

PULSE

Four Channel 2x 100W Mono Mixer Amplifier

Model: PMH200



www.mcmelectronics.com

Safety Information



The lightning bolt within a triangle is intended to alert the user to the presence of an insulated dangerous voltage levels within the product's enclosure.

This voltage may be of sufficient magnitude to constitute an electric shock risk.

To reduce the risk of electric shock, do not remove cover of this device. There are no user serviceable parts inside. Refer servicing only to qualified service personnel.

The exclamation point within a triangle is intended to alert the user to important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Safety Precautions

- Read and retain these instructions
- Follow all instructions and heed warnings
- Do not use this device near water
- If the surface becomes dirty, clean only with dry cloth, do not use solvents or thinners
- Install in accordance with the manufacturer's instructions
- Do not block ventilation openings
- Do not install near heat sources such as radiators, heat registers, stoves, or other devices that produce heat
- Do not defeat the safety purpose of the grounded plug. The BS1363A 13A mains plug has two blades and a third ground prong. The wide blade or 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
- Protect the power cord from being stressed at the plugs, main socket outlet, and where they exit the amplifier
- Only use accessories specified by the manufacturer
- Unplug the device during lightning storms or when unused for an extended time
- Refer all servicing to qualified personnel
- This device must not be exposed to water in any way. No object filled with liquids should be placed on apparatus

Pulse Four Channel 2x 100W Mixer Amplifier

Designed for use in small to medium venues the PMH200 mixer amplifier is ideal for sound reinforcement of vocals or music. When coupled with a pair of speakers this will suffice for rehearsal rooms, small to medium band gigs, small school halls or presentations.

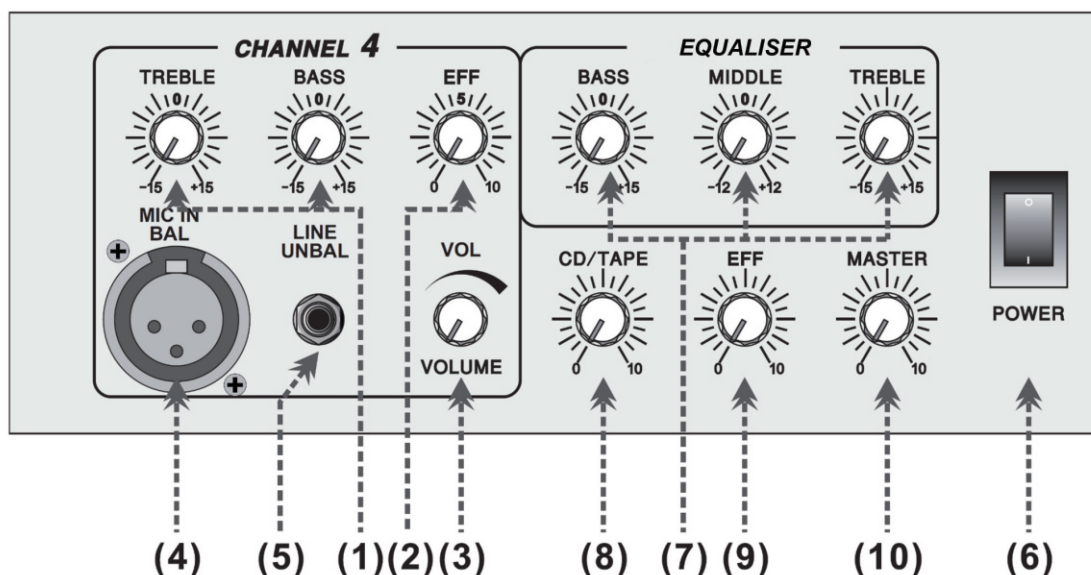
This unit includes a host of features, along with an impressive list of specifications, which are detailed over the next pages. Please take the time to read this document completely prior to installation of this product. Should you have questions regarding installation or operation of this unit, please contact your Pulse Retailer or Pulse Technical Support.

Features

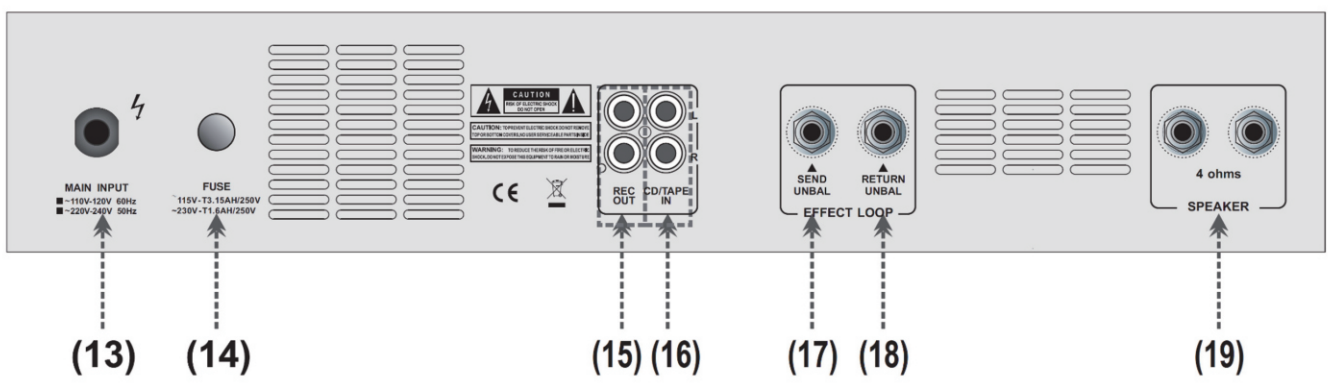
- Four channel mixer amplifier
- Rugged, carpet covered housing complete with steel corner guards and rubber covered carry handle
- Balanced XLR microphone inputs
- ¼" 6.35mm line level inputs
- CD/TAPE input located on rear panel
- Master Volume & Effects controls
- Combi output sockets – accept either 6.35mm (¼") jack plugs or standard locking speaker plugs
- Effects loop – enables use of external processing
- Record output – ideal for use with external audio recorders
- 3 Band EQ on main output
- 2 Band EQ on each input channel
- Convection cooled – no fan noise
- 2x 75Wrms (2x 100W peak) power output

Connections & Controls:

NOTE: Before connecting or disconnecting any cables, microphones or instruments it is good practice to turn down all level controls and where possible switch off the mixer amplifier. This will prevent any pops, clicks or bangs that could damage either the speakers and/or damage the mixer amplifier. Main's cords and speaker cables should be connected/disconnected with the power switched off.



1. **Equaliser (EQ) Controls** - (TREBLE / BASS) – This is a 2-band equaliser for adjusting different frequency bands. The BASS control is centered at 80Hz and the TREBLE centered at 12.5kHz
2. **Effects (EFF) Control** – Provides control over the level of signal sent from the channel into the Effects processor.
3. **Level Control** - Sets output level for the channel, turning this clockwise will increase the level of the selected channel within the main mix. This should be adjusted slowly as introducing too much gain to the system can cause feedback and damage speakers/amplifiers and also produce high frequencies at high sound levels and may damage your hearing.
4. **Balanced XLR Microphone Input** – Accepts low level, low impedance microphone signals via a Balanced XLR socket. Pin configuration is Pin1 = GND, Pin2 = +ve (Hot), Pin3 = -ve Cold)
5. **Unbalanced 6.35mm (1/4") Line Input** – Accepts line level, high impedance signals via an unbalanced 6.35mm (1/4") jack socket. Pin configuration is Tip = +ve (Hot), Sleeve = -ve (Cold/GND)
6. **Power ON/OFF Switch** – Turns amplifier power on or off. When on, the Red Neon will illuminate.
7. **Master Equaliser (EQ) Controls** - (TREBLE / BASS) – A 3-band equaliser for adjusting different frequency bands within the main mix output. The BASS control is centered at 80Hz, MIDDLE centered at 2.5kHz and the TREBLE centered at 12.5kHz.
8. **CD/TAPE Line Input** – Linked directly to the CD/TAPE Line input on the rear panel this controls the level for the CD/TAPE Line input within the main/master mix.
9. **EFF Return Control (EFF RETURN)** – This adjusts the level of signal returned from the built-in Effects processor to the main mix output.
10. **MASTER** – The MASTER is for overall control of the level or volume of the amplifier. This should be adjusted slowly as introducing too much gain to the system can cause feedback and damage speakers/amplifiers and also produce high frequencies at high sound levels and may damage your hearing.



13. **POWER Input** – The unit requires standard 110 ~ 120VAC/60Hz power source.
14. **FUSE** – Should the mains fuse fail this can indicate a problem with the mixer amplifier or the speakers connected. The mains fuse should only be replaced after the product has been checked for damage the fuse should be replaced with the exact same type. This unit uses a T1.6A 250V 20x5mm glass fuse.
15. **REC OUT** – A standard line level output for connection to audio recorders or for use as an external line output to external amplification. Output is via two phono sockets.
16. **TAPE IN** – A standard line level input for connection to audio recorders or for use as an external line output to external amplification.
17. **SEND JACK** – If an external effects processor is to be used with the mixer amplifier this output will provide a line level feed via an unbalanced 6.35mm (1/4”) mono jack. The signal can then be routed via an effects processor, graphic equalizer or similar before being returned to the RETURN located adjacent to the SEND. Inserting a Jack plug into the SEND socket will cut the feed to the main mix, this socket must be used with an external processor and the signal returned post-processing to the RETURN jack.
18. **RETURN JACK** – Accepts a line level feed via an unbalanced 6.35mm (1/4”) mono jack, this is used in conjunction with the SEND output where external processing is required.
19. **SPEAKER OUTPUTS** – These provide the main speaker outputs via standard 6.35mm (1/4”) mono jack plugs. All speaker cables should be manufactured from two core, double insulated cable suitable for carrying high currents. This amplifier is designed to work with 4Ω - 8Ω impedance loads – the minimum impedance per speaker output is 4Ω. If in any doubt please contact your dealer or the Pulse Technical as the wrong combination of speakers can damage either the amplifier, the speakers or worst case both!
- NOTE:** Guitar signal leads are not suitable and may fail causing damage to the speakers and or amplifier.
- Speaker outputs can present high voltages capable of delivering an electric shock – care should be taken with connections to ensure no bare wires are visible. All connections/disconnections should be made when the amplifier is turned off.
- Speaker cables made for use with this product should be wired as per the following chart. If in any doubt please contact your local dealer who will be able to manufacture cables to suit or sell suitable cables for the system.

	POSITIVE	NEGATIVE
SPEAKER Socket	1+	1-
6.35mm Jack Socket	TIP	SLEEVE

Warranty



Pulse products are warranted, by Pulse, against manufacturer defects for a period of one year from the original date of purchase. This warranty is limited to manufacturer defects, in either materials or workmanship. PULSE, or any other worldwide divisions of Premier Farnell PLC, is not responsible for any consequential or inconsequential damage to any other component, structure or the cost of installation or removal of said items. Defective items should be returned to the retailer from whom they were originally purchased.

For questions or specific information regarding warranty replacement or repair, contact:

MCM Electronics
www.mcmelectronics.com