

## INSTALLATION AND OPERATION MANUAL



 **PIC**  **BLU60**  
MIXER AMPLIFIER

# IMPORTANT SAFETY INFORMATION

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. 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 type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. 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.
15. This appliance shall not be exposed to dripping or splashing water and that no object filled with liquid such as vases shall be placed on the apparatus.
16. Plug this apparatus to the proper wall outlet and make the plug to be disconnected readily operable.
17. Mainsplug is used as disconnected device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
18. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
19. An appliance with a protective earth terminal should be connected to a mains outlet with a protective earth connection.
20. The apparatus should be disconnected from the mains completely before speaker wiring. The speaker output should be proper protected from direct contact and pay attention to speaker connections, terminals and speaker wiring during normal operation.

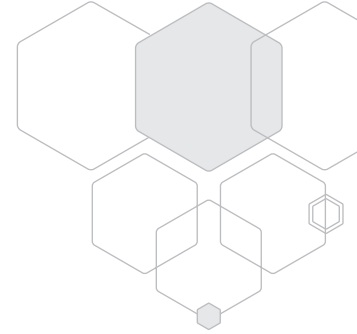


# PRÉCAUTIONS DURANT UTILISATION

1. LISEZ ces instructions.
2. Tenez ces instructions.
3. Notez tous les avertissements.
4. Suivez toutes les avertissements.
5. N'utilisez pas ce produit près de l'eau (la piscine, la plage, le lac, etc.).
6. Nettoyez seulement avec une étoffe sèche.
7. Ne bloquez aucuns trous de ventilation. Installez en accord avec les instructions du fabricant.
8. N'installez près aucunes sources de chaleur comme radiateurs, registres de chaleur, fours ou les autres équipements (y compris ampli cateurs) qui produisent la chaleur.
9. Ne défaites pas le but de sécurité de la fiche polarisée ou base-type. Une fiche polarisée a deux tranchants avec un plus large que l'autre. Une fiche de base type a deux a deux tranchants et une troisième pointe de base, le tranchant large ou la troisième pointe est fourni pour votre sécurité. Si la fiche donnée ne conforme pas votre prise de contact, consultez un électricien pour remplacement de la prise de contact obsolète.
10. Protegez le cordon de secteur contre être marchée dessus ou pincez en particulier aux fiches, aux douilles de convenance, et au point où ils sortent de l'appareil.
11. Seulement utilisez attachements/accessoires spécifiés par le fabricant.
12. Utilisez seulement avec un chariot, un stand, un trépied, un support ou une table indiquée par le fabricant, ou vendue avec l'appareil. Quand un chariot est utilisé, faites attention en déplaçant la combinaison d'appareil/chariot pour éviter de se déséquilibrer.
13. Arrachez la fiche du dispositif durant éclair et orage ou quand pas utilisé pour longues périodes de temps.
14. Référéz au personnel qualifié de service pour toutes réparations. La réparation est donnée quand le système a été endommagé à n'importe façon, par exemple un fil ou une fiche endommagé(e) de la source d'alimentation. Avoir été exposé à pluie ou humidité, n'opère pas normalement, ou avoir été tombé.
15. L'appareil ne doit pas être exposé aux écoulements ou aux éclaboussures et aucun objet ne contenant de liquide, tel qu'un vase, ne doit être placé sur l'objet.
16. Branchez l'appareil à une source appropriée et faire que la prise à débrancher soit facilement accessible.
17. La prise du secteur ne doit pas être obstruée ou doit être facilement accessible pendant son utilisation. Pour être complètement déconnecté de l'alimentation d'entrée, la prise doit être débranchée du secteur.
18. AVERTISSEMENT: Pour éviter le risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à l'humidité.
19. Un appareil avec la borne de terre de protection doit être connecté au secteur avec la connexion de terre de protection.
20. Assurez-vous que l'appareil est hors tension avant de connecter les hauts parleurs. Veri ez que la sortie des enceintes soit protégées contre un contact physique. Respecter les polarités des terminaux ainsi que le câblage des enceintes pendant le fonctionnement afin d'assurer une utilisation sécurisée.



# INTRODUCTION & CONTENTS



## PICOBLU60

Congratulations on choosing Australian Monitor for your commercial audio requirements.

The Australian Monitor PICOBLU60 is a half rack, 60W mixer amplifier specifically designed for small space applications such as cafes, restaurants, small retail and classrooms.

The PICOBLU60 features 5 audio inputs, integrated Bluetooth 5.1 receiver, support for wall panel controllers and audio inputs, a USB audio player as well as 100V and 4Ω speaker outputs.

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Revision 1.0: June 2026

## WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THE PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

TO PREVENT ELECTRICAL SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT & FULLY INSERT.

## 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.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



### WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance



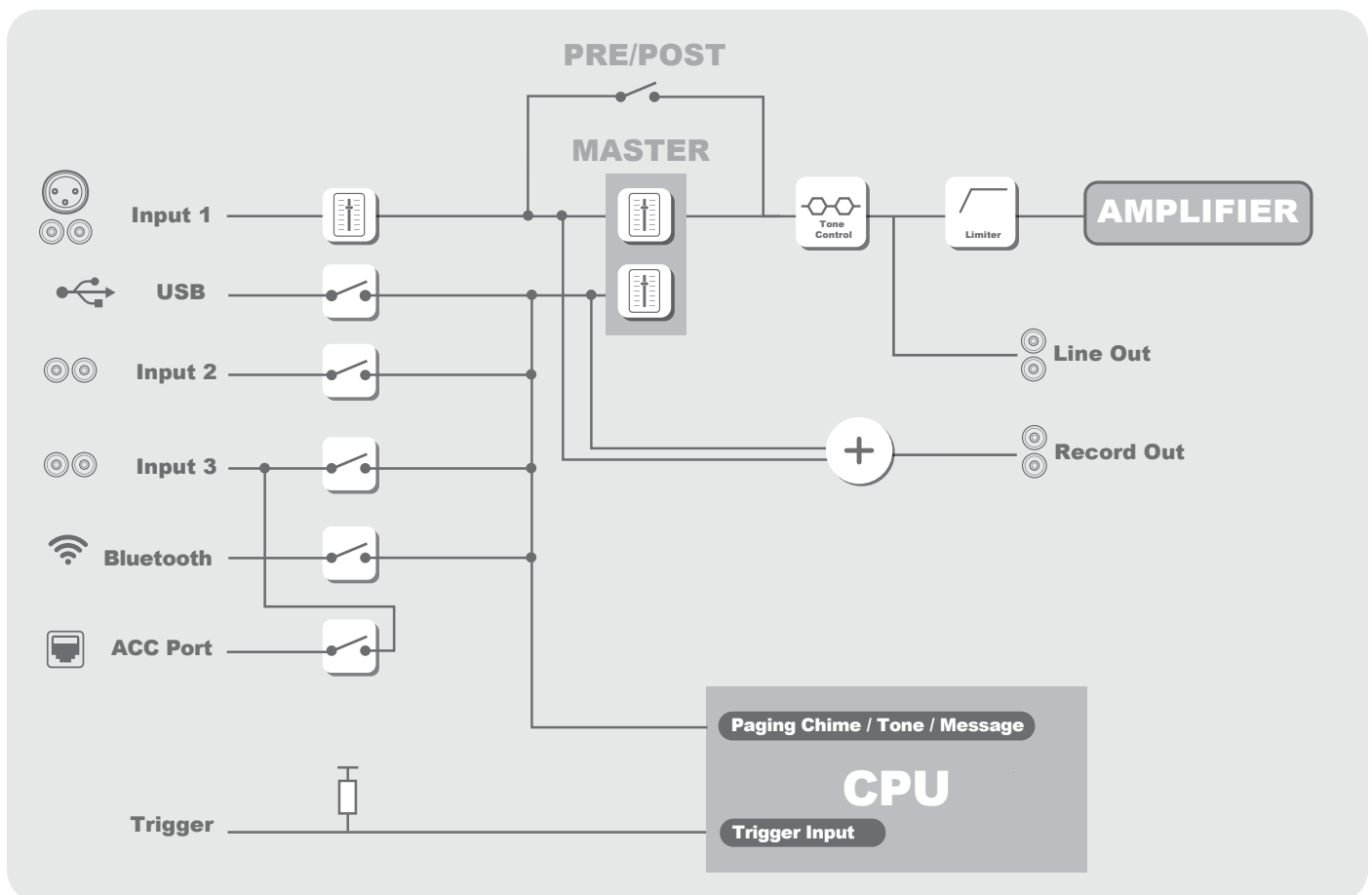
For European Union countries: This symbol on the product or its packaging indicates that this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. Please contact your local authority for further details of your nearest designated collection point.

Rating plate and caution marking are marked on the back enclosure of the apparatus

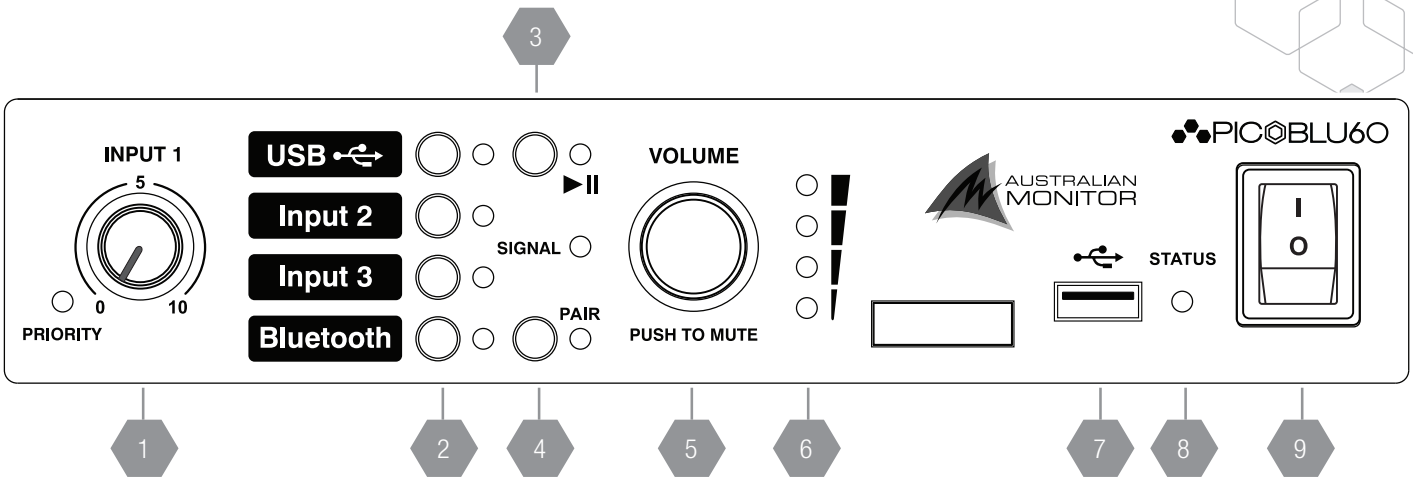
# FEATURES

- 60W Mixer Amplifier with 100V and 4Ω outputs
- Line and record outputs
- 2 Channel Mixer
  - Channel 1
    - Mic/Line Input with optional priority
  - Channel 2 - 4 switchable inputs
    - USB WAV/MP3 Music Player
    - 2 x Mic/Line Inputs
    - Bluetooth Audio receiver:
      - Bluetooth 5.1 with up to 200m range
      - Programmable Name and PIN
      - Advanced security options
- Output Bass and Treble Tone Controls
- Accessory Port supporting 4 wall panels
  - Wall panel controllers
  - Remote audio inputs
- Programmable Trigger Input
- Advanced configuration using ASTRA software
- Desk/Wall and Rack Mountable

## PICOBLU60 BLOCK DIAGRAM

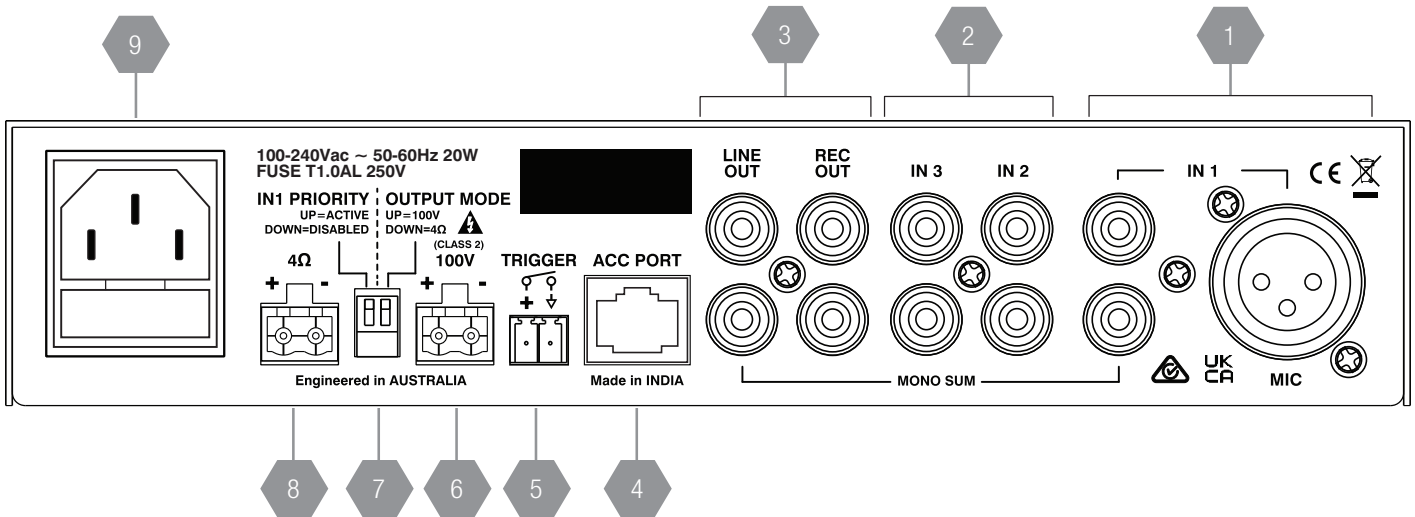


# FRONT PANEL



- 1** INPUT 1  
Adjusts the volume level of Input 1. The PRIORITY LED will turn on when Input 1 is in priority mode.
- 2** INPUT SELECTION  
Buttons to select the program source to mix with Input 1, the LEDs indicate which Input is selected. Trim levels can be set for each input, consult the ADVANCED ADJUSTMENT SECTION on page 11.  
**Note: Only one input can be active at a time**
- 3** USB/BLUETOOTH PLAY/PAUSE  
Press the button to play or pause the audio from the USB or the Bluetooth audio source.
- 4** BLUETOOTH® PAIRING  
Hold down the button for X seconds to enter Bluetooth pairing mode.  
Consult the Bluetooth® Audio Streaming section of this manual for further details.
- 5** MASTER VOLUME  
Turn to adjust the output volume of the amplifier. Push to mute.  
The Master Volume control is also used to set bass and treble as well as other features.  
See ADVANCED ADJUSTMENT SECTION on page 11.
- 6** VOLUME LEVEL  
Shows the output level of the PICOBLU60.
- 7** USB PORT  
Connect a USB flash drive, formatted to FAT32, to playback WAV/MP3 files.  
Configuration programming, via the ASTRA software, is performed using a flash drive.
- 8** STATUS LED  
The LED indicates the unit is on. It will also flash to indicate various states of the device.
- 9** POWER SWITCH  
Turns power to the unit on and off. The up position is on.

# REAR PANEL



## 1 INPUT 1

**XLR input** – This is a balanced microphone input.

**Pin 1** = Signal Ground

**Pin 2** = Hot (non-inverting or in phase)

**Pin 3** = Cold (inverting or reverse phase)

Unbalanced wiring on the microphone inputs is not recommended.

**RCA input** – This is a mono summed, unbalanced line level input.

The two RCA sockets are summed to mono internally.

## 2 INPUT 2 and 3

RCA Input: These are unbalanced line level inputs. The two RCA sockets are summed to mono internally.

Input 3 RCA is optionally mixed with the wall panel accessory audio input.

## 3 LINE OUTPUTS

The LINE and RECORD mono outputs are on an unbalanced RCA connector.

LINE OUTPUT is a post-gain output (affected by the Master Volume Control) and the RECORD OUTPUT is a pre-gain output (NOT affected by the Master Volume Control).

## 4 ACCESSORY PORT

Use the Accessory Port to connect up to 3 control panels and one audio input wall panel.

Supported wall panels include.

- WP4R – 4 button/Rotary encoder volume control
- WP10 – 10 button wall panel
- WPVOL – Volume encoder
- WPBT, WPML or any balanced audio input

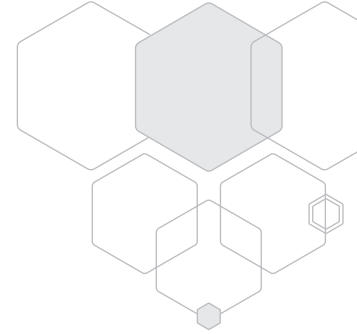
**⚠ Note: The accessory port audio input is DISABLED by default. It can be enabled using the front panel advanced settings or the ASTRA software. The accessory audio input is mixed with Input 3**

## 5 TRIGGER INPUT

Can be set in the Programming Software to one of the following functions

- Trigger Input 1 priority. Default setting with chime.
- Mute system
- Enter Bluetooth pairing
- Play a file once
- Play a file on repeat
- Play random folder

# REAR PANEL Contd.



**6** 100 VOLT LINE SPEAKER OUTPUT  
Provides a 100V output when the OUTPUT MODE Dip Switch is in the UP position

**7** PRIORITY AND OUTPUT MODE  
Input 1 Priority (left dip switch) – Enables or disables Input 1 priority over other inputs. Up is priority enabled and down is priority disabled.  
Output Mode (right dip switch – Allows selection of the speaker output. The down position activates the 4Ω speaker output and up activates the right 100 volt line speaker output.

**⚠ NOTE: Both outputs cannot be active at the same time**

**8** 4Ω SPEAKER OUTPUT  
Provides a 4Ω (low impedance) output when the OUTPUT MODE Dip Switch is in the DOWN position.

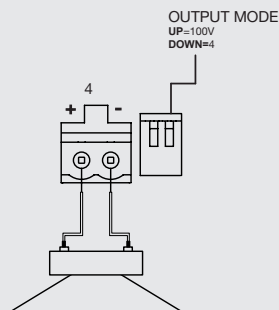
**9** MAINS INPUT CONNECTOR  
The PICOBLU60 is fitted with a standard IEC 60320-C14 socket for mains connection. Use the mains cable supplied to power up the unit.

**⚠ NOTE: Your unit must always be earthed!**

## SPEAKER SETUP

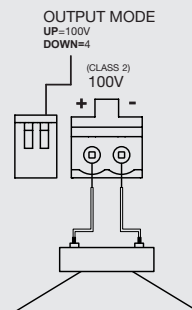
### 100 VOLT LINE OUTPUT

Connect the speakers in parallel to right hand euro block connector.  
Ensure the right-hand dip switch is in the up position.  
Caution: Minimum total impedance of all speakers should not be less than 167 Ω



### LOW IMPEDANCE OUTPUT

Connect the speakers to the left-hand euro block connector  
Ensure the right-hand dip switch is in the up position.  
Caution: Minimum total impedance of all speakers should not be less than 4 Ω



# INSTALLATION, BASIC SETUP & OPERATION



The inputs of the PICOBLU60 can accommodate a wide range of sources including microphones, media players and streaming devices. Each installation will require setting the appropriate relative mix of levels between microphones and program sources. Due to the variation in levels between the possible sources, the PICOBLU60 offers a number of gain stage adjustments in order to set the correct levels for your application.

## STEP BY STEP SETUP

### 1 CONNECT THE SOURCES

First connect all the required sources to the appropriate input connectors. If the source is an electret or condenser microphone, turn on the phantom power via the ASTRA software.

### 2 SET MASTER VOLUME

Turn up the master volume control until it is at an appropriate level for the listening environment.

### 3 LISTEN TO EACH INPUT LEVELS

Find the audio input with the QUIETEST audio level, we now trim (reduce) the input level of the other audio input to match this level. See below the section INPUT SOURCE TRIM LEVEL

### 4 SET INPUT 1 LEVEL

Set the Input 1 level using the front panel volume control

### 5 SET THE PAGING CHIME LEVEL (OPTIONAL)

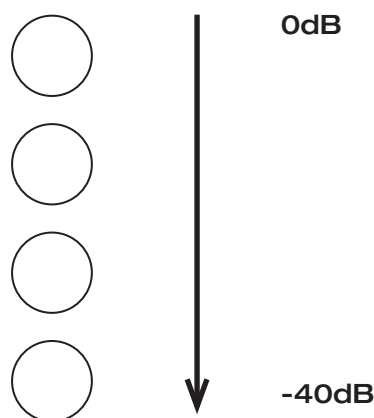
If you are using input 1 with the priority and chime. Use the ASTRA software to modify the chime level as required.

### 6 BASS TREBLE

If necessary, modify the bass and treble. Consult the ADVANCED ADJUSTMENTS section of the manual or program it using the ASTRA software.

## INPUT SOURCE TRIM LEVEL

- Hold down the source selector button of the source level you wish to trim for 10 seconds. (Source LED should start flashing every 0.5 seconds)
- Use the MASTER volume knob to adjust the trim level from 0dB to -40dB. The volume meter shows the current level, see the diagram below.
- Select any other source button which needs trimmed and repeat the step above
- Finally, press the Master volume knob (mute) to exit trim mode



# PRIORITY MODE

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The PICOBLU60 has a priority feature on Input 1 which will mute or duck other audio inputs.

By default the system is setup as follows,

- \* Priority is ACTIVE (rear DIP switch UP)
- \* Priority uses VOX (voice activation)
- \* Mutes other sources (-96dB)
- \* Release time is set to 5 seconds
- \* Priority is POST master volume  
(master volume changes ignored)

## ENABLE/DISABLED

Use the rear panel DIP switch to enable or disable the priority

## PRIORITY ACTIVATION

The priority can be activated in two ways,

1. Using VOX (voice activation) on input1 to trigger the priority.  
i.e. audio on input 1 will trigger the priority.
2. Using the rear TRIGGER input which can be configured using the ASTRA software. The trigger input is typically use for paging applications which ensures the priority is active before any speech and allows the optional chime to be played.

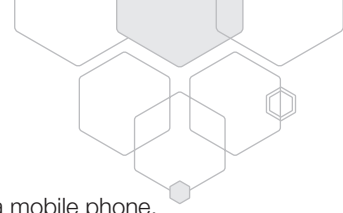
## PRIORITY RELEASE

The priority release is how long after the VOX trigger or rear panel trigger has been removed before the audio un-mutes. This time can be adjusted in the ASTRA software.

## PRIORITY ROUTING

The priority can be set to either pre or post master output.  
POST-master bypasses the master volume to avoid users changing the Input 1 level.  
PRE-master mixed Input 1 with the other sources and is affected by the master volume level.

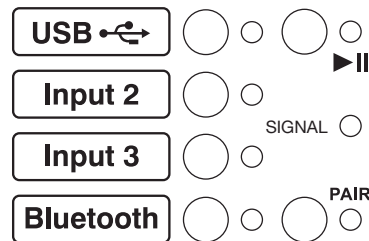
# BLUETOOTH® AUDIO STREAMING



The PICOBLU60 includes a Bluetooth® Audio streaming interface which can receive audio from any device like a mobile phone, computer or tablet.

## BLUETOOTH® CONNECTION

1. Press the PAIR button to activate Bluetooth and enter pairing mode
2. On your Bluetooth® source device, e.g. a mobile phone, select the PICOBLU60. Default name: PICOBLU60-XXXX. Consult the source device's manual about accessing the Bluetooth® connection options.
3. Your Bluetooth® device will ask for a passcode/PIN. Default PIN: 2626
4. The PAIR LED will then flash 10 times to indicate successful pairing
5. Play audio from your Bluetooth® device.



Defaults:  
Bluetooth Device Name: PICOBLU60-XXXX  
Passcode/PIN: 2626 (AMAM)

## BLUETOOTH® CONNECTION RANGE

The Bluetooth® connection range is 200 meters direct line of site, Walls and obstacles will reduce this distance.

## CONNECTING A DIFFERENT BLUETOOTH® DEVICE

The Bluetooth® module can only support one device connection at a time.

If you need to change devices, repeat the Bluetooth® connection process described above. By entering pairing mode it disconnects the current device and allows a new device to be connected.

**Note: The Bluetooth settings can be modified using the ASTRA configuration software to change name, pin number and security features.**

**! IMPORTANT:** Ensure that the volume of your Bluetooth® connected device is set to an appropriate level as this effectively adds in another volume control to your system.

# USB INPUT

The USB input allows the playback of audio files in WAV and MP3 formats. Additionally, ASTRA configuration files can be imported and exported.

**IMPORTANT: The USB must be formatted to FAT32 files system format**

## USB MEDIA PLAYBACK

Place WAV/MP3 files inside a folder called "RANDOM".

When selecting the USB audio source and pressing the play button audio will continuously play.

## USB MESSAGE PLAYER

To trigger messages from wall panels or the rear trigger input,

Place audio files on the ROOT of the USB drive and select them from the ASTRA configuration software.

Follow the step below for programming.

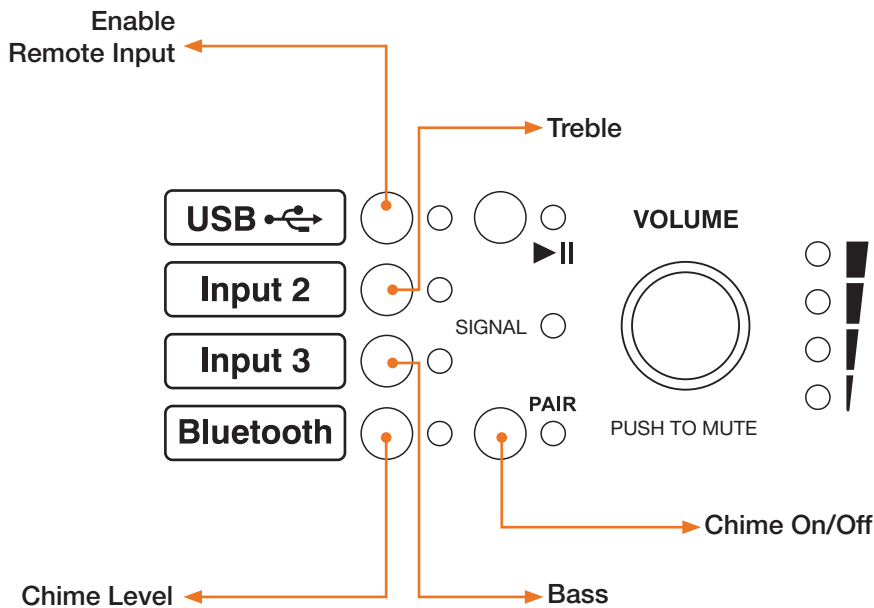
## USB PROGRAMMING (ASTRA CONFIGURATION FILES)

To program the PICOBLU60 with configuration files from the ASTRA software,

\* Place the configuration folder on the root of the USB drive. Important: The folder should always end with "\_PICOBLU60"

\* Power cycle the unit

# ADVANCED ADJUSTMENTS



To enter advanced mode push the VOLUME KNOB in for 7 seconds. (Status LED should start flashing every 0.5 seconds). Press the volume knob to exit or alternatively it will automatically timeout after 30 seconds.

Select each of the front panel buttons shown in the image to make adjustments to that setting. Alternatively, these settings can all be adjusted using the ASTRA software.

## Tone Adjustment

- Treble Adjustment
  - o Select the **INPUT 2** button. The adjacent LED will light up
  - o Turn the volume knob to adjust the Treble Level. The level meter will double as the indicator. Upper two LEDs indicate a positive, lower LEDs are negative
  - o There is 9dB of cut and boost at 10kHz
- Bass Adjustment
  - o Select the **INPUT 3** button. The adjacent LED will light up
  - o Turn the volume knob to adjust the Bass level. The level meter will double as the indicator. Upper two LEDs indicate a positive, lower LEDs are negative
  - o There is 12dB of cut and boost at 100Hz

## Chime ON/OFF

- o Select the PAIR button to toggle the Chime function ON/OFF
- o When enabled the Chime can be activated using the trigger input on the rear panel.

## Chime Level Adjustment

- o Select the USB button, The adjacent LED will light up
- o Turn the volume knob to adjust the chime level. The level meter will indicate the relative level of the chime.

## Enable Remote Input

- o Select the USB button to toggle the Remote Input function ON/OFF , the adjacent LED will light up

# WALL PANEL PAIRING



## PAIRING THE WALL PANELS TO THE PICOBLU60

Each wall panel must be individually paired with the PICOBLU60 to function. Follow these steps to pair the wall panels,

**Note: Only have one wall panel in pairing mode at a time. If you are using custom wall panel configurations via the ASTRA configuration software, ensure you pair the controllers in the same order as the software configuration**

If you are NOT using custom wall panel configuration jump to step 3.

1. IMPORTANT, If you are using custom wall panel configurations using the ASTRA software, you must import the configuration file to the PICOBLU60 BEFORE pairing wall panels or they will be assigned default configurations. If you forget to do the import first, you must re-pair the wall panel to update their configuration.

2. Pair each wall panel IN THE ORDER you added them in the ASTRA software. If you pair them out of order they could be assigned another wall panels configuration file. You can recover by swapping the wall panel configurations by following the section in the manual "SWAPPING WALL PANELS"

3. To enter pairing mode:

- WP10, WPBT,  
Press and hold the TOP LEFT and BOTTOM RIGHT buttons until all the LED's start flashing every 0.2s.
- WP4R and WPVOL,  
Press and hold the rotary encoder button for 5 seconds until all the LED's start flashing every 0.2s. (Press any button on the wall panel during pairing to cancel the pairing mode)
- WPXLR,  
The WPXLR does not need to be paired to the system

4. If necessary, the wall panel will download it's firmware from the PICOBLU60. This is indicated by an anti-clockwise LED pattern on the wall panel.

**This step will only happen when using a new wall panel or the system needs to update the wall panel firmware.**

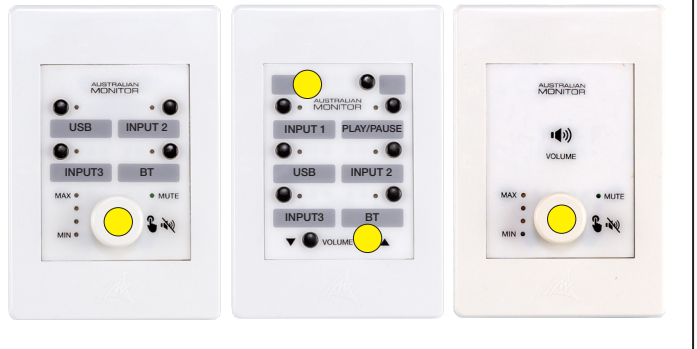
5. The wall panel will then reboot and retrieve it's configuration from the PICOBLU60, this is indicated by a rotating clockwise LED pattern.

6. The wall panel should now be operational

## DEFAULT CONTROL CONFIGURATION

The images below show the default configurations for the wall panel controller buttons. If you wish to customise them use the ASTRA control software.

Hold down the buttons shown in yellow to enter pairing mode.



## SWAPPING WALL PANELS

**Note: This section is only relevant when custom wall panel configurations have been programmed using the ASTRA software,**

If the wall panels have not been paired in the same order as the ASTRA software the wall panel configurations could be assigned to the wrong wall panel.

You can swap wall panels configurations using the front panel,

TO ENTER THE SWAP MODE,

1. Power off the unit
2. Hold down the PAIR button
3. Power on the unit

The input source selectors are used to swap the wall panel configuration slots

- USB – Wall Panel Slot 1
- Input 2 – Wall Panel Slot 2
- Input 3 – Wall Panel Slot 3
- Bluetooth – Wall Panel Slot 4

IDENTIFY THE WALL PANELS

4. Select one of the four source selector buttons,  
This will turn on the IDENTIFY mode on the wall panel which will flash it's LEDs every 0.5 seconds.
5. Repeat the process to identify which wall panel is assigned to each slot
6. Finally, select the two slots you wish to swap, using the selector buttons, and then press the master volume knob to confirm.

**Note: Only select two wall panels at a time, if more are selected the system will do nothing.**

# ASTRA CONFIGURATION SOFTWARE



The ASTRA control software allows the PICOBLU60 to be customised to suit more advanced installations.

**Download the software from our website, [www.australianmonitor.com.au/pages/software-downloads](http://www.australianmonitor.com.au/pages/software-downloads)**

The following features are available,

**IMPORTANT:** The configuration software will **OVERRIDE** any settings made to the PICOBLU60. If you wish to use the existing settings, attach a USB drive to the PICOBLU60 and power cycle the unit. This will write the configuration to the USB drive which can then be importing into the configuration software on your PC.

## CREATING CONFIGURATIONS

From the HOME tab,

Select “Create Configuration” if you wish to create a new PICOBLU60 configuration file.

## IMPORTING CONFIGURATIONS

From the HOME tab,

Select “Import Configuration” to import a saved configuration from the PICOBLU60.

The ASTRA configuration software has three main sections

- AUDIO - Setup of the Audio level and settings
- BLUETOOTH – Customisation of the internal Bluetooth receiver
- WALL PANELS – Customising wall panels functions

## AUDIO TAB

- **TRIM LEVELS**  
Use the trim levels to equalise the audio input sources levels
- **BASS/TREBLE**  
Applies +-14dB to the Line output and Amplifier output
- **PAGING CHIME LEVEL**  
Plays when the Trigger Input is active and the “enable chime” settings is set
- **TRIGGER INPUT**
  - o Trigger Input 1 priority and Enable Chime (Default)  
This will mute other audio input sources and play the chime
  - o Mute system  
Allows an external control system to mute the system, e.g. a fire panel
  - o Enter Bluetooth pairing  
Connect a remote switch to activate Bluetooth pairing
  - o Play a file once  
Plays a file on the root of the USB drive
  - o Play a file on repeat  
Plays a file on the root of the USB drive
  - o Play random folder  
Plays audio from the random folder of the USB drive
- **INPUT 1 SETTINGS**
  - o Priority Release  
Sets the time it takes for the priority to deactivate once Input 1 signal is removed
  - o Priority Duck  
Sets the volume reduction for mixer channel 2 when priority is active
  - o Phantom Power  
Enables or disables the 24V phantom power to the Input 1 XLR connector
  - o VOX Sensitivity (Voice activation)  
Sets the level at which audio is detected on Input 1 to activate the priority. This is used when triggering the priority from someone’s voice and not through a paging station switch on the trigger input
- **INPUT 3 SETTINGS**
  - o Accessory Audio Input  
This switches the accessory audio to be fed into Input 3



## BLUETOOTH TAB

- **ENABLE/DISABLE MODULE**  
Allows the Bluetooth module to be disabled
- **BLUETOOTH NAME**  
Set the broadcast name for the bluetooth module
- **REQUIRES PIN**  
Enable to ensure connection is secure
- **BLUETOOTH PIN**  
4 - 10 digit PIN code when connecting to the Bluetooth module
- **CONNECTION HISTORY**  
Remember or forget previous connections. (Forget means they need to re-pair)
- **PAIRING MODE**  
Timeout means it only allows connection for the timeout period.  
Always On means pairing is always allowed and constantly broadcasting
- **SUPPORT PHONE CALLING**  
Enables HPF profile to allows phone calls to route through the Bluetooth

## WALL PANELS TAB

The software allows the customisation of the wall panels if the default configuration is not suitable.

If you are configuring the system from scratch,

1. Add the necessary wall panels in the software
2. Configure the buttons

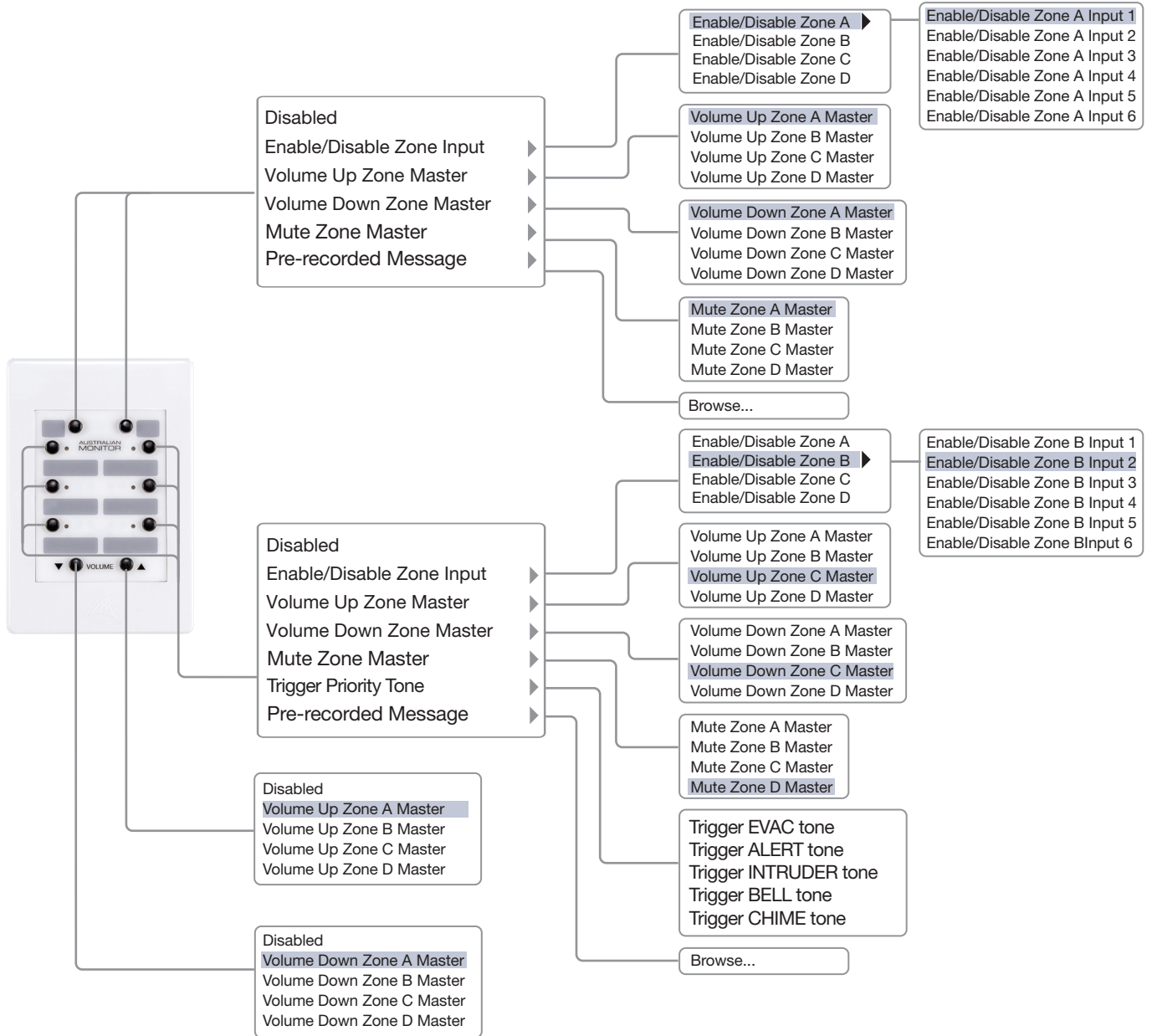
## IMPORTING CONFIGURATION TO PICOBLU60

- o To import a configuration,
- o Attach a USB drive to the PICOBLU60 and power cycle the unit.
- o This will write the configuration from the USB drive to the device. The unit will then automatically reboot to use the new settings.

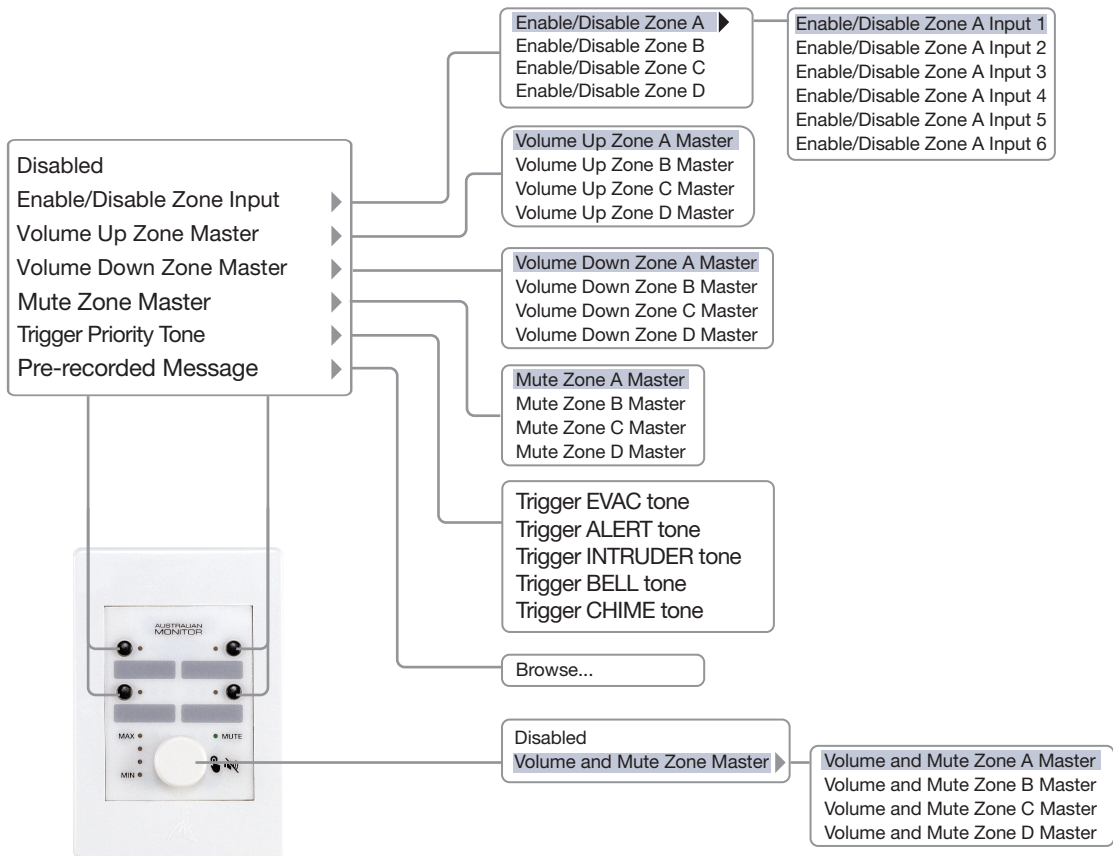
## EXPORTING CONFIGURATION FROM PICOBLU60

- o To export a configuration,
- o Attach a USB drive to the PICOBLU60 and power cycle the unit.
- o This will write the configuration to the USB drive.
- o Remove the drive and insert it into the PC for use with the configuration software.

# WP10 OPTIONS



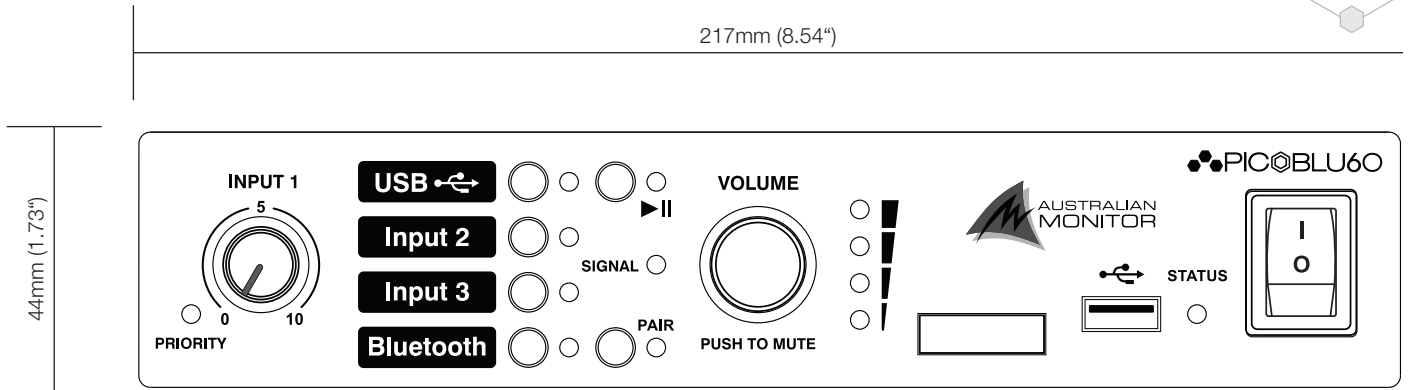
# WP4R PROGRAMMING OPTIONS



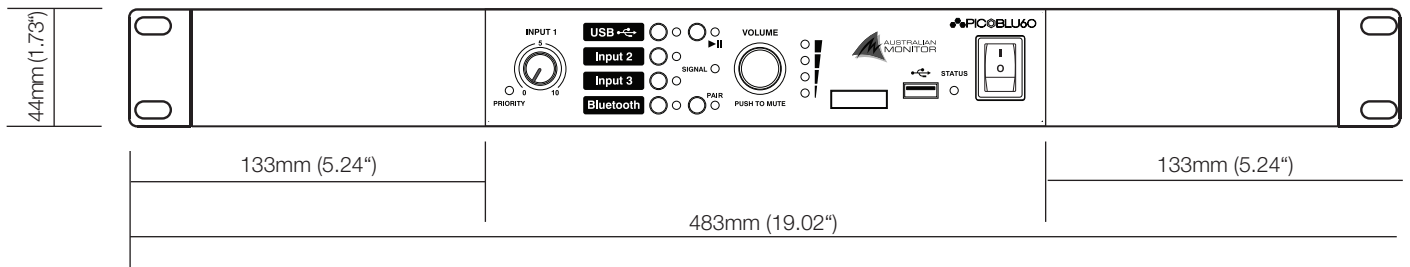
# DIMENSIONS



FRONT:



PICO-RMK  
1RU RACK MOUNT KIT:



# SPECIFICATIONS



| MODEL   | PICOBLU60   |            |            |                  | CONDITIONS/COMMENTS  |
|---|---|------------|------------|------------------|--|
| TOPOLOGY                                      | Class-D   |            |            |                  |  |
| CHANNELS                                      | 1   |            |            |                  |  |
| POWER OUTPUT                                  | 60W   |            |            |                  | 1kHz. 1%THD. -5W/+5W   |
| MAXIMUM OUTPUT LEVEL                          | 23.8dBV / 15.5Vrms  |            |            |                  | 20Hz - 20kHz, <1%THD, 4Ω   |
| FREQUENCY RESPONSE 4Ω                         | 20Hz - 20kHz  |            |            |                  | 3dB below clipping, ±3dB, Balanced Input                           |
| FREQUENCY RESPONSE 100V                       | 100Hz - 20kHz   |            |            |                  | 3dB below clipping, ±3dB, Balanced Input                           |
| SIGNAL TO NOISE RATIO                         | > 90 dBA  |            |            |                  | Max Output, 1kHz, 20kHz BW, A-Weighted                             |
| THD+N. 1kHz. 4Ω                               | < 0.06%   |            |            |                  | 3dB below clipping, 1kHz. 20kHz BW, Unity Gain, A-Weighted         |
| THD+N. 20Hz - 20kHz. 4Ω                       | < 0.1%  |            |            |                  | 3dB below clipping, 20Hz - 20kHz. 20kHz BW, Unity Gain, A-Weighted |
| THD+N. 1kHz. 100V                             | < 0.06%   |            |            |                  | 3dB below clipping, 1kHz. 20kHz BW, Unity Gain, A-Weighted         |
| THD+N. 100Hz - 20kHz. 100V                    | < 0.1%  |            |            |                  | 3dB below clipping, 20Hz - 20kHz. 20kHz BW, Unity Gain, A-Weighted |
| SIGNAL TO NOISE RATIO. LINE OUTPUT            | > 90 dBA  |            |            |                  | Max Output, 1kHz, 20kHz BW, A-Weighted                             |
| OVERLOAD PROTECTION                           | Temperature, Over Voltage, Current Limit  |            |            |                  |  |
| <b>AUDIO INPUT/OUTPUTS</b>                    |   |            |            |                  |  |
| AUDIO INPUT                                   | 1 x XLR Female MIC Input<br>3 x Dual RCA Line Level Input (mono summed) RJ45 Accessory port local input. (Sums into Input 3)          |            |            |                  |  |
| AUDIO OUTPUT                                  | Record Output. Pre-Master. Dual RCA Mono Summed Line Output. Post Master. Dual RCA Mono Summed. 4Ω/100V Speaker Output. 5mm Euroblock |            |            |                  |  |
| ACCESSORY PORT                                | Supports up to 3 wall controllers and 1 audio input panels  |            |            |                  |  |
| <b>PRE - AMPLIFIER</b>                        |   |            |            |                  |  |
| <b>INPUT</b>                                  |   |            |            |                  |  |
|   | <b>XLR</b>  | <b>RCA</b> | <b>USB</b> | <b>BLUETOOTH</b> |  |
| AUDIO INPUT SENSITIVITY                       | 7.5mV RMS   | 200mV RMS  | 2Vrms      | 2Vrms            |  |
| INPUT MAXIMUM LEVEL                           | 75mV RMS  | 2.1Vrms    |            |                  |  |
| INPUT IMPEDANCE                               | >10k Ωs   |            |            |                  |  |
| OVERDRIVEN THRESHOLD                          | 2.3Vrms   |            |            |                  | CPU actively reduces output above this level                       |
| <b>OUTPUT</b>                                 |   |            |            |                  |  |
| RECORD OUT NOMINAL SENSITIVITY                | 250mV   |            |            |                  |  |
| RECORD OUTPUT MAXIMUM LEVEL                   | 2.5Vrms (10dBu)   |            |            |                  |  |
| LINE OUT NOMINAL SENSITIVITY                  | 250mV   |            |            |                  |  |
| LINE OUTPUT MAXIMUM LEVEL                     | 2.5Vrms (10dBu)   |            |            |                  |  |
| FREQUENCY RESPONSE, MIC INPUT TO LINE OUTPUT  | 75-20kHz  |            |            |                  | ±1.5dB. Line Output  |
| FREQUENCY RESPONSE, LINE INPUT TO LINE OUTPUT | 20-20kHz  |            |            |                  | ±1.5dB. Line Output  |

# SPECIFICATIONS CONT.



| <b>BLUETOOTH</b>           |  |  |
|----------------------------|--|--|
| VERSION                    | Bluetooth v5.1 + A2DP Sink – Advanced audio distribution profile AVRCP – Audio/Video remote controller profile HFP Sink - Hands free profile           |  |
| RANGE                      | 200m range   | Direct line of site. Walls & obstacles will reduce this distance |
| <b>ADDITIONAL FEATURES</b> |  |  |
| PHANTOM POWER              | 24V, 10mA  |  |
| VOX                        | 500uVrms / 1mVrms  |  |
| <b>CONTROL</b>             |  |  |
| FRONT PANEL                | Input 1 Volume Control, Master Volume Control Input Source Selection buttons, Bluetooth Pair Button, USB Play/Pause Button                             |  |
| REAR PANEL                 | Trigger Input  | Software configurable  |
| SOFTWARE SETTINGS          | Bass/Treble $\pm 14$ dB, Input audio trim levels, USB Audio Player, Paging Chime with Level Control. Trigger Input setup, Customisation of Wall Panels |  |
| USB FILE SYSTEM            | FAT32 file format, 4GB maximum filesize, 2TB maximum card size   | Shut down at 600mA, auto reset OK                                |
| USB FILE FORMAT            | MP3: MPEG-1, MPEG-2 and MPEG-2.5, up to 48kHz 320kHz bitrate, CBR or VBR. WAV: PCM, 8 or 16 bit, up to 48kHz sample rate.                              | Note: It does NOT support 48kHz or higher                        |
| <b>POWER REQUIREMENTS</b>  |  |  |
| AC INPUT                   | 100-240Vac, 50-60Hz  | $\pm 10\%$   |
| AC POWER FACTOR            | >0.6   | Max Output, 1kHz, 230Vac   |
| AC INPUT CONNECTOR         | IEC 60320-C14  | Current Limiting 240R series resistor                            |
| AC MAINS FUSE              | T1AL 250V  |  |
| MAXIMUM INRUSH CURRENT     | 30A  | 230VAC, 50Hz   |
| <b>POWER CONSUMPTION</b>   |  |  |
| IDLE                       | 4W   | 230Vac, 50Hz -50mA   |
| 1/8TH POWER                | 15W  | 230Vac, 50Hz, 100V Output, 1kHz, Sine -110mA                     |
| 1/3 POWER                  | 32W  | 230Vac, 50Hz, 100V Output, 1kHz, Sine -225mA                     |
| FULL POWER                 | 86W  | 230Vac, 50Hz, 100V Output, 1kHz, Sine -639mA                     |
| <b>EFFICIENCY</b>          |  |  |
| 1/8TH POWER                | 52%  | 230Vac, 50Hz, 100V Output, 1kHz, Sine                            |
| 1/3 POWER                  | 62%  | 230Vac, 50Hz, 100V Output, 1kHz, Sine                            |
| FULL POWER                 | 70%  | 230Vac, 50Hz, 100V Output, 1kHz, Sine                            |
| <b>THERMAL DISSIPATION</b> |  |  |
| IDLE                       | 14   |  |
| 1/8TH POWER                | 49   | Excludes load power (1w = 3.412btu/hr)                           |
| 1/3TH POWER                | 109  | Excludes load power (1w = 3.412btu/hr)                           |
| FULL POWER                 | 293  | Excludes load power (1w = 3.412btu/hr)                           |

# SPECIFICATIONS CONT.



| <b>MECHANICAL</b>                      |  |  |
|--|--|--|
| PRODUCT DIMENSIONS (WITHOUT RACK EARS) | 217mm x 261mm x 44mm<br>( 8.54"W x 10.3"D x 1.73"H )     |  |
| MOUNTING                               | 1 RU Half Width  |  |
| OPERATING TEMPERATURE                  | 0°C to 40°C (95% RH)                                     |  |
| FINISH                                 | Powder coated steel                                      |  |
| COLOUR                                 | Black  |  |
| ACCESSORIES                            | 1x2, 5mm Euroblock Connector Qty 1,<br>Rubber Feet Qty 4 |  |
| NET WEIGHT                             | 2.2 Kg ( 4.85 lbs )                                      |  |
| SHIPPING WEIGHT                        | 3.1 Kg (6.8 lbs )  |  |
| SHIPPING DIMENSIONS                    | 370mm x 320mm x 122mm<br>( 14.6W x 12.6"D x 4.8"H )      |  |
| MANUFACTURING ORIGIN                   | India  |  |
| <b>APPROVALS</b>                       |  |  |
|  | CB, CE, IEC, RCM   |  |
| <b>MISCELLENEOUS</b>                   |  |  |
| SUPPORTED OPERATING SYSTEMS            | Windows, MAC, Linux                                      |  |

# TROUBLESHOOTING



| TROUBLE                        | LIKELY CAUSE                    | REMEDY  |
|--------------------------------|---------------------------------|---|
| Power LED not on               | Power not reaching amplifier    | Check power switch is on<br>Check power supply is connected |
| Distorted sound                | Input is overloaded             | Reduce input level at source                                |
|                                | Output is being over driven     | Reduce volume levels on front panel                         |
|                                | Bass control is turned up       | Reduce Bass control level                                   |
| No sound but amplifier is on   | Volume controls down            | Check volume controls                                       |
| No sound from channels 2 and 3 | Priority function is being used | Disconnect mute connection on speaker output terminals.     |

# SERVICE FEATURES

The following features are available if the PICOBLU60 needs servicing

1. Turn the unit off
2. Hold down the front panel button for the require action shown below
3. Power the unit on

- **Bootloader Mode** - Hold the Master volume button until status LED flashes  
The bootloader mode halts the system and awaits new firmware from the USB drive.  
This should only be used if the unit has been corrupted
- **Default System** – Hold USB button, All LEDS flashing, press then encoder to confirm  
(This also clears the repo)
- **Clear Wall Panel Pairing Table** - Hold Bluetooth button until status LED flashes  
This removes any wall panels that have been paired with the system
- **Swap Wall Panels** – Hold PAIR button until status LED flashes  
See the swap wall panel section



## ENGINEERED BY AUSTRALIAN MONITOR

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*Due to continuous improvements, all specifications are subject to change*



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