

Model Number 31000G
INSTALLATION AND OPERATION

6 Zone Mixer Amplifiers with Mp3/FM/BT



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

סוללות גיבוי למצב הפסקת חשמל, שימו לב שהמגבר אינו מטעין את הסוללות.

מק"ט 16517/8/9 ומק"ט 16689

למה מיועד?

עם המגבר והמיקרופון שלפניכם, נוכל לרכז עד 6 אזורים. ניתן לשרשר עד 6 מיקרופונים, ומרחק ההתקנה המקסימאלי מהמגבר למיקרופון הוא 300 מ'.



החלק האחורי של המגבר

כניסת LINE בעדיפות (פיצ'ר ייחודי למגבר זה)

מפסק המנתק/מחבר את האדמה למגבר, שימושי במקרה של רעשים סטטיים

יציאת רמקול 4-16 Ω

1 אזור 100V
2 אזור 100V
וכן הלאה... עד אזור 6

שימו! ♥ לא ניתן להשתמש ביציאת ה Ω וביציאת האזורים 100V ביחד, יש לבחור אחת בלבד

הדיפ סוויץ שלפניכם משפיע על כניסת ה XLR LINE\MIC במצב הנוכחי מוגדר LINE שולט על רגישות הכניסה (נמוכה/גבוהה) במצב הנוכחי היא מוגדרת נמוכה שולט על ה PHANTOM (מתח למיקרופון) במצב הנוכחי הפונקציה כבויה

חיבור זה מיועד לחיבור המיקרופון אזורים

כבל רשת CAT5e\6 סטנדרטי

מיקרופון אזורים מק"ט 16689

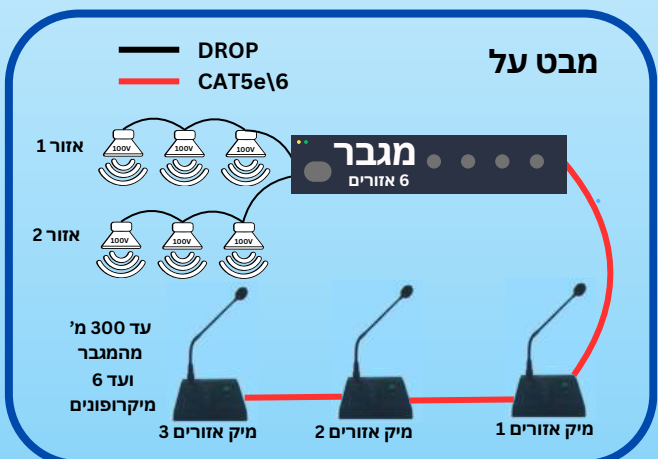


החלק הקדמי של המיקרופון

לחצן כריזה PTT\TOGGLE
לחצן בחירה כל האזורים
לחצני בחירה אזור לכריזה



החלק האחורי של המיקרופון



מבט על

מגבר 6 אזורים

1 אזור 100V
2 אזור 100V
וכן הלאה... עד אזור 6

עד 300 מ' מהמגבר ועד 6 מיקרופונים

1 מיק אזור 1
2 מיק אזור 2
3 מיק אזור 3

חיבור הרשת הפנוי במיקרופון אזורים מיועד לשרשר מיקרופונים נוספים, במקרה זה יש לתת כתובת ADDRESS שונה לכל יחידה, על פי החוקיות הבאה

דיפ-סוויץ	מס' מיקרופון
1 2 3	1 מיק אזור 1
1 2 3	2 מיק אזור 2
1 2 3	וכן הלאה עד 6
1 2 3	6 מיק אזור 6

★ ניתן לשרשר עד 6 מיקרופונים
★ דיפ סוויץ 4-6 הם עבור עדיפויות (עדיפות גבוהה, 0 עדיפות נמוכה)
★ דיפ סוויץ 7 שולט על הגונג
★ דיפ סוויץ 8 שולט על מצב PTT
★ דיפ סוויץ 4-8 לא בשימוש במקרה זה

לחצן הכריזה יהיה TOGGLE או PTT
עם או בלי גונג בהתחלת הכריזה
עדיפות - במצב שבו 2 מיקרופונים כודים, הגדרה זו תכריע מי יצליח לרכז
כתובת ה ADDRESS של המיקרופון

לפניכם דוגמה למיקרופון מס' 1, בעדיפות 4, עם גונג, ו PTT.



SAFTY WARNINGS!

1. Read and keep these instructions.
2. Heed all warnings and follow all instructions.
3. Do not use this apparatus near water.
4. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
5. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
6. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
8. Only use attachments/accessories specified by the manufacturer.
9. 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.
10. Unplug this apparatus during lightning storms or when unused for long periods of time.
11. 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.
12. 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.
13. Plug this apparatus to the proper wall outlet and make the plug to be disconnected readily operable.
14. Main 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.
15. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
16. An appliance with a protective earth terminal should be connected to a mains outlet with a protective earth connection.

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.



INTRODUCTIONS

Description

The PA 6 Zone Mixer Amplifier with MP3, FM tuner & blue tooth, its rated power output from 60W, 240W, 350W to 500W, it is ideal for school, super market, bank, hotel BGM and speech use. It is all in one solution with two sources, pre Amplifier and mixer power Amplifier into one 19" 2U height unit, which is economy but of high reliable performance.

It integrates 2 audio sources into a mixer Amplifier, plus Mic1(6.3mm) and Mic/Line input 2-4 (XLR), two line inputs, one EMC input and one RS45 input for 6 zone remote paging microphone. Mic1 VOX with highest priority except EMC input. One USB and one SD slots on front provide easy access and operation for installer and end-user.

The Amplifier is designed with complete protection of overload, short circuit and high temp to avoid any damage. These Amplifiers are suitable for applications in bank, mosque, school, hotel, restaurant, theme centers and shopping center.

Features

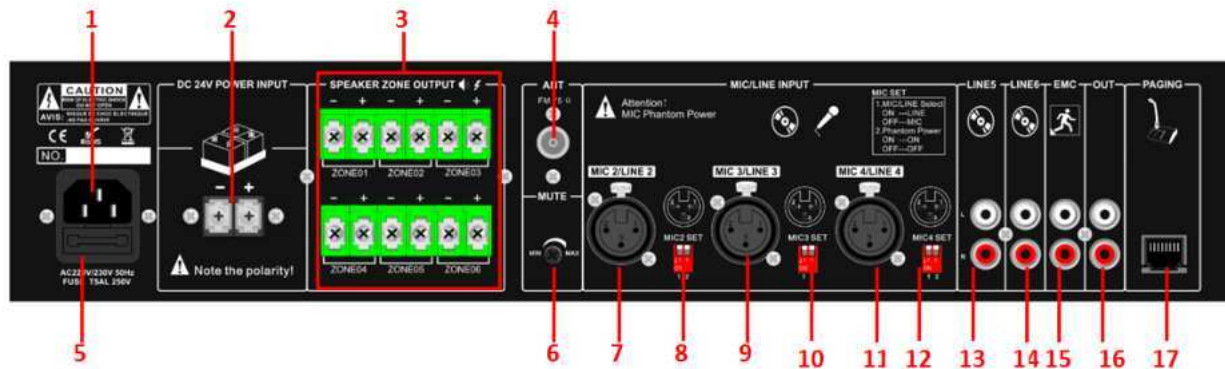
- Public address (PA) 6 zone commercial mixer power Amplifier.
- 19" rack mount Amplifier of 2U height.
- Rated outputs of 60W, 240W, 350W to 500W.
- 6 zone speaker outputs of 100V or 70V.
- Six zone speaker outputs with independent volume control.
- Built-in MP3 player by USB & SD, FM tuner & blue tooth.
- Four microphone inputs, Mic1(6.3mm) and Mic/Line input 2-4 (XLR).
- Line 1-2 inputs on rear panel by RCA.
- EMC input on rear panel with highest priority by RCA.
- One Amplifier capacity of 6 remote paging microphones up to 300 meters.
- Microphone1 of VOX features of highest input priority except EMC input.
- Volume control for Mic1-4 and line 1-2, bass & treble and zone volume control on front panel.
- AC and DC Power, protection, clip six zone status indicators and output level meters.
- Overload, short circuit and high temp protection.
- AC 230V and DC24V operation system.

FRONT PANEL



1. Indicator.
2. Clip Indicator.
3. Output Level Meters.
4. MP3 MODULE with FM & Blue Tooth.
5. Speaker Zone1-6 Output Volume Attenuators.
6. Speaker Zone1-6 Selectors with Indicators.
7. Protection AC Power Indicator.
8. All Speaker Zone Selector
9. DC Power Indicator
10. Mic1 Input with VOX priority except EMC Input.
11. Mic1 and Input2-4 Attenuators.
12. Line 5 Attenuator
13. Line 6 Attenuator
14. Bass
15. Treble
16. Master Volume Control
17. AC Power Switch

REAR PANEL



1. AC Power Socket.
2. 24V DC Battery Input.
3. Speaker Zone 1-6 Outputs of 100 volt or 70 volt.
4. FM Antenna.
5. AC Fuse.
6. MIC1 VOX Mute Attenuator.
7. Mic/Line 2 Input.
8. Input 2 Mic/Line Selector (Mic 2 with 48V phantom power).
9. Mic/Line 3 Input.
10. Input 3 Mic/Line Selector (Mic 3 with 48V phantom power).
11. Mic/Line 4 Input.
12. Input 4 Mic/Line Selector (Mic 4 with 48V phantom power).
13. Line 5 Input.
14. Line 6 Input.
15. EMC Input from Fire Alarm System with Highest Priority.
16. Line Output.
17. RJ45 Input for Remote Paging Microphone.

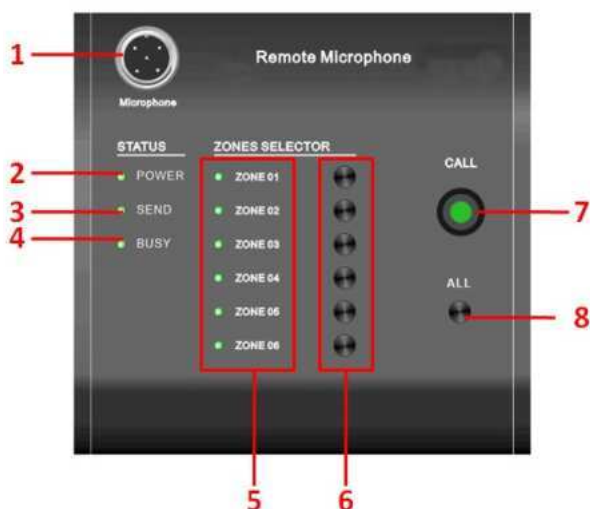
REMOTE PAGING MICROPHONE



DESCRIPTION

Remote paging microphone work with 6 Zone Mixer Amplifier, which is of 6 zone paging features, its communication distance up to 300 meters through straight CAT6 cable, each Amplifier capacity of connection up to 6 units of remote paging microphone, these microphone are connected hand-by hand. These 6 remote paging microphones could be pre-set different priorities by its dipswitch. The remote paging microphone is direct power supplied by the Amplifier.

FRONT PANEL & REAR PANEL



1. Gooseneck microphone connector.
2. Power indicator.
3. Send or working indicator.
4. Busy indicator.
5. Speaker Zone 1-6 indicators.
6. Speaker Zone 1-6 selectors.
7. Call or talk button.

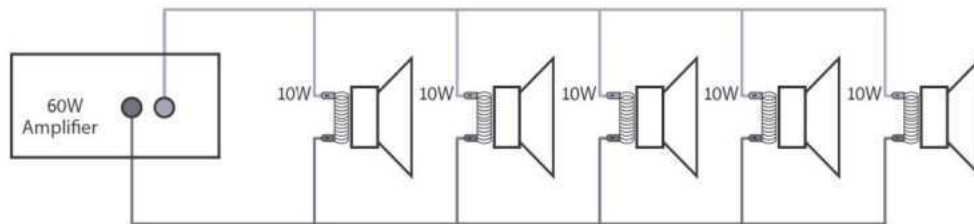
8. All speaker zone 1-6 selector.
9. Power switch.
10. RJ45 port to cascade another remote paging microphone.
11. RJ45 port to communicate with series Amplifier.
12. Microphone volume control.
13. Aux input.
14. Priority dipswitch.

AMPLIFIER OPERATION GUIDANCE

100V Line System

For 100V line systems, connect the Amplifier to the first speaker in the system using double-insulated speaker wire which has adequate current rating to handle the total output of the Amplifier.

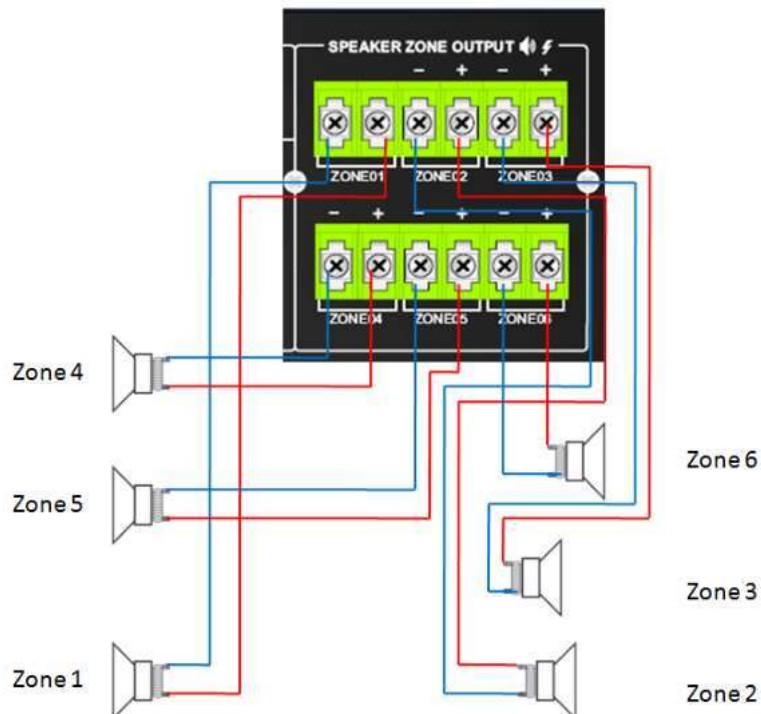
Connect the “100V” output terminal to the positive (+) connection of the speaker and “COM” output to the negative (-) connection of the speaker. Connect further speakers in parallel to the first speaker with all positive terminals and connected together and all negative terminals connected together as shown below.



A 100V line speaker system can comprise of many speakers connected together. The determining factor for how many speakers can be used on a single Amplifier is the power rating. For most purposes, it is advised to connect as many speakers as needed with a combined wattage of no more than 90% of the Amplifier's output power rating.

The terminals of a 100V speaker are connected to a transformer and in some cases, this transformer may be “tapped” for different power ratings. These tapings can be used to adjust the wattage (and output volume) of each speaker in the system to help achieve the ideal total power of the system for the Amplifier.

The mixer Amplifier is featured of 6 speaker zone outputs, either one of six zone or total six zone power loading shall be equivalent or no higher than the rated power of the Amplifier.



OPERATION STEP

- When all connections to the Amplifier are made, turn all rotary controls down and switch on the power and a power “ON” LED will illuminate. Turn BASS and TREBLE controls to the 12 o'clock position (pointing straight up) and turn MASTER rotary control up part way for testing.
- Ensure a signal is being fed to one of the line inputs 1, 2, 3, 4, 5, 6 or 7 and gradually increase the volume control for that channel until the output is heard through the speakers. Turn up the MASTER to the maximum required volume level and reduce the channel volume control if necessary.
- Note: The initial test can be made using the built-in USB/SD/FM audio player. The output of the Amplifier is represented on the level meter LEDs and care should be taken that the Red “0” LED is only lit momentarily during use. Anything longer than a short flash of this LED may be indicating distortion or clipping of the output signal and the MASTER should be turned down.
- If a microphone is connected to MIC2-4 input, make sure it is switched on and if it requires phantom power, make sure this feature is enabled. Gradually increase its volume control whilst speaking into the microphone until the required volume level is reached. The microphone should not be able to “hear” the speakers, which can cause feedback (squealing or howling noise).
- If the VOX feature is enabled, audio playback through channels 2-6 will be reduced in volume automatically when speaking into MIC 1, use its attenuator to increase or decrease the mute level.
- In addition to channel and MASTER volume controls, there are BASS and TREBLE EQ controls to adjust the tone of the overall output. At the 12 o'clock position, these controls are applying no effect to the signal (no boost or cut). Moving the BASS control clockwise boosts the low frequencies in the audio, whilst moving it anticlockwise will cut these low frequencies. Likewise, moving the TREBLE control clockwise boosts the high frequencies in the audio, whilst moving it anticlockwise will cut these high frequencies. Adjust these EQ controls to suit the type of audio signal or compensate for the room acoustics.

USB/SD Playback

Push a USB pen drive into the USB port and/or an SD card into the SD card input.

Press the CD/USB/SD button to ensure that the player is set to play from the required memory device. Press the PLAY/PAUSE button to play the current track and press again to pause as needed.

Searching and playback of tracks is the same as described above for the CD player

FM Tuner

Press the FM select button to switch to the FM tuner function.

Use the Previous or Next buttons to select a stored channel.

Tuning and storing stations

Use the Forward/Reverse seek buttons to manually tune the frequency in steps of 0.05MHz

Alternatively, press and hold the Forward/Reverse seek buttons to auto search for available stations.

Upon finding a station, the auto search will stop, giving the option to store this station.

At this point, pressing the PLAY/PAUSE button will flash a “00” channel number in the display.

Use the Previous/Next buttons to select an appropriate channel memory.

Press PLAY/PAUSE again to confirm and store the station into the selected channel memory.

Auto search can be stopped at any time by pressing the Forward/Reverse seek buttons.

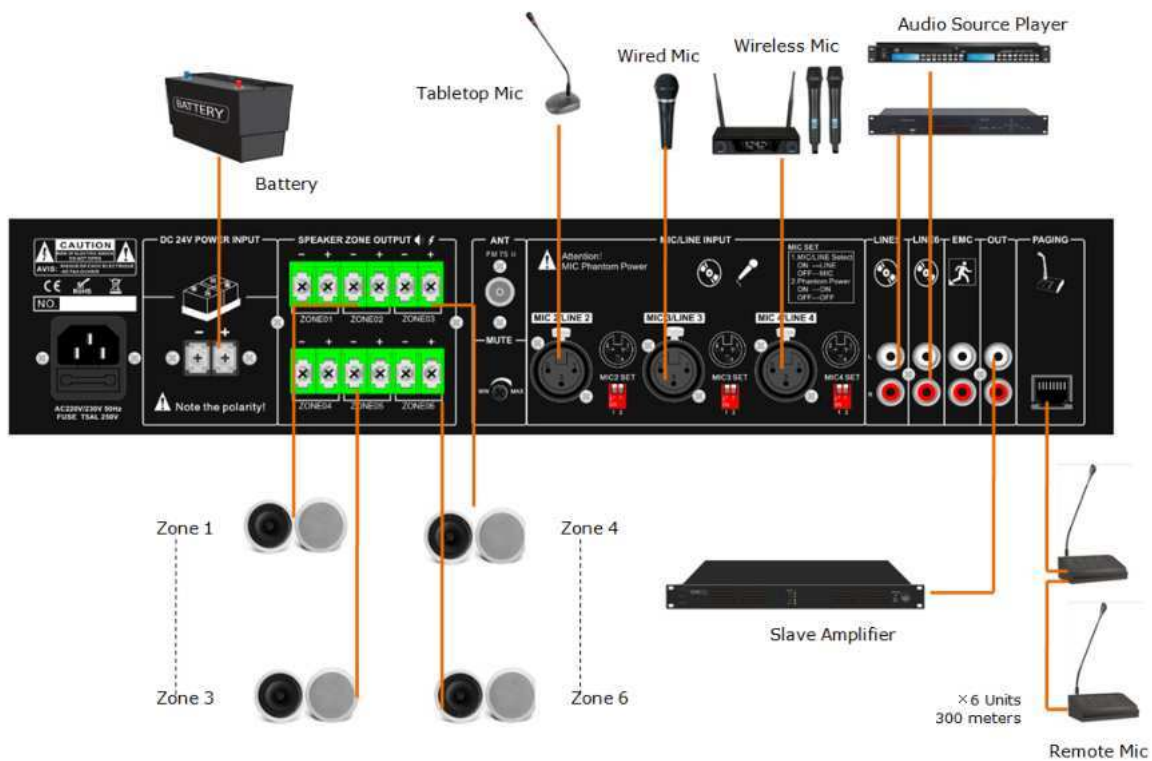
MUTE ON/OFF

Pressing the MUTE ON/OFF button will mute the output of the audio player.

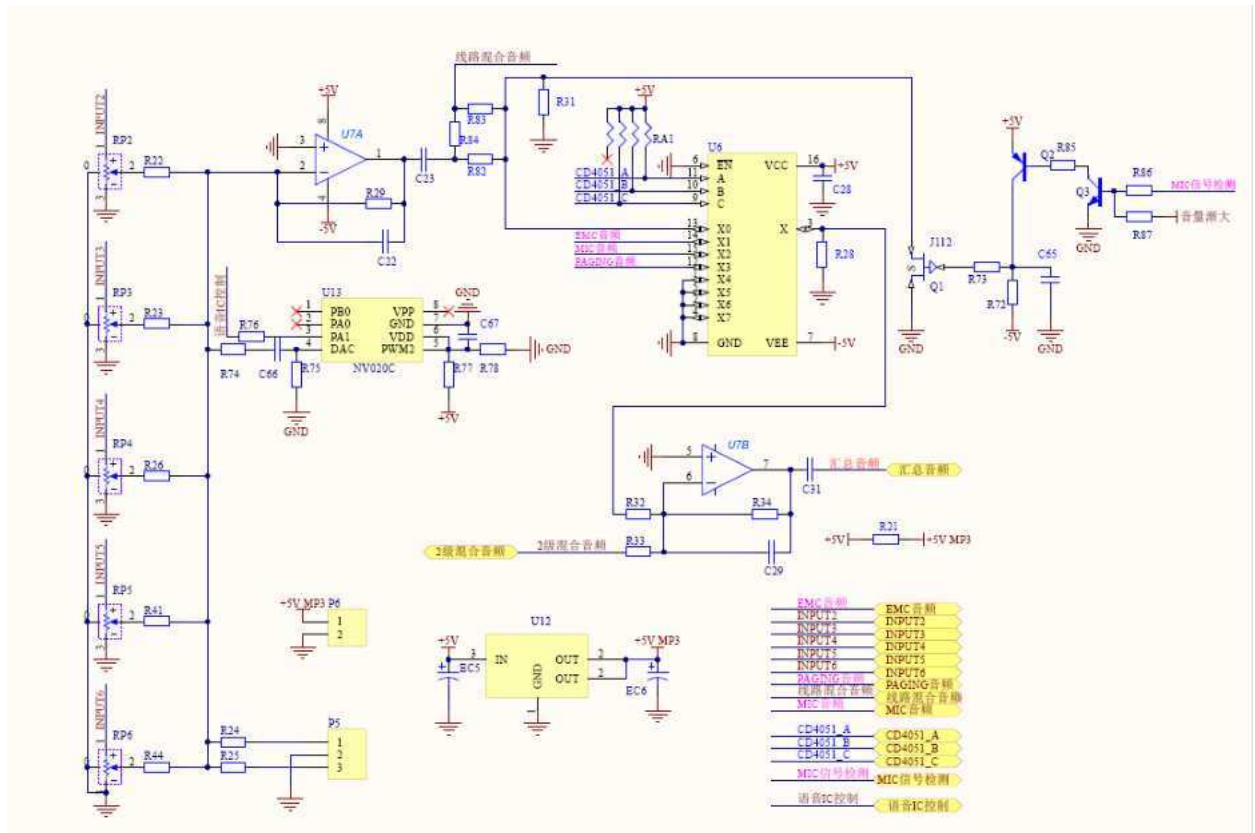
Pressing and holding the MUTE ON/OFF button will put the audio player in standby mode.

Press this button again to restore functions from standby mode.

CONNECTION DIAGRAMS



SCHEMATIC DIAGRAMS



Specifications:

Item	Mixer Amplifiers 6 Zone with Mp3/FM/BT, 240W/ 350W/ 500W		
Model	16517	16518	16519
Rated Power Output	240W	350W	500W
Speaker Output	100V 6 Zones & 4Ohms-16Ohms		
Input	Mic1-4: 2.5mV, Line1-2: 250mV; EMC: 250mV		
Frequency Response	80-16KHz		
THD	<0.1%		
S/N Ratio	>70dB		
Protection	High temp, short circuit, clip & overload protection		
Power Supply	AC230V or AC110V, 50-60Hz		
Power Consumption	400W	500W	650W
Dimension	438(W)×405(D)×88(H)mm		
Weight	10.5kg	10.9kg	11.5kg