

DPS
SERIES

DIGITAL PA SYSTEM USER MANUAL



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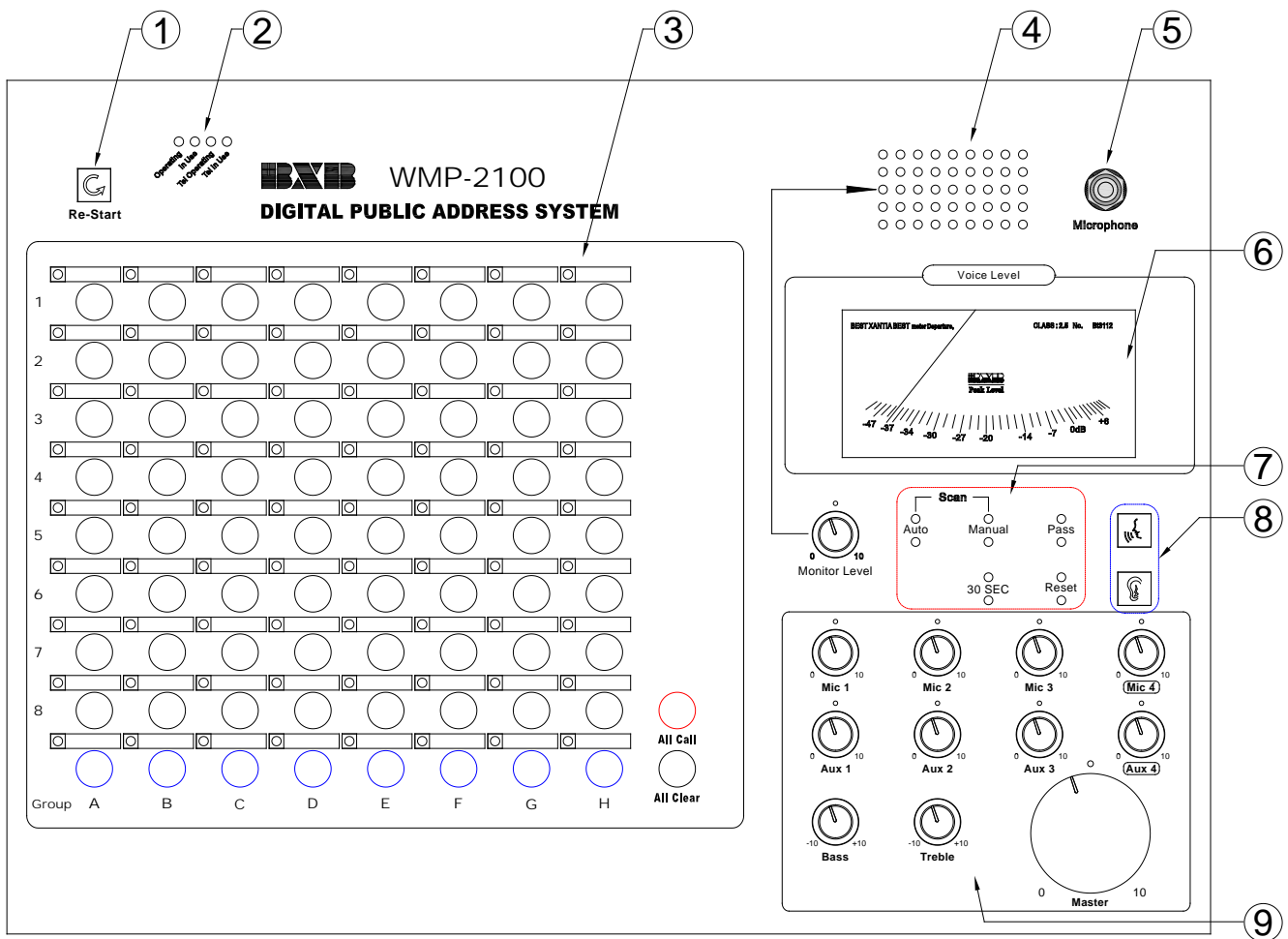
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B. Front panel description

Video(1)



- ① Re-Start button
- ② Working status LED indicators
- ③ White buttons : 64 buttons designed for broadcasting and intercom, above each there is a three-colored LED light to indicate current status.

Blue buttons : Eight groups broadcasting and multi-function buttons

Red button : All Call

Black button : All Clear or enable multi-function

- ④ Monitor speaker: Volume can be adjusted by Monitor Level knob
- ⑤ 6.3Ø Microphone input: Microphone volume can be adjusted by Mic4 volume control
- ⑥ Luminous volume meter
- ⑦ Advanced operation buttons :

Scan-Auto : Automatically scan Remote Decoders.

Scan-Manual : Manually scan Remote Decoders.

Pass : All Call when decoders malfunction.

Video(2)

30 SEC : The security warning (beep sound) will stop in thirty seconds

Reset : Reset to factory setting

⑧ Monitor and Intercom buttons



Monitor output sounds



Intercom function

⑨ Pre-mixer volume control

Mic1~Mic4 : 6.3 Ø Microphone volume knobs, Mic1 has priority to broadcast

Aux1~Aux4 : Adjust Aux1~Aux4 volume. Aux1 is reserved for telephone broadcasting.

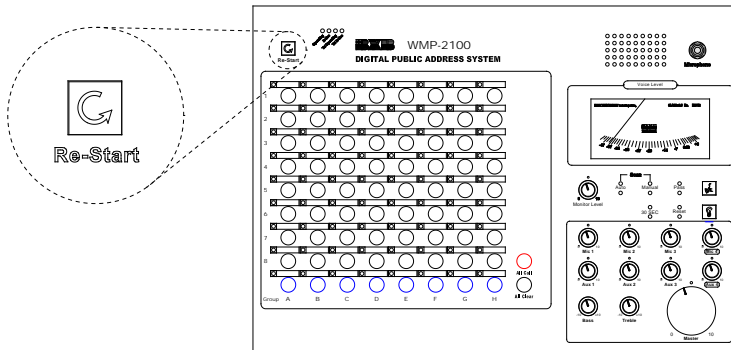
Master : Adjust master volume

Treble : Adjust treble volume

Bass : Adjust bass volume

C. Operate instruction

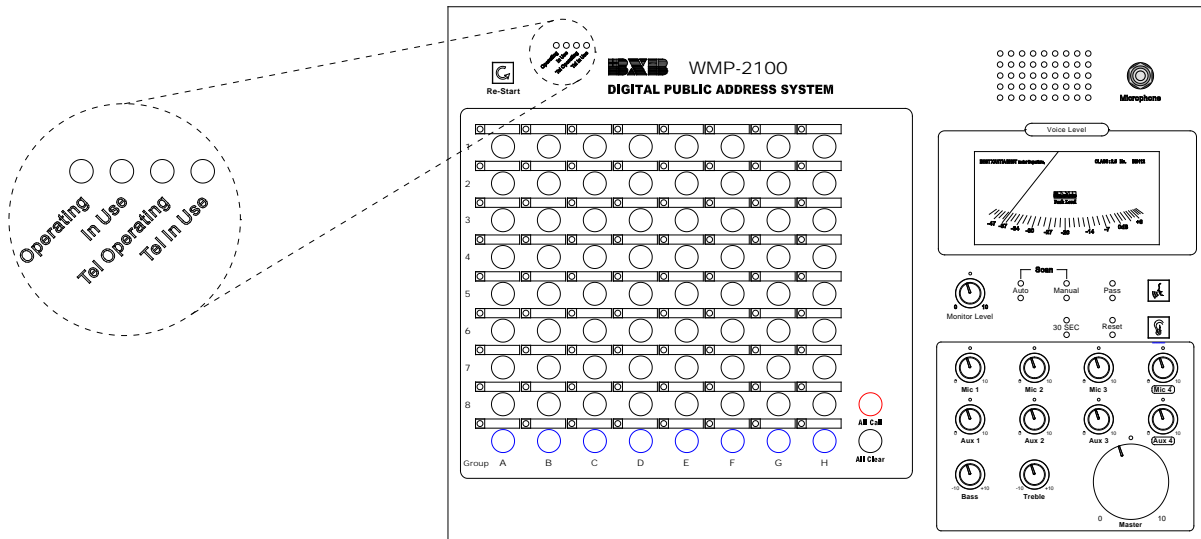
1. Re-Start



- ★ When main control unit malfunction due to unknown reasons, press Re-Start to start again.
- ★ The problem usually results from instable voltage input. Installation of voltage regulator equipment is recommended to prevent the problem.

2. Working status LED indicators

Video



Operating (red) : The main control unit detects signals automatically when pressing any broadcast buttons, including single area, all call ...etc. The LED flashes red if they work properly.

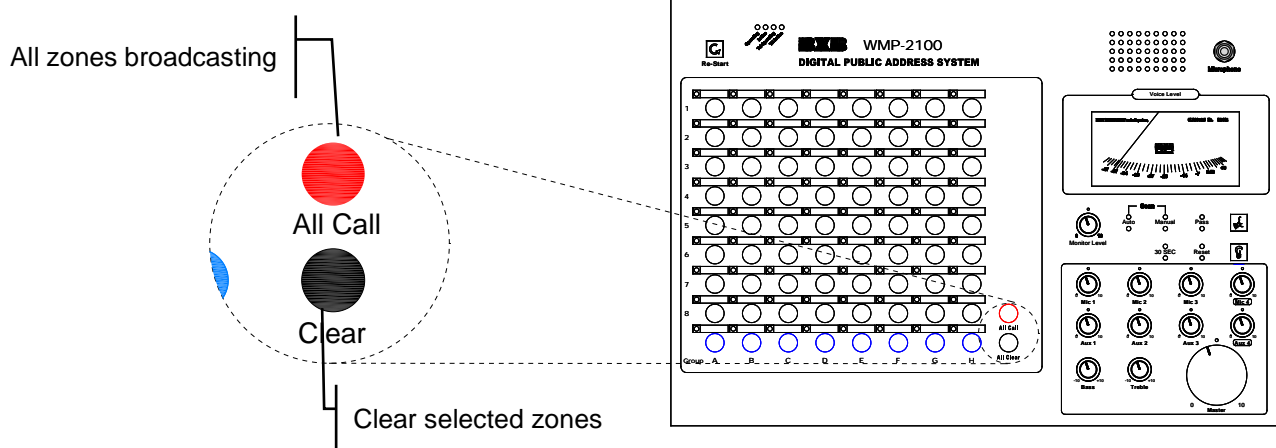
In Use (green) : The LED flashes green either when broadcasting or 8 groups of multi-function are in progress.

Tel Operating (red) : Telephone broadcasting light. “In Use” light flashes green when user picks up telephone. “Tel Operating” flashes red when choosing broadcast areas on keypad.

Tel In Use (red) : After choosing broadcast areas, press # to broadcast. The LED flashes red when phone broadcasting is in progress.

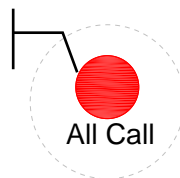
3. All Call and All Clear

Video

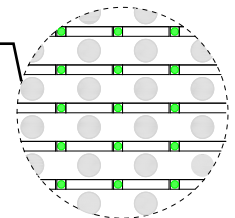


1. Press All Call (red button) to broadcast and all LEDs on the main control unit will turn on and indicate green.

Press the red button **(All Call)**

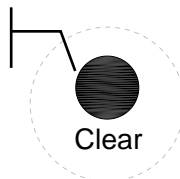


All LEDs will turn on and indicate green

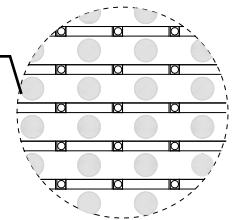


2. Press All Clear (black button) to finish broadcasting. All LEDs will turn off.

Press the black button **(Clear)**

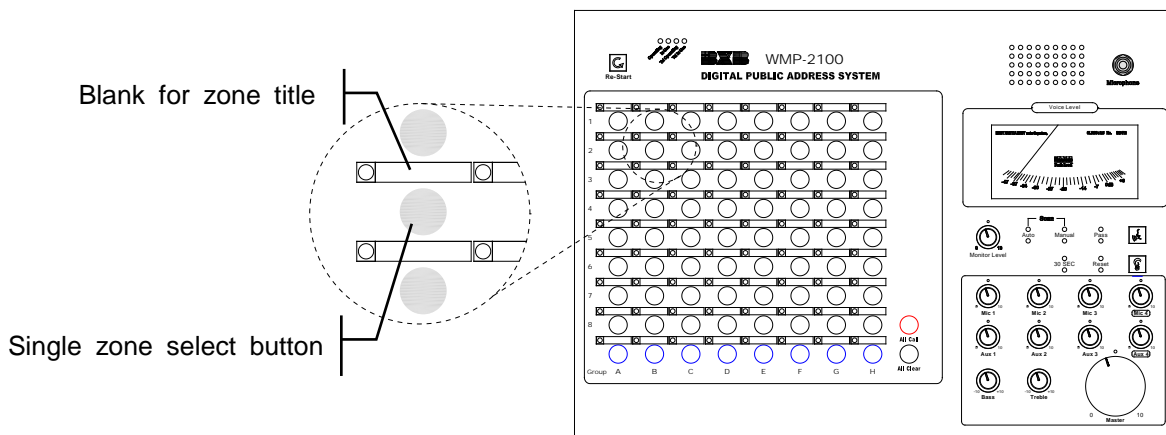


All LEDs will turn off



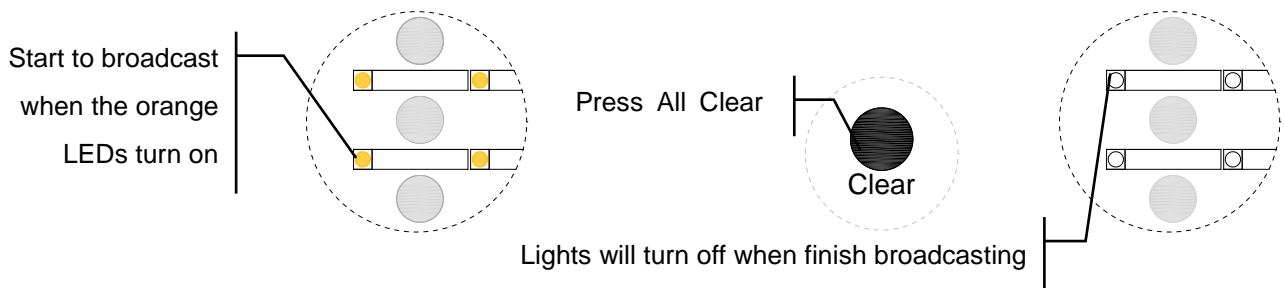
4. Single zone broadcasting

Video



1. Press buttons of preferred zones

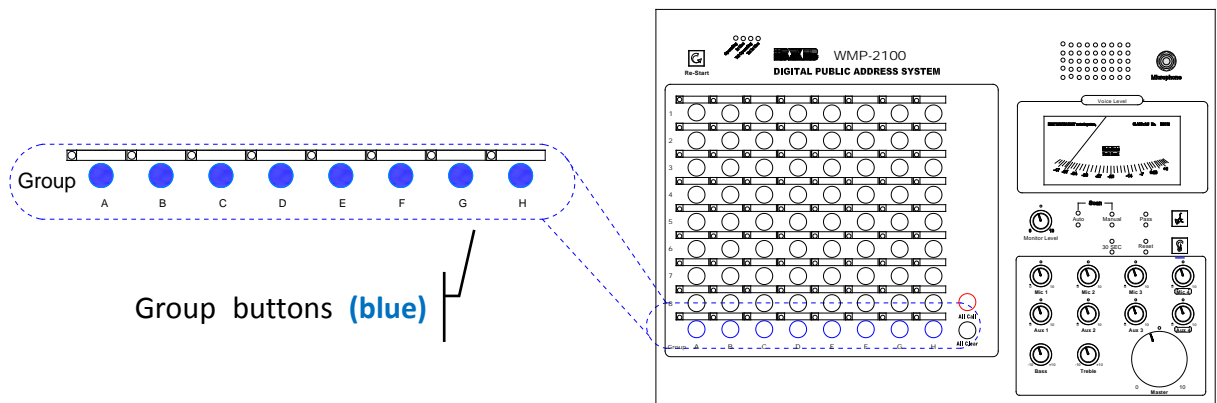
2. Done broadcasting



- Select one or more zones you want to broadcast. You can start broadcasting when LEDs turn on and indicate orange.
 - **Green** : Groups or All Call broadcasting
 - **Orange** : Single zone broadcasting 、 intercom 、 calling status signal
 - **Red** : Access system or Security alarm signal
- Zone number : Main control unit A01~H08 、 Extension control unit 1 A09~H16 、 Extension control unit 2 A10~H24. Upon every button has 4×18 mm blank to stick the zone names.

5. Group broadcasting

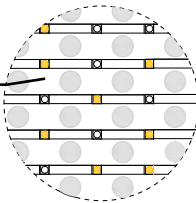
Video



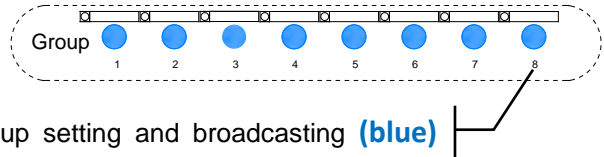
★ Group setting

1. Select zones

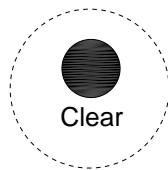
The LEDs will turn on and indicate orange



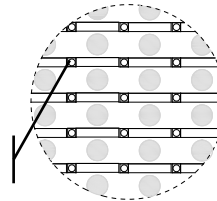
2. Press one blue button for three seconds and you will hear three long beeps.



3. Press clear button to clear the zones (Finish setting by pressing Clear)

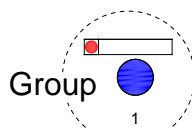


All LEDs will turn off

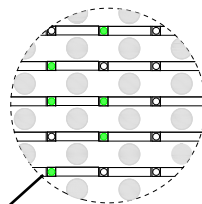


★ Group broadcasting

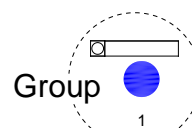
1. Press the presetted group button



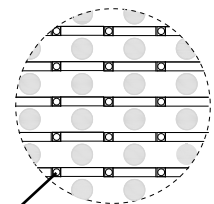
The LEDs will turn on and indicate green



2. Press the group button again to finish broadcasting



Press group button to finish and the LEDs will turn off

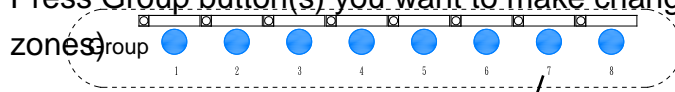


- WMP-2100 supports 8 groups of group broadcasting and every Extension control unit supports 8 groups as well. Therefore, you can have 24 groups at most. Please refer to instructions above for group setting.
- The groups are named in alphabetical order (from left to right):
Main control unit starts from A to H (1~8 groups) ; 1st extension control unit starts from A to H (9~16 groups), 2nd extension control unit starts from A to H (17~24 groups). When broadcasting, press the presented group button to start.

6. Reset groups

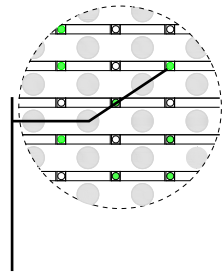
Video

1. Press Group button(s) you want to make changes. (add/remove zones)



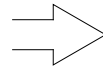
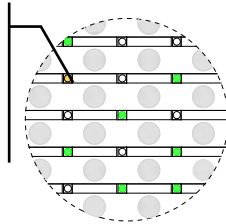
Groups broadcasting/ setting (blue)

Preset zone LEDs will turn on and indicate green

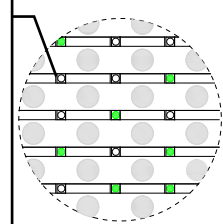


2. Select the zones which you want to remove

When being pressed the first time, the LED will turn on and indicate orange to reconfirm

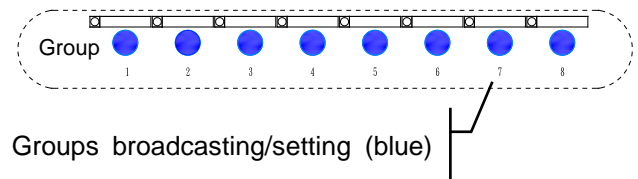
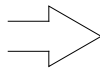
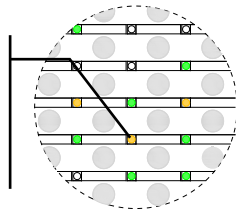


When being pressed the second time, the LED will turn off, shows the zone has been removed



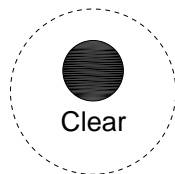
3. Select the desired zones to add in. Then press the group button for three seconds. You will hear three long beeps.

The LEDs will turn on and indicate orange

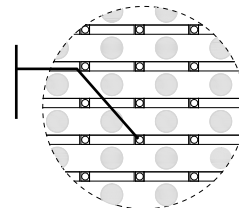


Groups broadcasting/setting (blue)

4. Press “All Clear” to finish setting and all LEDs will turn off



All LED will turn off



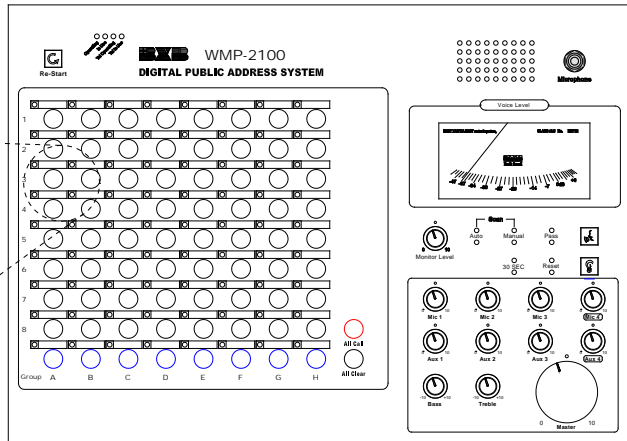
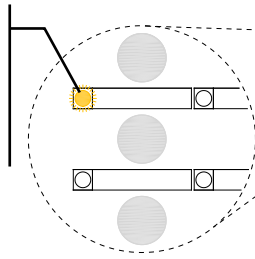
- There is no need to reset control unit when add/remove zones from the groups. You can add/remove as many times as you need.
- When broadcasting, simply press preset group buttons to start.

7. Monitor and Intercom function

Video

Select single zone to enable intercom

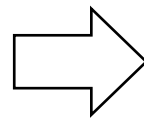
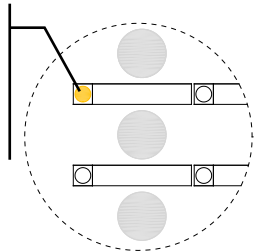
Intercom is enabled when the LED turns on and indicates orange.



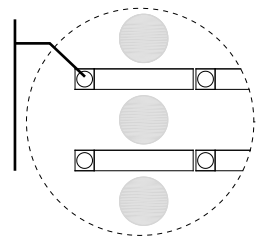
1. Select the desired zone to enable





2. Press the same zone again to disable intercom

Intercom is enabled when the LED turns on and indicates orange.

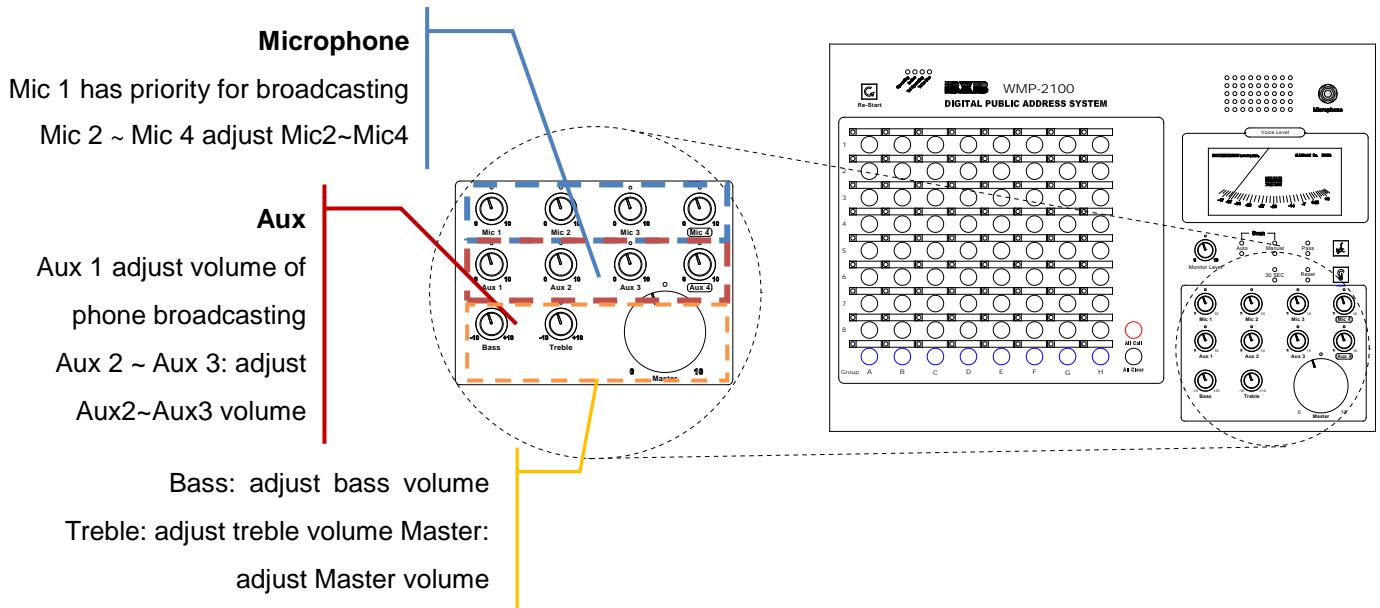


Intercom is disabled as LED turns off



1. Press  and it will light up orange. Select the desired zone to enable intercom and the green LED will be on  simultaneously. Press again to disable intercom and the light will be off. Press  to enable monitoring (ex: MIC, CD, Tape) and it will light up orange. To disable monitoring, press  again and the light will be off.
2. Monitor and intercom functions can be played by built-in speaker. The volume can be adjusted by "Monitor Level" .

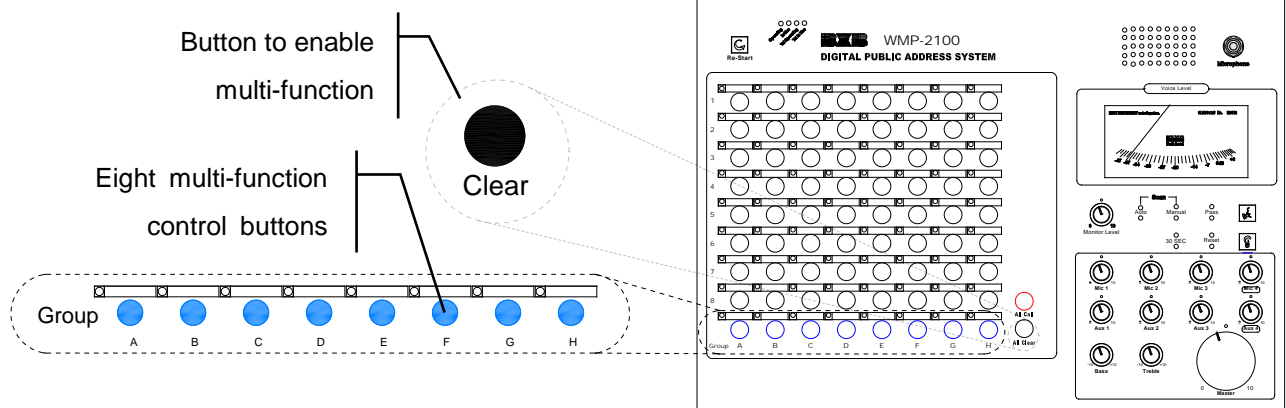
8. Pre-mixer volume control



- Control microphone volume
 - a. Adjust Mic1~Mic4 volume
 - b. Mic 1 has priority for broadcasting
 - c. Mic 4: volume adjustment for Mic 4 (both front panel and rear panel).
- Aux 1 is for adjusting phone broadcasting volume. Aux 2~Aux 4 are for adjusting Aux2~Aux4 volume.
- Bass : adjust bass volume ; Treble : adjust treble volume
- Master : adjust Master volume

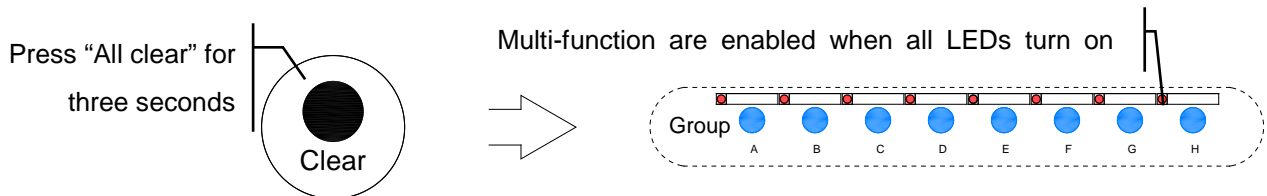
9. Multi-function operating

Video

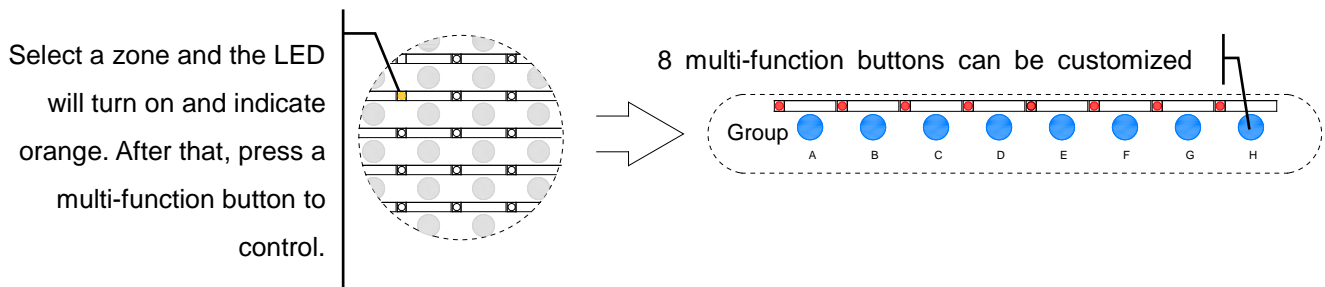


These 8 multi-function buttons control remote equipments, such as turning on/off projector, PTZ (pan/tilt/zoom) of a video camera and light switching...etc. Instructions are shown as below:

- ★ Press All Clear for three seconds and the LEDs on 8 blue buttons will turn on



- ★ Select a desired zone to control by pressing one of the blue multi-function buttons



- Only one area is allowed to be controlled at a time (the last selected is the area to be controlled.)
We highly recommend clearing the present area before controlling the next area.
- Press All Clear for three seconds and wait until all LEDs turn off to disable the multi-function.

10. Identification and Solution for Remote Call back

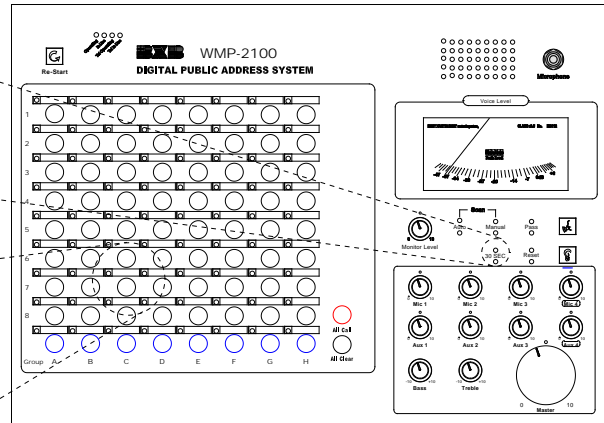
Video

1. When remote call back button is pressed

When 30 SEC is activated, call back signal will stop in 30 seconds

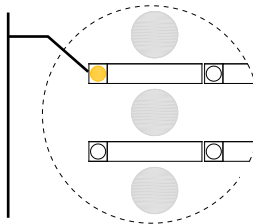
Calling zone LED will be flashing orange with rapid beeps while remote call back button is activated

30 SEC



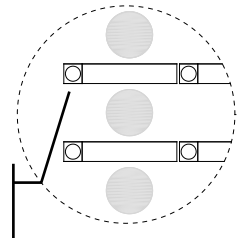
2. When pressing the button with flashing LED

The beeps will stop and orange LED will stop flashing. You can speak with remote person at this time.



3. Press the same button to finish

Finish intercom as LED turns off



To provide request information of intercom/ call for help, a return call signal is transmitted by remote decoder to main control unit. The instruction as below:

1. The remote decoder transmits a requested signal to main control unit as remote call button is pressed.
2. The LED upon the triggered zone on main control unit will be flashing orange with rapid beeps.
3. Press the requested zone button on main control unit to enable intercom.

Call back signal will stop in 30 seconds when this function is enabled.

30 SEC

Addition

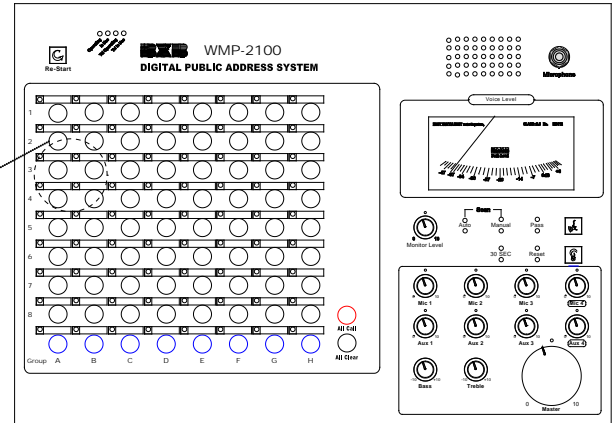
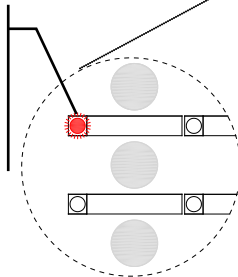
You can also set up the unit to stop beeping in 30 seconds automatically when remote zone call back is enabled.

11. Security Alarm

Video

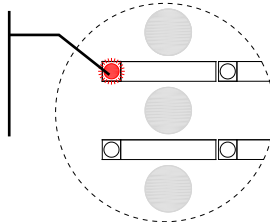
1. When security alarm is triggered

The LED of the zone will be flashing red and you can hear rapid beeps

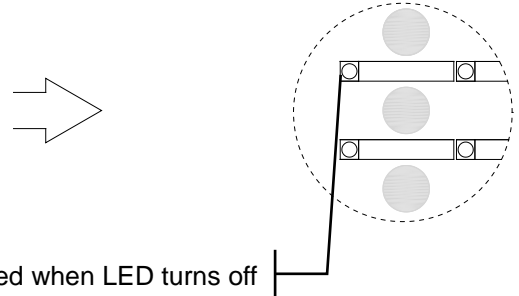


2. Enable monitor/ deterrence by pressing the triggered zone

Red LED will keep flashing while the beeps stop



3. Press the same zone again to cancel



The alarm is canceled when LED turns off

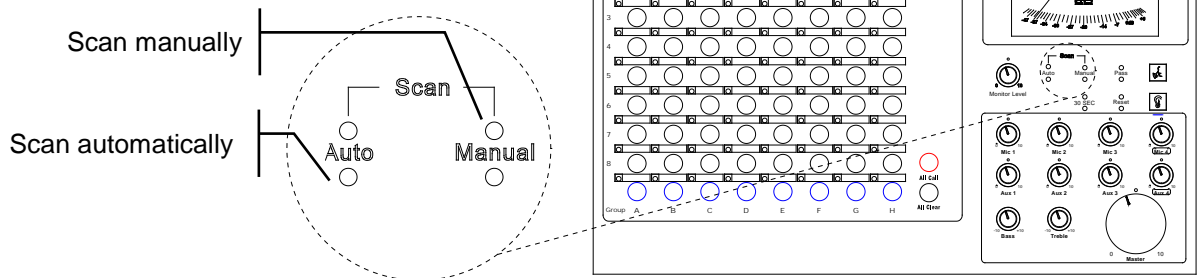
Remote zones are capable to be integrated with infrared modules or electronic magnetic locks to build sets of security alarms. The instructions are shown as below.

1. When any remote zone is broken in, the remote decoder will transmit security signal to the main control unit.
2. The LED of the zone will be flashing red with rapid warning beeps
3. Press the zone (white button) on main control unit to implement monitoring or determent.
4. To disable security signal, press the same zone again.

12. Scan remote status

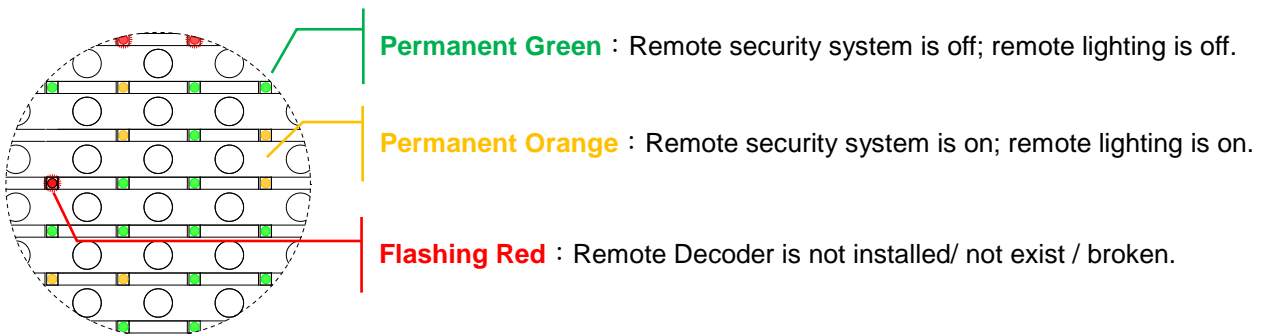
Video

★ Auto and Manual scan



Manual scan : LED will turn on when enabled. Meanwhile, you will hear one long and five short beeps. N.C. status of remote decoder will be shown when pressing any zone. To cancel, press Manual (LED will turn off) to return to normal mode.

Auto scan : LED will turn on when enabled. Meanwhile, you will hear one long and four short beeps. 192 remote decoders and N.C status will be automatically be scanned and shown. While scanning, rapid beeps will be played. To cancel, press Auto (LED will turn off) to return to normal mode.



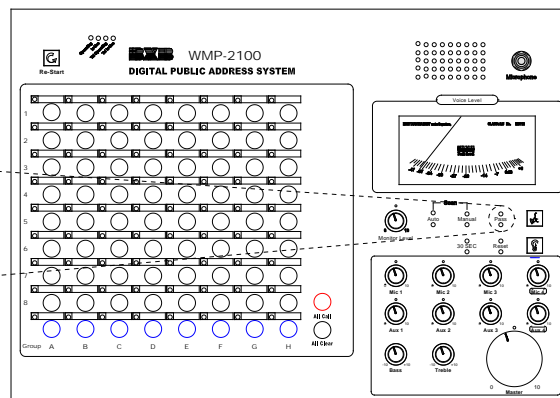
Through this function the unit can detect and show status of remote zones. For example, to examine whether remote security system or lighting is on/off; to remotely switch on/off lighting or activate/deactivate security system.

13. Emergent Broadcasting backup system

Video

Press Pass (LED will turn on) to broadcast to all areas when main control unit malfunctions due to unknown reasons.

Pass



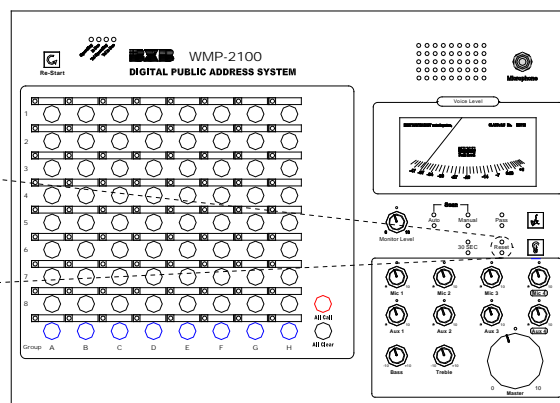
This function is to deal with malfunction result from being struck by lightning or other unknown reasons. By pressing Pass, you can broadcast to all.

14. Reset

Video

Reset all setting to factory setting

Reset



The LED on Reset button will be flashing for about six seconds. You can hear one long and two short beeps and then rapid beeps to show that the Main control unit is rested to factory setting (the LED will turn off)

15. Telephone broadcasting

Video

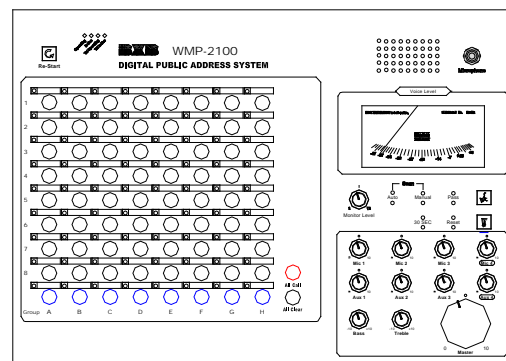
Single zone Table

It's available for telephone to broadcasting to single zone, groups or All zones. The process is shown as below:

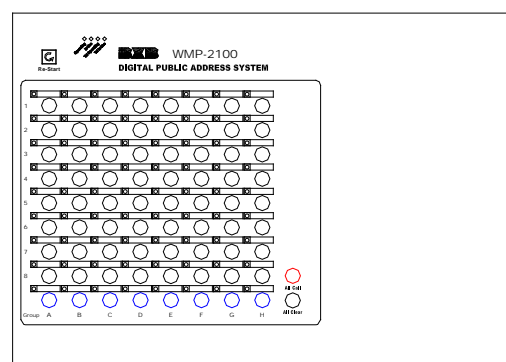
1. Select available line from the PSTN (public switched telephone network)/ Dial designated line code on the phone. As pressing the key which represents telephone broadcasting, WMP-2100 will be turned on.
2. Press the numbers of desired zones or group. It's available from single zone, group, or all call. (Press " * " key to clear incorrect code and re-enter; previous selected areas will not be canceled.)
3. After selecting the zones and press (#), you are ready to broadcast (the chime will be played prior to broadcasting).
4. When finish broadcasting, simply hang up the phone and you will hear the chime again. After that, WMP-2100 will be turned off.

Telephone broadcasting table:

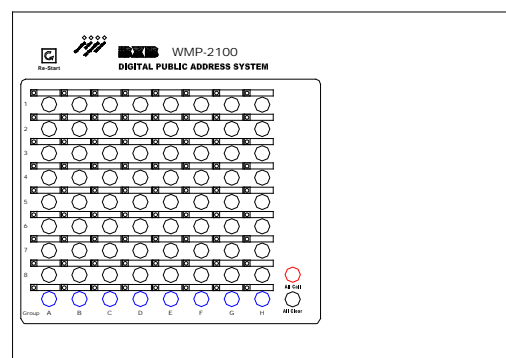
101 201 301 401 501 601 701 801
 102 202 302 402 502 602 702 802
 103 203 303 403 503 603 703 803
 104 204 304 404 504 604 704 804
 105 205 305 405 505 605 705 805
 106 206 306 406 506 606 706 806
 107 207 307 407 507 607 707 807
 108 208 308 408 508 608 708 808



109 209 309 409 509 609 709 809
 110 210 310 410 510 610 710 810
 111 211 311 411 511 611 711 811
 112 212 312 412 512 612 712 812
 113 213 313 413 513 613 713 813
 114 214 314 414 514 614 714 814
 115 215 315 415 515 615 715 815
 116 216 316 416 516 616 716 816



117 217 317 417 517 617 717 817
 118 218 318 418 518 618 718 818
 119 219 319 419 519 619 719 819
 120 220 320 420 520 620 720 820
 121 221 321 421 521 621 721 821
 122 222 322 422 522 622 722 822
 123 223 323 423 523 623 723 823
 124 224 324 424 524 624 724 824



16. Group broadcasting table

Video

Press 999⇒ All 192 zones are on 〈 ALL CALL 〉

Press 000⇒ Clear all the areas on the control units

Video

Press (*)⇒ Cancel the incomplete number but not limited to correct combination you have entered.

Groups broadcasting table :

Groups	Enable groups	Disable groups
1 st Group	901	001
2 nd Group	902	002
3 rd Group	903	003
4 th Group	904	004
5 th Group	905	005
6 th Group	906	006
7 th Group	907	007
8 th Group	908	008
9 th Group	909	009
10 th Group	910	010
11 th Group	911	011
12 th Group	912	012
13 th Group	913	013
14 th Group	914	014
15 th Group	915	015
16 th Group	916	016
17 th Group	917	017
18 th Group	918	018
19 th Group	919	019
20 th Group	920	020
21 st Group	921	021
22 nd Group	922	022
23 rd Group	923	023
24 th Group	924	024

★Notice : Please press “#” after entering the combinations for broadcasting; otherwise the channels of voice will not be outputted.