

## IWA-series

In-wall Amplifier with Bluetooth

IWA215B 953.081UK

IWA230B 953.083UK

IWA415B 953.085UK

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 an Adastra IWA-series in-wall amplifier for your discreet audio installation. This unit is designed to power wall or ceiling mounted speakers and receive audio via Bluetooth, optical or aux input. 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.**

### 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 before connecting power to the amplifier.
- Use the fig.8 power lead provided or a suitable equivalent.

### Placement

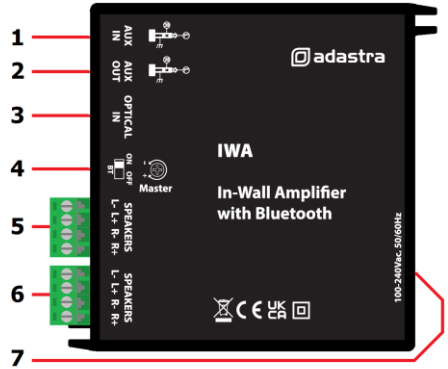
- The amplifier can be installed in a ceiling or stud wall to power flush or surface mount speakers.
- The amplifier can also be surface mounted if necessary.
- Ensure adequate ventilation for cooling and keep away from combustible material or moisture.
- Ensure that the amplifier is within Bluetooth connection range of the sending device.

### 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-up.
- Do not use solvents for cleaning the unit.

## Connections

1. 3.5mm stereo AUX input
2. 3.5mm stereo AUX output
3. Optical audio input
4. Bluetooth on/off & Master volume
5. Secondary Speaker outputs (IWA-415B only)
6. Left + Right Speaker outputs
7. Fig.8 mains power inlet



## Installation

Locate the IWA-series amplifier in the ceiling, wall or on the surface required. Tabs at each end of the housing can be used for securing with screws.

Connect speakers using twin core speaker cable by connecting “+” and “-” on the speaker to the relevant connection on the amplifier. The speaker connections are via screw terminals on Euroblock terminals (5, 6), which can be removed for easy access whilst making connections.

**Important:** Ensure that the load is no lower than 4Ω for each output.  
(e.g. a 4Ω speaker on each output... or... a pair of 8Ω speakers wired in parallel)  
Ensure that the speakers can handle the rated output of the amplifier at that load.

If the amplifier is to be used with a wired audio line level input (instead of Bluetooth), connect this to the 3.5mm stereo jack labelled “AUX IN” (1).

Any Bluetooth, Line in or Optical input playing through the amplifier can be relayed to further amplifiers from a line output from the 3.5mm stereo jack labelled “AUX OUT” (2).

AUX IN and AUX OUT connections should be made using shielded stereo audio cable and not speaker cable.

Audio connections for the 3.5mm AUX IN and AUX OUT jacks are shown opposite.



The Optical input (3) can accept digital audio from equipment with an optical output. Connect the digital audio optical output to the amplifier using a suitable fibre-optic lead.

Connect power from the mains supply using the fig.8 power lead provided or a suitable equivalent (7).

## Operation

The Master volume control (4) can be adjusted using a small screwdriver, with fully anti-clockwise being the minimum setting and fully clockwise being the maximum output.

When first checking the system, it is safest to start with the volume fully down before powering up and gradually increase until the required volume is reached.

Beneath the Master volume control is a slide switch for Bluetooth on/off. When this is switched on, the internal Bluetooth receiver will always be open for pairing.

Search available Bluetooth devices on your smart phone or other sending device for a device with Bluetooth ID "IWA215B-\*\*\*\*", "IWA230B-\*\*\*\*" or "IWA415B-\*\*\*\*"

(where \*\*\*\* is a unique ID number for each unit).

Select to pair and connect with this ID.

When paired and connected, set the volume low on the smart phone or other sending device and play a track to check the sound through the speakers.

AUX input, Optical input and Bluetooth are all connected to the amplifier equally. None will override any other and if 2 or more are playing at once, they will all play through the speakers and AUX output.

Power down the amplifier when not in use and isolate from the mains if not used for long periods.

## Specifications

| Model             | IWA215B  | IWA230B | IWA415B |
|-------------------|--|---------|---------|
| Output: rms @ 4Ω  | 2 x 15W  | 2 x 30W | 4 x 15W |
| Power supply      | 100-240Vac, 50/60Hz (fig.8) mains lead included        |         |         |
| Bluetooth version | 4.0  |         |         |
| Minimum impedance | 4Ω per output  |         |         |
| Speaker outputs   | L-/L+/R-/R+ Euroblock screw terminals (x 2 for IWA415) |         |         |
| Line input        | Stereo 3.5mm AUX jack & Optical digital audio          |         |         |
| Line output       | Stereo 3.5mm AUX jack                                  |         |         |
| Dimensions        | 122 x 89 x 33mm  |         |         |
| Weight            | 150g (excluding power lead)                            |         |         |



**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 types 953.081UK, 953.083UK and 953.085UK are in compliance with [Directive 2014/53/EU](#)

The full text of the EU declaration of conformity for 953.081UK is available at the following internet address: <http://www.avsl.com/assets/exporthoc/9/5/953081UK%20CE.pdf>

The full text of the EU declaration of conformity for 953.083UK is available at the following internet address: <http://www.avsl.com/assets/exporthoc/9/5/953083UK%20CE.pdf>

The full text of the EU declaration of conformity for 953.085UK is available at the following internet address: <http://www.avsl.com/assets/exporthoc/9/5/953085UK%20CE.pdf>

*Errors and omissions excepted. Copyright© 2021. AVSL Group Ltd.  
Unit 2-4 Bridgewater Park, Taylor Rd. Manchester. M41 7JQ  
AVSL (EUROPE) Ltd, Unit 3D North Point House, North Point Business Park, New Mallow Road, Cork, Ireland*