

## RMC-2150

Multi-Player Mixer-Amp 2 x 150W

Item ref: 953.300UK

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 Adastra RMC-2150 multi-player Mixer-amplifier as part of your sound system. This stereo amplifier offers high quality playback of digital audio media, DAB+ and FM radio stations. Please read this manual to gain the best results from your product and avoid damage through misuse.

### SAFETY SYMBOL AND MESSAGE CONVENTIONS



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

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



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



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



### SAFETY NOTICE

1. Prior to use, read through this manual
2. Keep the manual in good condition
3. Pay attention to safety warnings
4. Observe all operating requirements
5. Do not use the device near water or wet areas
6. For cleaning, only use a lint-free, dry cloth
7. Install according to the specifications
8. Place away from heat sources or heating appliances
9. Use mains lead provided and avoid damage to cable or connectors
10. Unplug power from mains during stormy weather or if unused for long periods
11. In case of malfunction, water ingress or other damage, consult qualified service personnel
12. Do not place in damp areas or near liquids or moisture. Do not spill liquids on the housing
13. Please pay attention to warning symbols during transit and placement
14. Terminals marked with the ⚡ symbol are HAZARDOUS LIVE and should only be connected by qualified personnel
15. Ensure that the apparatus is connected to a mains socket with a protective EARTH connection
16. Ensure correct operation of the mains switch

### Warning

To prevent the risk of fire or electric shock, do not expose any components to rain or moisture. If liquids are spilled on the casing, stop using immediately, allow unit to dry out and have checked by qualified personnel before further use. Avoid impact, extreme pressure or heavy vibration to the case. Do not allow foreign objects into the CD slot or USB inputs. No user serviceable parts inside – Do not open the case – refer all servicing to qualified service personnel.

### Safety

- Check for correct mains voltage and condition of IEC lead before connecting to power outlet

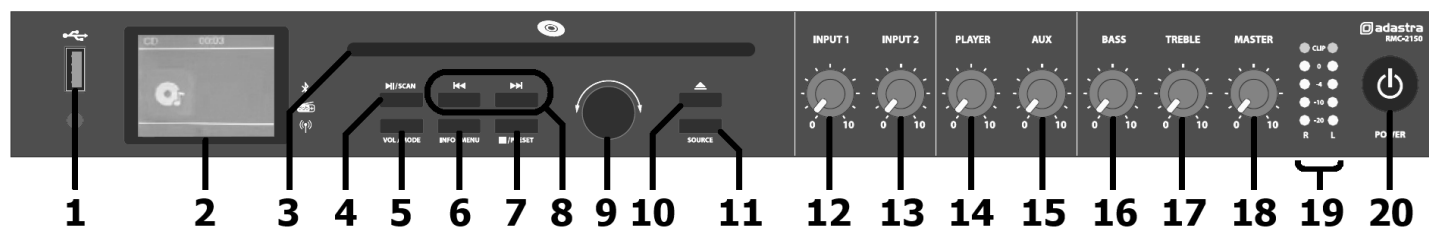
### Placement

- This unit can be used free-standing or fixed into a 19" rack using the rack ears provided.
- Ensure adequate support and access to controls and connectors when rack-mounting

### Cleaning

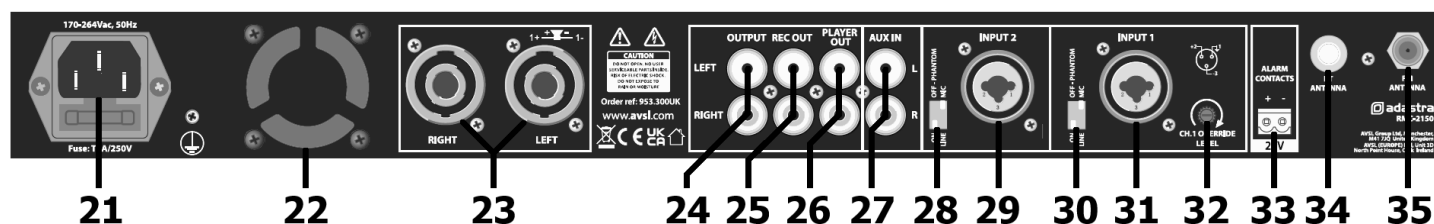
- Use a soft cloth with a neutral detergent to clean the housing as required
- Use a vacuum cleaner to clear apertures and controls of any dust or debris build-ups
- Do not use strong solvents for cleaning the unit

## Front panel



- |                           |                         |
|---------------------------|-------------------------|
| 1. USB port               | 11. Source select       |
| 2. Backlit colour display | 12. Input 1 level       |
| 3. CD slot                | 13. Input 2 level       |
| 4. Play/Pause/Scan        | 14. Player level        |
| 5. Volume/Mode select     | 15. Aux input level     |
| 6. Info/Menu              | 16. Bass EQ             |
| 7. Stop/Preset select     | 17. Treble EQ           |
| 8. Previous/Next          | 18. Master output level |
| 9. Rotary encoder         | 19. VU meters           |
| 10. Eject CD drive        | 20. Power on/off        |

## Rear panel



- |   |   |
|---|---|
| 21. Mains power inlet IEC and fuse holder | 29. Input 2 XLR/jack connection         |
| 22. Cooling fan                           | 30. Input 1 Phantom + Mic/Line switches |
| 23. Speaker output R+L                    | 31. Input 1 XLR/jack connection         |
| 24. Main mix output L+R RCA               | 32. Input 1 override level              |
| 25. Record output L+R RCA                 | 33. 24V emergency mute contacts         |
| 26. Player only output L+R RCA            | 34. Bluetooth antenna connection        |
| 27. Auxiliary input L+R RCA               | 35. FM antenna connection (F-type)      |
| 28. Input 2 Phantom + Mic/Line switches   |   |

## Connection

Ensure the Power (20) is switched off until all input and output connections are in place. Turn all rotary level controls (12-15) and Master level (18) fully down (anti-clockwise) to avoid loud noises when switching on.

Set the BASS and TREBLE Tone controls (16, 17) to the vertical position (zero)

Channels 1 and 2 can accept microphones or mono line level inputs, such as CD, TV or electronic keyboard. Connect the main microphone or line level signal to Mic/Line 1 input (31) on the rear panel via balanced XLR or 6.3mm jack. Connect a further microphone or line level source to the Mic/Line 2 input if required (29). In both cases, set the DIP switches for channels 1 and 2 (28, 30) to suit the input source.

If condenser mics are being used in either input 1 or 2, these must be connected via XLR, selected to Mic level and with Phantom power switched on via the DIP switches (28, 30). If phantom power is not needed, it should be switched off.

A further stereo line level source may be connected to the AUX input via L+R RCA sockets (27)

Loudspeakers should be connected to the RMC-2150 via Speakon leads to the Left and Right outputs (23). These are wired inside each connector to the 1+ and 1- terminals.

**Important:** Ensure that the load is no lower than  $4\Omega$  for each output.  
(e.g. 2 x  $4\Omega$  speakers... or... 2 pairs of  $8\Omega$  speakers wired in parallel)  
Ensure that the speakers can handle 150W from each output.

Main mix line outputs are available on L+R RCA (24) for connecting onto further amplifiers or active speakers. Record outputs on L+R RCA (25) are unaffected by the Master level control. In addition, the L+R Player Out RCA connectors (26) only deliver the output of the player section. (i.e. without Mic/Line 1 & 2 and Aux)

For Bluetooth reception, connect the supplied mini antenna to the Bluetooth antenna connection (34). This antenna may need to point sideways or straight out if rack-mounted. Use the position that gives the best reception. For the FM and DAB+ tuner to function correctly, it is advisable to connect a suitable aerial to the F type antenna connector (35)

If available, connect a 24V trigger from an alarm panel to the alarm contacts (33) to mute all except channel 1 in an emergency.

Connect the rear IEC inlet (21) to the mains using the supplied mains lead (or an equivalent approved type). Ensure that the supply voltage is correct for this equipment and that the mains outlet is switched on.

## Operation

If any other amplifiers or active speakers are connected to the line outputs, keep these switched off until the RMC-2150 is powered up.

Switch on the power (20) and the backlit display will light (2). When powered up, the default standby display is a clockface with the date and day shown above. Turn up the Master level (18) part way. If connected, speak into a microphone whilst gradually turning up its relative channel level control (12, 13)

If no microphones are connected, a line input or the internal player (see below) can be used for checking. The L+R output meters (19) should light up and the sound should be heard through the connected speakers. Increase the Master output level if required and set the relevant channel level control to the required volume. Repeat the above steps for any other inputs whilst balancing the levels between channels as required. For the AUX line input, a single rotary control (15) adjusts the level of both left and right RCA inputs.

Channel 1 input also has a priority function which attenuates all other channels when there is a signal on Ch.1. Turning the CH.1 override level control (32) clockwise increases the amount that it mutes all other channels.

Sensible use of the output meters (19) will help to avoid overdriving the amplifier outputs. The +10dB LED should only light briefly on percussive or transient parts of the sound (i.e. bass drum). If the +10dB LED is lit for any longer than short bursts, the level controls will need to be turned down. This will avoid signal clipping and overdrive, which can be damaging to the speakers.

For overall tone adjustment, moving the BASS and TREBLE EQ controls (11, 12) can help to tailor the sound quality as required.

If the sound is too thin sounding, turn up the BASS rotary. If it is too deep sounding, reduce the BASS level. If the sound is not very clear, turn up the TREBLE rotary. If it is too harsh sounding, reduce the TREBLE level.

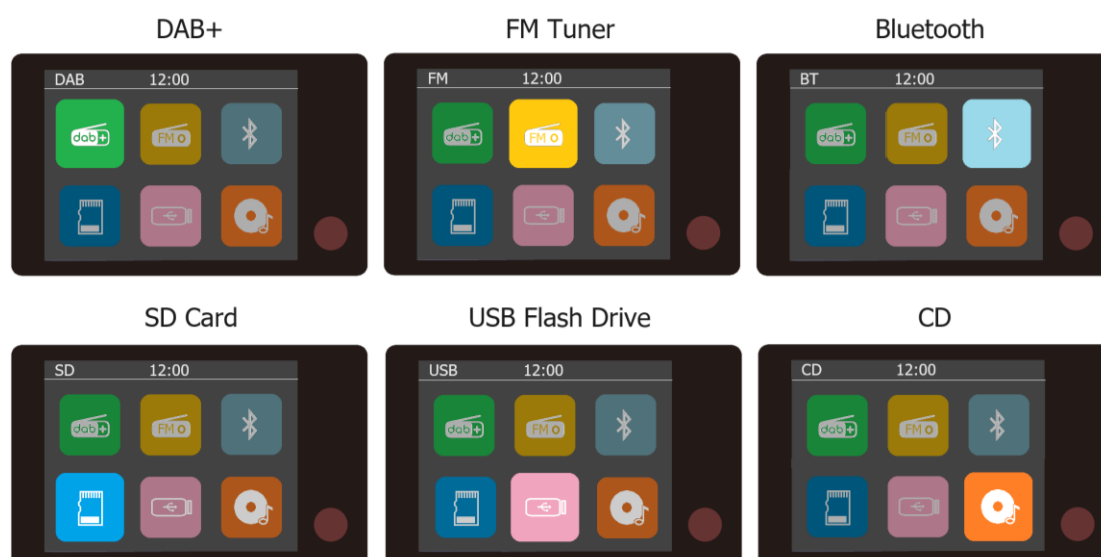
## Player section: Settings

When in standby mode (clock face), pressing the INFO/MENU button (6) will enter the main settings Menu. Press the encoder (9) to enter a setting and rotate to adjust. Press again to confirm or Info/Menu to go back.

Backlight	Timeout adjusts time to dim backlight. Brightness adjusts overall backlight brightness.
Time/Date	Date/Time manually adjusts date & time. Hour System is 12 or 24-hour. 3 x Date Format.
	Clock Style can be Analog or Digital face. Auto update is No Update or Update from Radio.
Language	Language can be set to English, Deutsch, Français or Italiano.
Factory Reset	Select YES to return to factory settings or NO to go back.
System Version	Displays the current firmware version.

## Activation and Source Selection

On power-up, the player will revert to the last source setting (DAB+, FM, BT, SD, USB, or CD). To change this, press the Source select button (11) and turn the rotary encoder (9) to the required option. The display will step through 6 options as shown below.



When the required source is highlighted, press the encoder to confirm.

## DAB / DAB+ Tuner

When the DAB+ source is selected, the RMC-2150 is in DAB / DAB+ tuner mode and may already have some stations stored as presets. The last selected station will be playing with the station title above and text information next to the DAB+ symbol in the display.

The information displayed can be selected by repeatedly pressing the Info/Menu button (6). One of the Info options is a red bar graph, showing the strength of the DAB+ signal. This can be useful for adjusting the position of the antenna or checking reception from an external aerial.

The playback volume is governed by the Player level control (14) and can also be adjusted by pressing the Volume / Mode button (5) and turning the rotary encoder (9) to pre-set the output level.

The list of preset stations can be stepped through by either pressing the Previous/Next buttons (8) or turning the rotary encoder (9) and then pressing the rotary encoder to select the highlighted station.

To re-tune all pre-set stations, activate the auto-tuning feature of the RMC-2150 by holding the Play/Pause button until a scanning bar graph is displayed. When the bar graph reaches 100%, all available stations will be stored in memory for selection when required.

## FM Tuner

The FM tuner option can be useful where there is no DAB or DAB+ signal available and operates in a similar way to the DAB+ tuner.

The text information displayed next to the FM symbol can be selected by repeatedly pressing the Info/Menu button (6).

The playback volume can be adjusted by pressing the Volume/Mode button (5) and turning the rotary encoder (9) to set the output level.

Unlike the DAB+ tuner, turning the rotary encoder (9) manually tunes the reception frequency in steps of 0.05MHz. Pre-set stations are selected by pressing the Previous/Next buttons (8) or pressing the Stop / Preset button (7) and then using the rotary encoder to select from a drop-down list. Pressing the encoder to select the highlighted station.

To re-tune all pre-set stations, activate the auto-tuning feature of the RMC-2150 by holding the Play/Pause button until a scanning bar graph is displayed. When the bar graph reaches 100%, all available stations will be stored in memory for selection when required.

## Bluetooth Receiver

Selecting the BT source option ("B" rune symbol) opens the inbuilt Bluetooth receiver. A device that is previously paired with the RMC-2150 via Bluetooth will auto-connect if it is within BT wireless range.

To pair a new device, press the Source button (11) to initiate pairing on the RMC-2150. Open the Bluetooth menu on a smart phone or other sending device and search for the device called "Adastra RMC-2150" and select to pair. Once paired, the display will state "Connected" or "Playing" and show the name of the connected device. This device will stream any audio playback wirelessly to the RMC-2150.

The playback volume can be adjusted by pressing the Volume/Mode button (5) and turning the rotary encoder (9) to set the output level.

During Bluetooth playback, the Play/Pause/Scan button (4) will pause or play the current track remotely on the sending device. The Previous/Next buttons (8) or turning the rotary encoder (9) will select the track being played.

## Playback controls for CD & USB

CD and USB card player modes have some common controls for playback, navigation and display.

The playback volume can be adjusted by briefly pressing the Volume/Mode button (5) and turning the rotary encoder (9) to set the output level.

A short press of the Previous/Next buttons (8) or turning the rotary encoder (9) will select the track being played. Holding the Previous/Next buttons will fast reverse or fast-forward the track being played.

Pressing and holding the Volume/Mode button (5) enters the Play Mode menu, offering Repeat One, Repeat All, Random and Normal playback modes, selectable using the rotary encoder.

## **CD Playback**

The RMC-2150 has a mode for playing standard audio CDs (playback of other disc formats is not supported). To play a CD, use the source select procedure to enter CD mode. If you are unsure if a disc is already loaded, press the eject button (10), which will push any CD that is already loaded back out of the CD slot (3).

To load a CD, carefully feed a disc into the slot 'label up' and the mechanism will draw the CD into the machine.

Playback should begin automatically and can be paused or resumed using the Play/Pause button. The feed mechanism will only operate when in CD mode. Press eject to remove or change the CD as required.

The display will show the CD symbol, playback mode (playing/paused/stop), track number and elapsed time.

Note: Do not insert mini-CDs as these are not suitable for slot feed machines and could lead to damage.

## **USB Playback**

Insert a USB flash drive (formatted to FAT32) with standard mp3 audio files stored on it into the USB port (2). Selecting the USB option in the source menu will begin playback of stored tracks (or press Play/Pause). The USB text information displayed in the display can be selected by pressing the Info/Menu button (7).

To power down, press and hold the On/Off/Mute button (13) on the front panel. Press and hold this button again to power up.

## Troubleshooting

No Power LED or Display lit	Check mains lead is connected correctly, and the mains is switched on.
	Press the On/Off button to check if powered down.
	Check the fuse in the mains lead and in the IEC inlet (disconnect mains firstly)
No CD playback	Check that the RMC-2150 is in CD player mode and not in standby.
	Check that CD is inserted correctly 'label up' – eject and re-insert if unsure
	The RMC-2150 only plays audio CDs and mini-CDs are not suitable for this player
	Check that the disc contains standard CD audio files (i.e. red book format)
No USB playback	Check that the RMC-2150 is in USB player mode and not in standby.
	The RMC-2150 is compatible with USB devices formatted to the FAT32 file system
	Check that the USB device is connected properly.
	Ensure that the files on the USB device are standard compressed mp3 format.
No FM or DAB+ radio reception	Ensure that a suitable aerial is connected.
	Check that a valid station is selected – press 'Previous' or 'Next' to select a channel
	If channels are not tuned in correctly, press and hold 'Play/Pause' to re-tune.

## Specifications

Power supply	100-240Vac, 50/60Hz (IEC)
Fuse	T2A
Output: rms @ 4 Ohms	2 x 150W
Output: rms @ 8 Ohms	2 x 80W
Amplifier: construction	Class-D
Audio source	CD, USB, DAB+, FM, Bluetooth
Tuning range	87.5 - 108MHz (FM) ,160MHz - 240MHz (DAB/DAB+)
Inputs	Mic/line 1+2 (XLR/jack), Aux (L+R RCA), 24V mute terminals
Outputs	L+R SPK, Line out, Rec out, Player out
Dimensions	435 x 280 x 44mm (without rack ears)
Weight	4.29kg



**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 953.300UK is in compliance with [Directive 2014/53/EU](https://eur-lex.europa.eu/eli/dir/2014/53/oj)

The full text of the EU declaration of conformity is available at the following internet address:  
<http://www.avsl.com/assets/exportdoc/9/5/953300UK%20CE.pdf>

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