

# PM SERIES POWERED MIXERS:

PM500

PM600

PM500 RM

PM600 RM



# CAUTION

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**

**WARNING: DUE TO THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.**

**Wharfedale Professional Limited Warranty:** The PM Series of Powered Mixers are warranted to be clear of manufacturing or materials defects for a period of one year from the original date of purchase. In the event of malfunction, contact your authorised Wharfedale Professional dealer or distributor. Be aware that warranty details differ from country to country.

**Unpacking:** All Wharfedale Pro Products are fully checked before leaving the factory. After unpacking please inspect the units for any physical damage. Please retain the shipping carton if possible and internal packing material in case the unit needs to be returned. Please check as soon as possible that the unit is functioning. In the event of any damage please contact your dealer immediately so that a written claim for damages may be made.

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**!Warning** – read all operating and service instructions that accompany this appliance! **!Varning** – läs alla användar- och serviceinstruktioner som medföljer enheten! **!Atenção** - leia todas as instruções de manutenção e de operação que acompanham este aparelho! **!AVVERTENZA** – Leggere attentamente le istruzioni per il funzionamento e la manutenzione fornite con l'unità! **!Aviso:** Lea todas las instrucciones de funcionamiento y de mantenimiento que se adjuntan a este aparato! **Vaara** – lue kaikki laitteen mukana toimitetut käyttö- ja huolto-ohjeet! **!Advarsel** – læs alle betjenings- og serviceanvisninger, der følger med produktet! **!Waarschuwing** – lees alle bedienings- en onderhoudsinstructies die bij dit apparaat horen! **!Vorsicht** - Lesen Sie diese Bedienungsanleitung sorgfältig durch! **!Attention:** Lisez attentivement les instructions avant d'utiliser ce produit!

**FORSIKTIGHET:** För att minska risken för elstöt bör man inte ta bort enhetens ytterhölje (eller det bakre skyddshöljet). Reparationer får bara genomföras av kvalificerade servicetekniker.

**AVISO:** Para reduzir o risco de choque eléctrico, não remova a tampa (ou a cobertura traseira). O usuário não deve efectuar a manutenção. Deve pedir aos técnicos qualificados em manutenção.

**ATTENZIONE:** Per ridurre il rischio di scosse elettriche, non rimuovere la copertura (o il pannello posteriore). Le operazioni di manutenzione devono essere eseguite esclusivamente da personale qualificato.

**PRECAUCION:** Con el fin de reducir el riesgo de sacudidas eléctricas, no desmonte la tapa (o la tapa posterior). El mantenimiento no deberá ser realizado por el usuario, sino por el personal de mantenimiento cualificado.

**WARNING:** To reduce the risk of electric shock, do not remove cover (or back). No user servicing to qualified service personnel.

**VAROITUS:** Tulipalo- ja sähköiskuvaaran vähentämiseksi älä irrota suojusta (tai takapaneelia). Älä huolla laitetta itse, anna huoltotyöt ammattitaitoisen huoltohenkilökunnan tehtäväksi.

**FORSIGTIG:** For at mindske risikoen for elektrisk stød må du ikke fjerne beklædningen (eller bagbeklædningen). Reparationer må kun udføres af kvalificeret servicepersonale.

**PAS OP:** Om de kans op elektrische schokken te minimaliseren, dient u de afdekklep (of achterkant) niet te verwijderen. Onderhoud dient alleen te worden uitgevoerd door gekwalificeerd personeel.

**VORSICHT:** Um die Gefahr eines elektrischen Schlages zu vermeiden darf die Abdeckung nicht entfernt werden. Die Wartung des Gerätes sollte qualifiziertem Fachpersonal vorbehalten bleiben.

**CAUTION:** Pour réduire les risques d'électrocution, ne pas démonter le capot. La manipulation doit être effectuée par un personnel agréé.

## **WHARFEDALE PROFESSIONAL PM SERIES POWERED MIXERS**

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# WHARFEDALE PROFESSIONAL PM SERIES POWERED MIXERS

## INTRODUCTION:

Congratulations on the purchase of your PM Series Powered Mixer from Wharfedale Professional. The PM Series is available in a choice of two models - the PM 500 and the PM 600. These two mixers have the same specifications except where noted in this manual. The PM Series powered mixers are available as standard in a carpet covered wooden box. The RM version is also available for both models. The RM version comes without the wooden box surround so that the unit can be rack mounted.

**In order to get the most satisfaction from your PM mixers, please read this manual carefully.**

## GETTING STARTED:

1. Before you turn on the main power to the unit, ensure that the Master Output Control is in the OFF position.
2. If you need to connect or disconnect any cables or units, make sur the Power is OFF before doing so.
3. Check that the voltage of the unit matches the AC voltage you will be operating with.

## FEATURES:

### FEATURES:

#### PM600 and PM600 RM

- Five Mic and six line input sockets
- Channel six features extra Tape In button
- Digital Delay Section
- Three Band EQ in Master Section
- Tape In
- Record Out
- EFX Return
- EFX Send
- Power On/Off on front of unit for ease of use
- Parallel speaker outputs on rear of unit
- Main line output on rear of unit
- Built in 230 watt power amplifier
- Two band channel EQ
- XLR plus 1/4" input sockets
- Fan cooling system
- Thermal protection

#### PM500 and PM500 RM

- Four Mic and five Line input sockets
- Channel five features Tape In Button
- Main line output on rear of unit
- Two band Channel EQ
- XLR plus 1/4" input sockets
- Digital Delay Section
- Record Out
- Built in 120 watt power amplifier
- Thermal protection

## WHARFEDALE PROFESSIONAL PM SERIES POWERED MIXERS

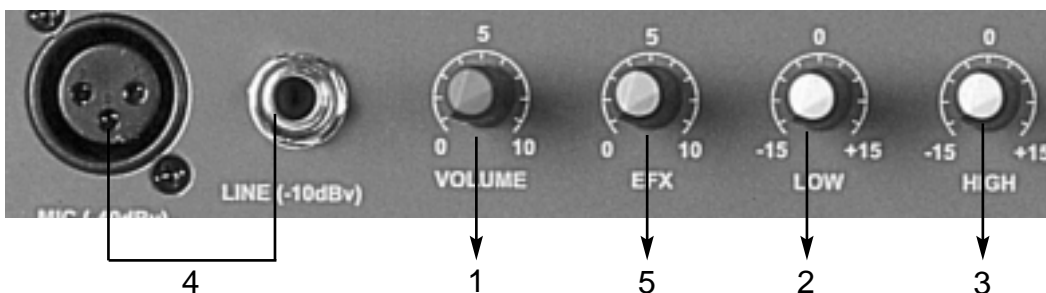
### CHANNEL STRIP DESCRIPTION PM500:



- 1. VOLUME:** Determines volume level of the channel in the mix.
- 2. LOW EQ:** The LOW EQ control gives 15db of boost or cut at 80Hz. By turning the knob to the right (boost) instruments such as guitars can be given more clarity, or vocals can be 'warmed'. Turning to the left (cut) will eliminate unwanted low frequencies such as those caused by close miking or excessive bass frequencies in instruments
- 3. HIGH EQ:** The High EQ control gives 15dB boost or cut at 12kHz. Turn to the right to add clarity to high frequency components such as percussion. By turning to the left, high frequencies such as 'hiss' are cut.
- 4. MIC/LINE INPUT:** Connection can be made to the MIC/LINE inputs with either XLR or 1/4" phono jack. This connection can be either a microphone or a line level signal.
- 5. EFX:** Use this control to determine the signal level to be sent to the built in digital delay effect control.

The LF control frequency has been carefully selected, allowing pleasing musical adjustment to vocals or instruments without losing their natural balance. The HF control is similarly designed to enable pleasing musical control without harshness or excessive mid range interference.

### CHANNEL STRIP DESCRIPTION PM600:



- 1. VOLUME:** Determines volume level of the channel in the mix.
- 2. LOW EQ:** The LOW EQ control gives 12dB of boost or cut at 100Hz. By turning the knob to the right (boost) instruments such as guitars can be given more clarity, or vocals can be 'warmed'. Turning to the left (cut) will reduce hum or unwanted background interference.
- 3. HIGH EQ:** The High EQ control gives 12dB boost or cut at 8kHz. Turn to the right to add clarity to high frequency components such as percussion. By turning to the left, high frequencies such as 'hiss' are cut.
- 4. MIC/LINE INPUT:** Connection can be made to the MIC/LINE inputs with either XLR or 1/4" phono jack. This connection can be either a microphone or a line level signal.
- 5. EFX:** Use this control to determine the signal level to be sent to the built in digital delay effect control.

# WHARFEDALE PROFESSIONAL PM SERIES POWERED MIXERS

## MASTER SECTION DESCRIPTION PM500 AND PM600:



PM600

### DIGITAL DELAY SECTION:

The built in digital delay will process the signal from the input channels and feed to the master output. The effects of digital delay are controlled by:

**TIME:** This adjusts the internal time of the delays. Turn to the right to increase the interval time between two delays, turn to the left to decrease.

**REPEAT:** This increases the repeat rate of the delays by turning the knob to the right.

**VOLUME:** This knob adjusts the mix level of the effect.



PM500



### MASTER CONTROL PM500:

The Master Control adjusts the final level of the Main bus signal which is output to the speakers.

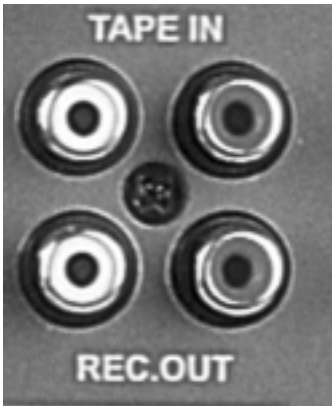


### MASTER CONTROL PM600:

The Master Control on the PM600 also offers a three band (MID, LOW and HIGH) EQ section for tonal adjustment of the final mix.

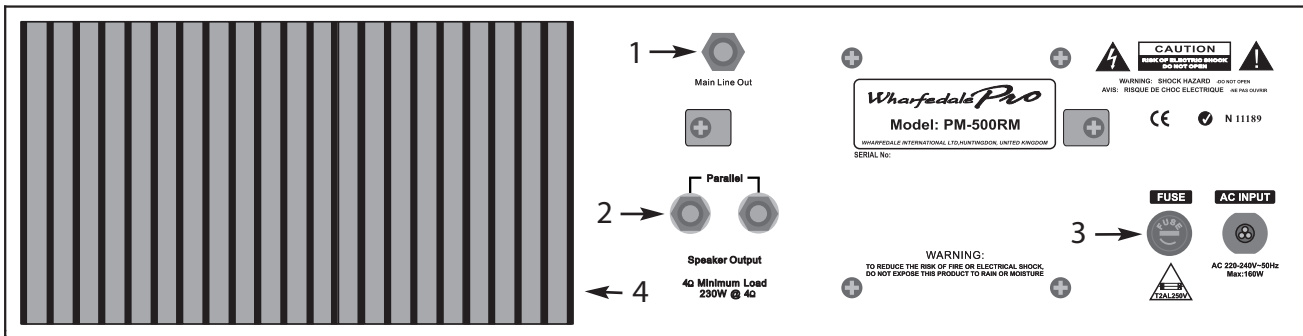
# WHARFEDALE PROFESSIONAL PM SERIES POWERED MIXERS

## TAPE IN AND REC OUT PM500 AND PM600:



The TAPE IN sockets allow cassette recorders or CD players to be added to the Main output. The RECORD OUTPUT provides a signal output to a cassette deck and home audio equipment. Sockets are RCA Phono.

## REAR PANEL DESCRIPTION PM500:



### PM500:

**1. MAIN LINE OUT:** This unbalanced insertion point allows the main output to be sent to an external signal processor or power amplifier. The insert is a 1/4" phono jack socket which is not bypassed.

**2. SPEAKER OUTPUT JACKS:** These outputs allow two speakers to be connected at the same time to the powered mixer. The total minimum load required is 4 Ohms. If the total load is less than 4 Ohms it may result in the mixer being damaged. The following guidelines should be noted:

When using two speakers at the same time, use 8-16 Ohms speakers.

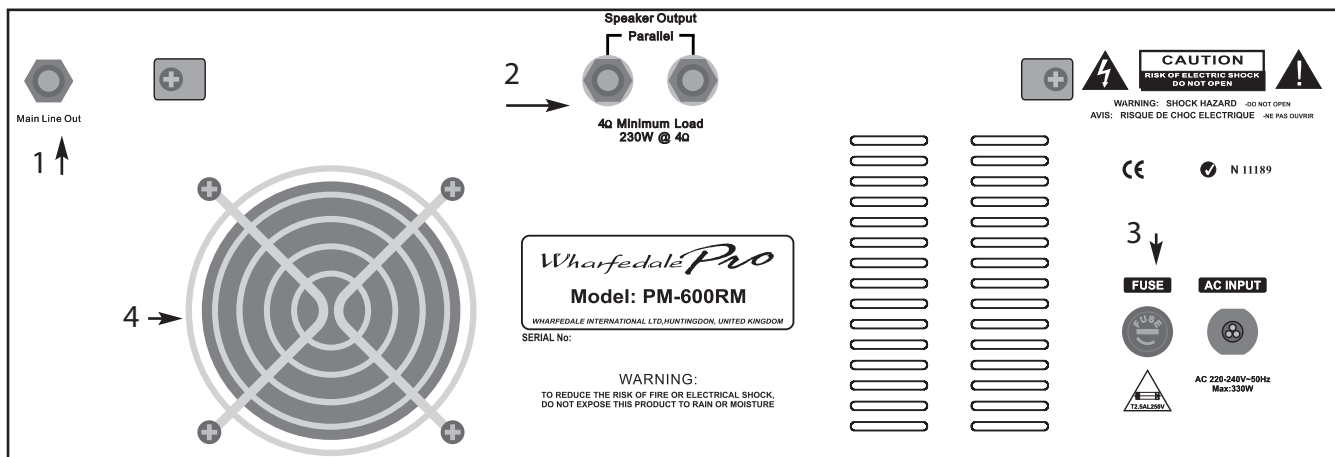
When using one speaker only, use a 4-8 Ohms speaker.

**3. FUSE:** Always ensure that the fuse is of the correct rating.

**4. ALUMINIUM HEATSINK:** This allows a cooling airflow through the unit. Make sure that the heatsink is free from dust and there is sufficient room left at the back of the unit to allow the heatsink to work efficiently.

# WHARFEDALE PROFESSIONAL PM SERIES POWERED MIXERS

## REAR PANEL DESCRIPTION PM600:



### PM600:

**1. MAIN LINE OUT:** This unbalanced insertion point allows the main output to be sent to an external signal processor or power amplifier. The insert is a 1/4" phono jack socket which is normally bypassed.

**2. SPEAKER OUTPUT JACKS:** These outputs allow two speakers to be connected at the same time to the powered mixer. The total minimum load required is 4 Ohms. If the total load is less than 4 Ohms it may result in the mixer being damaged. The following guidelines should be noted:

When using two speakers at the same time, use 8-16 Ohms speakers.

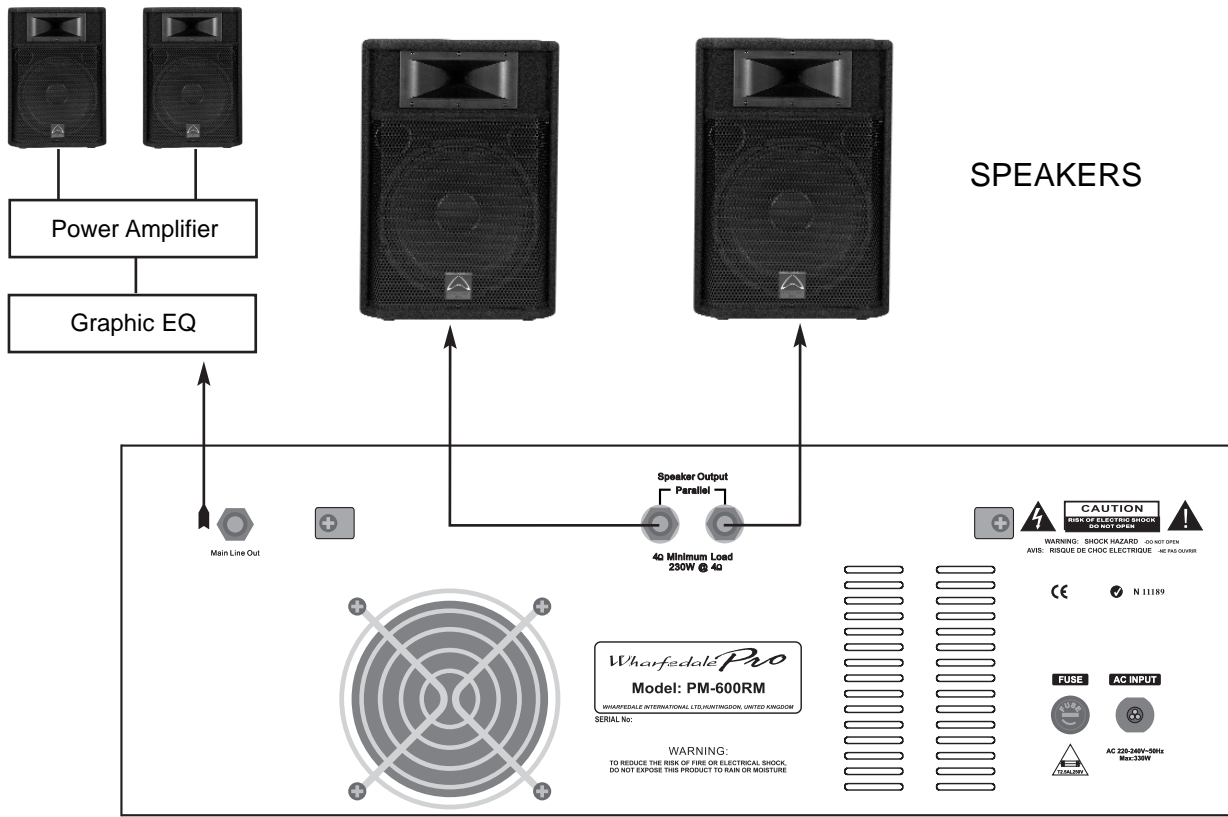
When using one speaker only, use a 4-8 Ohms speaker.

**3. FUSE:** Always ensure the fuse is of the correct rating.

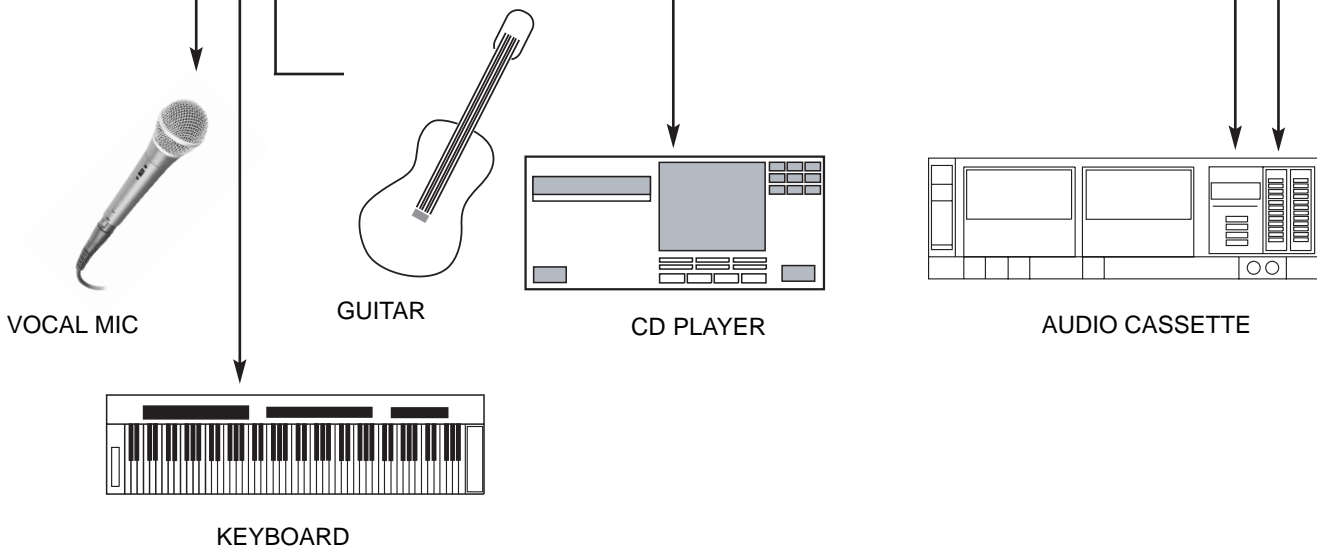
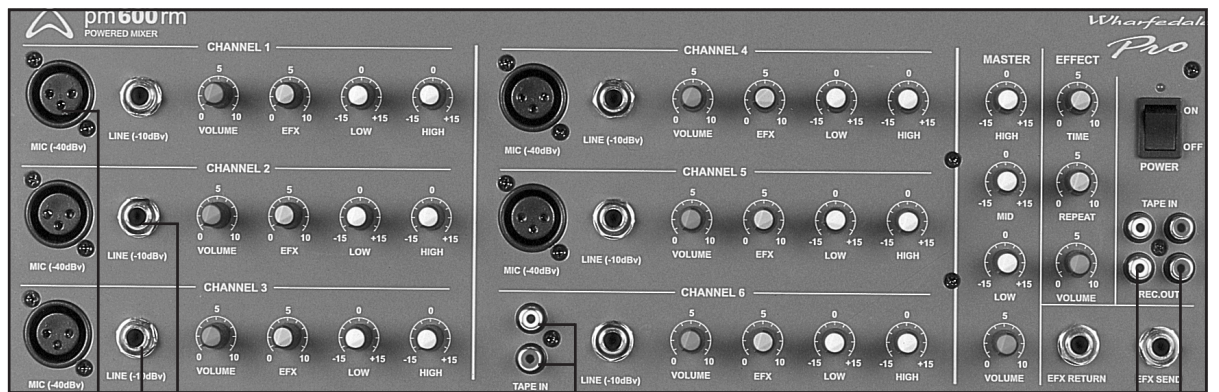
**4. COOLING FAN:** This creates a cooling airflow through the unit. Make sure that the fan is free from dust and there is sufficient room left at the back of the unit to allow the fan to work efficiently.

# WHARFEDALE PROFESSIONAL PM SERIES POWERED MIXERS

## APPLICATIONS: PM600



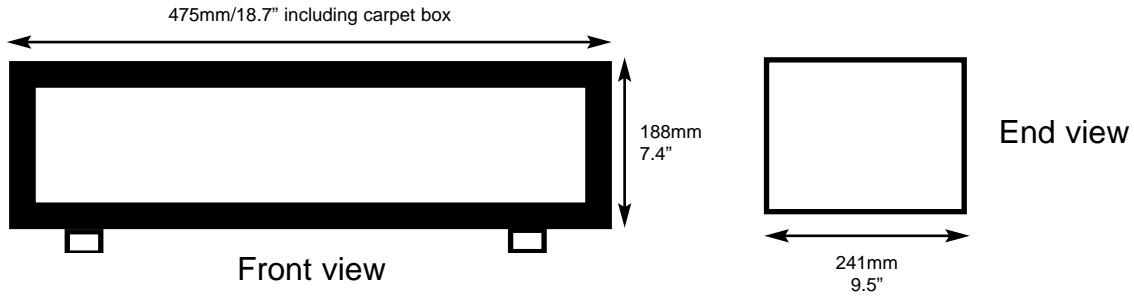
SPEAKERS



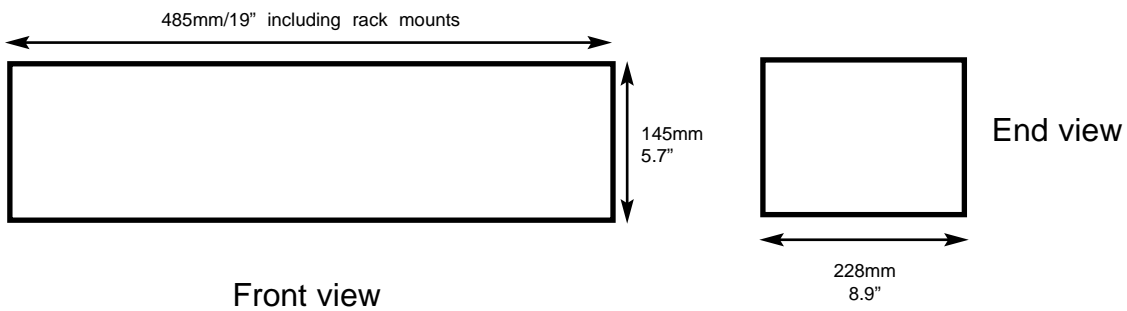
# WHARFEDALE PROFESSIONAL PM SERIES POWERED MIXERS

## DIMENSIONS:

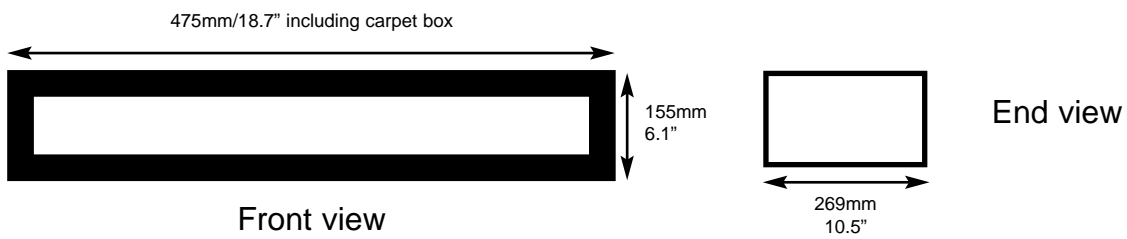
### PM600



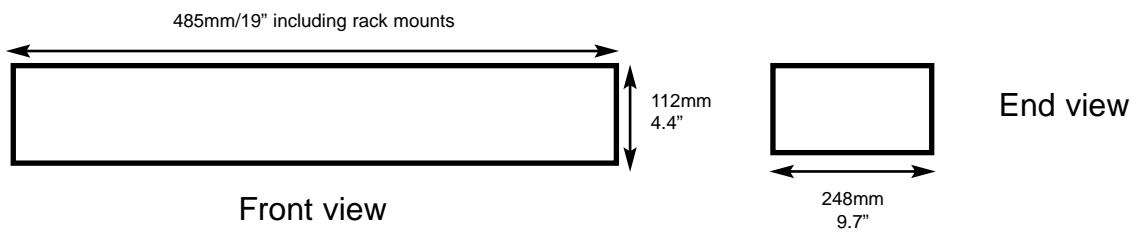
### PM600 RM



### PM500



### PM500 RM



MODEL	PM500	PM600
<b>POWER AMP - MAX OUTPUT IN WATTS</b>		
4 OHMS	120 WATTS	230 WATTS
<b><u>INPUTS</u></b>		
BALANCED MIC	4	5
LINE CHANNELS	5	6
<b><u>INPUT IMPEDANCE</u></b>		
LOW Z (BALANCED)	2KOHMS	2KOHMS
LINE	16KOHMS	16KOHMS
MAIN OUT	UNBAL. TRS	UNBAL. TRS
FREQUENCY RESPONSE (+/-3dB)	20 to 25KHz	20 to 25KHz
<b><u>MAXIMUM CHANNEL GAIN</u></b>		
LOW Z (BALANCED)	40dB	40dB
LINE	20dB	20dB
<b><u>MAXIMUM INPUT LEVEL</u></b>		
LOW Z (MIC)	0dB	0dB
LINE	+20dB	+20dB
<b><u>MAXIMUM OUTPUT LEVEL</u></b>		
MAIN	+18dBv	+18dBv
RECORD OUT	+5dBv	+5dBv
<b><u>MASTER EQ</u></b>		
HI EQ	NA	12Khz±12DB
MID EQ	NA	1Khz±12dB
LOW EQ	NA	80Hz±12dB
PROTECTION	THERMAL/LOAD	THERMAL/LOAD
<b><u>MASTER SECTION</u></b>		
BUILT IN DIGITAL EFFECT	YES	YES
THD	LESS THAN 0.1%	LESS THAN 0.1%
<b><u>CHANNEL EQUALISATION</u></b>		
LOW EQ	80Hz±15dB	100Hz±12dB
HI EQ	12kHz±15dB	8kHz±12dB
POWER CONSUMPTION	120 WATTS	230 WATTS
POWER REQUIREMENTS	160 WATTS	330 WATTS
SPEAKER CONNECTORS	1/4" JACK	1/4" JACK
<b>WEIGHT</b>		
PM500	9.32KG/20.5lbs	PM600 11.48KG/24.7lbs
PM500RM	7.6KG/16.7lbs	PM600RM 9.72KG/21.4lbs
<b>DIMENSIONS</b>		
PM500	475MM X 269MM X 155MM	18.7" x 10.5" x 6.1"
PM600	475MM X 241MM X 188MM	18.7" x 9.5" x 7.4"
PM500RM	485MM X 248MM X 112MM	19" X 9.7" X 4.4"
PM600RM	485MM X 228MM X 145MM	19" X 8.9" X 5.7"

WHARFEDALE PROFESSIONAL  
IAG HOUSE, SOVEREIGN COURT, ERMINE BUSINESS PARK  
HUNTINGDON, PE29 6XU, UNITED KINGDOM  
[www.wharfedalepro.com](http://www.wharfedalepro.com)