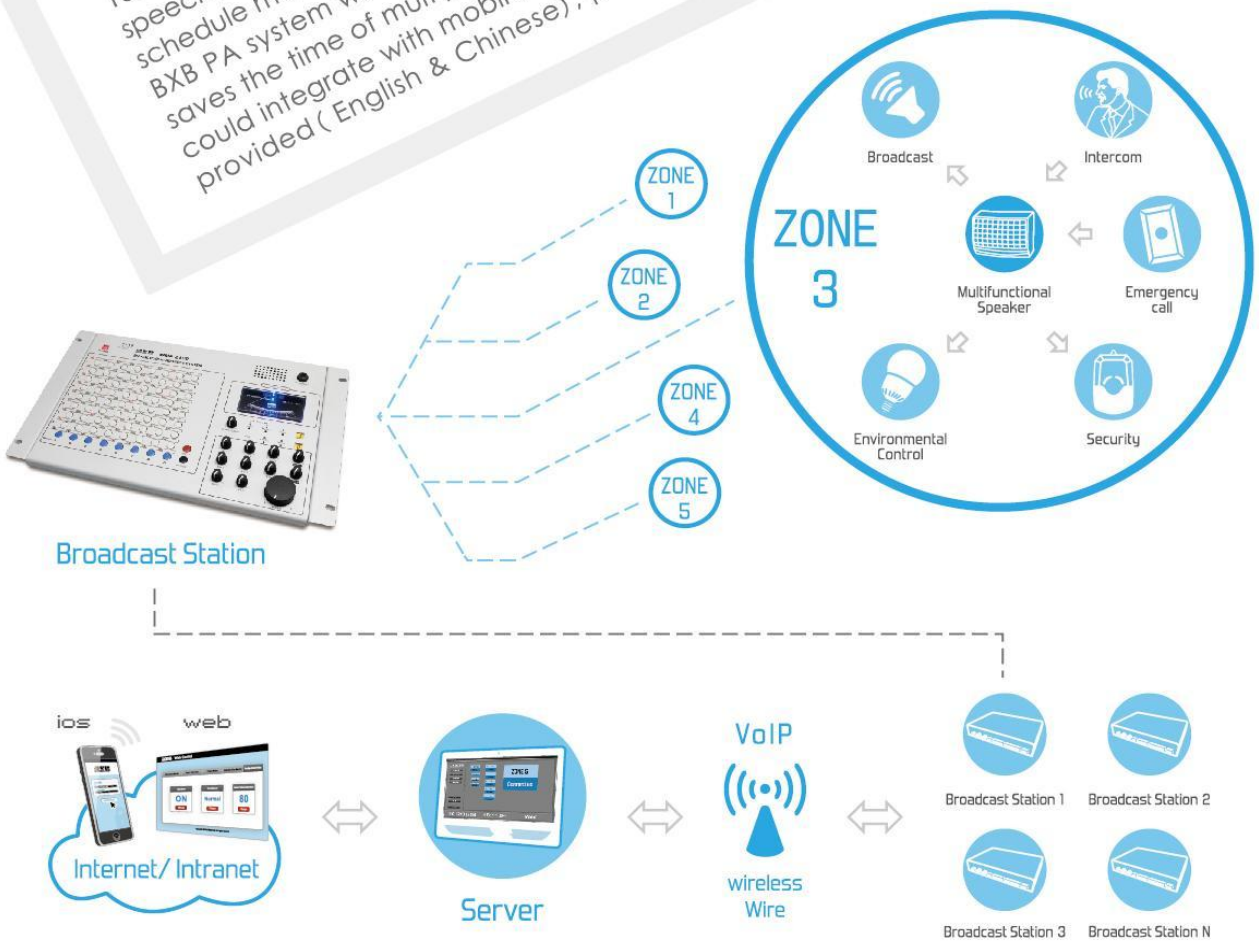
OPS SERIES

PA Security Integration System BXB PA software has a technique breakthrough! Text - to - speech was imported in the new software; it converts inputted text into speech, making the system even more user - friendly. Take timer clock as an example, schedule manager could simply text broadcast content in the software beforehand, BXB PA system will broadcast the text automatically when specific time arrives. It saves the time of multiple recording and playing. What's even better, the software could integrate with mobile devices, facilitates timely broadcast. 2 languages are provided (English & Chinese) , pitch, speed, and circumflex can also be tuned.



BXB Electronics Co., Ltd.

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BXB’ s DPS (Digital PA System) provides smart integration of school broadcasting and equipment control. It includes main functions as below:

Environmental-friendly Addressable PA

Due to society’ s emphasis on teaching quality and community tranquility, traditional PA system could not satisfy the recent demands. Therefore, multi-functional addressable PA is designed for the needs. The products of this system can execute addressable PA and two-way intercom at specified zones or places such as classrooms, administrative offices, corridors, library, play ground, and activity center. It effectively avoids other zones affected by the PA sound.

Language Listening Comprehension Exam

To satisfy the demands of bilingual/multi-lingual teaching, this system is able to distribute audio sources and then broadcast language listening materials to different grades of students. Therefore, during the break time and activity, students could naturally learn languages. By usual listening and recitation, it enhances student’ s learning interest and culture literacy. The system can also execute language listening comprehension exam, broadcasting different exam contents to different grades of students.

Text-to-Speech (TTS) Broadcasting

Users can type Chinese/English texts (ex., an article or a passage of policy) in advance. The system would transform the texts into audio output. There’ s no recording needed, which saves labor and time cost. Regarding the audio output, users can choose male/female voice and adjust the volume, speed, tone, and modulation. Working with auto-play mode, users can set the time schedule in advance, which simplifies the operation.

Music, Audio Messages, and Class Bell Auto-Play

The specific time clock or daily music clock such as class bell, daily routine, and any background music can be auto-played on time by the programmable play system or any connected PC of the campus. It saves more time and omits complicated operations.

Internet Control

This system is digital constructed. Users can use the present network and PC on the campus to execute single-zone/group/all-zone PA. After finishing PA, the image of graphical control interface can be hidden in the tool bar at the right-down of PC' s desktop, which wouldn' t affect the present operation status of PC.

Teaching in the Classroom

Teaching speakers can be wall-hanged in the classroom. The microphone pre-panel can be fixed near the blackboard. Teachers just plug in the handheld microphone into the panel and then the teaching speakers would be auto-on; pull out it would be auto-off. It' s also equipped with mixer to solve the problem that broadcasting and teaching audio output are working simultaneously.

Extensive Functions

Emergency Call System (Anti-bullying)

Student' s personal safety at school is always highly concerned. This system can integrate with emergency call button installed at restroom or the dead corner. When students are in danger, the signal of emergency call button would be transferred back to the PA control unit. The position of students would be indicated and then the alarming flash speaker would be activated for hindering the suspect at the first time to decrease the harm.

Door Access & Security System

There' re more and more e-learning teaching equipment installed at school. Therefore, door access and security system can be greatly important to protect the school' s property. The system can work with guard equipment. The signal from the remote decoder would be transferred back to the PA control unit. The signal can also be recorded, saved, and printed out for information retrieval in the future.

Two-way Intercom System

The PA control unit is equipped with 1 set two-way intercom signal input, 5W monitor speaker, monitor amplifier, and volume control knob. Administrator can hear the PA

sound via the monitor speaker. The two-way intercom interface can be installed in the classrooms. Administrator can select single zone or multiple zones from the PA control unit to execute two-way intercommunication. Within 7M distance with the remote intercom decoder, the sound can be received clearly.



BXB DPS WMP-2100 Product Cheat Sheet

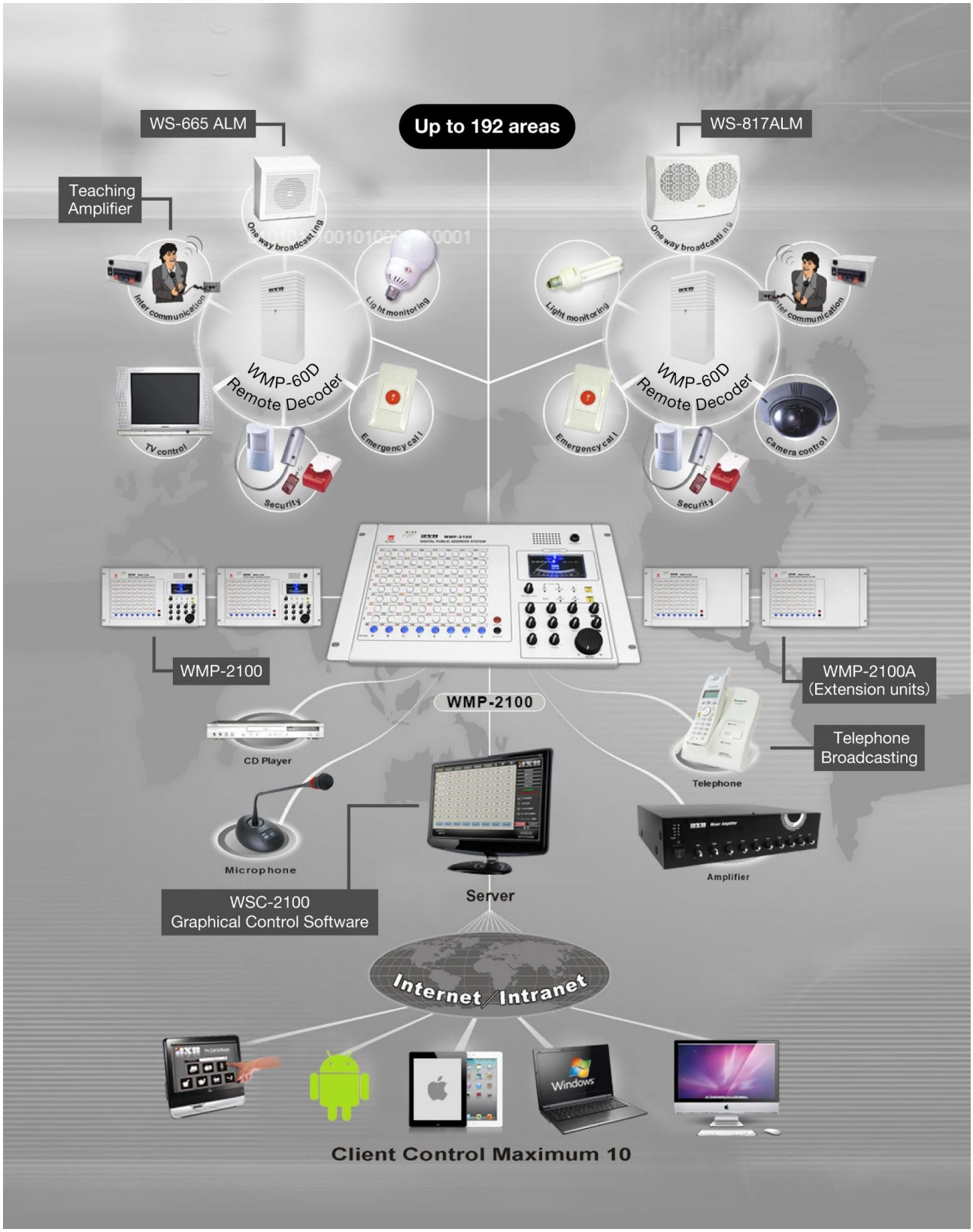
No.	Item	Model	Price	Qty.
1	Multi-functional PA Control Unit	WMP-2100 (64 zones)		
2	PA Extension Control Unit	WMP-2100A (64 zones)		
3	PA Graphical Control Software	WSC-2100 (including music, audio messages, class bell auto-play, time schedule setting, and TTS broadcasting setting)		

4-1	Remote Decoder (equipped with CALL BACK/Door Access Trigger Contact)	WMP-60 (control item 5-9 speakers for addressable broadcasting; the qty is based on the zone qty).		
4-2	Remote Decoder With Intercom Module (equipped with CALL BACK/Door Access Trigger Contact)	WMP-60DC (control item 5-9 speakers for addressable broadcasting and intercommunication).		
4-3	Audio Input Switch	WMP-4I		
5-1	Teaching Speaker	WS-665ALM (single speaker box, for campus broadcasting and teaching)		
5-2	Teaching Speaker	WS-817ALM (two speaker boxes, for campus broadcasting and teaching)		
6-1	Wall Speaker (for any places)	WS-665T		
6-2	Wall Speaker	WS-817TL (two-way speaker)		
6-3	Pedant-ball Speaker	WS-651TR (with U-shaped rack for fixing on the wall)		
7-1	Ceiling Speaker (can be installed	WS-801T (8” full-range integrally formed ABS		

	on the ceiling with T-Grid)	ceiling speaker)		
7-2	Ceiling Speaker	WS-100T (6.5" full-range integrally formed ABS ceiling speaker)		
7-3	Ceiling Speaker	WS-802T (8" low unit, 2" high unit, two-way)		
8	Weather-proof Speaker (applicable at outdoor garden, parking lot, and corridor)	AWS-6502(6.5" low unit and 1.25" high unit, two-way speaker) Arc-shaped outlook		
9	Outdoor Horn Speaker	WS-1650T (16", 50W)		
10	PA Amplifier	PAB-635(400W) PA-5120PQ (120W) PA-5120P2(250W)		
11	Table-top Music Microphone	CTM-02		
12	Dynamic Hand-held Microphone	WM-388 WM-585		
13	Power Control Unit	PSC-A122		
14	Extension Power Supply for PA	EPS-P081 (if the zone qty is over 40 (40 decoders), 1		

		extension power supply is needed, and so forth)		
15	Flash Speaker	WS-335T (worked with WMP-60 decoder for triggering/clearing CALL BACK signal)		
16	Emergency Call Button	ECB-002		
17	Other related accessories	6W Speaker Volume Controller (WZ-6E) can be used at working offices. 30W Speaker Volume Controller (WZ-30E)		
		Wireless Microphone Set Please purchase by yourself.		
		DVD player, FM/AM tuner, 19" standard cabinet, and other accessories. Please purchase by yourself.		
18	Main Cable	7C+1 (shield wires)		
19	Speaker Cable	Please calculate the length by yourself.		
20	Hardware Parts	Please estimate the items by yourself.		
21	Cabling and Installation	Please estimate the cost by yourself.		

System Structure of DPS



Equipment at the Server

(National Tainan Girls' Senior High School)



Product Specifications and Functions

1. Digital Multi-functional PA Control Unit (WMP-2100)



1. Applied with digital decoding transmission, it’ s connected with PVC control cable (7+1 cores) and addressable control decoders. For the extension in the future, just cut off the cable and connect more equipment without distributing cables to the control unit again.
2. To consider the durability and intuitive operation, it’ s the panel with keys that can control single zone, multiple zones, groups, and all zones.
3. The panel is equipped with 64 keys for single-zone (extensible to 128 zones), 8 keys for group PA (extensible to 24 groups), 1 all-call key, and 1 clear key. The bottom of each key has a space for labeling.
4. Each key is equipped with 3-color LED indicator (green/orange/red). The color individually indicates the recent operation statuses: general PA (green), two-way intercom and emergency call (orange), and door access (red).
5. Group keys are equipped with programmable memory. Users can randomly set or change the group setting and then save it. The system can also be reset for returning to the default setting.
6. Equipped with 8CH mixer, 8 sets of volume control knobs, 1 set of treble/bass knob, and 1 Master volume control knob.
7. Equipped with monitor and two-way intercom function.

8. Equipped with all-zone and specified-zone external trigger contacts, other brands of music clock can execute the triggering automatically.
9. Equipped with main power control, it can control the power of all amplifiers.
10. Equipped with power indicator, decoding indicator (glittering as the system is decoding), telephone PA indicator, and volume output indicator (blue light), it facilitates users recognizing system' s using status and volume.
11. Equipped with 4 sets of individual control: a. keyboard; b. telephone PA; c. external triggering; d. music and audio play.
12. The indicator light of each key turns on based on the priority of the recent status: guarding signal (red), two-way intercom and CALL-BACK signal (orange), general PA signal (green). Although guarding and CALL BACK signal are triggered first, group PA and all-zone PA can still be executed without interfered with each other.
13. Equipped with telephone PA interface: apply general telephone or telephone exchange and then broadcast to single-zone/group/all zones with any extension phone. Before executing broadcasting, cue tones would be activated
14. Equipped with two-way transmission and reception function: it can recognize the CALL BACK signal from decoders such as intercom, emergency call, and door access. The 3-color indicator light of each zone would shine and make different tones based on system statuses. Users can also set 30 seconds for auto-clearing the CALL BACK signal.
15. Equipped with 8 sets of multi-functional control keys for controlling the 8-set external triggering contacts of each remote decoder.
16. It can auto-scan the connection status of remote decoders. Users could check the status of decoders from the keyboard on the panel.
17. Equipped with 1 set of RJ45 connector for connecting more control units.
18. Equipped with 1 set of RS-232 digital control connector to connect with PC for graphical control.
19. AC 100V-230V universal power and DC 24/4A power supply for supplying the power of remote decoders. It' s also equipped with overloading protection mechanism.
20. To be easily put on the table and for intuitive operation, the unit is all-in-one

designed. Its size is 500mm length x 300mm width x 150mm height for fixing in the standard 19" cabinet.

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2. Digital PA Extension Control Unit (WMP-2100A)

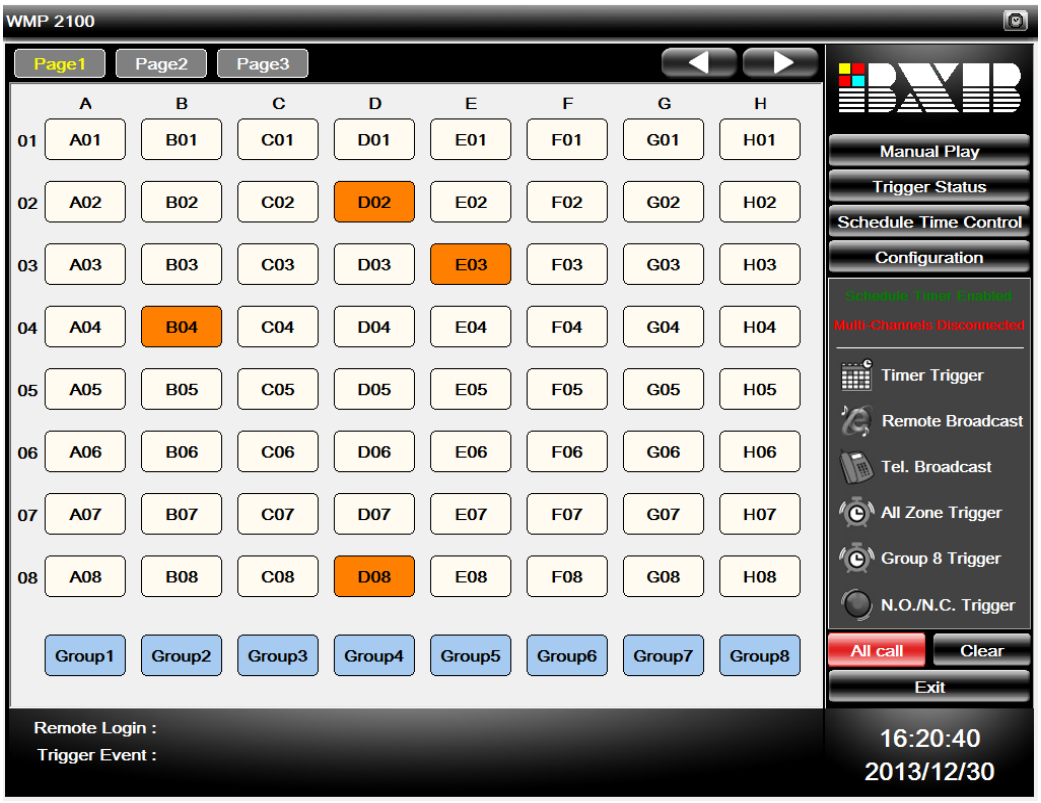


1. Connected with WMP-2100 for addressable two-way PA.
2. To consider the durability and intuitive operation, it' s the panel with keys that can control single zone, multiple zones, groups, and all zones.
3. The panel is equipped with 64 keys for single-zone (extensible to 128 zones), 8 keys for group PA (extensible to 24 groups), 1 all-call key, and 1 clear key. The bottom of each key has a space for labeling.
4. Each key is equipped with 3-color LED indicator (green/orange/red). The color individually indicates the recent operation statuses: general PA (green), two-way intercom and emergency call (orange), and door access (red).
5. Group keys are equipped with programmable memory. Users can randomly set or change the group setting and then save it. The system can also be reset for returning to the default setting.

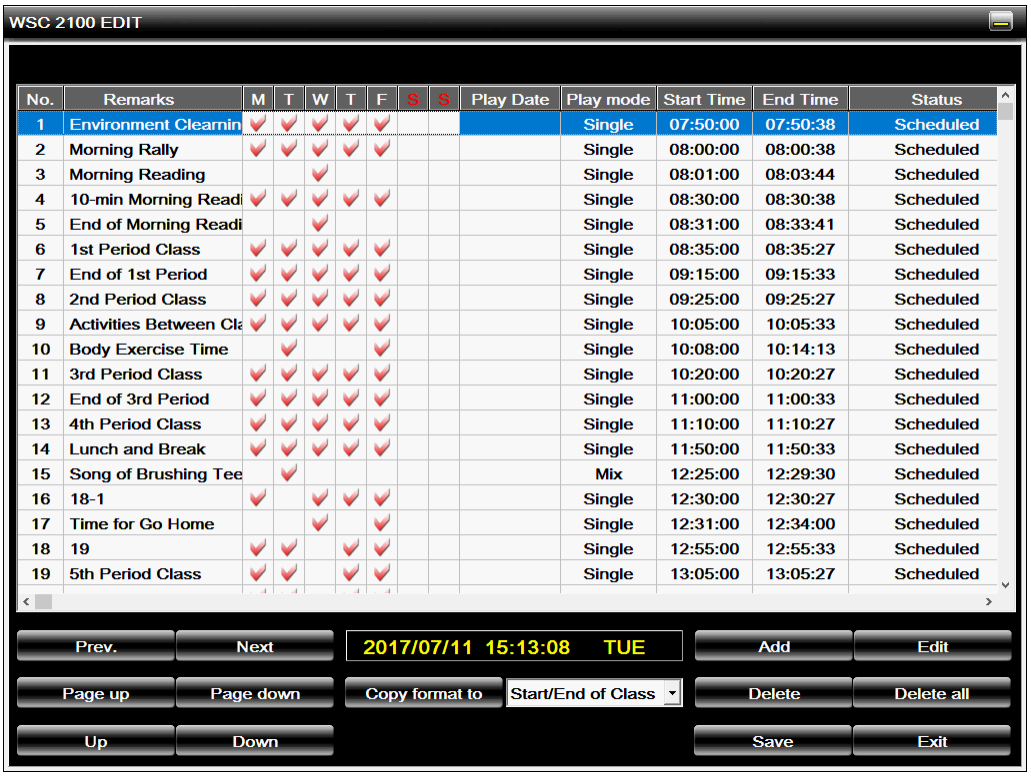
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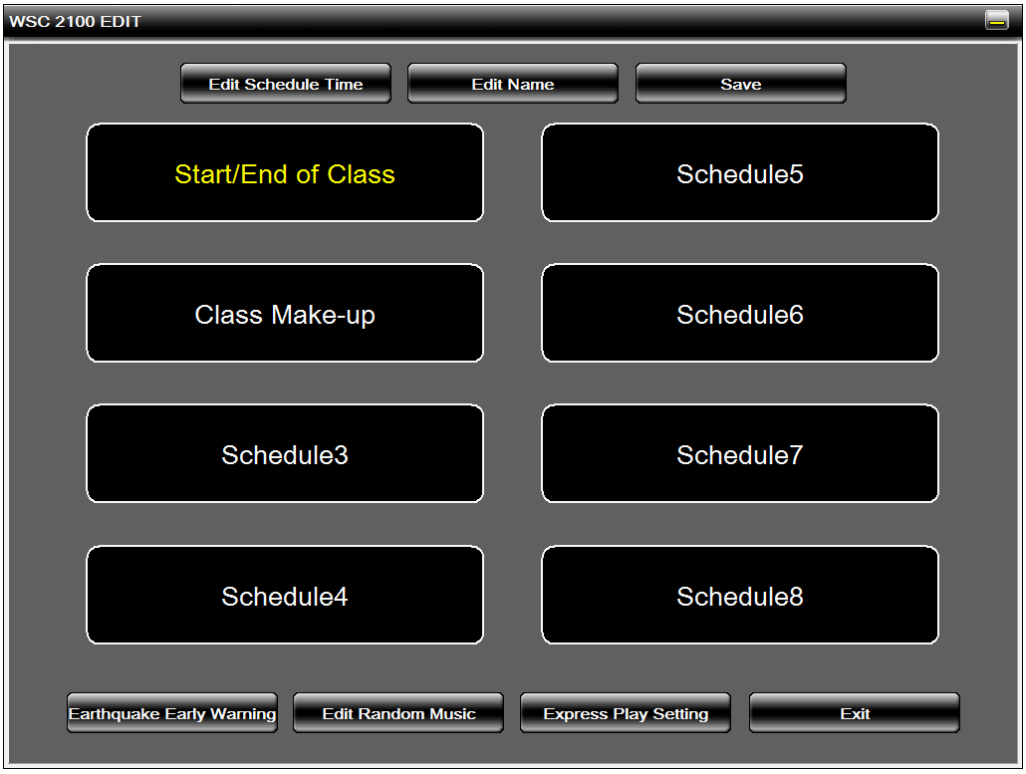
3. WSC-2100 PA Graphical Control Software (including music, audio messages, class bell auto-play, time schedule setting, and TTS broadcasting setting)

Main Interface of WSC-2100



Music and Audio Messages Auto-Play Setting





It possesses 3 versions of software: OPERATE (for server), EDIT, and CLIENT (for remote control).

1. OPERATE Software

(1). Graphically show the operation statues of PA control unit: addressable PA, telephone broadcasting, external triggering, music play, and scan/detection of remote decoders.

(2). Set the distribution of single zones (192 zones), groups (24 groups), all zones, and the name of each zone.

(3). When the emergency call and guarding contacts are triggered, the graphical interface would instantly show their zone name for quick reaction. It would be recorded for future retrieval.

(4). Users can search and print out the previous emergency call and guarding record by location, time, and date. The data can also be transformed into text format for saving in PC' s hard drive.

(5). The warning tone for emergency call and guarding can be auto-played. Users can record the tone in advance and set the playing mode as cycle-play or only

playing at specified zones.

(6). Users can select the audio, music, class bell files and enter texts for TTS directly on the software interface for executing addressable PA.

(7). Users can select anyone of edited time schedules on the software interface directly for instant broadcasting.

(8). Besides time schedule broadcasting to all zones, it can execute single-group or multiple-group broadcasting.

(9). The software interface can show all the operation statuses and time schedules for broadcasting.

2. EDIT Software

(1). Users can self-arrange the distribution of buildings and areas on the software' s interface based on the real scene (over 10 pages for different layouts). Users can also create, move, delete, enlarge, reduce the blocks for setting single-zone and groups as well as change the font size for titling the blocks.

(2). Pre-set various audio files (MP3, Wav, Wma, and so forth) at any time period and date for executing auto-broadcasting for special events, language listening comprehension exam, and so on.

(3). The software is built with 6 kinds of class bells and users can edit 8 sets of playing modes and data for class bell broadcasting, special event announcement, and music-play broadcasting.

(4). The standard class bell can be instead by other kinds of bells, background music, or TTS mode. The auto-play of campus bell can be used for safety reminder, school' s open/close time, morning reading, and reminder of throwing away trash.

(5). Users can set same/different time schedules every day (300 sets of schedules). The schedule' s start time is counted by minute; end time second.

(6). 365 days per year, users can play different audio files every day by setting specific time (year/month/day/hour/minute). The specified schedule can be

also set as the priority of broadcasting.

(7). The total file size for the 8 sets of audio data is based on the capacity of user's PC hard drive.

(8). The volume of each music and audio contents can be pre-set and adjusted (0-100 level). It avoids that the audio output would be badly influenced due to the inconsistent volume of original audio files.

(9). Users can set just a period of music for broadcasting. For instance, there's a 5-minute music file. Users can set the 2:00 part as the start and 4:20 as the end.

(10). Users can set 1-30 pieces of audio files auto-playing continuously.

(11). Users can set 4 sets (400 pieces) of audio files randomly playing.

(12). Users can preset the holiday dates of the year. Therefore, during the holidays the system won't execute broadcasting and class bell, which avoids bothering the nearby residences.

(13). Zone arrangement, zone's name setting, and time schedule arrangement can be edited **off-line** by any PC with Microsoft system. The edited data can be saved in any storage devices.

(14). For language listening comprehension exam and policy propaganda, administrators can type texts (Chinese/English) in advance. As it's the time, the software would automatically transform the texts into audio messages and then transfer the signals to the specified zones. The settings of text-to-speech include:

A. Male/female voice.

B. Rhythms: subjective, objective, original, and manual.

C. The level of volume (0-100 levels), speed, pitch, modulation (soft/impassioned).

D. Maximum character qty for a sentence is 1-50. However, for the entire texts there's no limit.

E. You can set the time schedule for audio + TTS broadcasting.

3. CLIENT Software

(1). The operation interface is the same as SERVER’ s.

(2). Via LAN network on the campus, multiple PCs can be interconnected and controlled as well as executing remote TTS broadcasting and remote control. Just use the PA microphone and then select the zones on the CLIENT graphical interface, the PA signal would be transmitted to the SERVER and then the system would further execute broadcasting.

(3). Users can remote edit the zone name and time schedule for broadcasting and then import/upload the data to the SERVER via Internet.

(4). Users can instantly enter/paste texts on the CLIENT graphical interface. The system would transform the texts into audio messages and then broadcast to specified zones.

(5). Users can select audio files saved in the SERVER to execute instant broadcasting.

4-1. Remote Decoder (WMP-60)



1. Working with WMP-2100 to execute two-way addressable broadcasting.
2. Equipped with DIP switch to set the code for each zone.
3. Users can change the zone’ s code at the SERVER. It avoids the traditional way that users need to change the speaker’ s cable or adjust the DIP switch on the decoders.

4. Equipped with 1 set of 3-color LED indicator light individually showing general PA, two-way intercom, and CALL BACK signal.
5. It can auto-activate PA signals even the system is disconnected/power failure.
6. Equipped with 1 set of emergency call triggering contact which can connect with CALL BACK button. When WMP-2100 receives the signal, the orange indicator light of that zone would glitter and make warning tones to make administrator react.
7. Equipped with 1 set of triggering contact for connecting with guarding equipment. When WMP-2100 receives the signal, the red indicator light of that zone would glitter and make rapider warning tones.
8. Equipped with 1 set of controlling contact for triggering the flash speaker. When the CALL BACK signal is triggered, the flash speaker would be activated to hinder the suspect. Users can clear the sound of flash speaker from the SERVER, decoders, or CLIENT software.
9. The 8 sets of multi-functional control keys on WMP-2100 can also control the extension equipment .
10. It' s able to add two-way communication interface. Users at the remote side can execute two-way intercom hand-free. Within 5M, the sound can be clearly received.

4-2. Remote Decoder with Intercom Module (WMP-60DC)



Equipped with two-way intercom interface

1. Working with WMP-2100 to execute two-way addressable broadcasting.
2. Equipped with DIP switch to set the code for each zone.

3. Users can change the zone’ s code at the SERVER. It avoids the tradition way that users need to change the speaker’ s cable or adjust the DIP switch on the decoders.
4. Equipped with 1 set of 3-color LED indicator light which shows general PA, two-way intercom, and CALL BACK signal individually.
5. It can auto-activate PA signals even the system is disconnected/power failure.
6. Equipped with 1 set of emergency call triggering contact which can connect with CALL BACK button. When WMP-2100 receives the signal, the orange indicator light of that zone would glitter and make warning tones to make administrator react.
7. Equipped with 1 set of triggering contact for connecting with guarding equipment. When WMP-2100 receives the signal, the red indicator light of that zone would glitter and make rapider warning tones.
8. Equipped with 1 set of controlling contact for triggering the flash speaker. When the CALL BACK signal is triggered, the flash speaker would be activated to hinder the suspect. Users can clear the sound of flash speaker from the SERVER, decoders, or CLIENT software.
9. The 8 sets of multi-functional control keys on WMP-2100 can also control the extension equipment .
10. It’ s able to add two-way communication interface. Users at the remote side can execute two-way intercom hand-free. Within 5M, the sound can be clearly received.

4-3. Audio Input Switch (WMP-4I)...For Classrooms



1. 3 sets of audio switch for broadcasting at the same time. For instance, it can broadcast language listening comprehension exam contents to three grades of students simultaneously.
2. Equipped with 3 sets of PA signal input, 3 sets of switches, and 1 set of PA signal output.
3. It should work with remote decoders.

5-1. Teaching Speaker (WS-665ALM)...For Classrooms





WS-665 ALM **(Pre-panel)**

1. Rated input: 10W/8Ω.
2. Speaker unit: full-range 6.5" x 1.
3. Equipped with mixer for teaching and campus broadcasting at the same time.
4. The pre-panel is designed with stainless steel which has 2 sets of input plugs. Users can select one for microphone plug-in, one for AUX input; or both two as microphone inputs. The panel is also equipped with 2 sets of volume control knobs. If the quantity of input plugs is sufficient, 5 sets of panels can work with parallel connection.
5. When any microphone or audio source is plugged into the pre-panel, the power would be automatically on; when pulled out, the power would be off (the panel can be fixed under the center of blackboard for easy use and maintenance).
6. The exterior box of the speaker has AMP power indicator light to easily recognize speaker' s status.

7. ABS material protecting from fire damages.

5-2. Teaching Speaker (WS-817ALM)…For Classroom





WS-817 ALM **(Pre-panel)**

1. Rated input: 20W.
2. Speaker unit: full-range 6.5" x 2 (the two speaker units are put inside the same speaker box to enhance the sound pressure).
3. Equipped with mixer for teaching and campus broadcasting at the same time.
4. The pre-panel is designed with stainless steel which has 2 sets of input plugs. Users can select one for microphone plug-in, one for AUX input; or both two as microphone input. The panel is also equipped with 2 sets of volume control knobs. If the quantity of input plugs is sufficient, 5 sets of panels can work with parallel connection.
5. When any microphone or audio source is plugged into the pre-panel, the power would be automatically on; when pulled out, the power would be off (the panel can be fixed under the center of blackboard for easy use and maintenance).
6. The exterior box of the speaker has AMP power indicator light to easily recognize speaker' s status.
7. ABS material protecting from fire damages.

6-1. One-way Wall Speaker (WS-665T) ...For General PA



1. Speaker unit: full-range 6.5" x 1.
2. Rated input: 10W/8Ω.
3. Sound pressure level: 92dB.
4. Frequency response: 80-15KHZ.
5. ABS material protecting from fire damages.
6. Equipped with PA 100V transformer (2W/4W/6W input).

6-2. Two-way Wall Speaker (WS-817TL)



1. Speaker unit: full-range 6.5" x 2.
2. Rated input: 20W/4Ω.
3. Sound pressure level: 94dB.
4. Frequency response: 80-16KHZ.
5. ABS material protecting from fire damages.
6. Equipped with PA 100V transformer (3W/6W/10W input).

6-3. Pendent-ball Speaker (WS-651TR)...Installing at the Corridors is Suggested



1. Speaker unit: 6.5" full-range unit.
2. Rated input: 15W/8Ω.
3. Sound pressure level: 92dB.
4. Frequency response: 60-18KHZ.
5. Equipped with PA 100V transformer (5W/10W/15W input).
6. ABS (fire-resistant) material which is anti-dust, anti-rust, and waterproof.
7. With U-shaped rack for fixing on the wall. You can randomly adjust the angle of the speaker.

----------7-

1. 8" Ceiling Speaker (WS-801T)



1. Speaker unit: 8" full-ranged unit.
2. Power: 15W/8Ω.
3. Sensitivity: 92dB.
4. Frequency response: 80-15KHZ.
5. ABS (fire-resistant) material.

6. Equipped with PA 100V transformer (2W/4W/6W input).
7. Adopted with round soft clip for fixing, which is safely and easily installed.

7-2. 8" Two-way Ceiling Speaker (WS-802T)

1. Speaker unit: two-way (2" high unit/ 8" low unit with PP material for moisture-proof).
2. Power: 20W/8Ω.
3. Sensitivity: 92dB.
4. Frequency response: 60-20KHZ.
5. ABS (fire-resistant) material.
6. Equipped with PA 100V transformer (2W/4W/6W input).
7. Adopted with round soft clip for fixing, which is safely and easily installed.

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8. Weather-proof Speaker (AWS-6502)... For outdoor garden, parking lot, and other outdoor places



1. Arc-shaped outlook. Equipped with circular-arc 2D rack.
2. Power: 50W/8Ω.
3. Sensitivity: 92dB.
4. Speaker unit: 6.5" low unit with PP material x 1; 1.25" high unit with titanium material x 1.
5. The high-impedance voltage is adjustable: 100V (20W/15W/10W/5W) and 4 sets of input impedance switches.

6. Complied with IP66 waterproof standard.

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9. Outdoor Horn Speaker (WS-1650T)



1. Aluminum and waterproof coating (including U-shaped bracket).
2. Horn diameter: 16” .
3. Frequency response: 200 ~ 12KHZ.
4. Sound pressure level: 100dB (1W/1m).
5. Rated power: 50W/8Ω.
6. Equipped with 100V waterproof transformer and 4 sets of power switch (50W/30W/20W/10W).
7. Complied with IP66 waterproof standard.

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10. Power Amplifier 400W (PA-635)



1. Rated output: MAX 400W.
2. Speaker output: 4-16Ω/70V/100V.
3. Unbalanced output/input: 6.3mm earphone jack x 1 set.
4. Balanced output/input: XLR jack x 1 set and 6.3mm earphone jack x 1 set.

5. Built in with double electronic protection circuit and LED indicator for short circuit and overloading protection.
6. Automatic temperature control to activate the cooling fan.

Mixer Amplifier 120W (PA-5120PQ)



1. Rated output: RMS 120W.
2. Speaker output: 4-16Ω/70V/100V.
3. 5 zones +1 ALL CALL switch.
4. AUX input: 4 sets of individual volume control.
5. MIC input: 4 sets of individual volume control.
6. Equipped with 2 sets of MIC priority buttons for setting broadcasting priority.
7. Recording output: unbalanced, RCA jack.
8. 1 set of EQ IN/EQ OUT port (able to connect with professional mixers or digital sound processors).
9. Built in with double electronic protection circuit and LED indicator for short circuit and overloading protection.
10. Automatic temperature control to activate the cooling fan.

Mixer Amplifier 240W (PA-5120P2)



1. Power supply: AC110V 50/60HZ or DC 24V (equipped with power switch and LED

indicator light.

2. Rated output: RMS 250W.
3. Frequency response: 100-19KHZ.
4. Total harmonic distortion (THD): lower than 1%.
5. Speaker output: 4Ω-16Ω (low impedance); 70V, 100V (high impedance).
6. 5 zones +1 ALL CALL switch. 6 sets of circuit selection buttons (with LED indicator light).
7. Signal input: 8 sets of audio outputs and 8 sets of individual volume control buttons.
8. Microphone input: 600Ω, Φ6.3mm phone jack x 4.
9. Auxiliary audio input: 10kΩ, RCA jack x 4.
10. Equipped with 2 sets of MIC priority buttons for setting broadcasting priority.
11. Recording output: 0dB, 10kΩ, RCA jack x 2.
12. Sound control: bass 100Hz±12dB, treble 12KHz±12dB.
13. Equipped with 1 set of EQ IN/EQ OUT port (able to connect with professional mixers or digital sound processors).
14. Built in with double electronic protection circuit for short circuit and overloading protection.
15. LED indicator light for the volume of audio output.
16. Automatic temperature control to activate the cooling fan.
17. LED indicator light for ON/OFF.
18. Placed in 19" cabinet (1U).

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11. Table-top Music Microphone (CTM-02)



1. Equipped with 43CM gooseneck microphone.
2. Gooseneck microphone is equipped with red LED indicator ring.
3. Equipped with ON/OFF button and indicator light for speaking. There’ re music tones before/after speaking.
4. Aluminum material with non-skid rubber mat.

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12. Dynamic Hand-held Microphone (WM-388)



1. Polar pattern: unidirectional.
2. Sensitivity: -72±3dB.
3. Impedance: 600Ω±30%.
4. Frequency response: 100~10KHZ.
5. The microphone and its cable can be separated.
6. 5M connecting cable.

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13. Power Control Unit (PSC-A122)



1. Power Supply: AC 100V~AC240V; 50/60HZ.
2. 12 sets of AC power outlets that can be automatically turned ON/OFF.
3. 14 sets of three-hole AC power outlets (un-switched AC socket x 2 sets; linked AC

socket x 12 sets).

4. Equipped with 1 set external contact and 1 set voltage-free remote output contact.
5. Max current of each AC power outlet: 15A.
6. Equipped with 1 set AC overload protector with 30A. Max power consumption: 3000W.
7. Placed in 19" cabinet.

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14. Extension Power Supply (EPS-P081)



1. Decoders signal transmission and power enhancement functions.
2. Working with WMP-2100 for power linkage.
3. Power: AC 100V-AC220V (equipped with power indicator light).
4. DC input: DC 12V-24V (supplying power from the SERVER).
5. DC output: DC 22V-26V.
6. Equipped with 1 set of digital decoding signal + DC power + speaker' s PA signal input/output connector.
7. Load capacity and transmission distance: 4A; can connect 50 decoders within 2000M.
8. As WMP-2100 is disconnected or broken down, the switch for output of EPS-P081 would turn on automatically to keep broadcasting working.

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15. Flash Speaker (WM-335T)



1. Operate with ICP-5011 decoder to activate CALL BACK signal.
2. Voltage: DC10-14V.
3. Load Current: 250mA.
4. Super-bright LED flash with sirens.
5. The sound of sirens can be cleared by the main controller or the terminal.

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16. Emergency Call Button (ECB-002)



1. Operate with ICP-5011 decoder to trigger CALL BACK signal
2. ABS material and able to be fixed on the wall
3. Red-color push-button with 4cm diameters to make users easily and quickly press the button.
4. Equipped with 1 LED indicator on the panel. When the CALL BACK signal is activated, the indicator would keep glittering.
5. There' re Chinese and English screen printings showing "Emergency Call" on the panel. The printing is not easy to be scale off.

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17. Volume Controller (WZ-6E)



1. Milky white panel with ABS (fire-resistant) material.
2. Input/output voltage: 100V (with transformer).
3. Watts: 6W.
4. Volume level: 5 levels.

Volume Controller (WZ-30E)

1. Milky white panel with ABS (fire-resistant) material.
2. Input/output voltage: 100V (with transformer).
3. Watts: 6W.
4. Volume level: 5 levels.

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18. Main Cable for PA: 7C + 1 Shield Wires

Covered with white water-proof PVC.

The diameter of 5C wire is 0.75mm; 2C 0.32mm.

The wire is shielded with aluminum foil.

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19. Speaker Cable

The diameter of 2C wire is 1.0mm.