



PURERESONANCEAUDIO®

PMZ16 PAGING MICROPHONE

INSTALLATION AND OPERATION MANUAL



Caution: Please read this manual carefully before operating.
Damage caused by misuse is not covered by the warranty.

SAFETY PRECAUTIONS

- Be sure to read the instructions in this section carefully before use.
- Make sure to observe the instructions in this manual as the conventions of safety symbols and messages regarded as very important precautions are included.
- We also recommend you keep this instruction manual handy for future reference.

SAFETY SYMBOL AND MESSAGE CONVENTIONS

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety



Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.



Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.



WHEN INSTALLING THE UNIT

- Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.
- Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.
- Do not cut, kink, otherwise damage nor modify the power supply cord. In addition, avoid using the power cord in close proximity to heaters, and never place heavy objects -- including the unit itself -- on the power cord, as doing so may result in fire or electric shock.
- Be sure to replace the unit's terminal cover after connection completion. Because high voltage is applied to the speaker terminals, never touch these terminals to avoid electric shock.
- Be sure to ground to the safety ground (earth) terminal to avoid electric shock. Never ground to a gas pipe as a catastrophic disaster may result.
- Avoid installing or mounting the unit in unstable locations, such as on a rickety table or a slanted surface. Doing so may result in the unit falling down, causing personal injury and/or property damage.

WHEN THE UNIT IS IN USE

- Should the following irregularity be found during use, immediately switch off the power, disconnect the power supply plug from the AC outlet and contact your nearest dealer. Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.
 - If you detect smoke or a strange smell coming from the unit.
 - If water or any metallic object gets into the unit
 - If the unit falls, or the unit case breaks
 - If the power supply cord is damaged (exposure of the core, disconnection, etc.)
 - If it is malfunctioning (no tone sounds.)
- To prevent a fire or electric shock, never open nor remove the unit case as there are high voltage components inside the unit. Refer all servicing to your nearest dealer.

- Do not place cups, bowls, or other containers of liquid or metallic objects on top of the unit. If they accidentally spill into the unit, this may cause a fire or electric shock.
- Do not insert nor drop metallic objects or flammable materials in the ventilation slots of the unit's cover, as this may result in fire or electric shock.



WHEN INSTALLING THE UNIT

- Never plug in nor remove the power supply plug with wet hands, as doing so may cause electric shock.
- When unplugging the power supply cord, be sure to grasp the power supply plug; never pull on the cord itself. Operating the unit with a damaged power supply cord may cause a fire or electric shock.
- When moving the unit, be sure to remove its power supply cord from the wall outlet. Moving the unit with the power cord connected to the outlet may cause damage to the power cord, resulting in fire or electric shock. When removing the power cord, be sure to hold its plug to pull.
- Do not block the ventilation slots in the unit's cover. Doing so may cause heat to build up inside the unit and result in fire.
- Avoid installing the unit in humid or dusty locations, in locations exposed to the direct sunlight, near the heaters, or in locations generating sooty smoke or steam as doing otherwise may result in fire or electric shock.

WHEN THE UNIT IS IN USE

- Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.
- Make sure that the volume control is set to minimum position before power is switched on. Loud noise produced at high volume when power is switched on can impair hearing.
- Do not operate the unit for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.
- Contact your dealer as to the cleaning. If dust is allowed to accumulate in the unit over a long period of time, a fire or damage to the unit may result.
- If dust accumulates on the power supply plug or in the wall AC outlet, a fire may result. Clean it periodically. In addition, insert the plug in the wall outlet securely.
- Switch off the power, and unplug the power supply plug from the AC outlet for safety purposes when cleaning or leaving the unit unused for 10 days or more. Doing otherwise may cause a fire or electric shock.

An all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated in the electrical installation of the building.

DESCRIPTION

The PMZ16 remote paging microphone station with 16" gooseneck condenser microphone can page a single zone, group of zones, and/or all zones. Designed to use with the Pure Resonance Audio RZMA120BT multi-zone mixer amplifier, the maximum shielded CAT5 length between the microphone paging station and the mixer amplifier is not to exceed 500'. The PMZ16 can be daisy-chained (4 stations max) via shielded Cat5 for zone paging and chimes (1-4 zones).

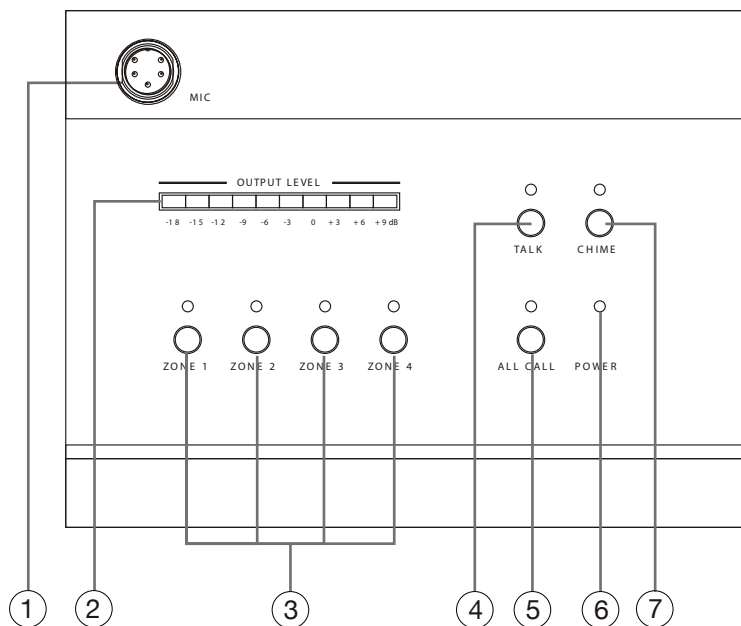
FEATURES

1. Can Page to a single zone, multiple zones, or all zones
2. Can be linked with additional PMZ16 microphones
3. Built-in independent switching power supply
4. Built-in chime, 2 & 4 tone selector
5. MIC/Chime/master volume control
6. 10 Segment level meter for signal monitoring
7. 24V DC power input

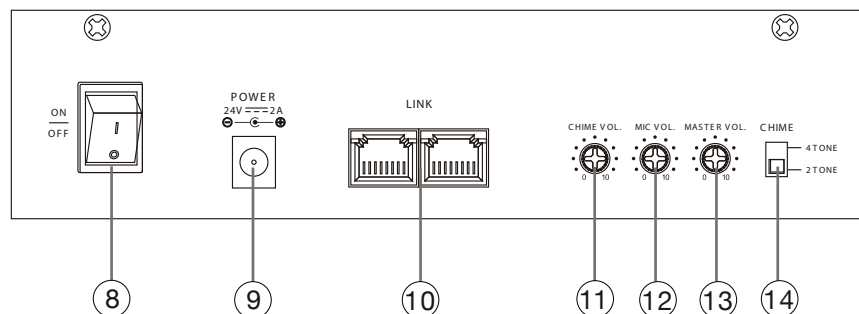
SPECIFICATIONS

Microphone	Condenser
Communication Mode	Level control
Capacity	4 ZONE
Output Level	1V/600 Ω
Frequency Response	80-18KHz (-+3dB)
THD	<1%
Power Consumption	10W
Communication Distance	500'
Power Supply	24 Volts DC
Dimensions	7.76" (197mm) x 4.53" (115mm) x 1.71" (43.5mm)
Weight	2.12 lbs (0.96 kg) (Without Microphone)

FRONT PANEL



REAR PANEL



- | | |
|------------------------------------|--------------------------------------|
| 1. Microphone | 8. Power switching |
| 2. 10 Segments level meter display | 9. DC 24V input interface |
| 3. Zone selection button | 10. LINK online interface |
| 4. Paging button | 11. Chime volume control adjustment |
| 5. All zone selection button | 12. MIC volume control adjustment |
| 6. Power indicator | 13. Master volume control adjustment |
| 7. Chime button | 14. Chime times selection switch |

OPERATION

4.1 MIC Input

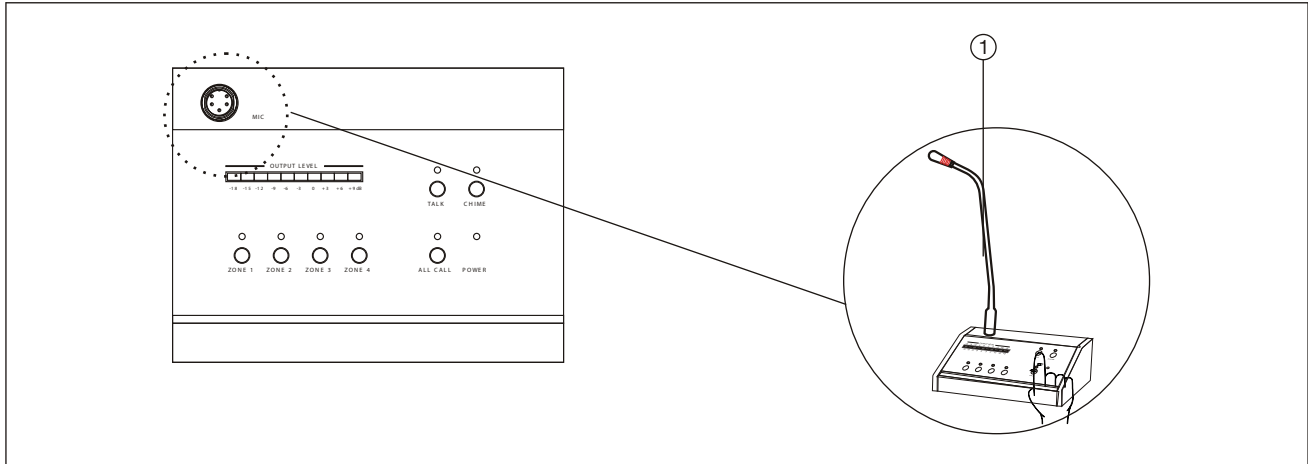


Fig 4.1

When MIC is connected, turn on the power, then press the call confirmation button, you can page to each zone independently or to all the zones. The volume can be adjusted by the volume control on the rear panel. When the call confirmation button is turned off, the call confirmation indicator will be off and there is no call signal output from the MIC.

NOTE:

1. When the MIC is connected, make sure to connect the power supply and switch on the MIC in order to page.
2. Make sure the connection of the MIC to the base station is tightened and secure to avoid damage.

4.2 24V DC power input

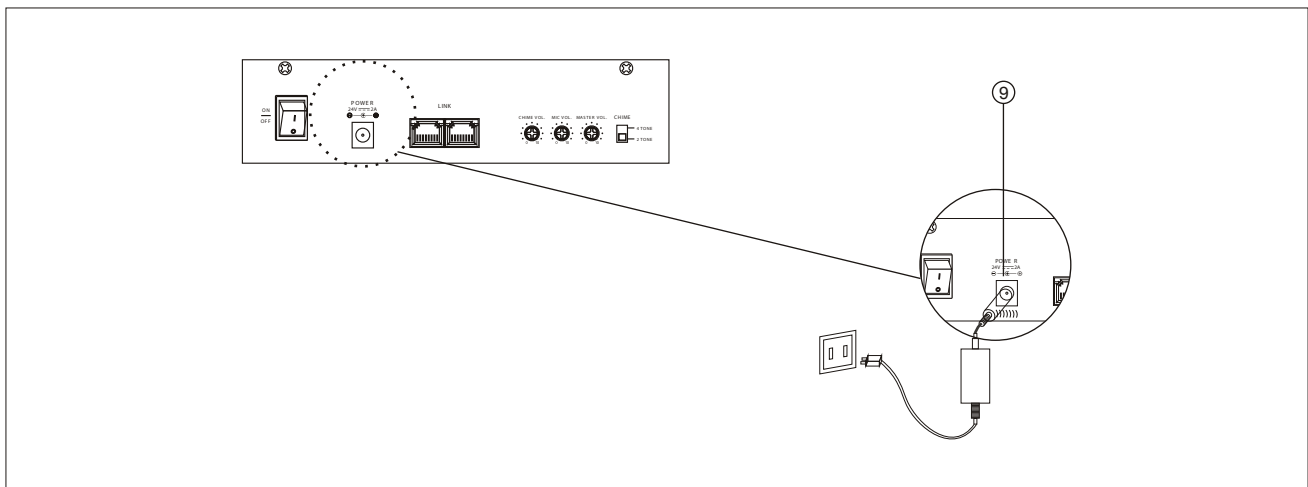


Fig 4.2

Connect the supplied power supply.

NOTE:

1. Please make sure the power inputs are in the safety specified range to avoid any accidents.
2. The power supply is providing a power source to the unit. Make sure the power supply is safely used and pull out the power cord when not in use.

OPERATION

4.3 Power switching

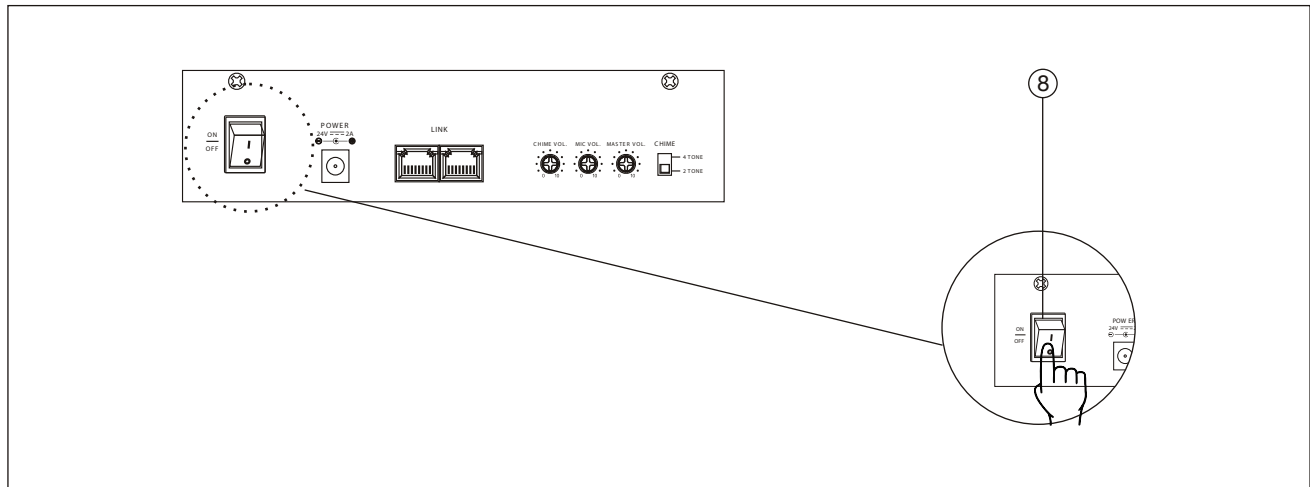


Fig 4.3

When the power switch is turned ON, the power light will illuminate.

4.4 2 & 4 Tone selector

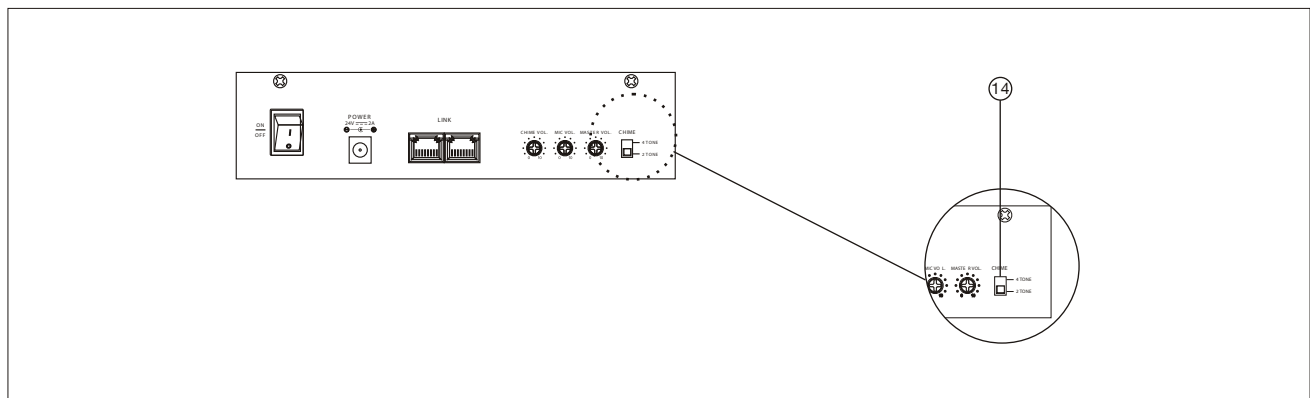


Fig 4.4

When the chime tone is turned to 2T, it means two audio signals are selected; when turned to 4T, it means four audio signals are selected.

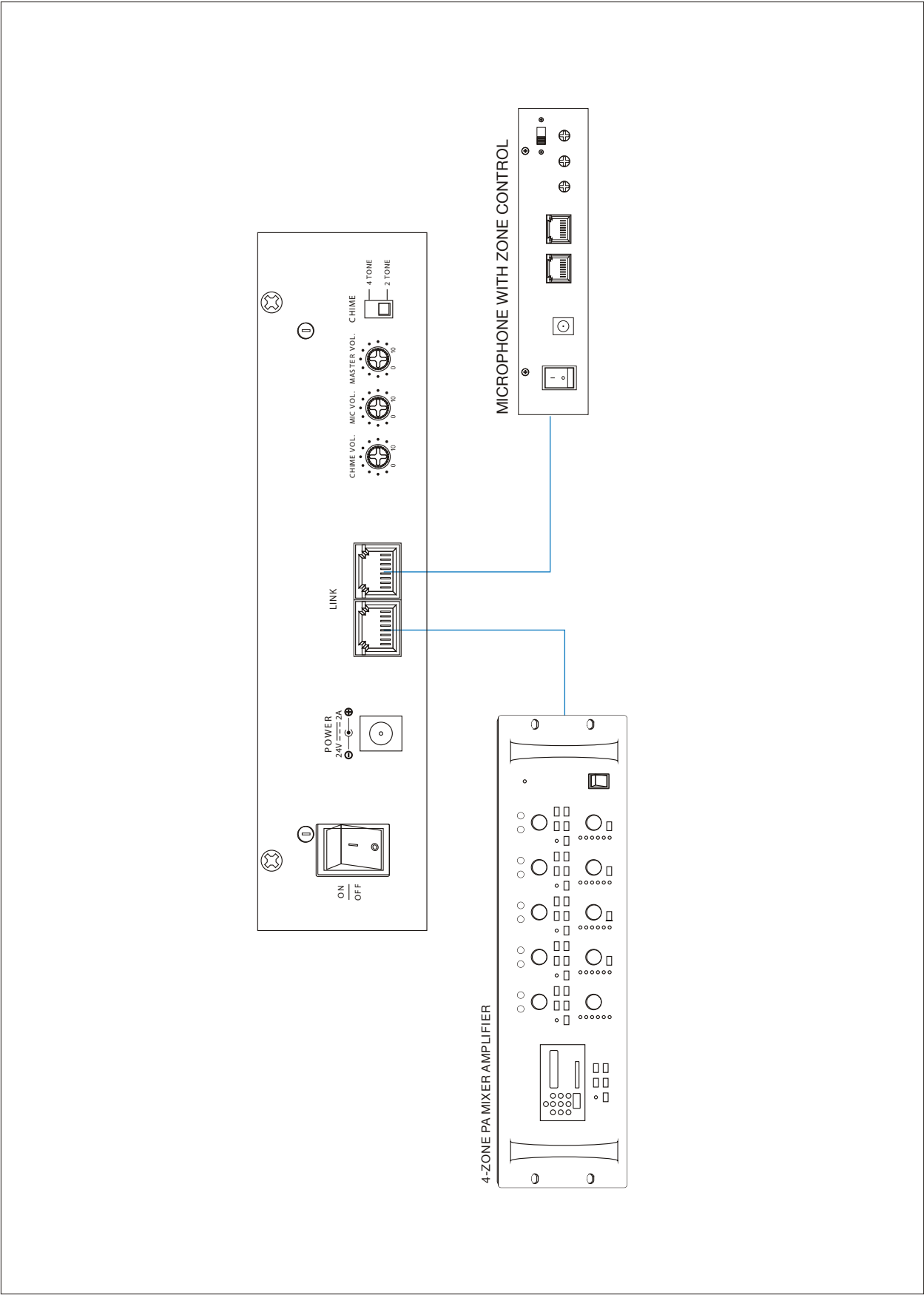
NOTE:

Use care when flipping the Chime switch.

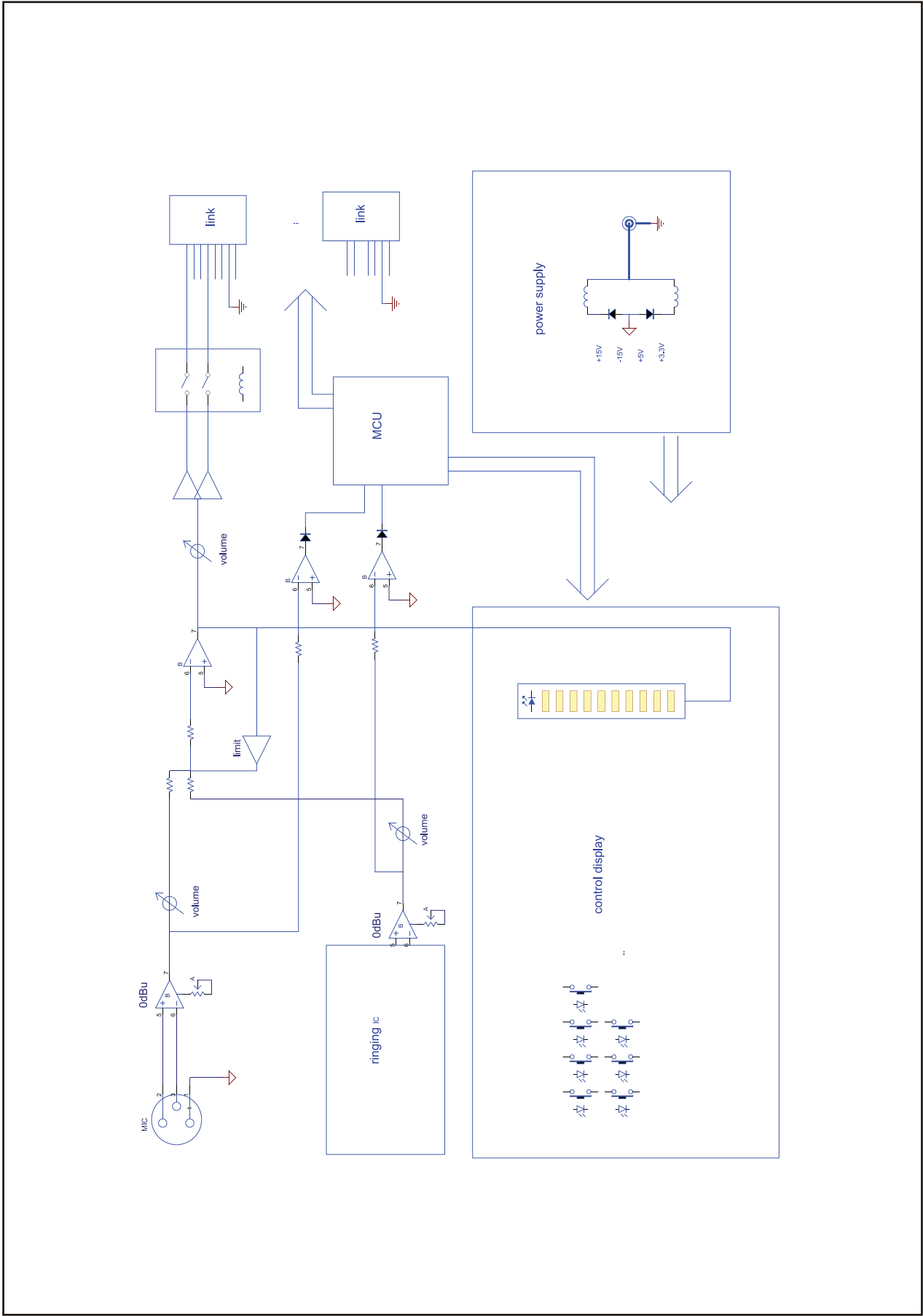
4.7 Automatical standby function

When there is no signal detected from the MIC for one min, the conversation will be stopped and the call button will be disengaged.

REAR PANEL CONNECTIONS



BLOCK DIAGRAM



SERVICE

Ensure the problem is not related to operator error or system devices that are external to this unit. Information provided in the troubleshooting portion of this manual may help with this process. Once it is certain that the problem is related to the product, contact your warranty provider as described in the warranty section of this manual.

LIMITED WARRANTY

PRO ACOUSTICS, LLC. ("PRO ACOUSTICS") warrants this product to the original purchaser to be free from defects in materials and workmanship (subject to the terms set forth below), for the following periods from the date of purchase.

THIS WARRANTY COVERS THE LISTED PRODUCTS AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR THE FOLLOWING PERIOD

Warranty Terms	
Speakers	2 Years
Amplifiers & Electronics	1 Year
Microphones	1 Year
Accessories	1 Year

PRO ACOUSTICS will repair or replace (at PRO ACOUSTICS's option) this product or any defective parts (excluding electronics and amplifiers) in this product.

Your authorized PRO ACOUSTICS dealer will inspect the product and, if your dealer is not equipped to perform the repair of your PRO ACOUSTICS product, they will replace your product or return it to PRO ACOUSTICS for repair, at their discretion. Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the warranty period, must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from this product. This warranty is invalid if this product was not purchased from a PRO ACOUSTICS authorized dealer. Cosmetic damage or damage due to accident, acts of God, misuse, abuse, negligence, commercial use, or modification of, or to any part of, the product are not covered in this warranty. This warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than PRO ACOUSTICS or a PRO ACOUSTICS dealer which is authorized to do PRO ACOUSTICS warranty work. Any unauthorized repairs will void this warranty.

This warranty does not cover products sold as is.

REPAIRS OR REPLACEMENTS AS PROVIDED UNDER THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE CONSUMER/PURCHASER. PRO ACOUSTICS U.S.A. SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PRACTICAL PURPOSE.

This warranty gives you specific legal rights. You may have other rights which vary from state to state.

Specifications may change without notice.

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