

## AD-100

1U DAB/FM Tuner

Item ref: 952.979UK

User Manual





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 AD-100 DAB/FM Tuner as part of your public address system. This unit can receive either Digital Audio Broadcast or analogue FM radio stations for background music and events coverage. Please read this manual fully and follow the instructions to achieve the best results with your new purchase and to avoid damage through misuse.

## 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. 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

- Keep out of direct sunlight and away from heat sources
- Keep away from damp or dusty environments
- For rack-mounting, ensure adequate support for the weight of the unit
- Ensure adequate air-flow and do not cover cooling vents at the front and rear of the amplifier
- Ensure adequate access to controls and connections
- Where reception is poor, connect an outdoor aerial in place of the rear antenna on F connector.

## Cleaning

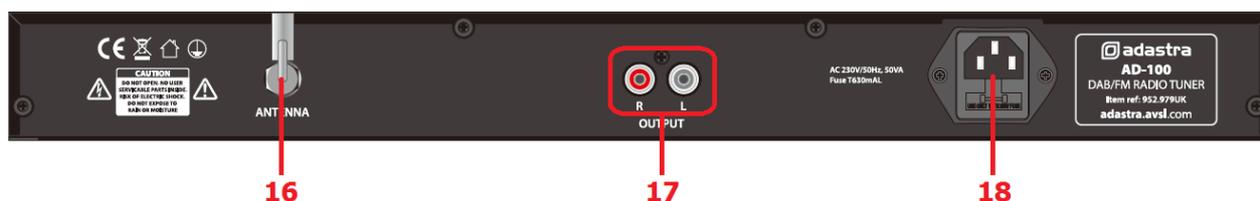
- Use a soft cloth with a neutral detergent to clean the casing as required
- Use a vacuum cleaner to clear ventilation grilles of any dust or debris build-ups
- Do not use strong solvents for cleaning the unit

## Front panel



- |                          |  |
|--------------------------|--|
| 1. Power switch          | Rocker switch for main power on/off                                    |
| 2. Preset memory buttons | Press to access programmed stations                                    |
| 3. SHIFT                 | Press to jump preset by 10, press and hold for FM scan list            |
| 4. MUTE                  | Press to mute output, press again to un-mute                           |
| 5. LCD display           | Shows frequency and/or station information                             |
| 6. MODE                  | Toggles between DAB and FM modes                                       |
| 7. Remote sensor         | Receives control signal from the handheld remote                       |
| 8. DOWN                  | Press to manually tune to lower channels, press and hold to auto-scan  |
| 9. MENU                  | Changes menu options for on-screen editing                             |
| 10. UP                   | Press to manually tune to higher channels, press and hold to auto-scan |
| 11. INFO                 | In FM mode, changes RDS options. In DAB mode, changes LCD display      |
| 12. ENTER                | Press to confirm selection   |
| 13. SLEEP                | Press to enter sleep mode and then use UP/DOWN keys to set sleep time  |
| 14. FM LIST              | Press to display the list of FM stations scanned                       |
| 15. Rotary tuner         | Rotate to manually tune stations, press to select, hold for auto-scan  |

## Rear panel



- |                  |   |
|------------------|---|
| 16. Antenna      | Telescopic removable antenna on F connector             |
| 17. Output R + L | Twin RCA connectors for audio output                    |
| 18. Mains inlet  | Combined IEC and fuse holder for mains power connection |

## Connection and setup

Connect the rear outputs (17) to a line input on the mixer or mixer-amp using a twin RCA lead.

Extend the rear antenna (16) or in places of poor reception, replace this with an F connector lead to a well sited aerial for better reception.

Connect the rear IEC inlet (18) to the mains using the supplied mains lead (or an equivalent approved type). Ensure that the voltage is correct and that the mains outlet is switched on.

Press the power switch (1) to the ON position.

Select either DAB or FM mode (whichever preferred) using the MODE button (6) and press and hold the centre of the rotary tuner (15) to initiate auto-scanning of available stations.

Access these stations using the preset memory keys (2)

Pressing the SHIFT key (3) increments the preset by +10

The rotary tuner can be used to manually tune frequencies and stations. This function is also available using the UP/DOWN keys.

Pressing the centre of the rotary tuner confirms the current tuning selection, whilst pressing the centre and holding initiates auto-scanning.

In FM mode, the stored stations can be listed in the LCD display by pressing the FM LIST button (14)

In DAB mode, the station information is carried along with the digital audio signal.

In FM mode, radio station information is carried by the Radio Data System (RDS).

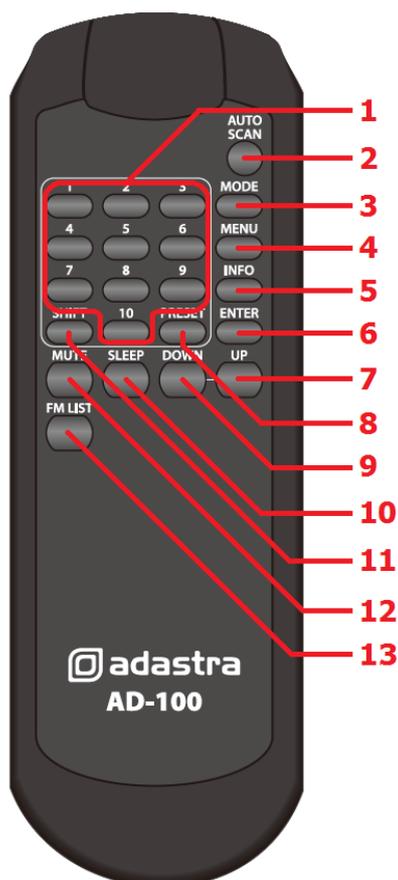
The information shown in the LCD display can be changed using the INFO button (11)

The audio output may be muted indefinitely by pressing the MUTE button (4) and pressing this button again will cancel the mute function.

Alternatively, the unit can be placed in sleep mode for a fixed period of time by pressing the SLEEP button and using UP/DOWN keys to set the duration, after which the unit will automatically "wake".

## Remote control

Most of the front panel features are duplicated on the supplied handheld remote control for operation away from the main unit.



- |     |                |  |
|-----|----------------|--|
| 1.  | Preset buttons | Press to access programmed stations                                    |
| 2.  | AUTO SCAN      | Press to auto-scan for available stations                              |
| 3.  | MODE           | Toggles between DAB and FM modes                                       |
| 4.  | MENU           | Changes menu options for on-screen editing                             |
| 5.  | INFO           | In FM mode, changes RDS options<br>In DAB mode, changes LCD display    |
| 6.  | ENTER          | Press to confirm selection   |
| 7.  | UP             | Press to manually tune to higher channels, press and hold to auto-scan |
| 8.  | PRESET         | Press to select preset station   |
| 9.  | DOWN           | Press to manually tune to lower channels, press and hold to auto-scan  |
| 10. | SLEEP          | Press to enter sleep mode and then use UP/DOWN keys to set sleep time  |
| 11. | SHIFT          | Press to jump preset by 10, press and hold for FM scan list            |
| 12. | MUTE           | Press to mute output, press again to un-mute                           |
| 13. | FM LIST        | Press to display the list of FM stations scanned                       |

## Specifications

Power supply	230Vac, 50Hz (IEC)
FM : Tuning range	87.5 - 108MHz
DAB frequency range	174.928 - 239.2MHz
Sensitivity	10uV emf
THD	0.30%
Audio stereo separation	30dB
Audio output voltage	400mV
Audio (S+N)/N	50dB
FM step frequency	50kHz
Adjacent channel selectivity	31dB
Far-off selectivity	49dB
Dimensions	482 x 185 x 44mm
Weight	2.35kg

## Troubleshooting

No output and no LCD backlight	Ensure IEC lead is in good condition and connected properly
	Ensure POWER switch is on and check mains inlet fuse
LCD backlight is on but no output	Check that mixer/amplifier channel is turned up
	Check that the output from AD-100 is connected properly
	Looking at the LCD display, check that a station is tuned properly
Interference or hiss in FM mode	Check that the antenna is connected, extended and angled correctly
	Re-try auto scan and manually tune if necessary
	If still poor reception, connect an outdoor aerial in place of antenna
Intermittent audio in DAB mode	Check that the antenna is connected, extended and angled correctly
	Re-try auto scan function
	If still poor reception, connect an outdoor aerial in place of antenna
Not responding to remote control	Check that remote can be "seen" by main front panel
	Check batteries in remote handset and replace if necessary



**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.

*Errors and omissions excepted.  
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