

M-ONE

User Instructions

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1: Important Safety Information

Page 1



This lightning flash with 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 the 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.

IMPORTANT SAFETY INFORMATION

Read these instructions.

Keep these instructions.

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 manufacture's instructions.

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 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 replacement of the obsolete outlet.

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



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

Unplug the 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.

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 open space. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table-cloths, curtains etc.

WARNING: Excessive sound pressure from earphones and headphones can cause hearing loss.

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

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

WARNING: The battery shall not be exposed to excessive heat such as sunshine, fire or the like.

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: For the terminals marked with 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 used of ready-made leads or cords.

Mains Supply: The mains operating voltage of M-ONE is shown on the rear panel. If this voltage does not match the mains voltage in your area, consult your Audiolab dealer about converting the unit.

The mains supply fuse on the rear panel is accessible when the IEC mains plug has been removed. In the rare event that it has broken, check for any obvious cause before replacing the fuse with one of the correct rating and type. The fuse values are:

220 - 240V (UK, Korea, etc.) T2AL 250V 20mm Slow Blow

100 - 120V (USA, Japan, etc.) T4AL 250V 20mm Slow Blow



This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.



2: Getting Started

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Welcome to Audiolab and congratulations in your investment in the M-ONE Bluetooth Integrated Amplifier.

M-ONE is a tour-de-force in integrated amplification, combining the role of a sophisticated and versatile control unit that accepts a multiplicity of input sources with a highly charged power amplifier that will match superbly with any loudspeaker.

If you were able to look inside you would find a marvel of electronic engineering encompassing an ultra-high performance DAC (Digital to Analogue Converter) that maximizes the musical capability of the M-ONE.

In addition versatility is provided via the Bluetooth (with aptX codec), USB, iPhone/iPad and Digital coax connections as well as two analogue line inputs. Support PCM and DSD decode, sampling rate high to PCM 384kHz and DSD256.

Whatever source of music you prefer to use, M-ONE will delight your ears with an engaging and dramatic presentation that we are sure you will continue to enjoy for many years to come.

Please read through this manual to obtain the very best performance from M-ONE.

Signal Input:

- One external SPDIF stereo LPCM coaxial digital input
- One external SPDIF stereo LPCM optical digital input
- One Bluetooth aptX wireless high fidelity input
- One 12V trigger input
- USB 2.0 port for replaying stereo from a compatible host
- IOS docking for iPhone/iPad/iPod

Signal Output:

- Loudspeaker output.

Operating Features:

- Bluetooth aptX wireless high fidelity Lossless transmission
- Automatic detection decoding of external digital input source.
- Selectable digital filters setting.

- Mute and balance remote controls.
- Two display brightness available with on/off options.
- Auto standby function with function on/off options.

Unpacking

Unpacking the product fully. The carton should contain:

- The Audiolab M-ONE
- Remote handset
- One M-ONE power cord suitable for your area.
- This instruction manual.

If an item is missing or damaged report this to your dealer as soon as possible. Retain the packing for safe transport of your unit. If you dispose of the packing, do so with regard to any recycling regulation in your area.

USB DRIVERS (AND FIRMWARE UPDATES)

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

Placement

The unit is designed to run warm during normal operation but ensure you do not block any ventilation openings.

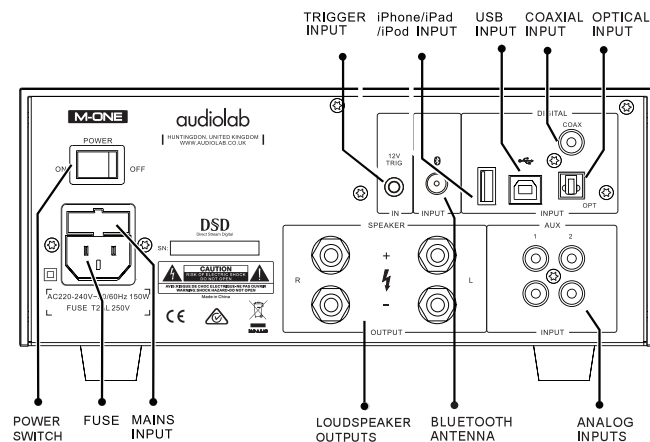
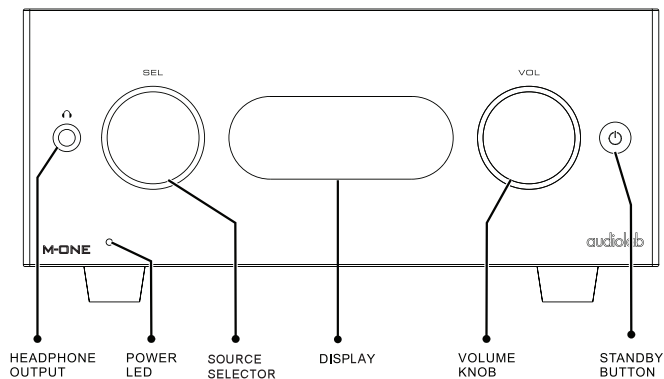
Place the unit on a sturdy shelf or table. If you use an equipment rack ensure the unit has adequate ventilation and is on its own shelf. To minimize any interference place the power supply in a stable location as far from sensitive analogue input as possible.

Ensure your mains voltage corresponds to the rating plate on the rear of the product's power supply. If in doubt, consult your dealer. If you move to an area with a different mains voltage seek advice from an Audiolab appointed dealer or a competent service technician.



3: Controls and Connectors

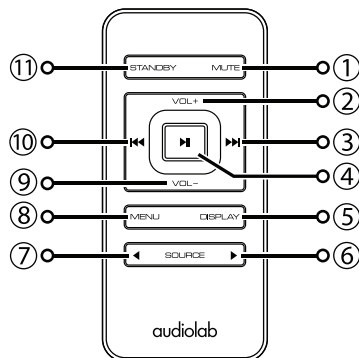
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4: Remote Handset

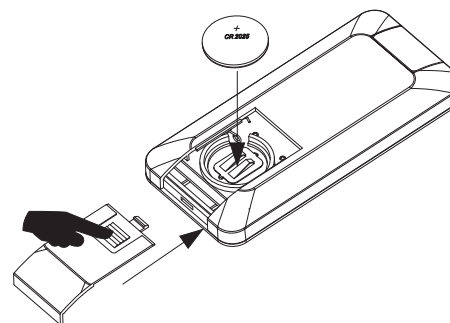
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- | | | |
|----|---------|---|
| 11 | STANDBY | Press to bring the unit in/out of Standby |
| 1 | MUTE | Press to mute and unmute the sound |
| 2 | VOL+ | Increase Volume |
| 3 | ▶▶ | Move to the next track of PC USB/iPod USB
Move to next page or setting in menu |
| 4 | ▶ | Press to start/pause PC USB/iPod USB
Press to confirm page or setting selected in menu |
| 5 | DISPLAY | Press to cycle through display options |
| 6 | ▶ | Press to select next source |
| 7 | ◀ | Press to select previous source |
| 8 | MENU | Press to enter or exit menu |
| 9 | VOL- | Decrease Volume |
| 10 | ◀◀ | Press once to replay the current track of PC USB/iPod USB
Press again to move to the previous track of PC USB/iPod USB |

Preparing the Handset

- Unpack the handset
- Invert the handset
- Remove the battery cover
- Place a new battery as shown
- Close the battery cover



Battery Caution

- There is a risk of fire and burns if the battery is handled improperly
- Do not disassemble, crush, puncture, short external contacts or dispose in fire or water.
- Do not attempt to open or service the battery. Replace only with a CR2025 battery.
- Discard used batteries in accordance with recycling regulations in force in your area



5: Connections

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Headphone Output

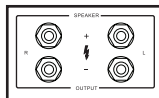
A stereo 6.3mm (1/4") jack is provided on the front panel for connect headphones. Connecting headphones mutes the audio signal. M-ONE headphone output is up to +20dB, users can select suitable output level base on their headphones.

Caution: When using headphones, playing music at very high volumes may permanently damage your hearing.



Speaker Output

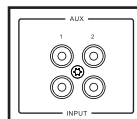
One pair amplifier output is provided on real panel to connect loudspeakers. Loudspeaker cables should be prepared carefully. Make sure that all channels are connected in phase. The positive (red) output terminal of each channel should be connected to the positive (red) terminal of the speaker.



Analogue Inputs

Unbalanced Input

Connect a high quality screen RCA Phono cable to the unbalanced inputs AUX 1 or AUX 2 of the M-ONE.



Digital Inputs

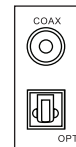
USB Port

Use a certified USB2.0 cable. Connect the cable to M-ONE and then to the USB port on the digital source. If the media player on your computer features stereo and multichannel output, set the output, set the output of the media player to stereo.



SPDIF Inputs

one coaxial and one optical inputs are provided for connect the M-ONE to an external SPDIF source. Connect a suitable video or optical cable from the SPDIF output of the source component to the appropriate input of the M-ONE.



12V Trigger Input

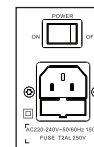
If you have a Audiolab system, we advise connecting the triggers. This will enable all Audiolab units to be brought in and out of standby along with the control units.

To connect your control unit, you will need a cable with one end to match the trigger output of the control unit and the other terminating in a 3.5mm jack plug. For Audiolab M-ONE this will be a 3.5mm – 3.5mm interconnect.



Power Input

Before connecting the M-ONE to the mains supply make sure that all the other connections to your system have been properly and securely made. Make sure the ON/OFF switch on the M-ONE real panel is switched off, switch the mains supply off at the wall socket, and then using the cable supplied, connect the socket on the back of your M-ONE to an AC supply outlet. The DAC is now ready for operation.





6: Operation - 1

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Switching On and Off

Connect power to all system units, switch the mains on. Switch on all the source units, and then switch on the power amplifier including M-ONE.

When switching on: The power LED illuminates.

When switching off: Switch off M-ONE, unless it's trigger enabled, and then the source units.

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Standby Mode

Audiolab M-ONE will be in standby mode when powered on. Press the  button to bring M-ONE out of standby, the power indicator LED becomes brighter and the display shows the welcome screen. You can activate the "auto standby" function in the menu Using this "auto standby" function, M-ONE will automatically go into standby mode when there is no signal input or operation for 20 minutes, when the power indicator LED becomes dim.

Source Select

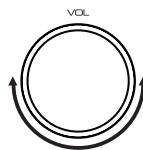
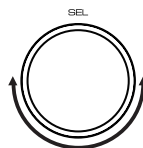
Rotate the SEL knob on the front panel to select different source inputs. M-ONE has COAX, OPT, PC USB, USB A, BT, AUX1 and AUX2 - in total 7 signal inputs available.

Altering the Volume Level

Rotate the VOL knob on front panel to alter the volume level.

The range is -80dB to +8dB, the factory default volume is -20dB. If the volume is set to lower than -20dB when unit is shut down, the default volume will be the last used value when the unit next starts up. If the volume is set to higher than -20dB, the default volume will be -20dB when the unit next starts up.

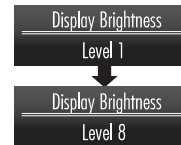
Pressing the VOL knob on the front panel or the MUTE button on the remote control can toggle the sound on/off.



Switching the display on and off

Press the DISPLAY button to toggle the display off/on. When the display is set to OFF: Pressing any key will bring the display on. After a few moments the display will again switch off.

To alter the display brightness: Press and hold the DISPLAY button. The current brightness level display, press DISPLAY button repeatedly



Footnotes on the Display

The M-ONE provides a true reading of the digital input frequency. For example when a stable 44.1kHz input is present you may see the display vary between 44.100k and 44.1001k. This indicates an error of 1Hz in 44.100kHz and is insignificant. A less stable source may vary more. This option may be disabled in the menu if you prefer.

When the digital input is off, M-ONE display always shows the nominal value.

Playing a PC USB input

To use the USB input for the first time, the device requires the installation of the USB driver.

Download the driver via www.audiolab.co.uk, please refer to the file when installing the software. Connect your computer to M-ONE 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.

"Unlocked" 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 input data as soon as there is an input signal for USB. The display screen will then indicate the presence of a digital signal and show the output sampling frequency of the music file in your computer.

If the input sampling frequency is 384kHz, the display shows PCM384 kHz.

If the format of the music file is DSD64, the display shows DSD2.8MHz.

If the format of the music file is DSD128, the display shows DSD5.6MHz.

If the format of the music file is DSD256, the display shows DSD11.2MHz.

PC USB -28dB
Unlocked

PC USB -20dB
DSD 11.2MHz



6: Operation - 2

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Playing Music via Bluetooth

You can wirelessly connect M-ONE to a music source via Bluetooth wireless technology. Volume up/down can be controlled from either your Bluetooth source or from M-ONE. Other functions – play, pause, previous track, next track, fast forward and reverse are all controlled from your Bluetooth source only.

To play music

Select M-ONE as a music output device on your Bluetooth source to start playing music.

Disconnecting Bluetooth Connection

To disconnect the Bluetooth music source either

- Move the Bluetooth source beyond the communication area
- Turn off the connected device or turn off its Bluetooth function

Note:

If you have difficulty connecting M-ONE to a Bluetooth device, please try selecting “Forget this Device” on your source unit and then go through the connection procedure again.

Selecting a Digital Filter

M-ONE has 3 PCM filters and 4 DSD filters available. Press the remote control MENU key to enter menu mode, press ◀◀ or ▶▶ to access the “Digital Filter” or “DSD Bandwidth” menu page, press ▶◀ to enter the filter page, press ◀◀ or ▶▶ again to select a different filters, press ▶◀ again to confirm the chosen filter. Pressing the SEL knob on the front panel can also enter the menu mode, rotating this knob turns the menu page to “Digital Filter ” or “DSD Bandwidth”, press the SEL knob again to enter this page and then rotate the knob to change filters, press the SEL knob again to select a filter.

The “Sharp Rolloff” filter typifies industrial standard characteristics (-6dB at 1/2 Fs with significant time-domain ringing) and is included here for comparison purposes.

The “Slow Rolloff” filter starts rolling off at a lower frequency than the Sharp Rolloff filter but has a gentle rate of attenuation and significantly less “time-domain ringing”. It is not recommended to use this in normal operation, unless the digital signal from a source is very poor and cannot play with other filters.

The “Minimum Phase” filter has a gentle attenuation slope similar to the Slow Rolloff option, however it exhibits no pre-ringing in the time domain. It can be likened to an analogue filter applied in the digital domain.

For DSD mode, there are four filters “Normal”, “50K”, “60K” and “70K” with cutoffs at 47k, 50K, 60k, 70k. The user can adjust the IIR bandwidth by selecting different filters to get particular sonic nuances.

7: The Menu

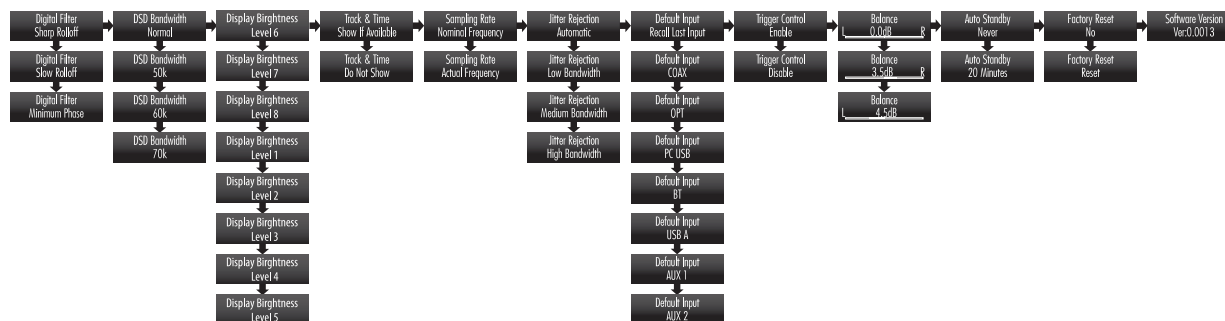
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The menu enables you to customize the unit and optimize the interface with other equipment in your system.

M-ONE has 12 different menu pages. Press the MENU key on the remote control to enter menu mode, and then press ◀◀ or ▶▶ to turn to different menu pages, press ▶ to enter any menu page, press ◀◀ or ▶▶ again to select different settings, press ▶ to confirm the chosen setting and exit the menu mode. Pressing the SEL knob on the front panel can also enter the menu mode, rotating this knob turns through the menu pages; press the SEL knob again to enter any menu page and rotate the knob to change the setting, press the SEL knob again to select a setting. No operation for 5 seconds will also exit menu mode automatically. The setting will not take effect if ▶ or the SEL knob is not pressed.

The Menu Tree

The chart shows the menu options. The default settings are at the top.





8: Warranty

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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 authorized agents or distributors.

Any unauthorized 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 county of purchase, applies only to the first purchaser and is not transferable.

The following are not covered:

1. Products which the serial number have been removed, altered or otherwise made illegible.
2. Normal wear tear and cosmetic damage.
3. Transportation or installation of the product.

Accidental damage, fault caused by commercial use, acts of God, incorrect installation, connection or packing, misuse, neglect or careless operation or handling of the product which is not in accordance with Audiolab's user instructions.

1. Repairs or alterations carried out by parties other than Audiolab or its authorized agents or distributors.
2. Products not purchased from an Audiolab authorized dealer.
3. Products that were not new at the time of original purchase.
4. 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 limit 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 U.S. 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 county to county.

How to claim:

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

If asked to return products for inspection and/or repair, pack carefully, preferably in the original cartons or packing 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 and goods are returned at owner's risk. Audiolab or their authorized distributors cannot be held liable for loss or damage in transit.



9: Specifications

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(Measurement made with 230V power supply)

Pre-Amplifier Section

Gain	35.5dB (line inputs)
Input sensitivity	800mV (line inputs)
Input impedance	10K (line inputs)

Power Amplifier Section

Rated power output	2 x 40W RMS (8 ohm)
Frequency response	-3dB (10Hz - 30kHz, Ref. 1kHz) -1dB (20Hz - 20kHz, Ref. 1kHz)
Total harmonic distortion (THD)	0.01% (@1kHz, 1W, 20Hz - 20kHz)
Signal-to-noise ratio (S/N)	81dB (1W, @1kHz)
Standby Power Consumption	<0.5W
Dimensions (W x H x D)	246.5 x 114 x 295 mm
Carton size (W x H x D)	411 x 227 x 415 mm
Net weight	5.5kg.
Gross weight	6.5kg.
Power Requirements	220 - 240V (50 ~ 60Hz)
(depending on region)	100 - 120V (50 ~ 60Hz)



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



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