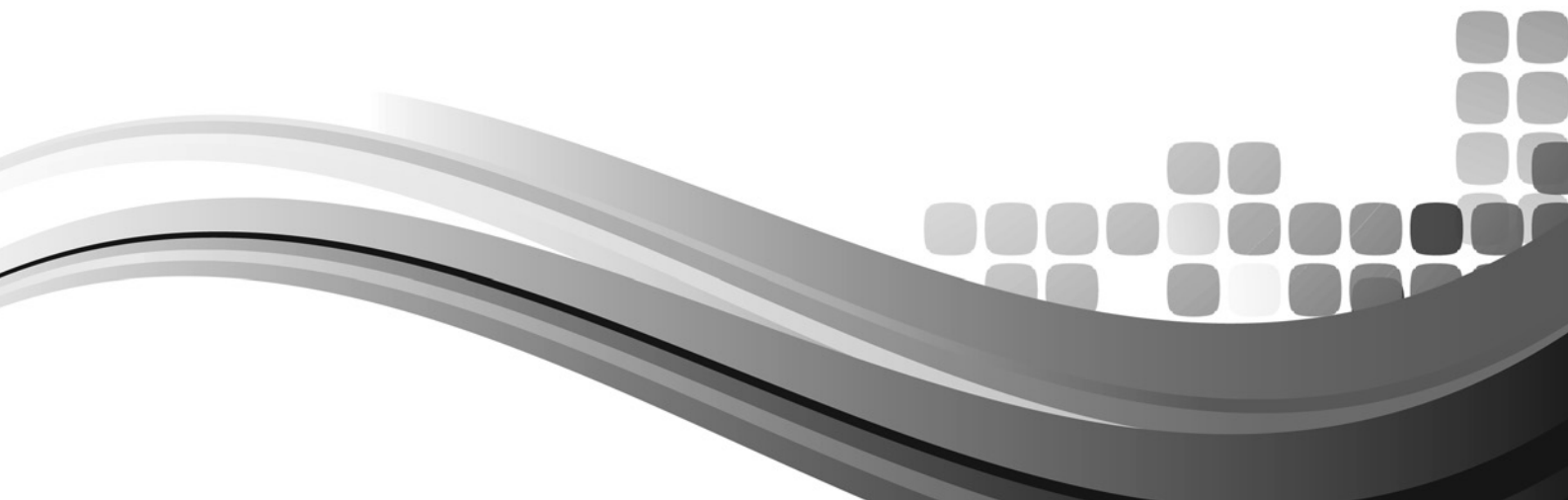




# INSTALLATION AND OPERATION MANUAL

## AMC+ MIX

4 INPUT MICROPHONE/LINE MIXER



## 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 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 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.





## AMC+ MIX

The Australian Monitor AMC+ Mix mixer takes the affordability and ease of use of our AMC+ series amplifiers and integrates the front end into a low cost mixer for applications where reliability is everything, but the more elaborate features of larger mixers are not required.

The AMC+ Mix is a 1 RU mixer with 4 universal mic/line inputs. Master volume and overall treble and bass controls are provided, along with Vox triggered muting (defeatable), giving channel 1 priority over inputs 2, 3 and 4. There is also the facility to add a tone generator card.

The Australian Monitor AMC+ Mix gives the contractor a low cost alternative in applications that are price sensitive, but still require a high quality of sound reproduction and reliability.

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### 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.

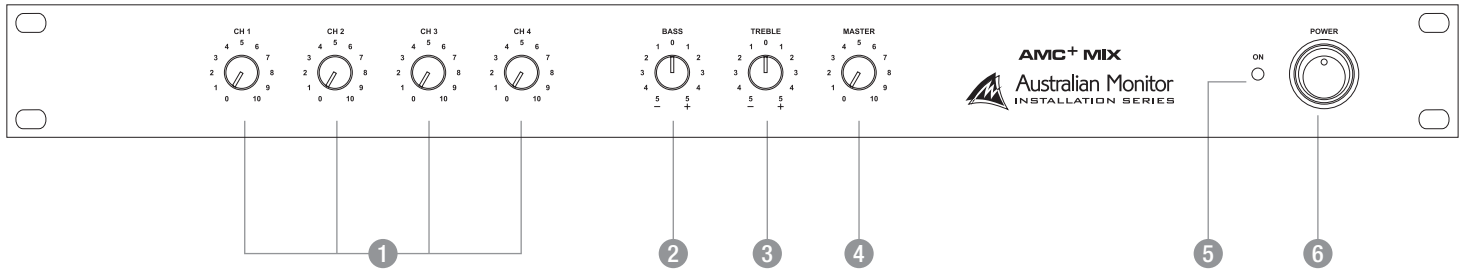


For European Union countries: This symbol on the product or its packaging indicates that this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical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



## FRONT PANEL



### 1 CH 1-4

These control the levels for each channel input.

### 2 Bass

There is 12dB of cut and boost at 100Hz.

### 3 Treble

There is 9dB of cut and boost at 10kHz.

### 4 Master

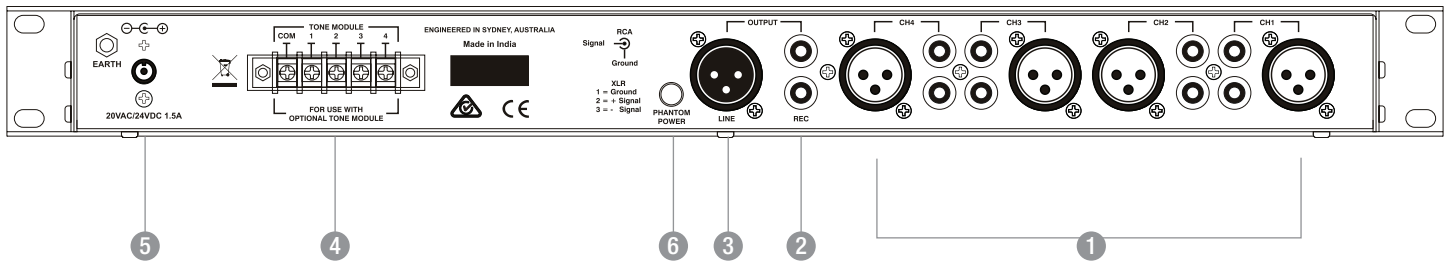
This controls the overall mixed output level.

### 5 On Indicator

This LED indicates the unit is powered "on".

### 6 Power Switch

This switch switches power on or off from the mains. The up position is on.



### 1 CH 1-4

Each channel input section has two inputs: XLR input – This is a balanced microphone input. It has an input sensitivity of 1mV. RCA input – This is an unbalanced line level input. It has an input sensitivity of 150mV. The two RCA sockets are summed to mono internally.

### 2 REC Output

The REC output is on unbalanced RCA connectors. The output level is 150mV into 10kohm at rated output. The output is dual mono.

The REC output is not affected by the MASTER volume control or the BASS and TREBLE controls.

The REC output does not receive the tone signal if the optional tone generator module is installed.

### 3 Line Output

The LINE output is on a balanced XLR connector. The output level is 1V into 1k at rated output.

**NOTE:** When wiring the LINE output as unbalanced, Pin2 should be wired as hot and Pin1 should be wired as ground/shield. Do not wire Pin3.

### 4 (Optional) Tone Module

These terminals are for use with an optional tone module (not supplied). Use Australian Monitor ATC5488 module.

### 5 AC Power Socket

This is a 5.5mm x 2.1mm barrel socket. It accepts 20V AC / 24V DC 1.5A power from the plug pack provided.

### 6 Phantom Power

12V phantom power is available for condenser or electret microphones on the XLR input when this switch is pushed in.



# INSTALLATION

## Mounting

Your amplifier is designed for standard 19" rack mounting and occupies 1 EIA rackunit (1.75").

The mounting centres are:

Vertical: 1.5" (38.1mm) Horizontal: 18.2" (461.2mm) to 18.7" (473.8mm)

The slots in the mounting flange will accept bolt diameters up to 1/4" (6.35mm). We recommend that you provide additional support for the amplifier, especially if road use is planned, as the weight could bend some rack frames. This support can be provided by secure shelving on support rails.

## Montage

Cet ampli convient pour un montage en rack de 19" et a 1 unité de 1.75".

Les centres de montage sont:

Vertical: 1.5" soit 38.1.2 mm Horizontal: de 18.2" (soit 461.2mm) à 18.7" (soit 473.8 mm).

Vous pouvez mettre des vis de 6.5 mm maximum dans les fentes de la bride de montage. Nous vous recommandons un support supplémentaire car le poids peut parfois faire plier le châssis en cas d'usage intensif.

## OUTPUT CONNECTIONS

### Line Output

The LINE output XLR can be used to connect up to 6 booster amplifiers. Balanced wiring (shielded pair cable) is recommended.

**NOTE:** When wiring the LINE output as unbalanced, Pin2 should be wired as hot and Pin1 should be wired as ground/shield. Do not wire Pin3.

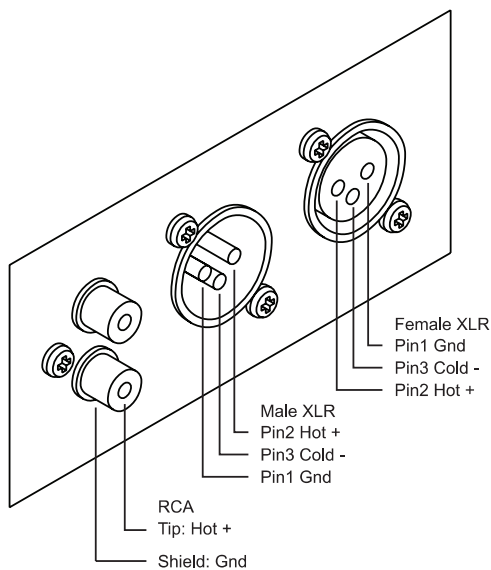
### Rec Output

The TAPE output wiring should be kept as short as possible. Typically less than 3m.

### Input Connections

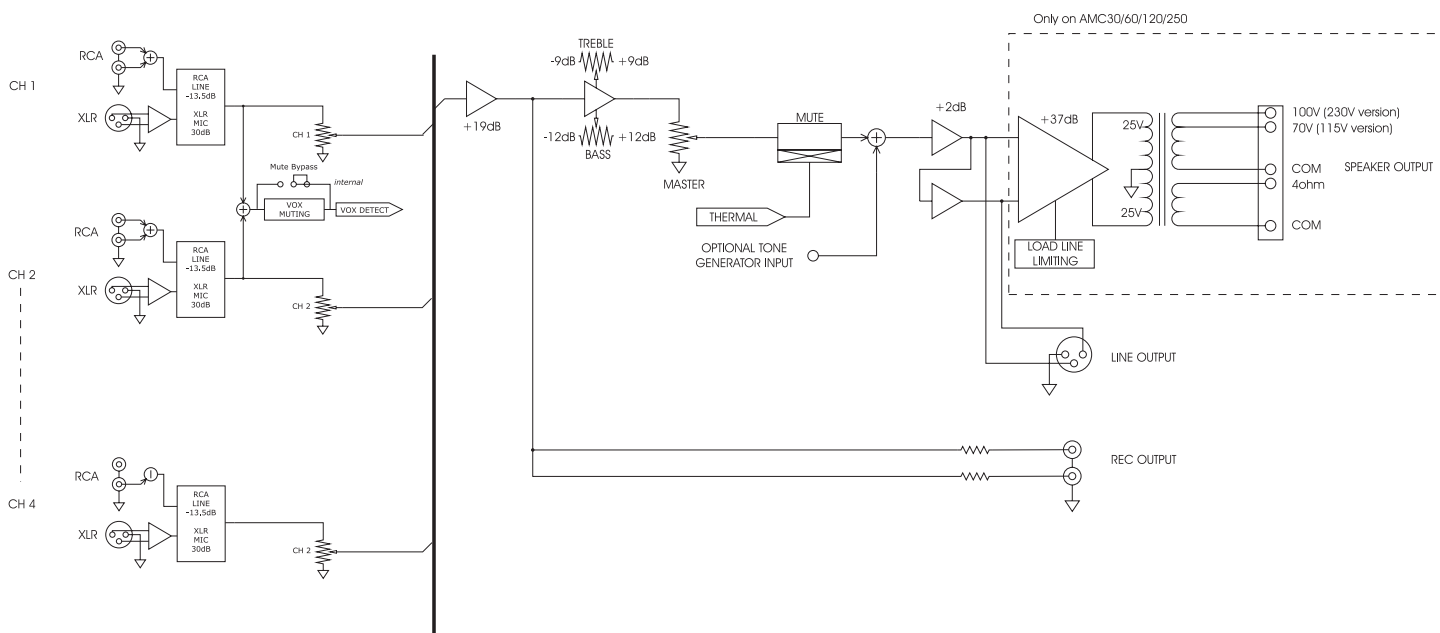
For wiring balanced in, pin 2 is hot. Unbalanced wiring on the microphone inputs is not recommended. Balanced input wiring (shielded pair cable) is recommended.

Unbalanced RCA wiring should be kept as short as possible. Typically less than 3m.





TROUBLESHOOTING GUIDE		
Trouble	Likely Cause	Remedy
Power LED not on	Check power switch is on	Check plug pack connection
Distorted sound	Input is overloaded Output is being over driven Bass control is turned up	Reduce input level at source Reduce volume levels on front panel Reduce Bass control level
No sound but mixer is on	Volume controls down Connected amplifier is switched off	Check volume controls Check amplifiers and speakers
No sound from channels 2 and 3	Priority function is being used	Remove signal (disconnect input) from channel 1 OR Disable priority function (see Internal Adjustments)
Tones do not sound when triggered	Tone generator module not installed	Purchase optional Tone generator module



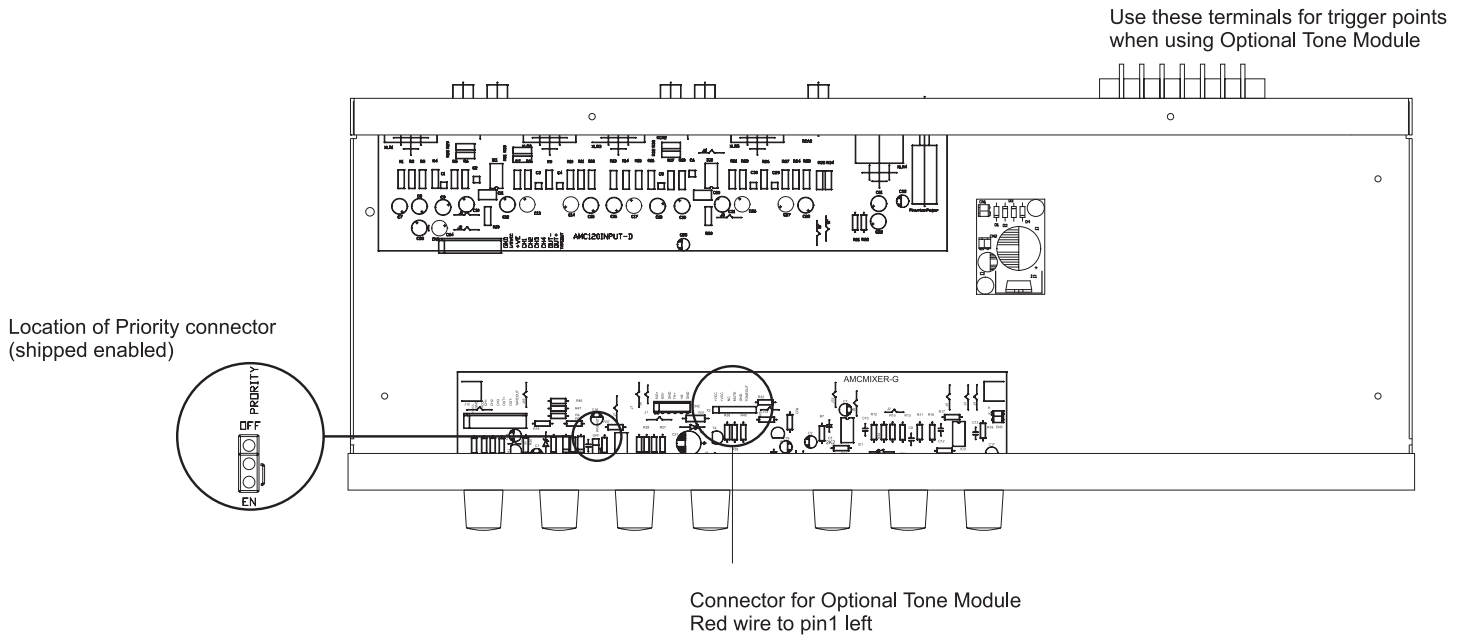


# FUNCTIONAL NOTES AND INTERNAL ADJUSTMENTS

## Priority

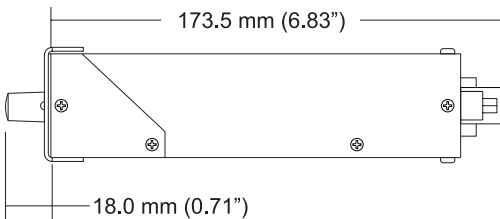
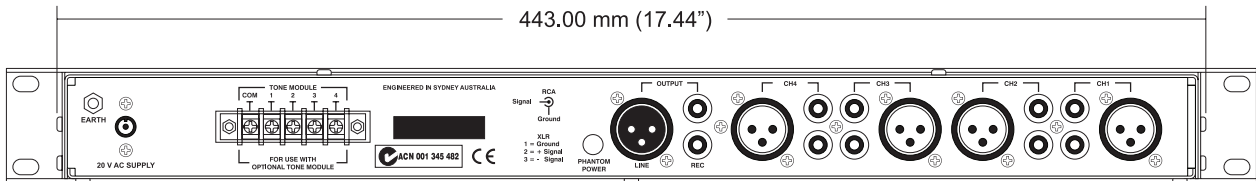
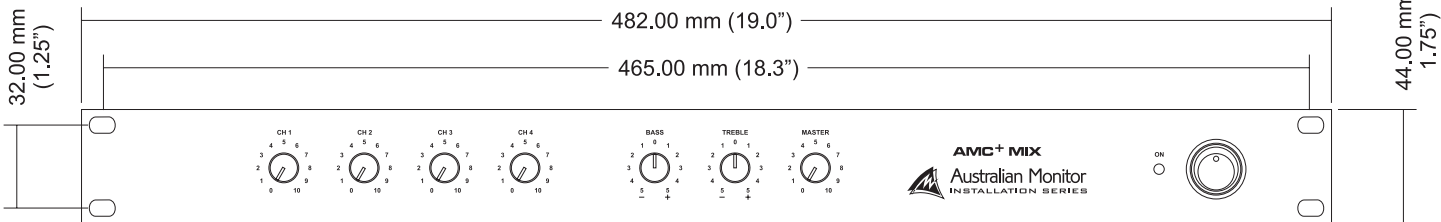
Channel 1 will mute channels 2, 3 and 4. This will only occur when signal appears on channel 1, irrespective of the channel volume control.

Priority can be disabled. (See below). The release time is approx. 3 secs and is NOT adjustable. The mute depth is approx. 40dB and is not adjustable.





# DIMENSIONS





## SPECIFICATIONS

<b>FREQUENCY RESPONSE</b>	20Hz - 20kHz (+0, -3dB)
<b>TOTAL HARMONIC DISTORTION</b>	< 0.5% @ 1kHz
<b>SIGNAL TO NOISE RATIO</b>	> 84dB (all pots at centre position)
<b>CROSSTALK</b>	> 60dB
<b>TONE CONTROLS</b>	
Bass @ 100HZ	+/- 12dB
Treble @ 10KHZ	+/- 10dB
<b>SENSITIVITY</b>	Mic Sens 1mV, -61dBu Imp 1k3ohm RCA 150mV, -4dBu Imp >100kohm
<b>MAX LEVEL IN</b>	XLR mic -20dBu RCA >30dBu
<b>MAX LEVEL OUT</b>	+14dBu
<b>OUTPUTS</b>	
Master Out	Nominal Level 0dBu into 1kohm Imp 100ohm
Mono Rec out	Nom -16dB into 10kohm Imp 10kohm
<b>POWER INPUT</b>	20V AC or 24V DC 1.5A via 2.1mm x 5.5mm barrel socket
<b>POWER CONSUMPTION (Max)</b>	7 VA
<b>DIMENSIONS (W x D x H)</b>	482mm x 191.5mm x 44mm (19" x 7.54" x 1.75")
<b>SHIPPING DIMENSIONS (W x D x H)</b>	500mm x 305mm x 134mm (19.7" x 12" x 5.3")
<b>WEIGHT</b>	
Net Weight	2.5kg (5.5lb)
Shipping Weight	3.5kg (7.7lb)



Lined area for notes, containing multiple horizontal lines.



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