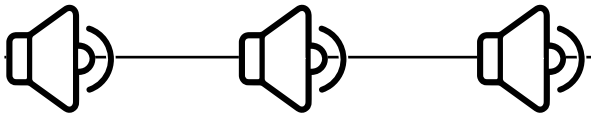
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## הוראות התקנה ותחזוקה שוטפת למערכת כריזה דגם PAVA2240

input Trigger
קו מבוקר חיבור למערכת גילוי אש ועשן להפעלת הודעות חירום

output Trigger
דווח תקלה למערכת גילוי אש ועשו



ZONE1-2
קו רמקולים מבוקר עם נגד סוף קו K 3.6 אום ברמקול האחרון הספק 10W
קו הזנת רמקולים יבוצע בכבל אדום גילוי אש תקני 2X0.8MM ע"פ תקן 3 חלק 1220

**מערכת כריזה תקן דגם PAVA2240**
**חברת תוצרת Guangzhou DSPPA Audio Co**

הזנת מערכת מרשת חשמל תבוצע בכבל3 X NYY1.5MM
בתוך קופסה **בהתאם לחוק החשמל ולפי תקן 1220 חלק 3**



מיקרופון מבוקר
PAVA2200

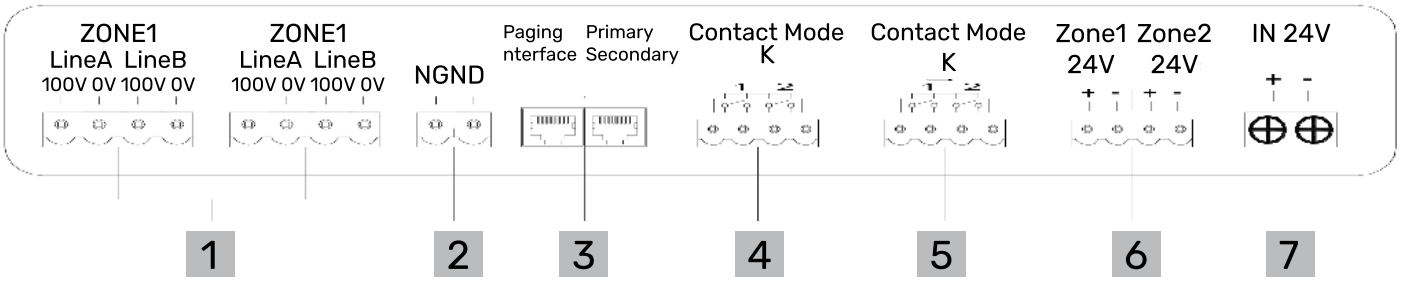



מצבר אטום
חומצה AH14
VDC12

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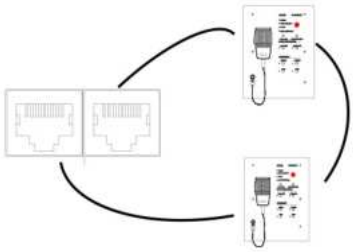
## פאנל היציאה לחיבורים



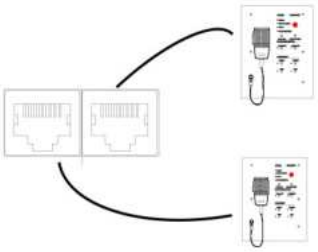

1. **יציאת קו B&A עבור שני אזורים** - מתח יציאה 0 100V~
הערה : נא לדגם את הרמקולים לפחות פעם אחת לאחר החיבור ולחצו על לחצן RESET לחיצה ארוכה / או ללא רמקולים יכולים להישאר ריק.

2. **כניסת קו BGM**

3. ממשק מיקרופון כריזה - לחיבור מיקרופון כריזה דגם .PAVA2200, תמיכה בחיבור מעגלי וחיבור ענפי (כמוצג להלן) וזיהוי אוטומטי על ידי התוכנה.



חיבור מעגלי



חיבור ענפי

4. **כניסת מגעים יבשים לשני אזורים** - בתנאי רגילים , הממשק יכול להיות דלוק בכל עת .
במקרה של קצר בממשק, חלק קצר מגע יבש 1 או מגע יבש 2 , יציאת ממסר לקיצור מגע יבש (תמיד דולק *
יציאת 24 וולט והיכנסו למצב חירום ושידור הקול הרלוונטי
ניתן להפעיל מגע יבש בכניסת 5-24 וולט , פשוט העבירו מכסה הקצר הפנימי ימינה).

5. **ממשק תפוקת ממסר דו ערוצי** - תפוקת הממסר תמיד במצב רגיל, בהפעלת מגע יבש כלשהו, ניתן לקצר את שני הכניסות בהתאמה.

6. **תפוקת 24 וולט** - אין תפוקת 24 וולט במצב רגיל בהפעלת מגע יבש כלשהו , שתי הכניסות יכולות להפיג 24 וולט

7. **ממשק כניסת כוח 24 וולט**

8. **כבל הזנת חשמל 220 וולט**

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## הוראות תחזוקה ובדיקה שוטפת כולל תדירות בדיקה

- יש לנתק את מפסק 220VAC וכן ממ"ט הסוללות בתוך המערכת
- לפני תחילת תחזוקת המערכת/הפעלת מערכת
- 800-2800HZ תדר עבודה לגילוי אש
- מצברי גיבוי 12 VDC הספק AH14 (מצבר אטום חומצה)
- יש לדאוג לניקוי המערכת – ניקוי יבוצע ע"י מטלית יבשה בלבד
- אסור למקם מערכות מים כגון מגופים או יחידות אשר ניזונות מנוזלים בקרבת המערכת
- יש למקם את המערכת במקום יבש בלבד.
- יש להקפיד להזמין טכנאי מוסמך לבדיקה תקופתית
- בדיקת המערכת תעשה אחת לחודש ע"י המשתמש כמפורט בספר הוראות הפעלה של המערכת ולפי ת"י 1220 חלק 11
- יש לוודא ויזואלית כי מערכת תקינה
- יש לוודא שימוש במיקרופון חירום ולכרוז לכל חלקי המבנה
- יש לבדוק כי המערכת עובדת גם לאחר ניתוק רשת חשמל AC220 במקום
- יש לוודא בדיקת טעינת מצברים ואורך חייהם ע"י טכנאי מוסמך
- בדיקה וניקוי חיבורים חשמליים
- בדיקת מפסקי הפעלה במערכת
- 800-2800HZ תדר עבודה לגילוי אש
- מצברי גיבוי 12 VDC הספק14 AH (מצבר אטום חומצה)
- התקנת הרמקולים כולל מיקרופון יחידה רחוקה ע"פ תקן 1220 ולפי דרישות יועץ בטיחות
- התקנה וחיבורים לאביזרים יבוצע בהתאם לחוק החשמל הוראות הפעלה למשתמש/טכנאי מצורף בחוברת התקנה והפעלת מערכת (בספר מערכת)
- במידה ונתגלה תקלה במערכת יבוצע תיקון שרות והחלפת רכבים מקורים של היצרן DSPPA במעבדת היבואן

## אזהרות

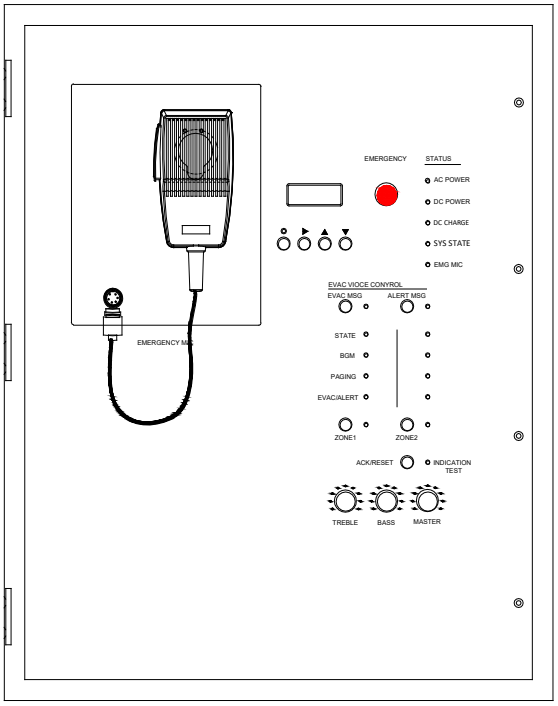
- אין להתקין את המערכת במקום חשוף לקרינת שמש ישירה או בקרבת מקורות חום כיון שזה עלול לגרום למערכת לעבור למצב הגנה ולהפסיק פעולות המערכת עקב עיוותים ,דהייה או חום גבוה
- אין להתקין ואין לאחסן את המערכת במקומות לחים או מאובקים, כיון שאלה עלולים לפעולה לא יציבה ותקלות במערכת
- ציוד המערכת יותקן במרחק גדול ככל שניתן מציוד שמקרין שדות מגנטיים חזקים , כדי למנוע הפרעות אלקטרומגנטיות והשפעה על הפעולה הרגילה של הציוד של המערכת כאשר מתקינים מספר יח' PAVA 2240 בארונית אחת, כחלק מתצורת המערכת וודאו מרווח מספיק בין הציוד או הרכיבים כדי לאפשר אוורור נאות ופיזור חום
- המיקרופון המרוחק-PAVA 2200 פועל על מתח פנטום VDC24 יש לקצר את כבל המיקרופון אם נורית החיווי ב-PAVA 2240 מאירה באור חלש או לא פועלת כרגיל ) האורך הרגיל המתאים לחמישה כבלים/גידים שנמדד בתנאי שדה 600מ' . שימו לב שהאורך 600 מ' מתייחס לאורך הכולל של כל כבלי המיקרופון ולא לאורך כבל יחיד
- כל קווי התקשורת של המערכת מגובים ולכן בצעו הכיוונים בהתאם לצרכים בפועל . במקרה של תקלה רצינית, כשהמערכת לא פועלת כרגיל , יש להזמין שירות של החברה המוסמכת לצורך תיקון או טיפול , אין לפרק את הרכיבים המובנים לצורך תיקון או טיפול כדי למנוע נזק לציוד או רכיבים ולמנוע מקרה התחשמלות
- יש לוודא חיבור של הציוד להארקה תקינה כדי לוודא פעילות תקינה של כל ציוד

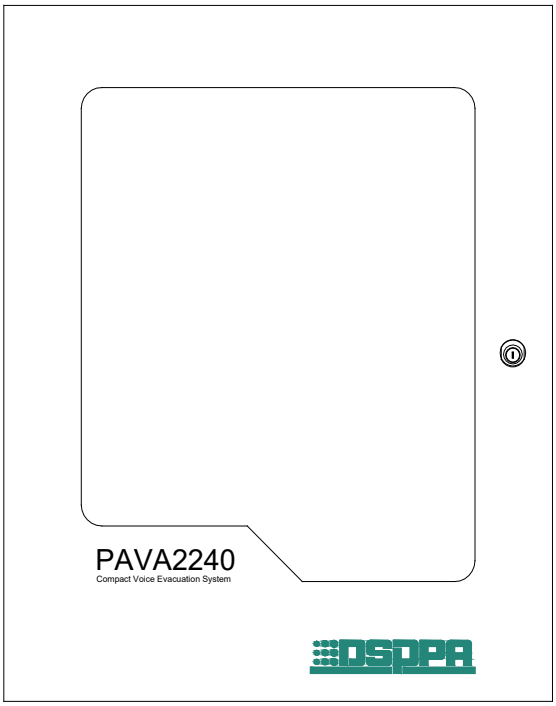
**יש לשים לב לנקודות הסימון (אזהרה) בתוך המערכת למתח גבוהה 220VAC**

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**Model Number PAVA2240**
**Voice Evacuation System**

# 2 Zones Integrated Voice Evacuation System




# User's Manual

Welcome to DSPPA Voice Evacuation System! Please read the Instructions carefully before operating this device.

Guangzhou DSPPA Audio CO., Ltd
http://www.DSPPA.com
http://www.dsppatech.com

## About the Instructions

**The Instructions is used at the date when the PAVA2240 2 Zones Integrated Voice Evacuation System PAVA2240 device is developed. It contains system introduction, operation attentions, system connection instructions, product instructions and other contents of the PAVA2240 2 Zones Integrated Voice Evacuation System PAVA2240 device. The user shall read the Instructions carefully and operate the device following the indications in the Instructions before the installation and operation of the device.**

Any symbol marked on the rear panel of this machine must be noted. The operations must be performed according to the instructions of these symbols.

**Please keep the Instructions for future reference!**

**PAVA—V0.2**
**Facture 2019-3-25**

**WARNING**

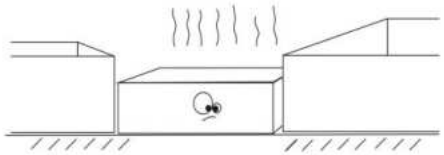
**Be sure to observe the following cautions to prevent the damage to the users and others, and the damage to the equipment or property!**

**This symbol means a "prohibition".** **This symbol means a "must".**

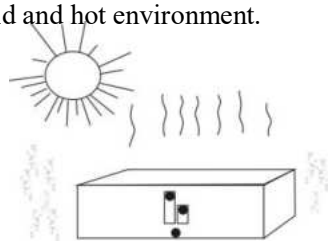
■ Check the damage condition of power cord. Do not pulling the power cord to unplug the plug, unplug the plug directly; otherwise it may cause electric shock, short circuit or fire.



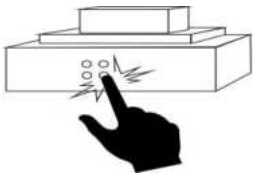
■ Do not block the air vent during the operation. All air vents must be unblocked to avoid the overheating.



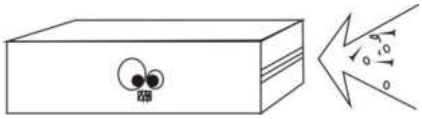
■ Do not expose the device to dust, vibration, extreme cold and hot environment.



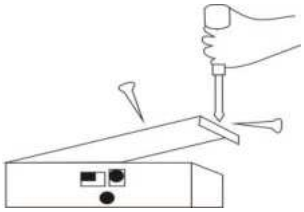
■ Do not place heavy objects on the device. Do not impose an excessive force when operating the switch, buttons or connecting the external audio equipment.



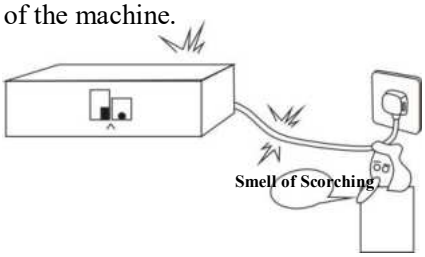
■ Avoid any foreign matter (paper, metal, etc.) from entering the device through gap or opening. In such a case, please power off this device immediately.



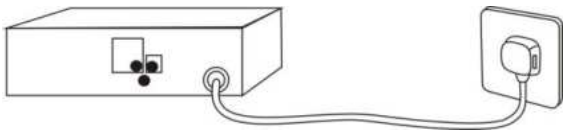
■ Do not attempt to detach the internal parts of this device or remold it by any way.



■ Please unplug the power plug immediately to avoid the electric shock, fire or other accident and professionals shall be invited for maintenance of the device in case of any sudden sound interruption, any abnormal smell or smoke during the running of the machine.




■ Be sure to unplug the AC power cord or turn off the wall outlet to achieve zero energy consumption when this device will not be operated for a long time.



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# 1. Product Description

## 1.1 Brief introduction

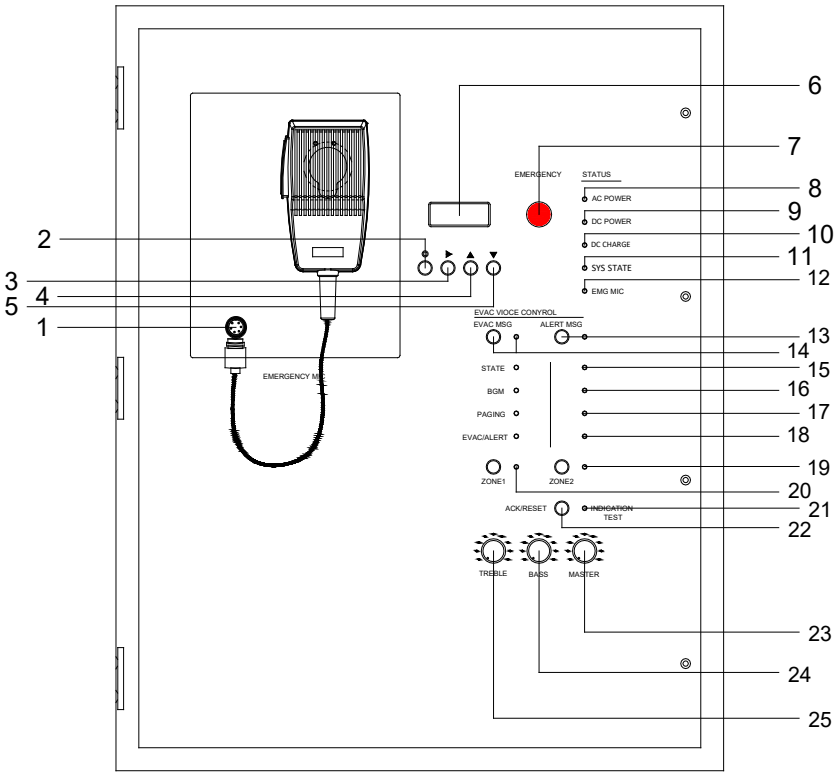
PAVA2240 is an integrated voice evacuation system. With built-in 240W digital amplifier, not only can it send out warning and alarm, but also support handhold microphone to make voice evacuation. It can manage emergency alarming, fire alarm announcement and background music playing for 2 zones. It is an ideal application for small shopping malls, office building and sports venues.

## 1.2 Performance

- Digital tube display screen to display time, power amplifier status, and emergency microphone status;
- One-key alarm and two kinds of editable alarm voices; EMC microphone for on-site voice evacuation;
- LED light to indicate system connection status and fault status;
- Support speaker line detection (light load, over load and short circuit);
- LED display to indicate the type of audio source of the current signal;
- 1 aux input interface, 1 paging microphone input, support offline detection; each paging record is automatically saved to SD card;
- Zone switch keys and LED display to indicate zone working status;
- Support AC power supply and 24V battery power supply; support automatically and seamlessly identify and convert. AC power supply is with the priority;
- Built-in two 240W digital power amplifier modules, which can have master and standby amplifier switch automatically;
- Equipped with 24V battery charger, which can be charged automatically when the system is powered by AC;
- System error information is backed up by logging in SD card;
- A/B line speaker output for two zones; independent power switch and volume control for each zone; with master volume control, treble and bass adjustment; each channel can output 240W, and the total power of 2 zones need to be within 240W;
- 2 channel link relay output interface (can control the short circuit of two wires to control other equipment); 2 24V output interfaces give peripheral equipment 24V (not greater than 0.5A) input signal;
- 2 input dry contacts, which can be integrated with the third-party system (such as the fire alarm system) through the input of dry nodes;
- Network cable interface for connecting to PAVA2200 paging microphone;
- With system LED test function button.

# 2. Appearance Description

## 2.1 Description of Front Panel




---

1. **Handheld microphone connection interface**

   For connecting and fixing the handheld microphone;

2. **Confirmation button◎**

   Long press this button to enter time modification;

3. **Right button**

   Press to move right;

4. **Up button:** to add 1

   When the system is working under the state of voice evacuation instead of time modification, press this button to increase the volume of voice alarming. After setting, the system will save the volume automatically;

5. **Down button:** to minus 1

   When the system is working under the state of voice evacuation instead of time modification, press this button to decrease the volume of voice alarming. After setting, the system will save the volume automatically;

6. **Digital screen:** to display time and amplifier's status

   To set system time: long press ◎ to set system time. First set the year, as digital is flashing, press UP and DOWN button to adjust the number of year. Press the right button to move the flashing digital. After the year setting, press the right button to move to month setting. After setting hours and munities, click the confirmation ◎ button to end time modification. After setting, the time is displayed at regular intervals.

When the main amplifier fails, the screen will display E1; when the standby amplifier fails, the screen will display E2; when the connection number of paging microphone changes, bN will be displayed (N means the paging microphone with address N is disconnected).

7. **System working mode indicator**
   - Flashing Red -- the current system works in emergency mode;
   - Off -- the current system works in normal mode;
   - Enter emergency mode:

     In normal mode, press this button, the red indicator light flashes to indicate the emergency mode is entered.
   - Exit emergency mode:

     In emergency mode, press this button to exit and stop playing EVAC voice messages and zone output.

   **Note:** both the entry and exit time or mode can be checked in the "LOG" of PAVA2240.
8. **Main power indicator:**
   - Green -- indicates the AC power supply of the device is normal;
   - Orange -- indicates that the device is not connected to AC power supply;
9. **DC 24V battery indicator**
   - Green -- indicates power supply of DC24V battery is normal;
   - Orange -- indicates that DC24V battery is not equipped with the device;
10. **Charger status indicator:**
    - Green -- indicates the current charger is charging;
    - Yellow - indicates that the charger is not equipped or damaged;
    - Off - indicates that the charger is equipped but not charging;
11. **System status indicator:**
    - Green -- all modules of the system work normally;
    - Flashing orange -- the system is abnormal (press ACK/RESET if you are sure the system is working normally);
12. **Handheld microphone status indicator:**
    - Yellow – indicates the handheld microphone is lost or malfunctioning;
    - Green -- the microphone is working;
    - Off -- the handheld microphone is normal but not working;
13. **-14. EVAC voice message status indicator:**
    - Green -- "EVAC MSG/ALERT MSG" voice message is broadcasting;
    - Yellow -- "EVAC MSG/ALERT MSG" voice message is lost or SD card is lost;
    - Off -- "EVAC MSG/ALERT MSG" is normal;

    **Note:**

    1. "EVAC voice message" refers to both EVAC voice and ALERT voice;
    2. If the EVAC voice message needs to be played manually, the user needs to enter the emergency mode first and then press the voice message button;

**15. Speaker status indicator**

- Yellow – indicates the impedance of zone A or B (speaker A or B) changes; there might occur open circuit or short circuit;
- Off -- the impedance variation of the current speaker circuit is within the impedance range of the speaker when it is under modeling;

**16. Background music indicator**

- Green -- background music is running;
- Off - background music is off;

**Note:** the system plays background music in the default if there isn't any other input signal;

**17. Paging microphone indicator**

- Green – on paging;
- Off – not paging;

**Note:** Zones can be ON and OFF manually while paging;

**18. Voice evacuation message (from SD card) indicator**

- Green – voice evacuation message is on;
- Off -- no voice evacuation message;

**Note:** Zones can be ON and OFF manually;

**19. Zone 1 indicator**

- Green -- zone 1 is on;
- Off -- zone 1 is off;

**20. Zone 2 indicator**

- Green -- zone 2 is on;
- Off -- zone 2 is off;

**21. LED test indicator**

Press this key to enter the LED test mode;

**22. Confirm/reset/model key**

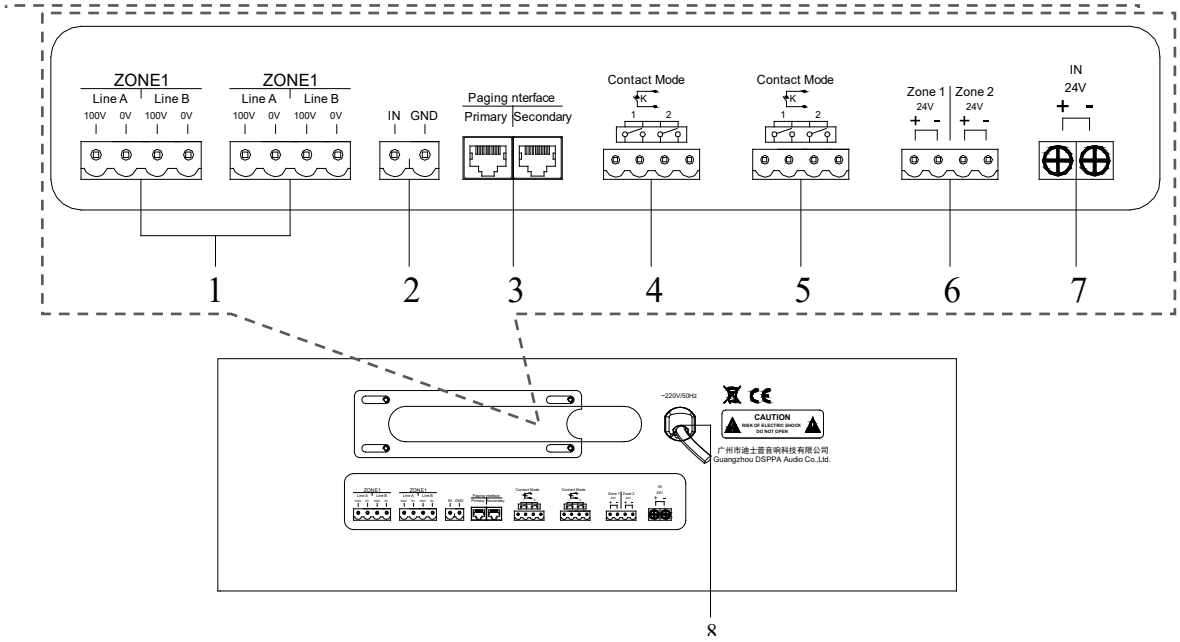
If the system module is diagnosed as abnormal, the "SYS STATE" fault indicator will flash intermittently. After pressing this button, the "SYS STATE" long light will no longer flash to indicate its fault status, and the buzzer will stop. When there is new module detected to be abnormal, the "SYS STATE" LED light flashes and the buzzer is on again;

Long press for impedance modeling and the number of paging microphones modeling. Please conduct a modeling every time when the speakers are connected and the paging microphone is connected.

**23-24. Bass and treble control knob**

**25. Master volume control knob**

## 2.2 Description of Output Panel




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1. **A&B line output for 2 zones**

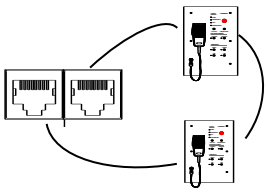
   - Output voltage is 0~100V;

   **Note:** please conduct modeling of speakers at least once after connection, and long press ACK/RESET button; zone without connecting speakers can be left empty.

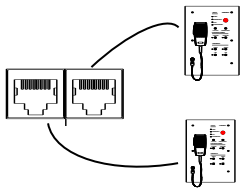
2. **BGM line input**

3. **Paging microphone interface**

   - For connecting paging microphone PAVA2200;
   - Support looping connection and branch connection (as shown in the below picture), and the software can recognize automatically;



Looping connection



Branch connection

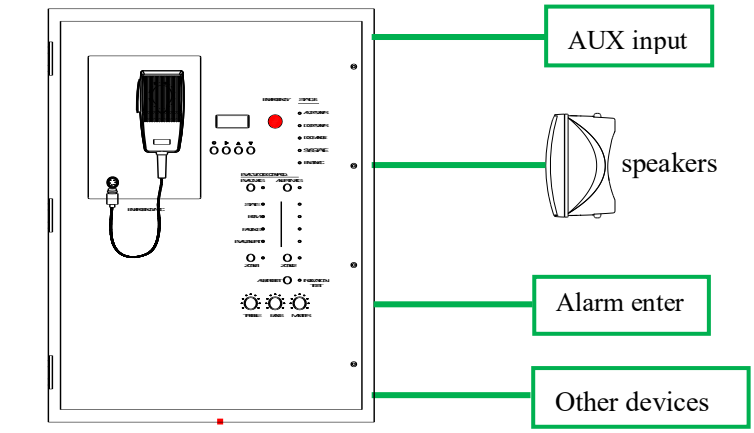
4. **Input dry contacts of 2 zones**

   - Under normal conditions, the interface can keep on always. When short circuit is detected in the interface, that means input dry contact 1 or input dry contact 2 has short circuit. Trigger two relay output to make dry contact (always ON) to be in short circuit, trigger two 24V output and enter the emergency state and broadcast the corresponding voice (the dry contact can also be triggered by inputting a 5V-24V high level, simply move the internal short circuit cap to the right).

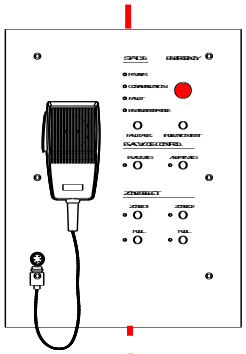
5. **Two-channel relay output interface**
   - The replay output is always on in normal condition. By triggering any of the input dry contact, the two ports can be in short circuit respectively.
6. **24V output**
   - There is no 24V output in normal condition. By triggering any of the input dry contact, the two ports can output 24V.
7. **DC24V power input interface**
8. **AC 220V power cable**

# 3. Connection Instructions

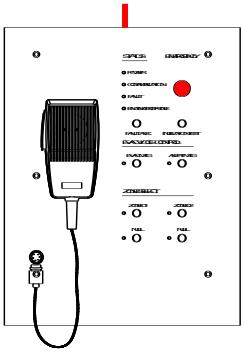
## 3.1 System connection diagram




PAVA2240 2 Zones Integrated Voice Evacuation System



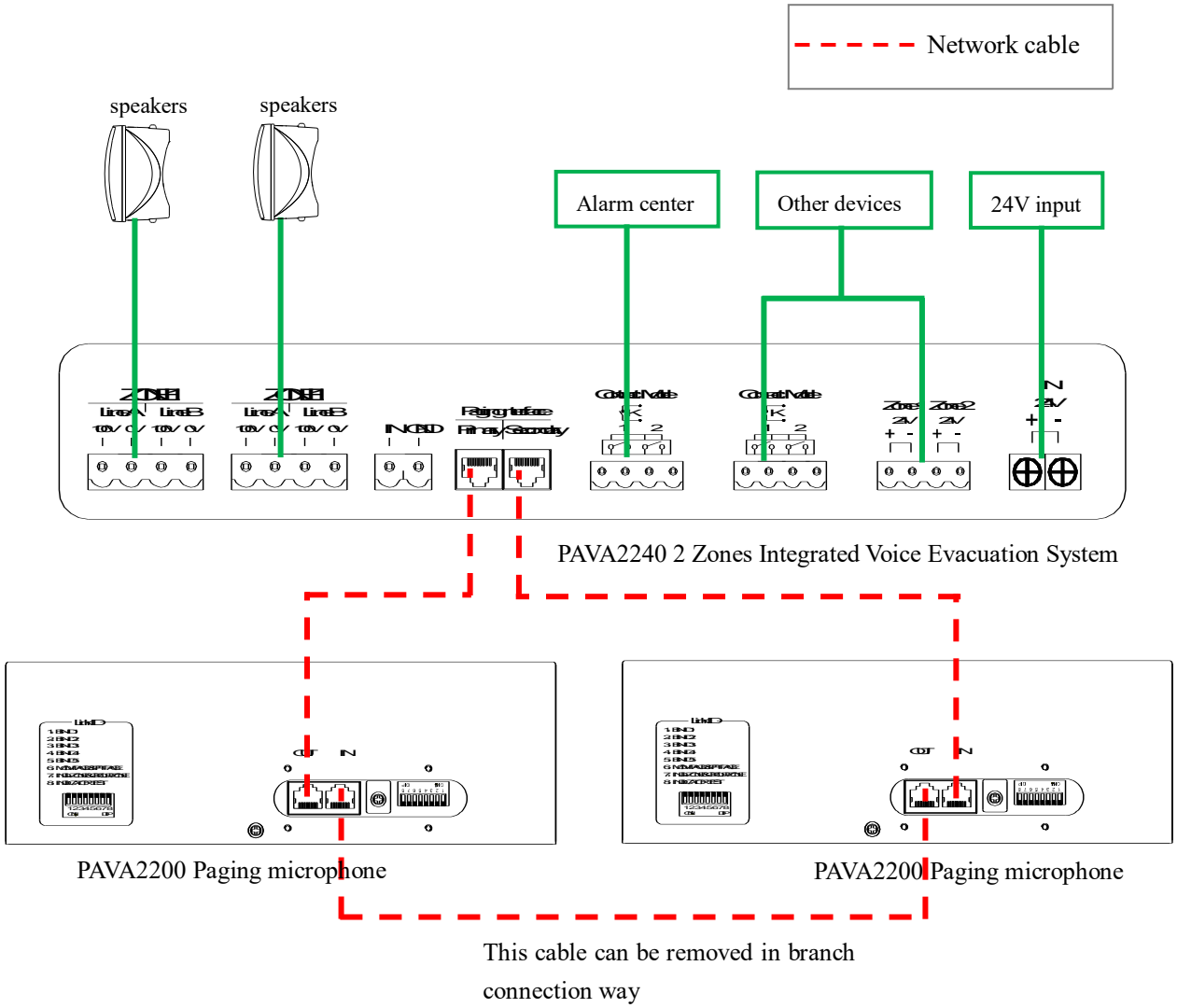
PAVA2200 Paging microphone



PAVA2200 Paging microphone

Network cable

### 3.2 Interface linkage diagram



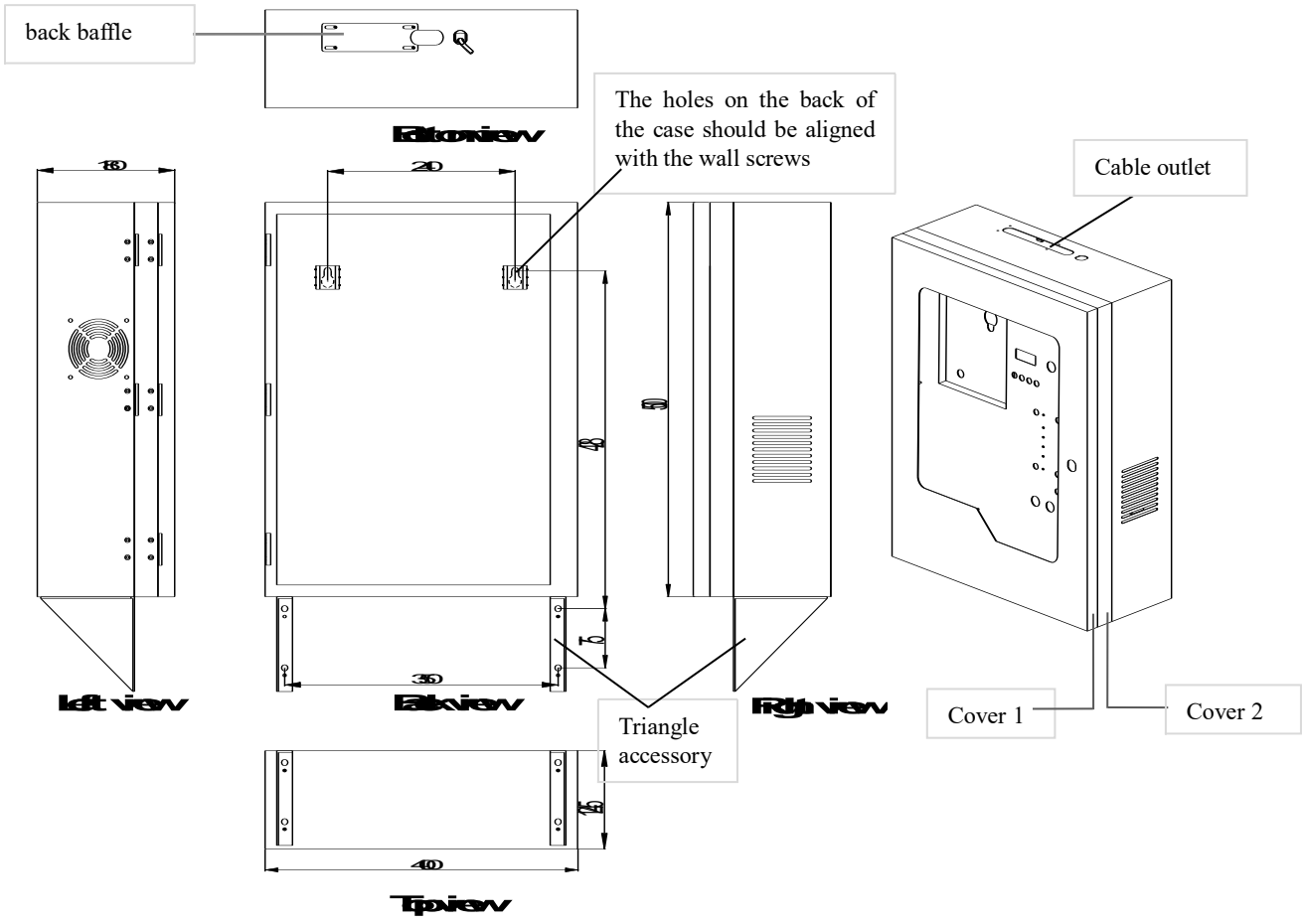

Note: PAVA2240 can support power supply for maximum 2 pcs PAVA2200 paging microphones. Looping and branch connection are supported.

# 4. Methods for examining common system failures

1. **When the digital screen displays b1, please:**
   - check if the network cable for connecting PAVA2200 is loose.
2. **When the DC POWER indicator is yellow, please:**
   - check if there input AC power
3. **For the device and extended device, when the SYS STATE indicator is yellow, it indicates that there is a fault in the system detection. Please:**
   - check if the digital tube displays error messages
   - check if the LED light with detection function is abnormal
4. **When the EMG MIC indicator is yellow, please:**
   - check if the handheld microphone is normal
5. **When the STATE indicator for each zone is yellow, please:**
   - check if the speaker cable of the corresponding zone is broken or damaged.

# 5. Installation instructions

## 5.1 Installation size




Installation size

## 5.2 Steps to install

1) Open the package of this device and check whether the device and accessories are complete by referring to the "packing list" at the end of the manual;
2) First remove the top fender of the casing, then connect the cables through the top of the casing (such as network cable, audio cable, etc.), and then fix the top fender of the casing;
3) Then fix one end of the two triangle accessories on the bottom of the casing with screws;
4) According to the hole size on the back panel of the casing as to the above picture, nail 2 pcs M6 self-tapping screws on wall or other solid surfaces;
5) After confirmation, align the two holes with screws and hang the device on wall or other solid surfaces;
6) Finally, fix the other end of the two triangle accessories on wall or other solid surfaces with screws.

**Note: please ensure that this device and other devices connected to this system are not in power during the installation process!**

# Safety Precautions

## 1. Precautions for Safe Operation

- Do not plug the power cord into the power grid before the system line is not connected.
- Be sure that the input voltage of the device is exactly the same as the voltage required for this device. Otherwise it may burn the device.
- Do not open the case without authorization in order to avoid the risk of electric shock because there is a dangerous voltage in the device.
- Please unplug the power cord from the socket for the sake of safety when the device will not be used because the device is not completely disconnected from the power grid when the device is powered off.
- Do not put the device in a super-cooling or superheating place.
- Be sure there is a well-ventilated operating environment to avoid the heat and excessive temperature from damaging the device during the operation.
- Please unplug the power plug in rainy or wet days or without operation for a long time.
- Be sure to unplug the power plug to ensure the complete disconnection from the power grid before detaching or re-install any parts of the device, disconnecting or re-connecting any electrical plugs of the device or performing any connection.
- Do not open the case to repair the device without authorization in case of any fault in order to avoid the accident or aggravate the damage of the device.
- Do not put any corrosive chemicals on or near the device.

## 2. Precautions for After-Sale Services

- The Company will provide the free warranty services of three years (including replacement of parts free of charge) for any quality problem occurred since the date of purchase if the user installed and operated the device as required and it is within the range of normal operation.
- For any warranty, the user must provide the warranty card, user's self-deposit stub invoice and sales invoice as the voucher.
- Any of the following circumstances is not included in the range of free warranty:

  1. Damage of product resulted from the incorrect installation, operation or handling;
  2. Damage of product resulted from any abnormal condition, for example, excessive power voltage or environment humidity, etc.
  3. Damage of product resulted from any natural disasters or other accidents;
  4. The serial number of the products on the shell is converted, altered or removed;
  5. The product was once repaired or modified by others rather than the authorized personnel of the Company;
- Please keep the Instructions and Warranty Card properly;
- For any question or attentions not covered in the Instructions, please feel free to contact our dealer or visit our website at: http://www.DSPPA.com, http://www.dsppatech.com.

- In case of any fault during the warranty period, please feel free to contact our service personnel or dealers for maintenance treatment. The Company will not bear any responsibility of free warranty for any damage resulted from the unauthorized demolition of the users themselves or the repair of others rather than the technical staff of the company.

# Packing List

| No. | List | Quantity |
|---|---|---|
| 1 | PAVA 2240 the device | 1 pc |
| 2 | User's manual | 1 copy |
| 3 | Certificate | 1 copy |
| 4 | Warranty | 1 copy |
| 5 | CB100 microphone | 1 pc |
| 6 | 4P green plug 3.81MM | 3 pcs |
| 7 | 4P bent pin male plug 5.08MM | 2 pcs |
| 8 | 2P green plug 5.08MM | 1 pc |
| 9 | TF card 16G | 1 pc |
| 10 | Semicircle head cross belt interconnect wire /4×8 | 4 pcs |
| 11 | 200MM/red wire | 1 pc |
| 12 | PAVA2240 casing accessory 2 | 2 pcs |
| 13 | Green plastic post expansion nail /M6×25 | 8 pcs |
| 14 | Semicircle head cross band interface self – attack/6×55 | 8 pcs |

# Specifications

| Items | | Index |
|---|---|---|
| Rated power output | | 240W (Note: please connect high impedance speaker within this load) |
| Rated voltage output | | 100V |
| Power supply | | AC220V/50Hz |
| Sensitivity | Microphone | 5mv（±1mv） |
| | Line input | 1VRMS（±100mv） |
| SNR | Microphone | ≥70dB |
| | Line input | ≥80dB |
| Frequency response | Microphone | 100Hz~10KHz(±3dB) |
| | Line input | 80Hz~15KHz(±3dB) |
| The ratio of source electromotive force | | ≥12dB |
| Total harmonic distortion | | ≤0.5% |
| Tone adjustment range | | ±11±2 dB |
| Rated power consumption | | 350W |
| AC-DC power supply switching time | | No intermittent |
| Main and standby amplifier switching time | | No intermittent |
| Battery life of 12AH (two batteries in series form 24V) | | 2H (voice evacuation works normally) |
| Battery specs | Size | ≤150×100×100mm ( 2 pcs) |
| | Voltage | 12V; (use two in series to make 24V) |
| Packing size | | 570×470×271mm |
| Machine dimensions | | 500×400×180mm |
| Gross weight | | 17KG |
| Net weight | | 15KG (without batteries) |

Technical specifications are subject to change without prior notice.

**Cautions**

- Please unplug the power cord plug from the socket for the sake of safety when the device will not be used because the device is not completely disconnected from the power grid when the power switch of the device is in OFF state.
- The device cannot be subject to water droplets or splashes and any items like vases filled with water cannot be placed on this device.
- Do not open the cover of the machine to prevent the electric shock. If necessary, it shall be repaired by the professional with the professional certificate.
- The terminal marked with a symbol ϟ in the device indicates that it is dangerous and charged. The connecting operation of these terminals shall be performed by the trained staff.
- The device is connected with the power grid via the power cord plug, so, the connection between the device and the power grid can be cut off by unplugging the power cord plug in case of any fault or danger. Therefore, the power outlet is required to be mounted at a place where the plug of the power cords can be easily unplugged or plugged.

**Guangzhou DSPPA Audio Co., Ltd**