

INSTALLATION AND OPERATION MANUAL

AUDIO CONTRACTOR TOOLS

LET'S SPLIT (L) • LET'S SPLIT (M)

GET DOWN • GET UP

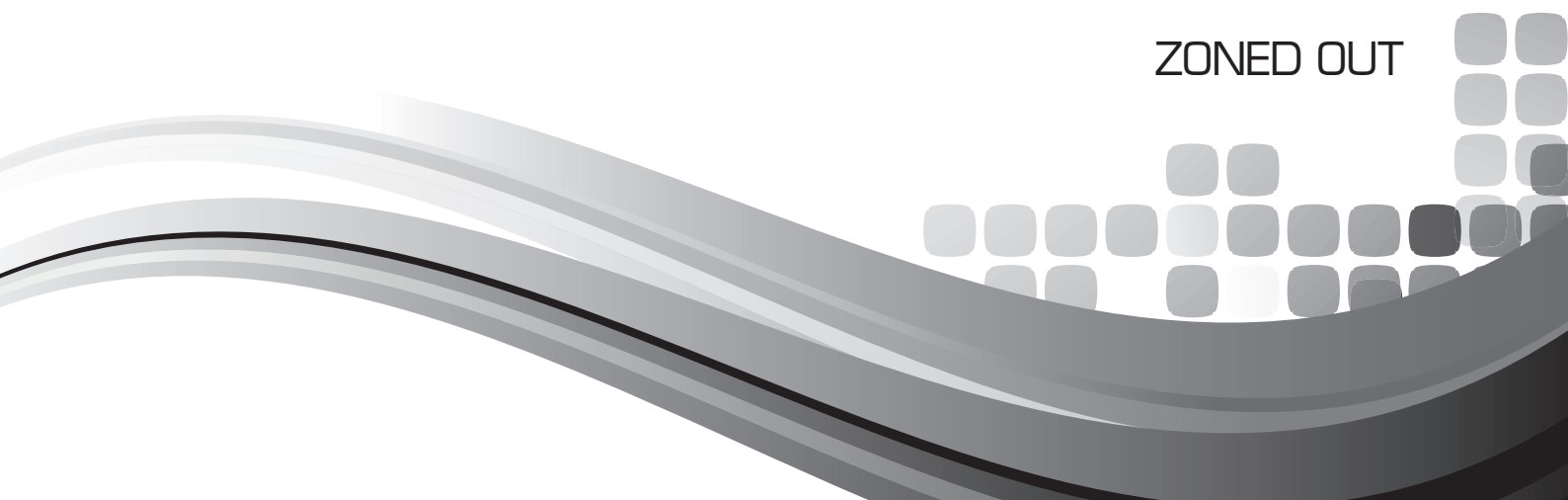
DROP ME • MULTI CAN

JUICED UP • BUZZ OFF

PRE ME • MIXED UP

THE INJECTOR • GET OUT

ZONED OUT



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. Mains plug 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 amplificateurs) qui produisent la chaleur.
9. Ne défaitez 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. Protégez 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. Référez 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. Vérifiez 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.





AUDIO CONTRACTOR TOOLS

Since their introduction the contractor tool range has proved immensely popular with AV installers all around the world.

The entire range of audio contractor tools has been redesigned & expanded to provide even more useful solutions for audio contractors the world over.

NOW RACKMOUNTABLE (Up to three audio contractor tools per 1RU shelf)

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AUS, EUR, USA
REV B: SEP 2014

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.

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

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

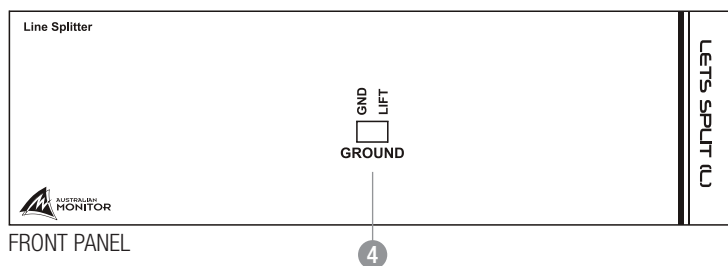
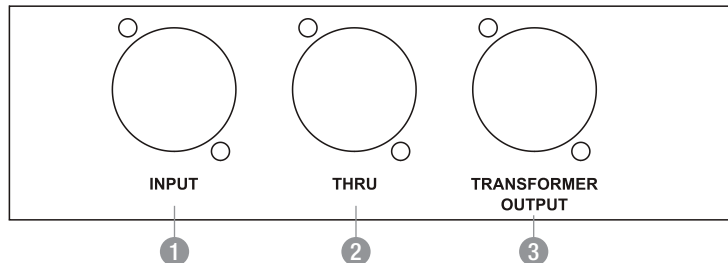


LET'S SPLIT (L) & LET'S SPLIT (M)

LINE SPLITTER

The LETS SPLIT (L) is a balanced line level splitter with a balanced XLR line level input which provides both a transformer balanced XLR output & a thru (direct) XLR output of the input signal. The LETS SPLIT (L) also provides a ground lift switch to eliminate ground loop hum.

REAR PANEL



1 BALANCED XLR INPUT CONNECTOR

2 BALANCED XLR THRU OUTPUT CONNECTOR

Parallel to input

3 BALANCED XLR OUTPUT CONNECTOR

Transformer isolated

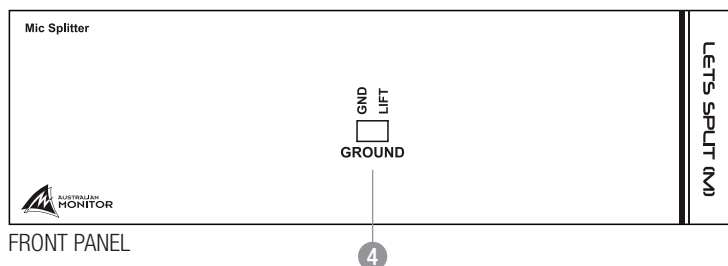
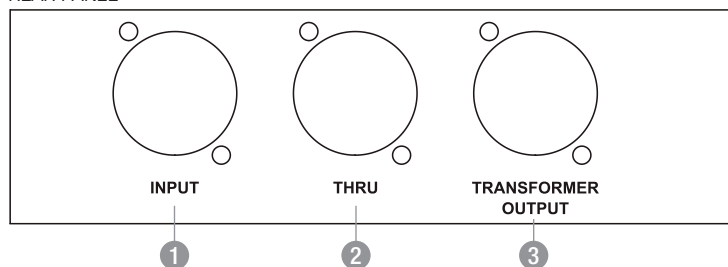
4 GROUND LIFT SWITCH

Pin1 lift on transformer isolated XLR output Set to "GND" to connect pin 1 of output XLR connector to pin 1 of input XLR connectors. Set to "Lift" to disconnect pin1 output XLR connector

LINE SPLITTER

The LETS SPLIT (M) is a balanced microphone level splitter with a balanced XLR microphone level input which provides both a transformer balanced XLR output & a thru (direct) XLR output of the input signal. The LETS SPLIT (M) also provides a ground lift switch to eliminate ground loop hum.

REAR PANEL



1 BALANCED XLR INPUT CONNECTOR

2 BALANCED XLR THRU OUTPUT CONNECTOR

Parallel to input

3 BALANCED XLR OUTPUT CONNECTOR

Transformer isolated

4 GROUND LIFT SWITCH

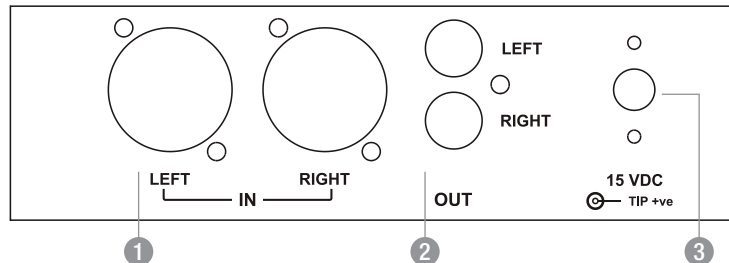
Pin1 lift on transformer isolated XLR output Set to "GND" to connect pin 1 of output XLR connector to pin 1 of input XLR connectors. Set to "Lift" to disconnect pin1 output XLR connector



STEREO CONVERTER

The GET DOWN stereo converter converts a professional line level balanced audio signal to an unbalanced domestic level signal. Inputs are balanced XLRs & outputs are stereo RCA connectors. The GET DOWN also features a front panel level control for achieving the optimal output level.

REAR PANEL



1 STEREO BALANCED LINE LEVEL

XLR input connectors

2 STEREO UNBALANCED LINE LEVEL

RCA output connectors

3 POWER INPUT CONNECTOR

DC Centre +ve

4 POWER LED INDICATOR

Illuminated = On

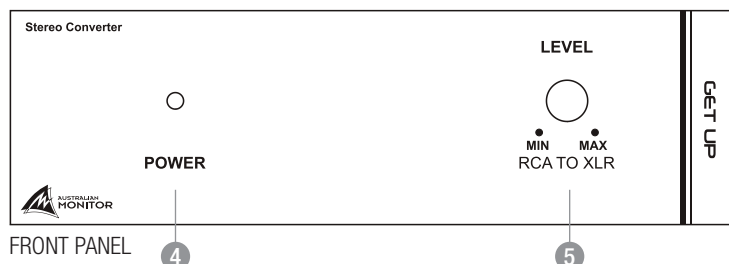
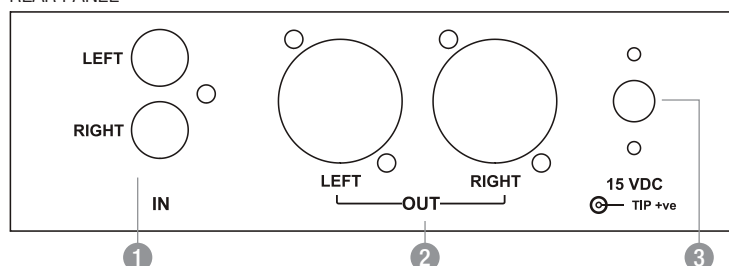
5 LEVEL CONTROL

Adjusts the level of the audio signal on the stereo unbalanced RCA output connectors

STEREO CONVERTER

The GET UP stereo converter converts an unbalanced domestic level signal to a professional line level balanced audio signal. Inputs are stereo RCA connectors & outputs are balanced XLR's. The GET UP also features a front panel level control for achieving the optimal output level.

REAR PANEL



1 STEREO UNBALANCED LINE LEVEL

RCA input connectors

2 STEREO BALANCED LINE LEVEL

XLR output connectors

3 POWER INPUT CONNECTOR

15VDC Centre +ve

4 POWER LED INDICATOR

Illuminated = On

5 LEVEL CONTROL

Adjusts the level of the audio signal on the stereo balanced XLR output connectors

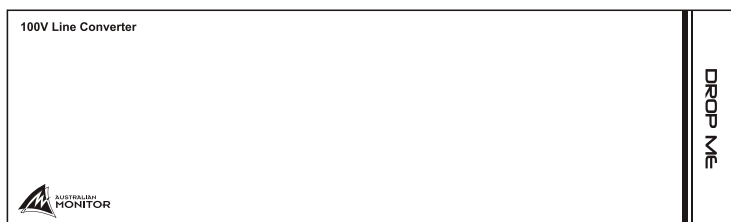
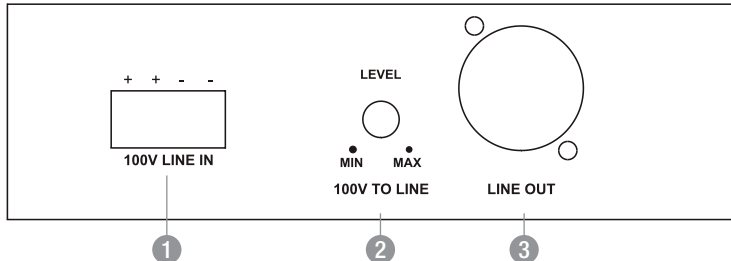


DROP ME AND MULTI CAN

100 VOLT LINE CONVERTER

The DROP ME allows you to convert a 100 volt line amplifier speaker output signal to a balanced line level signal. The 100 volt line signal input is via phoenix connector & the output is balanced XLR. The DROP ME also features a rear panel level control for achieving the optimal output level

REAR PANEL



FRONT PANEL

1 100V SPEAKER LINE INPUT

WECO connector with parallel output

2 LEVEL CONTROL

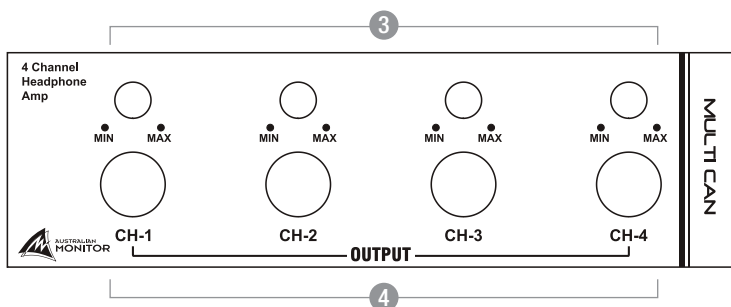
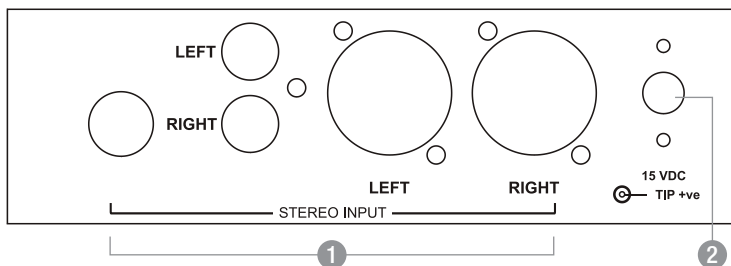
Adjusts the level of the audio signal on the XLR output connector

3 BALANCED LINE LEVEL XLR OUTPUT CONNECTOR

4 CHANNEL HEADPHONE AMPLIFIER

The MULTI CAN is a compact yet high quality 4 channel headphone amplifier, featuring 6.35mm TRS, dual RCA & dual XLR stereo inputs & 6.35mm TRS headphone outputs. The MULTI CAN also offers individual output level controls per channel.

REAR PANEL



FRONT PANEL

1 STEREO LINE LEVEL INPUT CONNECTORS

In parallel (6.35mm TRS stereo jack, stereo RCA connectors, stereo XLR connectors) All four headphone amplifiers share the same common stereo input

2 POWER INPUT CONNECTOR

15VDC Centre +ve

3 FOUR LEVEL CONTROLS

Adjusts the level of the audio signal of the headphone jack directly below

4 FOUR STEREO HEADPHONE CONNECTORS

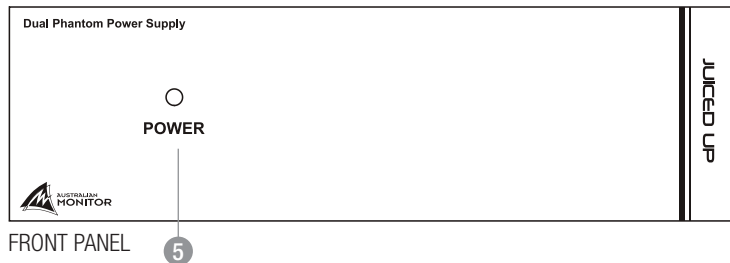
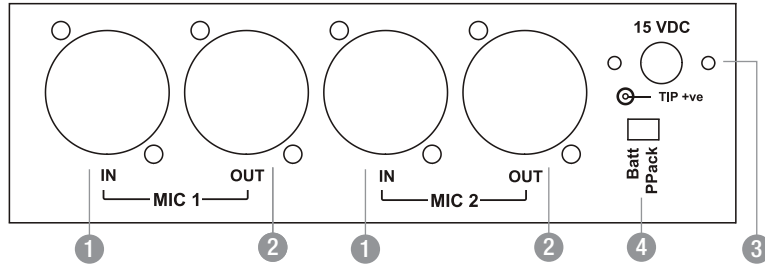
6.35mm stereo sockets



DUAL PHANTOM POWER SUPPLY

The JUICED UP is a 2 channel phantom power supply that features balanced XLR inputs & outputs per channel. The JUICED UP can operate via the supplied external power supply or via two on board 9 volt batteries, selectable via a rear panel slider switch. The Juiced up will supply 15VDC phantom power via battery power & 42VDC off external power supply

REAR PANEL



1 BALANCED XLR INPUT CONNECTOR

1 per channel

2 BALANCED XLR OUTPUT CONNECTOR

1 per channel

3 POWER INPUT CONNECTOR

15VDC Centre +ve

4 POWER SOURCE SELECTION SWITCH.

Set to "Batt" to run off 2x 9V internal batteries (15VDC phantom power output). Set to "PPack" to run off an external 15VDC (centre +ve) plug pack (42VDC phantom power output). Set to "PPack" when not in use to prolong internal battery life.

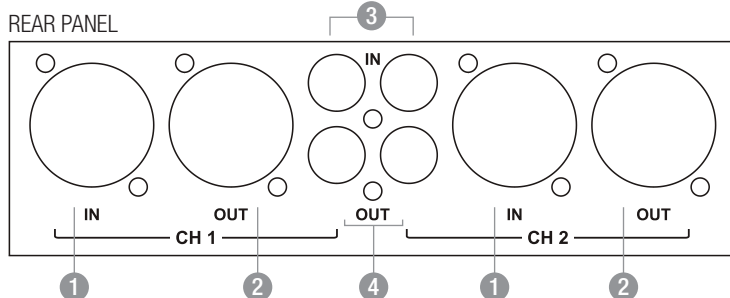
5 POWER LED INDICATOR

Illuminated = On

DUAL CHANNEL HUM ELIMINATOR

The BUZZ OFF is a two channel hum eliminator featuring both balanced XLR inputs & outputs & unbalanced RCA inputs & outputs per channel. The BUZZ OFF is ideal for getting rid of hum & extraneous noise from long cable runs.

REAR PANEL



1 BALANCED XLR INPUT CONNECTOR

1 per channel

2 BALANCED XLR TRANSFORMER ISOLATED OUTPUT CONNECTOR

1 per channel

3 UNBALANCED RCA INPUT CONNECTOR

In parallel to XLR input connector, 1 per channel

4 UNBALANCED RCA TRANSFORMER ISOLATED OUTPUT CONNECTOR

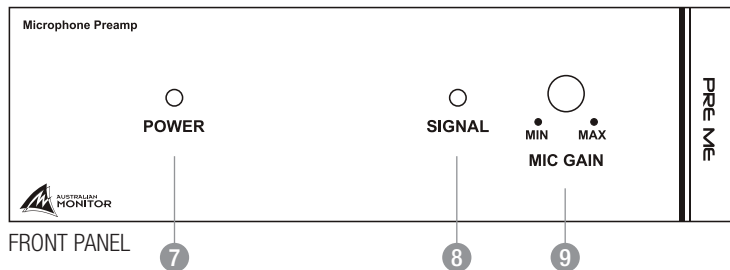
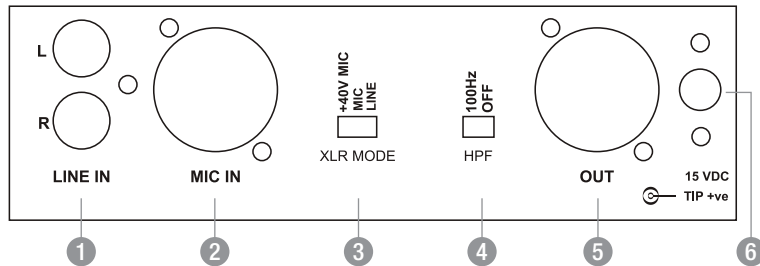
In parallel to XLR output connector, 1 per channel



MICROPHONE PRE AMPLIFIER

The PRE ME is a compact yet highly featured microphone pre amplifier. The PRE ME features dual RCA line input & a balanced XLR input switchable between microphone & line level. The PRE ME also offers +40VDC phantom power, switchable High pass filter (rolling off at dB per octave at 100 Hz & balanced XLR output. A front panel gain control & dual colour signal present LED are also offered for ease of setup & operation

REAR PANEL



FRONT PANEL

1 STEREO UNBALANCED LINE LEVEL

RCA input connectors (mono summed)

2 BALANCED MICROPHONE/LINE LEVEL

XLR input connector

3 XLR INPUT CONNECTOR MODE SWITCH.

Set to "+40V MIC" to set the XLR input connector sensitivity to microphone level with phantom power enabled. Set to "MIC" to set the XLR input connector sensitivity to microphone level. Set to "LINE" to set the XLR input connector sensitivity to line level

4 HIGH PASS FILTER SWITCH.

Set to "100Hz" to enable the 100Hz high pass filter on all inputs. Set to "Off" to disable the high pass filter on all inputs

5 BALANCED LINE LEVEL

XLR output connector

6 POWER INPUT CONNECTOR

15VDC Centre +ve

7 POWER LED INDICATOR

Illuminated = On

8 SIGNAL PRESENCE LED.

Illuminates green to indicate audio signal present on the output XLR connector. Illuminates red to indicate audio signal clipping (illuminates -6dB before clipping occurs)

9 LEVEL CONTROL

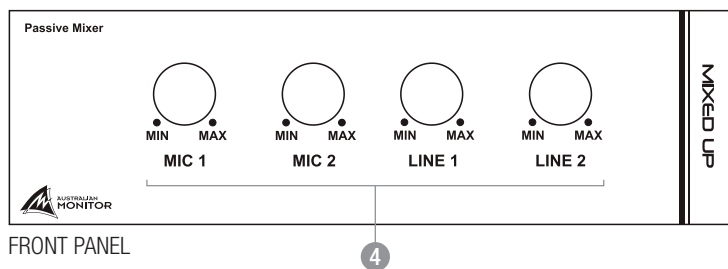
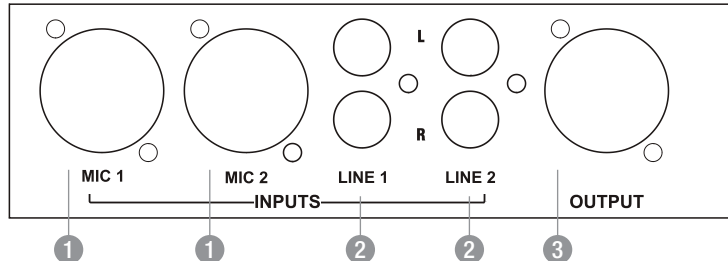
Adjusts the level of the audio signal on the XLR output connector



4 CHANNEL PASSIVE MIXER

The MIXED UP is a passive 4 channel mixer which features 2 balanced XLR microphone inputs & 2 dual RCA line inputs & a single microphone level balanced XLR output. The MIXED UP also offers individual front panel level controls per input.

REAR PANEL



1 BALANCED MICROPHONE LEVEL XLR INPUT CONNECTORS

2 off

2 UNBALANCED LINE LEVEL STEREO RCA INPUT CONNECTORS

2 off, mono summed

3 BALANCED MICROPHONE LEVEL XLR OUTPUT CONNECTOR

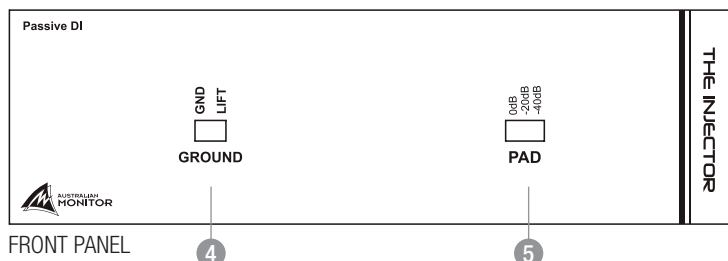
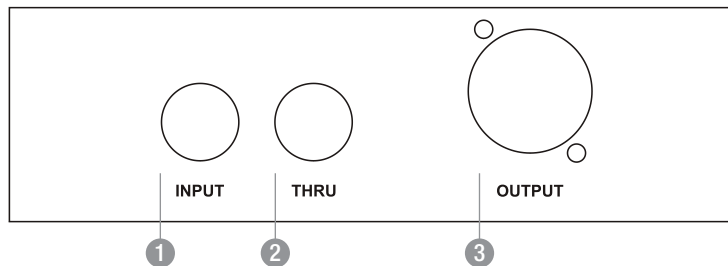
4 FOUR LEVEL CONTROLS

Adjusts the level of the audio signal of the respective source in the output mix

PASSIVE DI

The THE INJECTOR is a passive direct injection box which offers a 6.35mm input, 6.35mm thru output (direct) & a balanced XLR output. The INJECTOR also features ground lift switching for elimination of hum & a three stage pad offering up to 40dB of attenuation.

REAR PANEL



1 UNBALANCED LINE LEVEL

6.35mm jack socket input connector

2 UNBALANCED LINE LEVEL

6.35mm jack socket output connector (in parallel with jack input connector)

3 BALANCED LINE LEVEL XLR OUTPUT CONNECTOR

4 GROUND LIFT SWITCH

Pin1 lift on transformer isolated XLR output. Set to "GND" to connect pin 1 of output XLR connector to pin 1 of input XLR connectors. Set to "Lift" to disconnect pin1 output XLR connector

5 PAD SWITCH

Set to "0dB" to allow the audio signal to not be attenuated. Set to "-20dB" to reduce the signal level on the XLR output connector by 20dB. Set to "-40dB" to reduce the signal level on the XLR output connector by 40dB



GET OUT AND ZONED OUT

USB TO STEREO CONVERTER

The GET OUT is a USB Audio Interface with transformer balanced stereo outputs to avoid hum, noise and earth loops.

The computer connection is via a USB "Type B" connector located on the rear panel and the supplied USB cable. The GET OUT is powered by the USB computer connection. A pair of male XLR connectors provide line level balanced outputs.

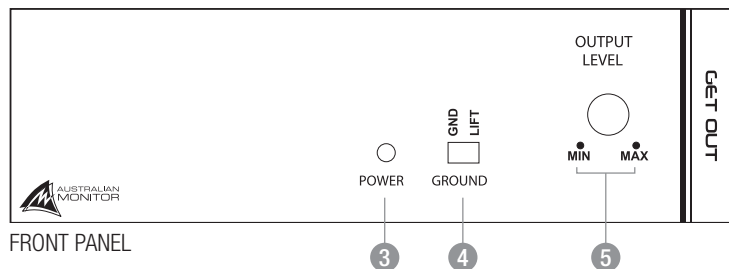
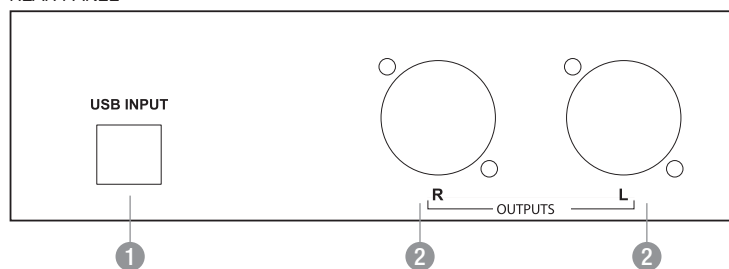
The GET OUT also features a front panel ground lift switch and a level control for achieving the optimal output level.

The GET OUT functions with Windows XP, Windows 7 and Mac OSX operating systems without the need to install drivers. Simply plug and play!

The GET OUT operates as an external sound device for your laptop or PC. The device name is "USB Audio Device" (Windows) or "USB Audio CODEC" (OSX)

Following connection to a computer, Windows will set the mixer volume to 50%. We recommend you adjust this control to 100% in the interest of delivering optimal signal levels with minimal noise. Simply open the Windows Control Panel, select Sounds and Audio Devices, then select the "USB Audio Device" and set the Volume slider to maximum.

REAR PANEL



1 USB INPUT

Type B USB connector

2 STEREO BALANCED LINE LEVEL

Male XLR output connectors

3 POWER LED INDICATOR

Illuminates when connected to a PC

4 GROUND LIFT SWITCH

Pin 1 ground lift on the transformer isolated XLR outputs. Set to "GND" to connect the signal ground. Set to "LIFT" to disconnect the signal ground

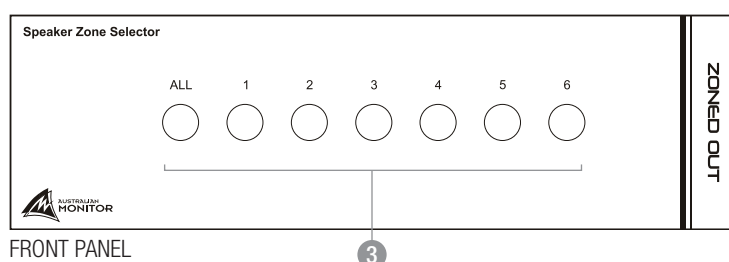
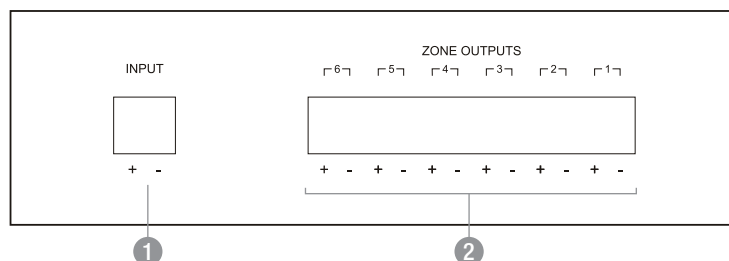
5 OUTPUT LEVEL CONTROL

Adjusts the audio output level on the XLR outputs

6 ZONE OUTPUT SWITCHER

The ZONED OUT is a simple way to have up to 6 zone output zone switching in your installation. Simply wire the Zoned out to the constant voltage output of your AMC+ or amp and you have the ability to switch up to 6 speaker zones on or off.

REAR PANEL



1 100V LINE INPUT

Connect your amplifier to this constant voltage input connector

2 100V LINE OUTPUTS

Connect your speakers to the constant voltage output connectors

3 ZONE SELECTOR PUSH BUTTONS

Use the push buttons to select which zone the audio input is transmitted to



ALL AUDIO CONTRACTOR TOOLS DIMENSIONS

WEIGHT 0.5kg Maximum

SHIPPING DIMENSIONS 246mm x 126mm x 62mm
(9.7" x 5" x 2.4")

SHIPPING WEIGHT 0.8kg Maximum

LETS SPLIT(L)

Frequency Response 10Hz - 60kHz
THD <0.005%
Output impedance 110 Ohms
Max Input at 1kHz >+30dBu
Max Input at 50Hz >+4dBu

GET DOWN

Frequency Response 10Hz - 100kHz
THD <0.005%
Noise + Hum <-85dBu
Max Input +22dBu
Stereo separation -68dB

GET UP

Frequency Response 35Hz - 80kHz
THD <0.02%
Noise + Hum <-74dBu
Max Input +30dBu
Stereo separation -52dB

DROP ME

Frequency Response 10Hz - 60kHz
THD <0.005%

MULTI CAN

Frequency Response 10Hz - 29kHz
THD <0.03%
Output impedance 50 Ohms
Max Output Power 7.5mW
Noise + Hum -91dBu
Stereo separation -63dB

JUICED UP

Frequency Response 50Hz - 77kHz
THD <0.07%

PRE ME

Frequency Response 80Hz - 30kHz
THD <0.3%
Noise + Hum <-86dBu
Mic Max Input -10dBu
Line Max Input +16dBu
RCA Max Input +24dBu
Phantom Power 40V
Mic Gain +39dB
Line Gain +12dB
RCA Gain +4.5dB
Max Out +8dBu
Output Impedance 200 Ohms
Mic Input impedance 1k5 Ohms
Line Input Impedance 27k5 Ohms
RCA Input Impedance 29k Ohms

HUM ELIMINATOR

Frequency Response 10Hz - 80kHz
THD <0.006%
Output impedance 750 Ohms
Max Input at 1kHz >+30dBu
Max Input at 50Hz >+20dBu

MIXED UP

Frequency Response 10Hz - 60kHz
THD <0.005%

THE INJECTOR

Frequency Response 13Hz - 44kHz
THD <0.07% at +30dBu
Output impedance 250 Ohms

GET OUT

Frequency Response (-3dB) 20 Hz - 20 kHz
THD @ 0dBFS <0.02%
Output Impedance 600 Ohms
Maximum Output 0dBu
Noise + Hum <-90dBu
Stereo Separation -91dB
System Support
Windows 2000, XP, Vista, Windows 7
OS 9.1 or later, OSX 10.0 or later
Linux kernel 2.6.35 or later
Windows ME and 98SE with the original Windows install disks



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