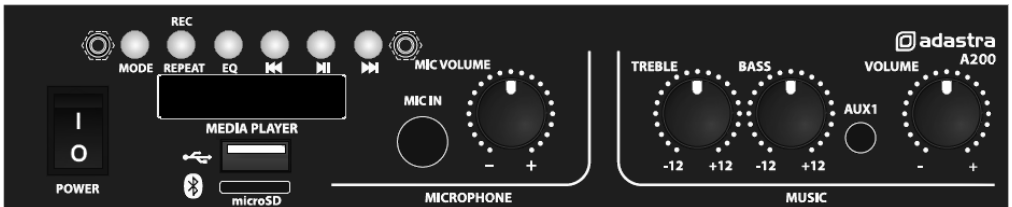


A200

Class-D Compact Music Amplifier

Item ref: 953.425UK

User Manual



Version 1.0



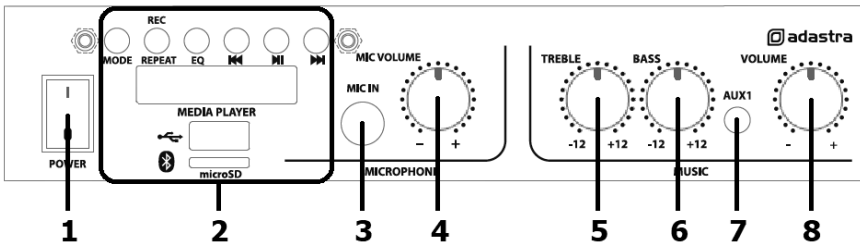
Caution: Please read this manual carefully before operating

Damage caused by misuse is not covered by the warranty

Introduction

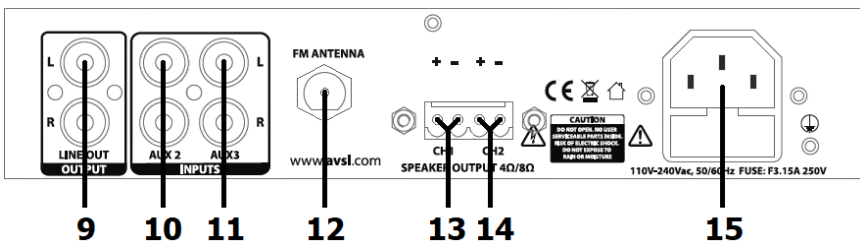
Thank you for choosing the A200 to power your sound system. This compact digital amplifier has been designed to provide a flexible background music and public address solution in a discreet and easy-to-use format. Please read and keep this user manual to achieve the best results from your equipment and avoid damage through misuse.

Front Panel



- | | | | |
|---|----------------------------------|---|-------------------------------|
| 1 | Power on/off switch | 5 | Music TREBLE EQ control |
| 2 | Media player | 6 | Music BASS EQ control |
| 3 | Microphone input 6.3mm mono jack | 7 | AUX 1 input 3.5mm stereo jack |
| 4 | MIC VOLUME control | 8 | Music VOLUME control |

Rear Panel

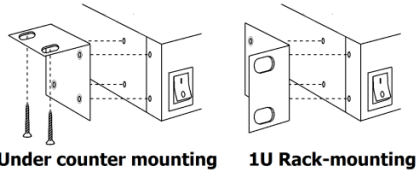


- | | | | |
|----|-------------------------|----|---------------------------------------|
| 9 | LINE OUT output L+R RCA | 13 | CH 1 speaker out +/- screw terminals |
| 10 | AUX 2 input L+R RCA | 14 | CH 2 speaker out +/- screw terminals |
| 11 | AUX 3 input L+R RCA | 15 | IEC mains power inlet and fuse holder |

Placement

The A200 amplifier is supplied with 4 mounting brackets, which can be fixed to the sides of the housing with the tab facing upwards to enable the A200 to be mounted under a counter-top

The A200 can even be mounted against a wall.



Alternatively, the A200 may be used free standing on any flat surface or 2 units can be mounted side-by-side in a 19" rack with one mounting bracket facing forwards at each side, occupying a 1U rack space (the 4 self-adhesive feet will need to be removed to allow this)

Speaker connections

The A200 has 2 speaker outputs - CH1 and CH2 - on a single removable screw terminal block, which can be wired as Left and Right stereo outputs. (13, 14)

Connect the negative "-" screw terminal to the negative "-" speaker terminal(s)

Connect the positive "+" screw terminal to the positive "+" speaker terminal(s)

Use speakers with a combined impedance no lower than 4Ω for each output channel.

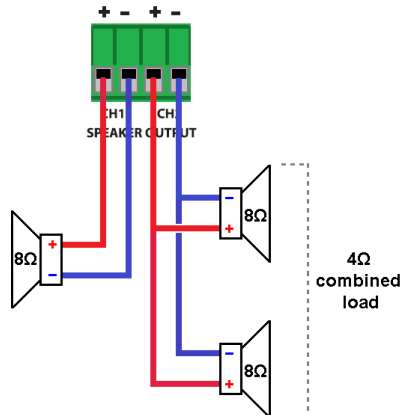
- If each speaker being connected is 4Ω, then connect only 1 speaker to each channel.
- If each speaker is 8Ω, you can connect 1 speaker or 2 speakers in parallel per channel.
- Do not connect more speakers to either channel, as this may cause damage to the A200.

An example of wiring 8Ω speakers to the A200 is shown opposite.

A single 8Ω speaker may be connected to a channel or 2 may be connected in parallel to present a combined 4Ω load to the output.

The impedance of the load, measured in "Ohms" (Ω), will also determine the power.

The amplifier delivers its maximum power output at the minimum impedance rating (4Ω). If the impedance is higher (e.g. 8Ω), then the output from that channel will be lower.



The combined load on each output shares the power from that amplifier channel.

This means that if two 8Ω speakers are connected to a single output in parallel, they will each receive half of the full power. If the amplifier is delivering 50W to two 8Ω speakers connected in parallel, they must each be able to handle 25W.

Input connections

The A200 has a 6.3mm microphone input and a media player (2) with several options for stereo music playback, including the internal media player and 3 stereo AUX line inputs.

If a microphone is to be used for announcements, turn the MIC VOLUME control (4) down and connect a wired microphone to the MICROPHONE jack input (3) on the front panel, using a microphone lead terminated with a 6.3mm plug.

A smart phone, tablet or mp3 player can be connected to the AUX1 jack (3.5mm stereo) on the front panel (7)

Likewise, other stereo audio sources, such as CD player, DAB+/FM tuner, TV or satellite decoder may be connected via the AUX2 and AUX3 L+R RCA inputs on the rear panel (10, 11)

The 3 AUX inputs are all selected via the MODE button on the built-in media player section.

The other stereo input source options are mp3 playback from USB or microSD, FM tuner and Bluetooth, which are all handled by the built-in media player.

For good reception of FM radio stations (if needed) in the media player, the A200 has an "F" connector (12) on the rear panel which can be connected to an external FM antenna (aerial) This is recommended if the FM tuner is to be used.

For mp3 playback, it is necessary to insert a USB flash drive into the USB port and/or a microSD card into the microSD slot on the front panel. These inputs are described in more detail in the **Media Player** section on the following pages.

The memory devices (USB or microSD) must be formatted to FAT32 and have standard mp3 audio files stored on them.

To link the audio output (music + microphone) of the A200 onto further equipment or as part of a larger sound system, connect the LINE OUT (9) connectors (L+R RCA) to the left and right line input of the additional equipment.

Once all the above connections are made, ensure that the power is switched off (1) and connect the IEC power inlet (15) to the 230Vac mains supply, using the IEC lead provided.

Operation

When all connections have been made as described above, turn down the MIC VOLUME and MASTER VOLUME control and switch on the power.

If a microphone is connected, gradually increase the MIC VOLUME whilst speaking into the microphone until the required level is reached through the speakers.

Note: Avoid pointing the microphone towards the speakers, which may result in feedback (loud whistling or howling caused by the microphone 'hearing' its own output)

The A200 has an inbuilt media player section, which governs all background music and playback options (independently of the microphone input). Full details of the media player operation are shown overleaf.

The Media player output level is governed by the music VOLUME control (8).

The tonal character of the media player and line inputs is adjusted via the TREBLE and BASS EQ controls (5, 6)

Turning the TREBLE control clockwise boosts the higher frequencies, whilst turning it anticlockwise reduces the higher frequency content. Reduce the TREBLE level if there is screeching feedback from the microphone or if playback is too thin or tinny sounding. Increase the TREBLE level if the sound is muffled and not clear.

Turning the BASS control clockwise boosts the lower frequencies, whilst turning it anticlockwise reduces the lower frequency content. Reduce the BASS level if there is low howling feedback from the microphone or if playback is too boomy and distorted. Increase the BASS level if the sound is too thin with not enough warmth or depth.

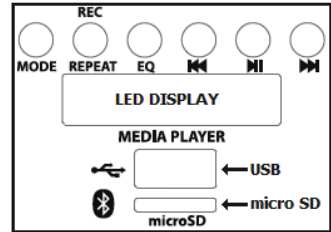
Be aware that a combination of Mic volume, Music volume, Treble and Bass all add up to drive the amplifier and if all are turned up, this can result in overdrive (aggressive and growly or fuzzy output) which can be damaging to connected speakers and the amplifier. Turn the output levels down if this happens until the distorted sound becomes cleaner and clearer.

Before powering the A200 off, ensure that the volume controls are turned down to avoid loud noises or pops through the connected speakers.

Media player

The media player has several different audio source options, which are accessed using the "MODE" button. Five more buttons control the playback (and recording) of tracks, which is displayed in the LED display directly below the buttons.

Below the LED display is a USB port for inserting a flash drive (USB pen drive) and below this is a slot for a micro SD card (or TF card) Functions of the media player are described in the table below.








Function	Display	Description
MODE	<i>AUX 1</i>	Select front panel AUX1 input 3.5mm stereo jack
	<i>AUX2</i>	Select rear panel AUX2 input L+R RCA connectors
	<i>AUX3</i>	Select rear panel AUX3 input L+R RCA connectors
	<i>000 1</i> <i>88-88 1P3</i>	Mp3 playback - only if USB/microSD inserted
	<i>[HD 1</i> <i>888-B 1H2</i>	FM radio station – shows channel, then frequency
	<i>BLUE</i>	Bluetooth mode
REPEAT	<i>ONE</i>	Repeat single track
	<i>FOLD</i>	Repeat all tracks in the current folder
	<i>RND</i>	Play all tracks in random order
	<i>ALL</i>	Repeat all tracks on media
REC	<i>88-88</i>	Hold REPEAT for 5 seconds in AUX or FM modes to record to USB or SD (if no USB) press pause to stop. Note: cannot record from BT / USB / microSD
EQ	<i>E9 1</i>	EQ1 = POP
	<i>E9 2</i>	EQ2 = CLASSICAL
	<i>E9 3</i>	EQ3 = ROCK
	<i>E9 4</i>	EQ4 = JAZZ
	<i>nor</i>	Normal output – no additional EQ
⏮		Previous track or FM channel (station)
▶	<i>PAUS</i> (paused mp3)	Play or pause the current track (USB/SD/Bluetooth)
⏭		Next track or FM channel (station)

Remote control

The A200 is supplied with a handheld infra-red remote control, which shares many of the front panel functions along with some additional controls, as described below.



	Media player power on/standby button
	Repeat mode – select Random, One, Folder or All tracks
MODE	Select USB, SD, FM tuner or Bluetooth mode
CH- / CH+	Select FM radio station
EQ	Select EQ – Bass, Pop, Rock, Jazz, Classical or Normal
	Previous or Next track select
	Play / Pause track (auto-tune in FM tuner mode)
	Adjust media player volume down or up
0 - 9	Direct track or channel access – key in track number

Bluetooth connection

The Bluetooth function allows connection of a smart phone or tablet to the media player section for playback of stored files or streamed digital audio. To enable this function, it will be necessary to pair the sending device to the receiver as follows.

1. Press the media player MODE button until the display shows "BLUE"
2. Open the Bluetooth settings menu on the smart phone or tablet
3. Scan for Bluetooth devices and look for "A200" in the list of available devices (ensure that the A200 is powered on with Bluetooth selected and within reception range)
4. Select "A200" and the sending device should confirm that it is connected as an audio device.
5. Play audio from the sending device, ensuring that volume controls are not turned down or muted

If the sending device goes out of range, connection will only resume when back in range. Likewise, if a different mode is selected, connection should resume when Bluetooth mode is re-selected.

If Bluetooth is disabled on the sending device or paired to a different receiver, it will be necessary to re-connect the sending device to the A200 from step 2 above to re-establish a Bluetooth link.

Specifications

Power supply	230Vac, 50Hz (IEC)
Output impedance	4 - 8 Ohms (each channel)
Output power: 8 Ohms	2 x 35W rms / 2 x 55W max. (@ 1kHz 10% THD)
Output power: 4 Ohms	2 x 55W rms / 2 x 100W max. (@ 1kHz 10% THD)
Inputs: line	Aux 1 (3.5mm), Aux 2 (L+R RCA), Aux 3 (L+R RCA)
Input: mic	6.3mm jack
Controls	Mic Volume, Treble, Bass, Music Volume
Audio source	USB/microSD player, FM tuner, Bluetooth
Antenna connection	F-type (FM tuner)
Dimensions	215 x 180 x 43mm



Disposal: The "Crossed Wheelie Bin" symbol on the product means that the product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.

Hereby, AVSL Group Ltd. declares that the radio equipment type 953.425UK is in compliance with [Directive 2014/53/EU](#)

The full text of the EU declaration of conformity is available at the following internet address:
<http://www.avsl.com/assets/doc/9/5/953425UK.pdf>

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