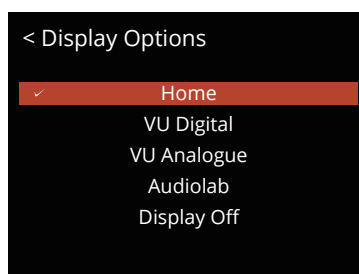
When set to ADJUSTABLE, the D9 Volume control is used to adjust the level of the analogue output. This is required when connecting directly to a power amplifier. The default setting on the D9 is ADJUSTABLE.



Display Options

The D9 has different display modes (Home, VU Digital, VU Analogue, Audiolab logo & Display Off).

When 'Display Off' is selected, press any key to turn on the display. The display will revert to 'off' after 5 seconds of inactivity, by default. You can change the duration to 10, 15 and 30 seconds from the Display Time Out option in the menu.

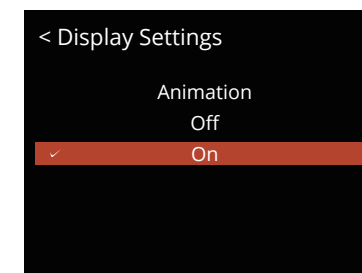
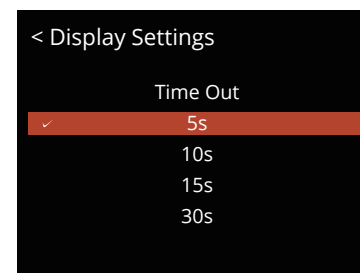
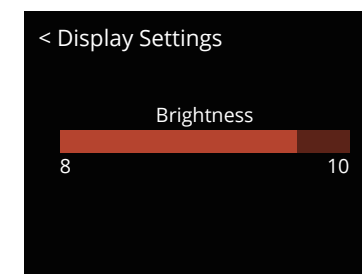
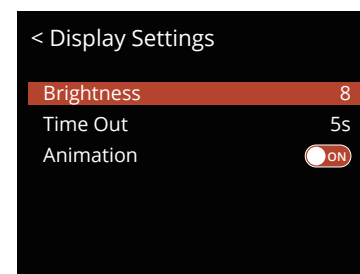


Display Settings

Brightness: Adjust the brightness of the D9 front panel display.

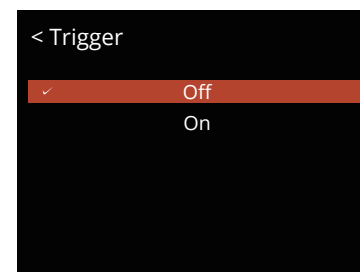
Display Time Out: Adjust the time after which the D9 display will revert to your chosen display option, from the home screen, after performing volume adjustments and other operations.

Animation: Turn display animations on or off.



Trigger

Activate or deactivate the 12V trigger function of the D9.



5: Menu Options

Page 11

Language

There are multiple different languages you can choose from to display your system so you can view information in your preferred language. Default language is English.



Reset

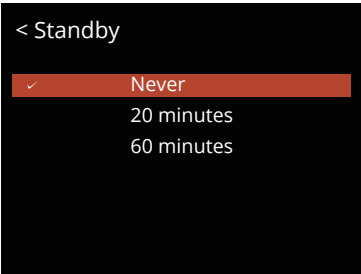
Reset the D9 to the factory default settings.



Standby

The auto-standby feature will put the D9 into standby mode after 20 minutes of inactivity.

This feature can also be user-defined and set to 20 minutes, 60 minutes or 'Never'. The latter option means that the D9 will not enter standby mode without user instruction by way of the front panel 'standby' button or remote control 'standby' button.



Version

Check the currently installed firmware version.



6: System Operations

Page 12

Switching on and Off

The D9 should be switched on before the amplification stage in your system. When switching off your system, turn off the amplifier stage before switching off the D9.

Standby Mode

The D9 will enter standby mode after being powered on. Press the “Standby” button to bring the D9 out of standby, the power indicator LED becomes brighter and the display shows “Audiolab” welcome screen while the unit is getting ready for operation.

Source Select

Rotate the MODE knob on the front panel or use the source (▼or▲) buttons on the remote handset to select different source inputs.

Volume Control

To adjust the volume, rotate the VOL knob on the front panel, or use the volume up/down keys on the remote control. The range is -78dB to 0dB.

When switching on the D9, the volume will be set to the previously used volume setting.

If your previous volume setting was higher than the assigned power-on volume limit, then the power-on volume limit will be applied.

Following a factory reset, the volume will be set to -30dB.

Mute

Press the VOL knob on the front panel or MUTE button on the remote handset to mute / un-mute the sound.

Display Options

Press the DISPLAY button on the remote, or use the Display Options in the menu to choose from VU Digital, VU Analogue, the Audiolab logo, the default home page, or to turn the display off.

When the display is off, pressing any key on the remote, or any control on the front panel will turn the display on briefly while you make changes.

6: System Operations

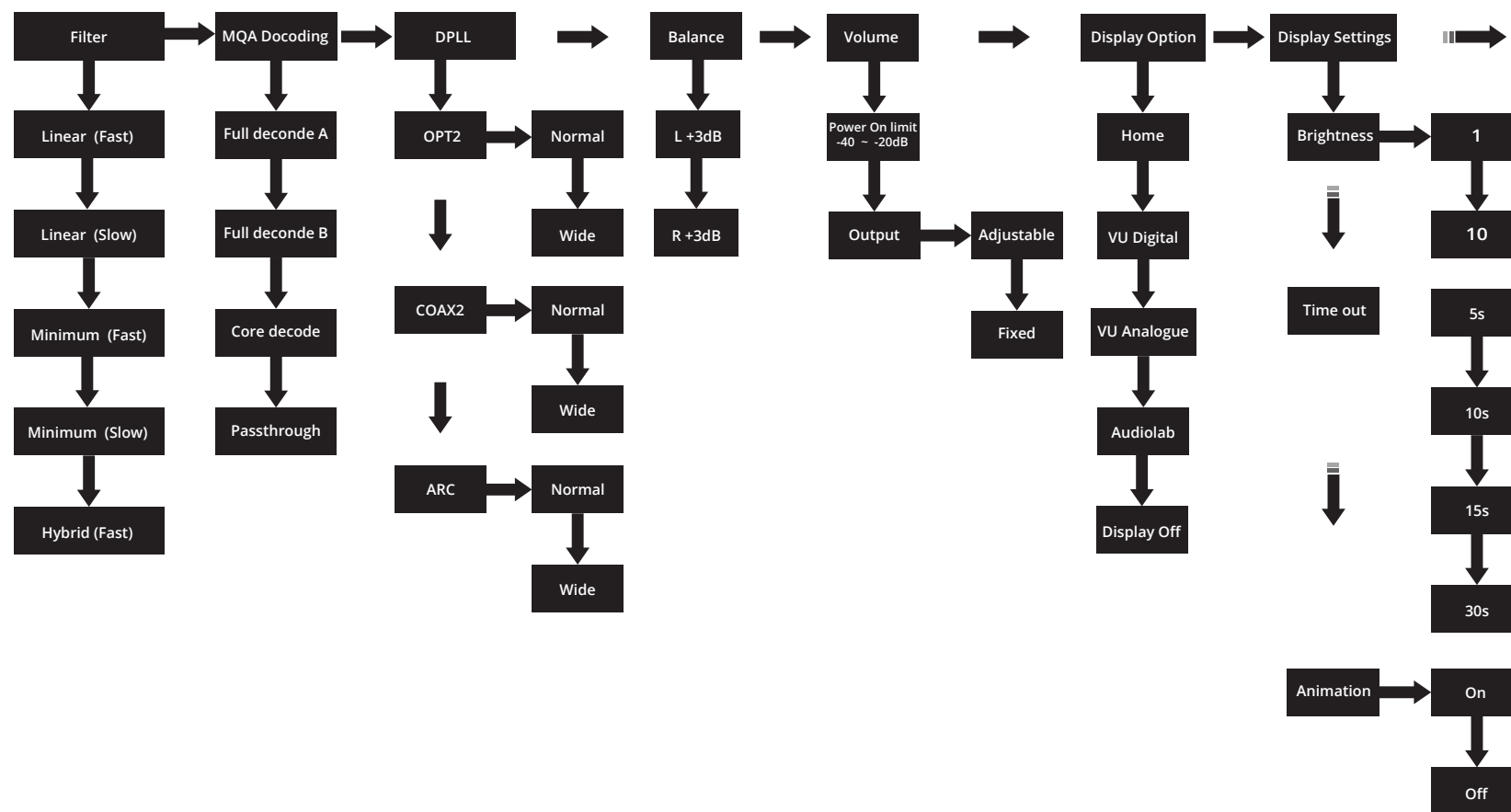
Page 13

The Menu

The menu enables you to customise the unit and optimise the interface with other equipment in your system.

The D9 has 13 different menu pages. Press the MODE knob on front panel or MENU key on the remote to enter menu mode, and then press VOL- or VOL+ to turn to different setting, press to the sub menu. You can also press MODE button on the front to enter the menu, then rotate it turn to different setting, press to the sub menu. Press again to confirm.

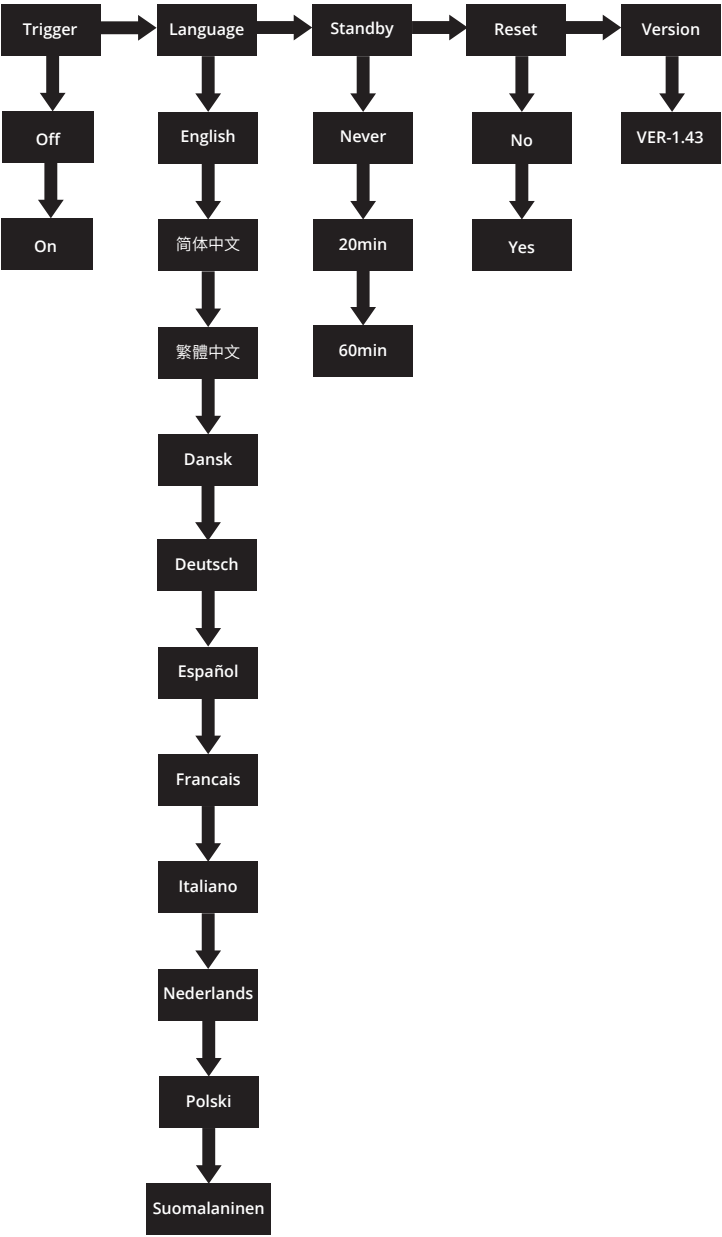
The Menu Tree



6: System Operations

Page 14

The Menu Tree



7: Playing Operations

Page 15

Playing PC USB Input

USB DRIVERS

To download Windows Drivers, please see the USB Guide. Any firmware updates will also be available from www.audiolab.co.uk

Connect your computer to the D9 via USB cable (type A to Type B), change the Play mode to USB input using the handset or the button on the front panel.

'No Input Signal' will be displayed if there is no input signal to the USB input. When you play a file, the digital inputs will lock onto the digital signal or as soon as there is an input signal for USB. The display screen will then indicate the presence of an 'Active Input' and show the output sampling frequency of the music file in your computer.

Playing Tracks from USB Storage Device

The D9 can play music tracks saved on a USB HDD storage devices and is compatible with USB device that are 'FAT16', 'FAT32' and 'exFAT' formatted.

The D9 supports audio files in the format of WMA, MP3, WAV, FLAC, AAC and APE.

Connect your USB drive to the rear panel USB-A port. Select USB HDD playback input.

Play/Pause by pressing the  button on the remote control.

You can use the   buttons on the remote control to skip, fast forward and fast reverse tracks.

Long press the  button on the remote to enable/disable Folder Play mode.

Enable: All the files in the selected folder are played.

Disable: All the files in all the folders are played.

Briefly press the  button on the remote to enter folder browse. When you browse, briefly press to return to previous folder, long press to exit the browse

Compatible Formats

	Sampling Frequency	Bit Rate	Bit Length	Extension
WMA	44.1/48kHz	32-320kpbs		.wma
MP3	44.1/48kHz	32-384kpbs		.mp3
WAV	44.1/48/96kHz	64-768kpbs	Up to 32bit	.wav
AAC	44.1/48kHz	128kpbs and above		.m4a
FLAC	44.1/48/96kHz	All bitrates		.flac
APE	44.1/48kHz	All bitrates		.ape

8: Warranty Coverage

Page 16

Audiolab 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.

Online Registration



Scan the QR code using a smart-phone device, for product warranty registration online.

The three (3) year extended warranty is applicable to items purchased from Jan 1st 2021, onwards. Items purchased prior to this date are not eligible for this extended warranty service but are subject to statutory warranty claims and all applicable consumer rights.

To qualify for the extended 3 year warranty, you must register your product within ninety (90) calendar days from the date of purchase.

Visit audiolab.co.uk/warranty-registration to complete your online registration. Items not registered online will have a Limited Warranty for one (1) year, or for the period of your country's statutory warranty, whichever is longer.

Warranty can only be offered to products registered with proof of purchase with date, model and details of the authorised dealer clearly stated on the receipt/invoice. Please keep the original receipt/invoice in case it is required for a warranty claim.

This Limited Warranty is non-transferable and is offered exclusively to the original owner.

This Limited Warranty is valid only in the original country of purchase.

Repairs or replacements are 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 expenses or implied warranty with any product. Except to the extent prohibited by law, this warranty is exclusive and in lieu of all other warranties whatsoever, both expressed and implied, including but not limited to the warrant of merchantability and fitness for practical purpose.

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

This Limited Warranty offer is subject to correct information being submitted in your application. Incorrect dates or mismatched purchase receipt dates that are outside of the warranty terms will immediately invalidate any warranty claim.

*Please check with your dealer local distributor for further information.

Exclusions

The following items are excluded from the Audiolab warranty:

Normal wear and tear and cosmetic damage (including but not limited to any wear from reasonable use, environmental deterioration or neglect)

Products on which the serial number has been removed, altered or otherwise made illegible.

Products not purchased from an authorised Audiolab dealer.

Products that were not new at the time of original purchase.

Products sold 'as is', 'as seen' or 'with faults'

Product not purchased from an Authorised Dealer/Distributor within the region of the claim (ie parallel imports or grey market products)

Accidental damage or faults caused by commercial use, acts of God, incorrect installation, incorrect connection, incorrect packaging, misuse or careless operation or handling which is not in accordance with the user instructions.

Equipment that has been operated in conjunction with unsuitable, inappropriate or faulty apparatus.

Repairs, alterations or modifications carried out by parties other than Audiolab or its authorised service partners.

Damage in transit that cannot be attributable to the fault of Audiolab, the authorised distributor or dealer (ie. claims otherwise covered by transit insurance.)

Faults relating to abnormal or inappropriate power supply voltage or power surges.

Faults relating to extremities in temperature, exposure to heat, water or other liquids, insects, excessive moisture, sand, chemicals, battery leakage or any other contaminants.

8: Warranty Coverage

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Any force majeure events, including but not limited to any acts of God, fire, lightning, typhoon, storm, earthquake, hurricane, natural disaster, tsunami, flood, war, riot, public disturbance.

Any other causes beyond the reasonable control of either Audiolab and its Authorised Distributor.

Please note items purchased before 1st Jan 2021 are not eligible for the extended warranty claim.

How to Claim

To obtain warranty service please contact the authorised dealer from which you purchased this product and present the limited warranty certificate offered upon registration of your product's extended warranty offer.

Do not dispatch goods without the prior agreement of the dealer distributor or authorised service centre.

If asked to return products for inspection and or repair, please pack carefully preferably in the original carton or packaging affording an equal degree of protection and returned via insured, trackable courier service.

The authorised dealer or distributor will offer full return details and instructions. However, please note if unsuitable packaging is used the warranty may be deemed void due to improper action in return.

Audiolab or the authorised distributor, dealer or service centre may make a charge for the supply of new packaging for the return of the repaired item. Please note, insurance is recommended as goods are returned at the owner's risk. Authorised distributors or service centres cannot be held liable for loss or damage in transit. Insurance and freight charges on the return journey will be paid for by Audiolab, authorised dealer, distributor or service centre if corrective work proves to be necessary.

In the event of 'no-fault found' or 'no repair necessary', the return shipping charge will be the responsibility of the owner.

Repairs

All repairs will be carried out by the appointed distributor (or locally appointed service centre). Repairs handled or processed without authorisation or approval of the appointed representative will be excluded from this limited warranty. Please note, Audiolab is not able to supply parts or replacement items to any other entity

than the official distributor or authorised service centre.

Other than the warranty and services set out in this warranty, to the fullest extent permitted by law, Audiolab shall not be liable to you and/or any third party or entity whatsoever for:

- Any loss, damages and/or malfunction caused to any product(s) which is/are connected to any of the products covered by this warranty.
- Any damages, loss and liability, whether direct, indirect, incidental, consequential special, punitive or otherwise, howsoever caused by, arising out of or otherwise, in relation to the installation, delivery, use, service, repair, replacement and/or maintenance of the product;
- Any damages, loss and liability under this warranty in respect of any act, omission, or negligence of any of their technicians, employees, agents, representatives or independent contractors relating to the actual or purported performance of any of the obligations under this warranty.

Service Centre Address

Should a fault occur with your product, please pack it correctly using the original packing, so you can ship it safely. For technical support, servicing or product queries and information, please contact either your local retailer or the office below:

IAG Service Dept.
 13/14 Glebe Road
 Huntingdon
 Cambridgeshire
 PE29 7DL
 UK

Tel: +44(0)1480 452561
 Email: info@audiolab.co.uk

For information on other authorised service centres worldwide contact Audiolab International, UK.

A worldwide distributors list is available on the Audiolab website: www.audiolab.co.uk

9: Specifications

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BRAND	Audiolab
Model	D9
General Description	DAC
Design Philosophy and Core Technology	ES9038Pro 32-bit DAC MQA Full decoder (PC USB, Coax / Optical) 2.8" 480x640 large size full view IPS LCD Bluetooth 5.1 (aptX / aptX HD / LDAC) streaming Dedicated Current-Feedback Headphone Amp VU Digital / VU Analogue Meter USB HDD Playback with MP3/WMA/AAC/WAV/FLAC/APE compatibility USB Firmware Upgrade
Inputs	2 x SPDIF (Coax), 2 x SPDIF (Optical), 1 x PC USB (USB B) 1 x USB HDD (USB A), 1 x Bluetooth (aptX / aptX HD), 1 x AES3/EBU
Outputs	1 x RCA,1 x XLR, 1 x Headphone, 2 x 12V Trigger, 1 x Optical and 1 x COAX outputs
Sampling Frequency	Optical/Coaxial: 44.1kHz -> 192kHz USB HDD: 44.1kHz -> 96kHz PC USB: 44.1kHz -> 768kHz (PCM) / DSD64, DSD128, DSD256, DSD512
DAC	
D to A Converter	ES9038Pro
Output level (0dBFS, 1KHz)	2.05Vrms (RCA) 4.1Vrms (XLR)
Total Harmonic Distortion (THD)	< 0.001% (1KHz @ 0dBFS)
Frequency Response	20Hz-20kHz (+/-0.1dB)
Output Impedance	120 ohm
Max. Sampling Frequency	USB HDD: 96KHz Optical, Coaxial: 192KHz PC USB: PCM768kHz, DSD512

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Signal-to-Noise Ratio (S/N)	> 118dB (A-weighted, RCA) > 123dB (A-weighted, XLR)
Headphone Amplifier	
Total Harmonic Distortion(THD)	< 0.01% (1kHz, 50mW)
Output Impedance	2.35 ohm
Load Impedance	20-600 ohm
General	
Standby Power Consumption	<0.5W
Net Weight	4.2 kg
Gross Weight	5.8 kg
Dimensions (mm) (W x H x D)	W: 315 x H: 88.3 x D: 277mm
Carton Size (mm) (W x H x D)	W: 409 x H: 220 x D: 451mm
Finish	
Power Requirements	220-240V ~ 50/60Hz
(depending on region)	100-120V ~ 50/60Hz
Standard Accessories	Power Cord, Remote Control, User Manual, etc.



Correct disposal of this product. This marking indicates that this product should not be disp with other household wastes throughout the EU. To prevent possible harm to the environme human health from uncontrolled waste disposal, recycle it responsibly to promote the sustai reuse of material resources. To return your used device, please use the return and colle systems or contact the retailer where the product was purchased. They can take this produ environmental safe recycling.

