



PDV-I20ZMP3 Public Address Zone Amplifier



952.069 PDV120ZMP3
120W/100V
4 Zone Amplifier

NF00216




SAFETY INSTRUCTIONS



The symbol is used to indicate that some hazardous live terminals are involved with in this apparatus, even under the normal operating conditions.



The symbol is used in the service documentation to indicate that specific component shall be only replaced by the component specified in that documentation for safety reasons.

-  Protective Ground Terminal
-  AC mains (Alternating Current)
-  Hazardous Live Terminal

ON: Denotes the apparatus turns on.

OFF: Denotes the apparatus turns off, because of using the single pole switch, be sure to unplug the AC power to prevent any electric shock before you proceed you service.

WARNING:

Describes precautions that should be observed to prevent the danger of injury or death to the user.



Disposing of this product should not be placed in municipal waste and should be separate collection.

CAUTION:

Describes precautions that should be observed to prevent damage to the apparatus.

WARNING

● Power supply

Ensure the source voltage matches the voltage of the power supply before turning ON the apparatus. Unplug this apparatus during lightning storms or when unused for long periods of time.

● External Connection

The external wiring connected to the output hazardous live terminals requires installation by an instructed person, or the use of ready-made leads or cords.

● Do not Remove any Cover

There are maybe some are as with high voltages inside, to reduce the risk of electric shock, do not remove any cover if the power supply is connected. The cover should be removed by the qualified personnel only. No user serviceable parts inside.

● Fuse

To prevent a fire, make sure to use fuses with specified standard (current ,voltage, type). Do not use a different fuse or short circuit the fuse holder Before replacing the fuse, turn OFF the apparatus and disconnected the power source.

● Protective Grounding

Make sure to connect the protective grounding to prevent any electric shock before turning ON the apparatus. Never cut off the internal or external protective grounding wire or disconnect the wiring of protective grounding terminal.

● Operating Conditions

This apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on this apparatus. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Do not use this apparatus near water. Install in accordance with the manufacturer's instructions, Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not block any ventilation openings. No naked flame sources, such as lighted candles, should be placed on the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions
- Follow all instructions
- Keep these instructions
- Heed all warnings
- Only use attachments / accessories specified by the manufacturer
- Power cord and plug
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. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

● Cleaning

When the apparatus needs a cleaning, you can blow off dust from the apparatus with a blower or channel with rag etc.

Don't use solvents such as benzol, alcohol, or other fluids with very strong volatility and flammability for cleaning the apparatus body, Clean only with dry cloth.

● Servicing

Refer all servicing to qualified personnel, 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.

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.

GENERAL DESCRIPTION AND FEATURES

DESCRIPTION

They are designed for PA system applications such as paging, announcements, intercommunications, background music and broad-casting in industrial plants, offices, schools, churches, department stores, shopping centres, night clubs, dining rooms, convention halls, auditoriums and recreation areas.

More kinds of protective for this series: such as overload, short-circuits of output, overheat; and you can use it safety and freely. It's very simple to install, it also can offer therack brackets according to your requirements.

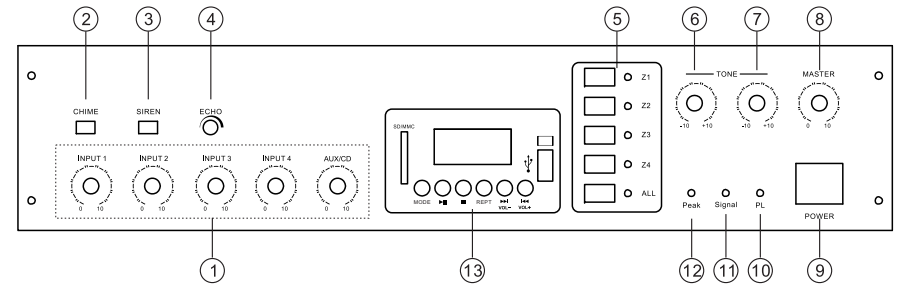
The series amplifiers come with 4 inputs, with LINE / PHANTOM / MIC PHONE selectable switch, 1 auxiliary inputs and 1 REC. OUTPUT and 1PRE OUT and MAIN IN. Microphone inputs may be used with balanced or unbalanced microphone. Auxiliary inputs are provided for high level signal sources such as radio tuner, tape recorder, mixer pre amplifier, remote microphone and record player with ceramic or crystal type cartridge. Speaker outputs are complete with 4ohm, 8 ohm, 70V and 100V on the terminal strip. An auxiliary output is equipped for a booster amplifier and a AUX output is equipped for a tape Recorder.

Each input volume can be controlled with the corresponding individual input volume control and can further be adjusted by means of a master volume control and individual bass and treble tone controls, Emergency operation can be made by DC 24V power source, even in case of AC power failure.

FEATURES

- Four combo inputs with line / phantom / mic /selectable
- One AUX inputs.
- One record output.
- A group of pre-output and amplifier input jack.
- Four Zone paging select switches, and one all Zone select switch.
- INPUT1 mute other inputs.
- Chime and siren functions, chime mute AUX input, TEL paging and siren mute all the inputs.
- Input "TEL. Paging".
- 1W /8Ω monitor output.
- Each channel has the input level control.
- Built-in USB/SD/MMC/ player in models.
- Master volume control.
- BASS and TREBLE tone control.
- Multi-purpose protection---power-on-delay, over heat, over voltage, over load.
- Output---4Ω, 8Ω, 70V, 100V.
- Low distortion.
- High signal-noise ratio (S/N).
- Widely frequency response.
- Perfect sound with PA speaker.
- Echo function

FRONT PANEL



1. INPUT VOLUME CONTROL

When it is 0 dB, the volume is lowest; it is 10dB, the volume is highest.

2. CHIME SWITCH

This switch turns on or off chime of the unit.

3. SIREN SWITCH

If emergency happens, the button can be pushed for siren.

4. ECHO CONTROL

To adjust the output level of echo volume.

5. PAGING BROADCAST SWITCH

This switch is used to select zone paging broadcast.

6. BASS CONTROL

This knob is used to attenuate or boost a low frequency of 100hz by ±10dB.

7. TREBLE CONTROL

This knob is used to attenuate or boost a high frequency of 10khz by ±10dB.

8. MASTER CONTROL

This knob is used to control main power.

9. POWER SWITCH

This switch is used to turn the main power ON and OFF.

10. INDICATOR

This LED will illuminate when power is turned on.

11. SIGNAL LED

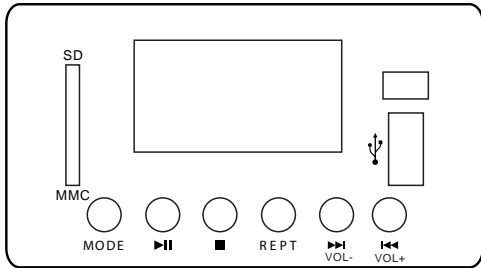
This LED will assist you in setting gain structure into the amp. With a source connected to the amp and playing, turn up the channel gain control until this LED just starts to flash. Once all the sources connected are playing, the SIGNAL LED may be on solid. This condition is normal.

12. PEAK LED

The peak led will illuminate when it is in a clipping condition, caused by excessively high input levels or a GAIN control is turned up too high, An occasional flash is OK.

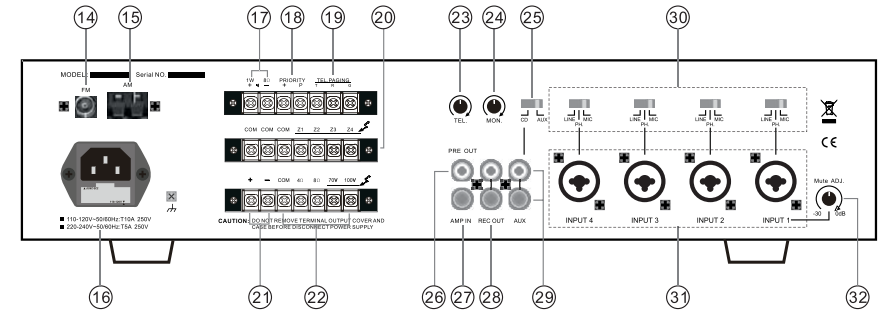
13. AM / FM + MP3 PLAYER

It is used containing USB, SD / MMC cards and AM FM radio(description as page 5)



DEFINE	BUTTON	USB	SD	FM
1、MODE	Short press	SWITCH MUSIC SOURCE, SEQUENCE: USB - SD - FM		
2、PLAY/PAUSE	Short press	PLAY, PAUSE		AUTOMATICAL SEARCH WHOLE FREQUENCY
3、STOP / ENTER	Short press	ENTER FILE		NO FUNCTION
5、REPEAT	Short press	LOOP PLAY MODE		NO FUNCTION
5、PREVIOUS	Short press	PREVIOUS SONG		PREVIOUS RADIO STATION
	Long press	Fast forward		NO FUNCTION
6、NEXT	Short press	NEXT SONG		NEXT RADIO STATION
	Long press	fast reverse		NO FUNCTION

REAR PANEL



14. FM ANTENNA

This antenna recives FM signals.

15. AM ANTENNA

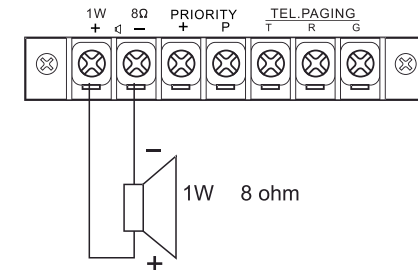
This antenna recives AM signals.

16. AC CONNECTOR AND AC FUSE

This connector is meant for the connection of the supplied mains cord, The fuse protects the alternating currents supply circuit of the equipment. The fuse can only be changed in the event of a fault.

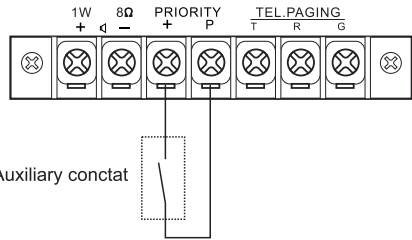
17. OUTPUT TERMINAL FOR AUXILIARY LOUDSPEAKER

The terminal is meant for the connection of a small external loudspeaker that gets driven by an internal auxiliary power amplifier, providing a nominal output 1watt, In addition the output signal is controlled by AUX/CD input level and MOH level (24)



18. "PRIORITY" TERMINAL

When short-circuiting these terminals (i. e. by means of using an electrical switch). The audio signals coming from "AUX IN" are muted,at the same time,pushed down the chime switch (2) turns on chime of the unit.

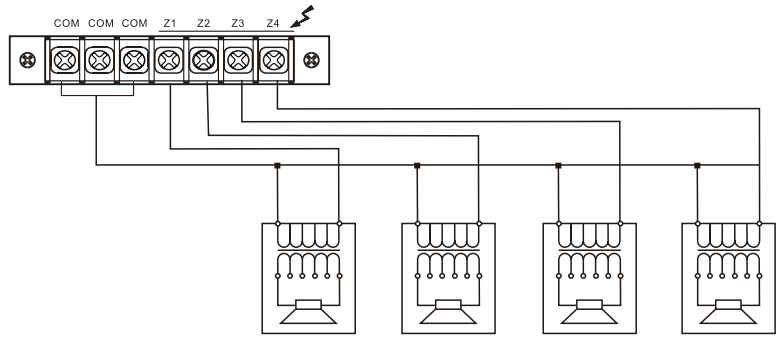


19. INPUT "TEL. PAGING"

The terminals input lets you connect to a telephone signal, The input features the "voice priority" function, which overrides all other input signals once, a telephone message is sent.

20. ZONE OUTPUT TERMINAL

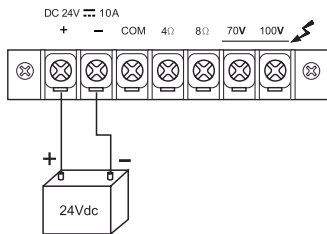
This output terminal connects to the speaker lines, Total speaker wattage is up to nominal power for zones 1-4, When using a zone selector low-impedance speakers can not be used, default is constant voltage 100V output.



Connecting the speaker to 100V output

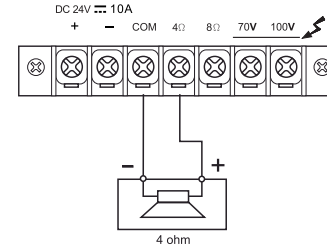
21. DC BATTERY SUPPLY

These two terminals allow the connection of an external 24V DC power supply (e.g 24v DC battery).In this way continuous operation of the amplifier is maintained even during a power outage. Since it is automatically switched to the DC power source.

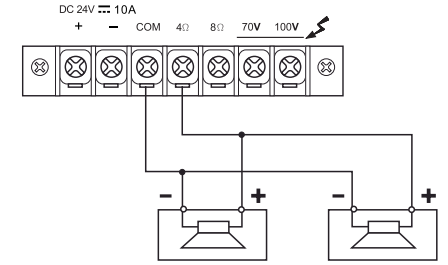


22. OUTPUT TERMINALS

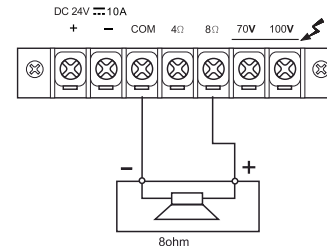
These 7 terminals allow connecting speakers.



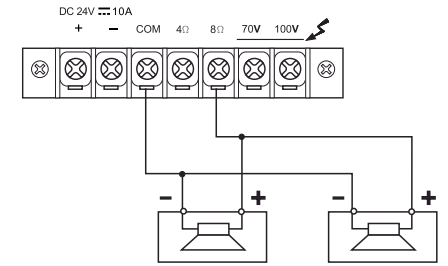
Connecting the speakers to 4 ohm output



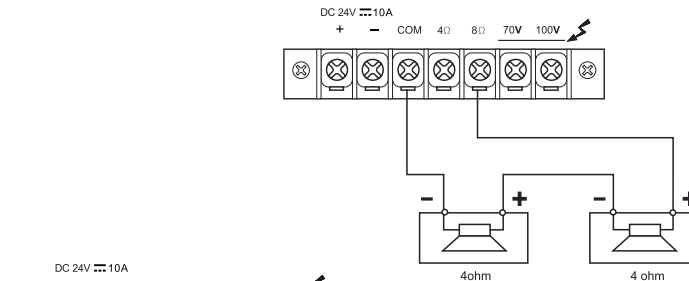
Total impedance 4 ohm



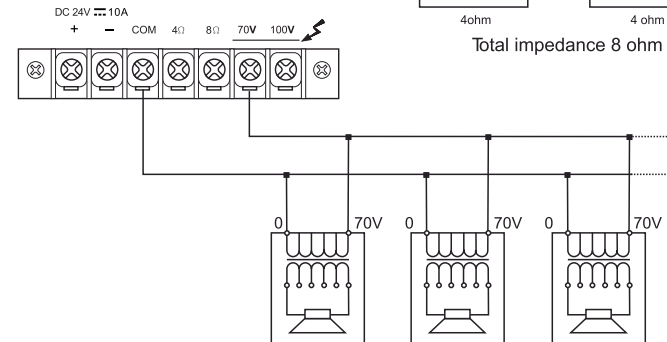
Connecting the speakers to 8 ohm output



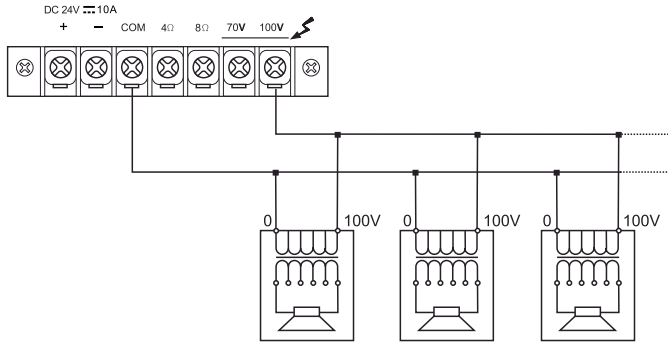
Total impedance 8 ohm



Total impedance 8 ohm



Connecting the speakers to 70V output



Connecting the speakers to 100V output

23. TEL. PAGING INPUT LEVEL CONTROL

This control lets you set the volume of the sound source that is connected to the "Tel. Paging" (19). Turning control clockwise increases the volume of the corresponding source. We recommend to leave the control of monetarily not used input at their minimal setting "0".

24. MUSIC SIGNAL MONITOR OUTPUT LEVEL CONTROL

The control lets you individually set the volume of the sound source output that is connected to the "MONITOR OUTPUT 1W/8" (17) Turning controls clockwise increases the volume of the corresponding source.

25. CD / AUX SWITCHES

When it is AUX the low signal is present , It is CD the high signal is present.

26. "PRE OUT" TERMINAL

This terminal output the mixed audio signals of all sources that are connected to the amplifier's inputs and can be utilized to feed an external power amplifier, a signal processor (e.g. an equalizer), or any other external appliance. The unbalanced signal is affected by the individual input controls. Before using the PRE OUT you have to remove the bridging strip between this binding post and the "AMP IN" terminal (27).

27. "AMP IN" TERMINAL

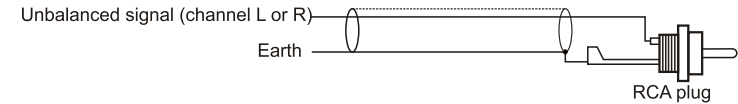
After removing the bridging-strip between the "PRE OUT" and the "AMP IN" terminals you can include an external signal processor (e.g. an equalizer) in the audio-chain between the pre-amplifier and the power output stage of the power amplifier. This opportunity provides a proper solution whenever shaping or improving the audio signal is necessary (adjusting delay times, equalizing, eliminating the Larsen effect, etc.).

28. REC OUT

It is connected to tape recorder.

29. AUX INPUTS

The "R" and "L" sockets permit input of the right ("R")and left ("L") channels of an audio source with a high-level output signal , such as an AM/FM tuner, a cassette deck, a CD player, etc. Use input sensitivity switch (25),suitable for difference appliances. They are able to take RCA-type coaxial connectors, and unbalanced signals.

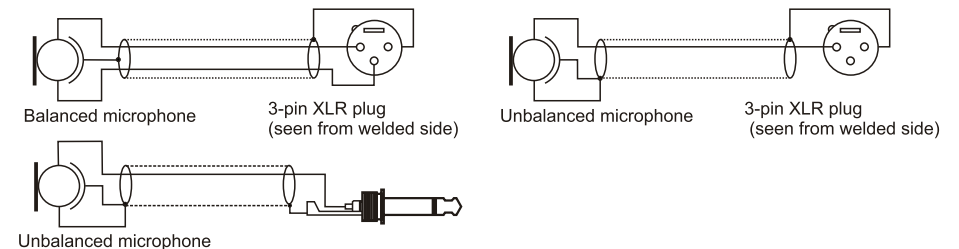


30. "INPUT 1" "INPUT 2" "INPUT 3" AND "INPUT 4" INPUTS SENSITIVITY AND XLR PHANTOM 24V SWITCH INPUT VOLUME CONTROL

By turning these switch onto the "LINE" position the "IN1", "IN2", "IN3", "IN4" input can be connected to an audio source with high level signal output. By turning these switches onto the "MIC" position the "IN1","IN2","IN3", "IN4" input can be connected to a dynamic microphone with low impedance. By turning these switch onto the "24V" opstion connects "the 24V" phantom supply on XLR of pin2 and pin3 of inputs "IN1","IN2","IN3","IN4", necessary to operate condenser type microphone which require this type of external supply. It is recommended to use this switch with the general volume set on minimum.

31. "INPUT 1" "INPUT 2" "INPUT 3" AND "INPUT 4" INPUTS

These three balanced/unbalanced combination type jack (XLR and 6.3mm) inputs, meant for the connection of condenser type microphone that accepts 24V phantom power, dynamic microphone (30- 600 ohms) or a high level sound source (e.g. AM/FM tuner, cassette desk, CD player, etc.). In case you are using, it is necessary to use the switch (30). "Input 1" has a "Voice Priority" function that excludes all the other inputs as soon as a message is transmitted with a microphone.



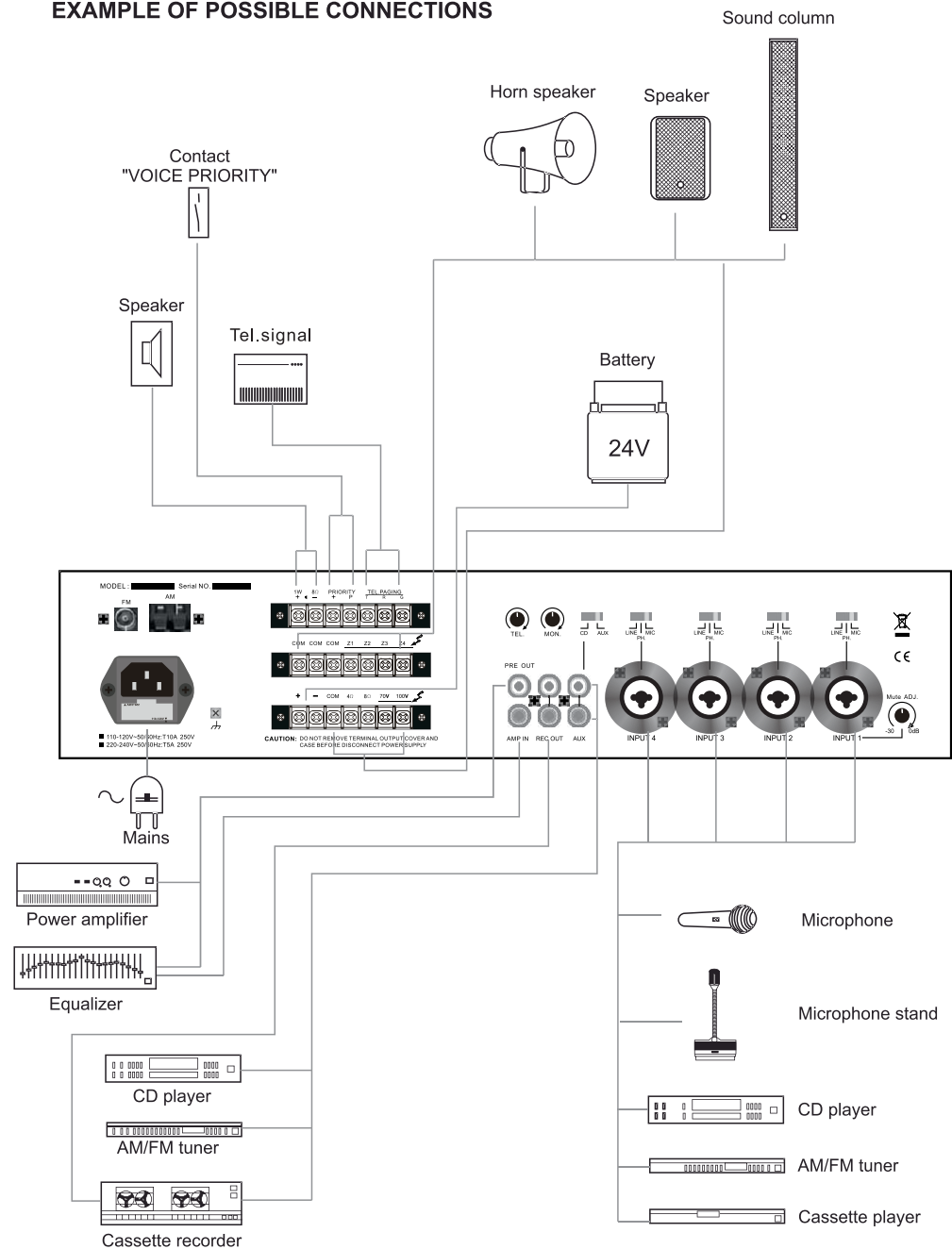
32. PRIORITY CONTROL

This knob can control the signals that be muted output level.

TECHNICAL SPECIFICATION

OUTPUT POWER CAPACITY	RMS: 120W or 240W
POWER SUPPLY	AC: 110-120V 50/60Hz AC: 220-240V 50/60Hz
FREQUENCY RESPONSE	50Hz~18KHz (±3dB)
INPUT SENSITIVITY	MIC : -50dB LINE : -16dB AUX : -16dB CD : -5dB
TONE CONTROLS	BASS: ±10dB (100Hz) TREBLE: ±10dB (10KHz)
TOTAL HARMONIC DISTORTION	<0.5%
SIGNAL / NOISE RATIO	MIC ~65dB AUX / LINE ~75dB
CONTROLS	MIC LEVEL CONTROL AUX LEVEL CONTROL MOH LEVEL CONTROL TEL. PAGING LEVEL CONTROL TONE CONTROL (BASS, TREBLE) MASTER CONTROL SIREN SWITCH CHIME SWITCH AC SWITCH
OUTPUT IMPEACANCE	4Ω, 8Ω
LINE OUTPUT	70V, 100V
SIREN FUNCTION	YES
VU-METER(LED)	YES
TELEPHONE PAGING LEVEL FUNCTION	YES
INPUT 1 PRIORITY	YES
CHIME FUNCTION	YES
AM / FM RADIO	YES
MP3 PLAYER	YES
DIMENSION	420X280X88.8mm / 420X320X88.8mm

EXAMPLE OF POSSIBLE CONNECTIONS





CE Declaration of Conformity

Importer: TRONIOS BV
Bedrijvenpark Twente 415
7602 KM – ALMELO
The Netherlands

Tel: 0031546589299
Fax: 0031546589298

Product number: **952.069**

Product Description: **PDV120ZMP3 120W/100V
4 Zone Amplifier**

Regulatory Requirement: EN 60065
EN 55013
EN 55020
EN 61000-3-2
EN 61000-3-3

The product meets the requirements stated in the above mentioned Standards.

13-12-2012

Signature :

www.tronios.com