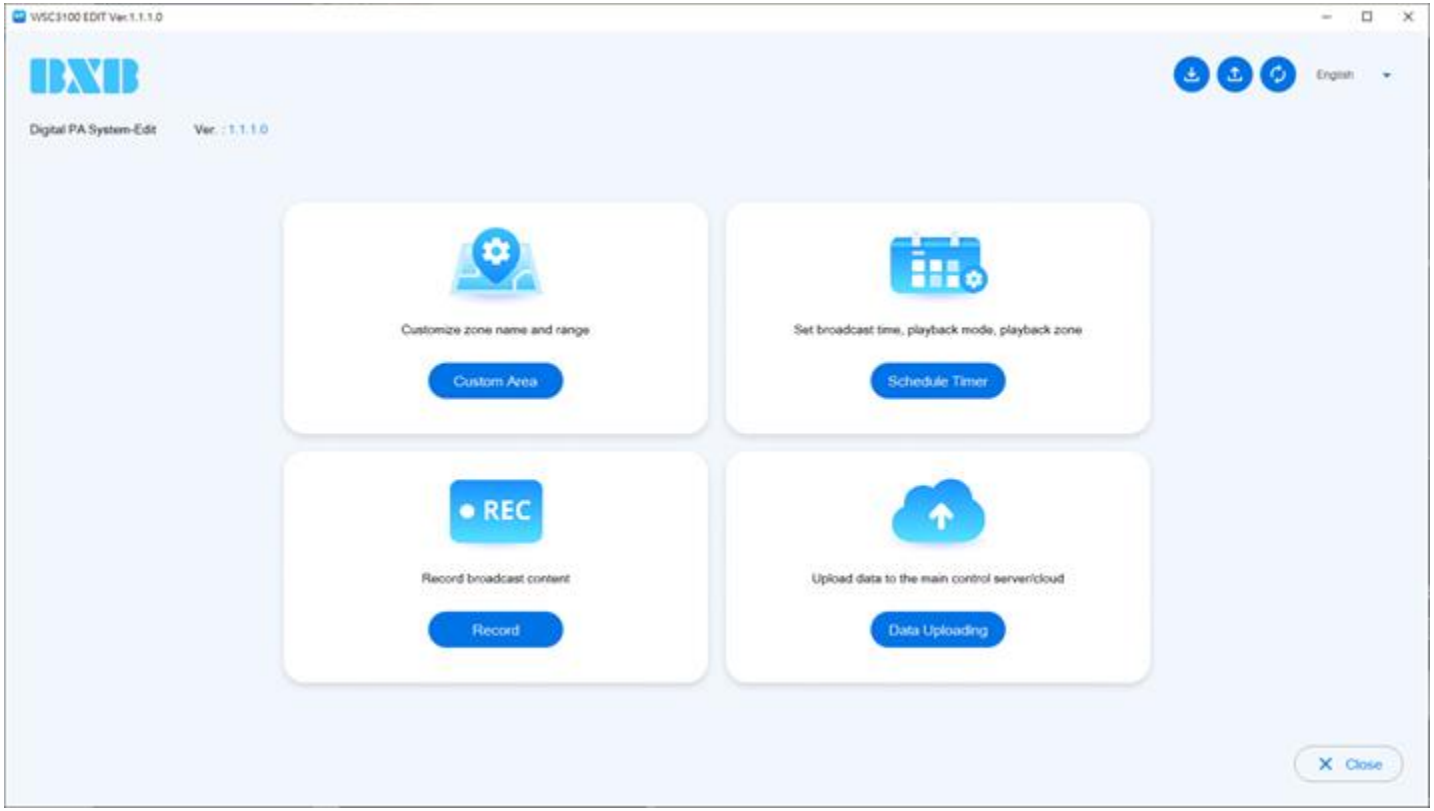
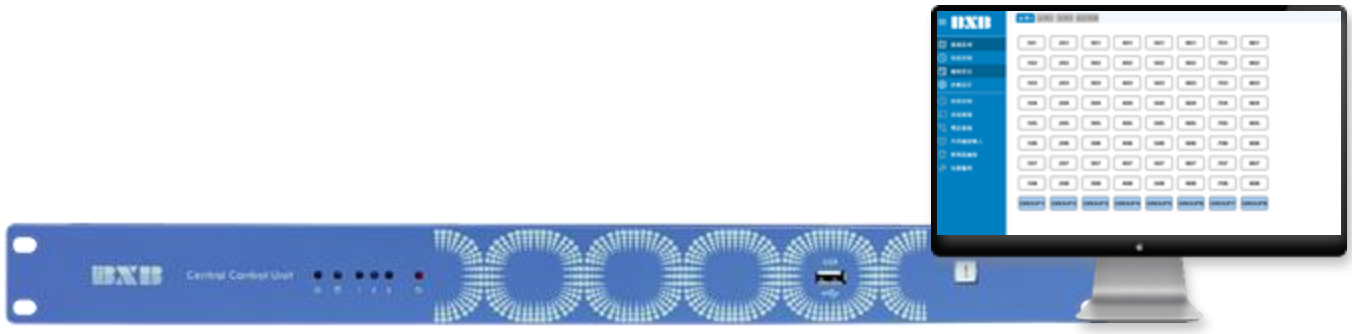
WMP-3100
Digital Addressable PA System

The next-generation BXB WMP-3100 is exceptionally user-friendly, complemented by an intuitive graphical control software. It seamlessly facilitates real-time public broadcasting, music bells, access control, emergency evacuation, and more. With recording capabilities and Text-to-Speech (TTS) functionality for pre-recorded content, you no longer need to run back and forth to the control room. The WMP-3100 can precisely execute tasks on schedule, ensuring convenience and efficiency in installation, operation, and usage!

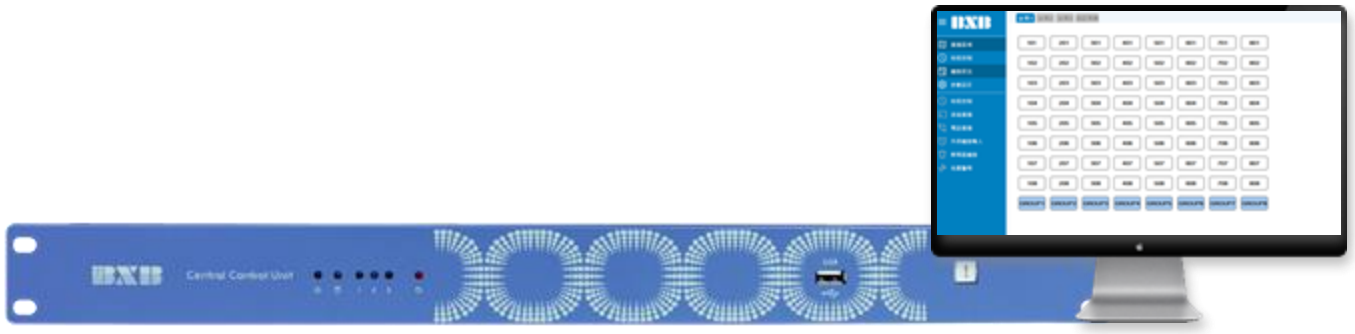




WMP-3180

Central Control Unit

- TCP/IP control: Enables the transmission of audio and control signals over the network.
- Control of up to 192 individual zones + 70 group zones: Allows flexible arrangement of graphical control screens to replicate on-site scenarios based on actual areas.
- Automated schedule broadcasting: Executes scheduled broadcasts for hourly chimes, daily routines, and special events, playing automatically as programmed.
- Dual-built network cards: Simultaneously operates independent local networks and external networks.
- Equipped with a service button: As the system meets abnormal conditions, pressing the service button to automatically transmit user information, device status, and anomaly details back to the central command, enabling real-time remote troubleshooting.
- Features C-drive hard disk restoration mechanism: Automatically restores the system to its original state upon restart, preventing intrusion from other programs or viruses.
- Integrates with TP-2 Telephone Paging Gateway for telephone broadcasting functionality.
- Can be paired with the DAM-0808 digital mixer for volume control.



WMP-3180

Central Control Unit

Product Specifications	
RS-232 Communication	DIN-9PIN x 2
USB Communication	USB 2.0 x 1 & USB 3.0 x 6
Network Communication	RJ-45 TCP / IP x 2
Display Output	HDMI Output x 1 Displayport x 2
Audio Interfaces	Linear Audio Output x 1 Linear Audio Input x 1 Microphone Audio Input x 1

Product Specifications	
Unit Size (WHD)	482 x 205 x 44.5 mm
Weight	3 Kg (excluding transformer)
Cabinet 19”	1U
Storage Capacity	512G
Storage Temperature	-20° to 80°C
Operating Temperature	0° to 60°C



WMP-3152

Loop Controller

- Utilizes digital decoding transmission method, capable of connecting to all decoders through loop cables.
- High-pressure audio loop can handle 800W loads per loop when connected to a 100V high-pressure amplifier signal, and 560W loads per loop when connected to a 70V high-pressure amplifier signal.
- Independent design for the communication of the first and second sets of loops.
- Built-in dedicated IN/OUT loop for outdoor speakers, allowing system configuration as an independent single zone without the need for a decoder.
- Features BYPASS function, activating all decoder channels online when initiated.
- Integrated protection mechanism: in the event of a power surge or lightning strike on the digital decoding signal, the system activates protective devices.
- Supports voltage range AC 100V~240V and includes overload protection functionality.



WMP-3152

Loop Controller

Product Specifications	
Function Buttons	BY PASS x1
Communication Ports	RJ45 x 1
High-Pressure Audio Input	European Standard Terminal 6P x 1
Decoder Loop Ports	European Standard Terminal 7P x 3
Independent Speaker Loop Port	European Standard Terminal 2P x 1

Product Specifications	
Dimensions (HWD)	40 x 485 x 125 mm
Weight	1.4Kg (excluding transformer)
Storage Temperature	-15°~ -55°C
Operating Temperature	0° ~ +40°C



PAB-5240

Power Amplifier (100V-240V)

- Two-channel amplifier: 120W RMS/per channel. Adaptable with 4-8 Ohm loads; suitable for small to medium sized meeting rooms.
- Bridged mode 240W output for 70V or 100V loudspeakers (direct drive).
- Power down after 15 minutes of no signal and comply with Energy Star Power consumption limits of < 0.5W in standby.
- LED at the front panel to indicate the current operation status.
- Selection for power-up mode, standby mode, and trigger mode.
- Switch for High Pass Filter to reject the frequency below 80Hz, avoiding the damage to loudspeakers.
- Equipped 12VDC terminal block for remote control.
- Short circuit & overheating protection without fan.



PAB-5240

Power Amplifier (100V-240V)

Product Specifications	
Power Rating	120W@8Ω<1% THD+N 120W@4Ω<1% THD+N 240W Bridged 70V/100V <1% THD+N
Frequency Response	20Hz-20kHz, +/- 2dB@4Ω Load
Signal to Noise	>90dB@1W (20Hz-20kHz)
Input Sensitivity	1V (+2.2dBu)@Max Output 4Ω
Gain Value	25dB@4Ω
Input Impedance	>10k, Balanced
Trigger Connector	3.5mm Jack
Output Connector	4pin Euro terminal (4Ω/8Ω) 2pin Euro terminal (70V/100V)

Product Specifications	
Dimensions (WHD)	214 x 44 x 250 mm
Net Weight	1.88Kg
Cabinet 19”	1U
Voltage	AC 100~240V, 50-60Hz
Power Consumption	350W
Trigger In/Out	DC 12V
High Pass Filter	80Hz (±2dB)
Input Connector	5pin Euro terminal
Max Input Level	12.3V (+24 dBu)



WMP-60D

Remote Decoder

- Utilizes a rotary switch to set the original location code for zones (such as classrooms, offices, and other designated areas).
- Allows direct modification of the location code from the host, eliminating the need to physically adjust dip switches at the speaker or decoder end.
- Features a tri-color LED indicator: Represents general broadcasting communication, two-way intercom, and a return CALL signal.
- In the event of a circuit failure or power outage, the decoder automatically activates the PA signal to maintain normal broadcasting operation.
- Equipped with one call trigger point, connectable to a return CALL button. When the host receives the signal, the orange indicator light for that area will flash. It can also pre-set emergency alert tones through graphical control software, aiding personnel in responding to emergencies.
- Features one normally closed trigger point, connectable to an security trigger signal. When the host receives the signal, the red indicator light for that area will flash. It can also pre-set security sounds through graphical control software, alerting personnel to respond accordingly.
- Includes one DC-12V output terminal as a control point for triggering on-site alarm flashing sirens. When the return CALL signal is triggered, it can activate local alarm flashing sirens to deter intruders. This trigger action can be disarmed from the decoder end, host end, and remote control ends.



DAM-0808

8x8 Digital Audio Matrix Processor

- Supports up to 8 fixed analog audio inputs, which can be connected via removable balanced phoenix connectors. Each audio input can be tailored to specific needs by flexibly adjusting the audio source connections.
- DSP capability: 400 MIPS; 1.6 GFLOPS.
- Definable UI for managing all audio channels via web browser. It supports the configuration of max. 30 units and 8 users at the same time.
- Equipped USB port to connect with PC to perform remote meeting and video captruing.
- Supports adaptive echo cancellation (AEC): 60dB/S convergence rate; 80dB echo cancellation level.
- Supports adaptive feedback control (AFC): avoid the audio inteference between each audio channel.
- Built-in automatic noise suppression (ANS): making the SNR increase 18db.
- Supports AGC: auto-gain control -6dB~+18dB; auto-balance control -12dB~+12dB.
- Support ducker, ANC, AM, Gate Mixer, camera tracking, and other defined modules.
- Equipped with matrix function to self-define the output audio sources.
- Centralized control via RS-232, RS-485, and UDP: easily connect the third-party equipment such as PTZ cameras.



DAM-0808

8x8 Digital Audio Matrix Processor

Product Specifications	
Processor	ADI SHARC 21489 (x2)
Sampling rate / digitalizing bit	48K / 24bit
Input gain	0/10/20/30/40/43dBu
Ouput level	0/-6dB
Phantom power	48V
Frequency Response	20~20KHz ±0.2dB
Max. level	+24dBu
THD + Noise	0.003%@4dBu
Dynamic range	113dB
Background noise (A-weighted)	-90dBu
Common mode rejection ratio @60Hz	80dB

Product Specifications	
Dimensions (WDH)	482 X 260 X 45mm
Shipping weight	3Kg
Operating temperature	30°C / 86°F
Working power	AC 110~240V 5Hz~60Hz
Max. power consumption	< 40W
Channel isolation @1KHz	108dB
Input impedance(Balanced)	5.4KΩ
Output impedance(Balanced)	102Ω
System Delay	<3ms



TP-2

Telephone Paging Gateway

- Compact and lightweight, seamlessly integrates with the telephone exchange system to enable telephone broadcasting through the BXB broadcast system.
- DSP capability: 400 MIPS; 1.6 GFLOPS.
- Definable UI for managing all audio channels via web browser. It supports the configuration of max.

Product Specifications	
Phone Port	FXS x 1 FXO x 1
Network Port	WLAN x 1 LAN x 1
Button	Reset x 1

Product Specifications	
Dimensions (WDH)	90 x 75 x 24 mm
Weight	80g



PA-10 / PA-10T

Digital Mixer Amplifier

- Features microphone and linear audio inputs, allowing simultaneous connection to teaching microphones and audio sources from the teacher's laptop.
- Digital electronic volume control buttons for microphone input, with a total of 32 adjustable levels.
- Can connect to 4Ω or 8Ω external speakers, supporting a maximum power of 15W audio output.
- Integrates teaching and broadcasting functions into one device, capable of connecting to broadcast equipment as a trigger audio source. Activation is achieved through DC12V or N.O. dry contact points, initiating broadcast linear audio mixing output.
- Automatic activation of mixing output. When a 8Ω or 70/100V audio signal is detected and reaches the volume threshold, the broadcast mixing output is automatically activated. If the threshold is not reached within 30 seconds, the mixing output function will automatically deactivate.
- Equipped with a load abnormality indicator light. In the case of low-impedance speakers or abnormal circuits preventing normal amplification, a flashing red light serves as an troubleshooting prompt.
- Lightweight design, space-saving, and comes with mounting brackets for easy installation below or on the wall near a blackboard/whiteboard. Convenient for use and future maintenance.



PA-10 / PA-10T

Digital Mixer Amplifier

Product Specifications	
Linear Audio Input	Input Impedance: 2KΩ @ 1KHz Maximum Input Audio Signal Level: 550 mVp-p
Microphone	Input Impedance: 48.7KΩ @ 1KHz Maximum Microphone Input Level: 85 mVp-p (default volume)
Linear Audio Input (Trigger Mixing)	Minimum Microphone Input Level: 3 mVp-p Input Impedance: 1KΩ @ 1KHz Maximum Input Audio Signal Level: 550 mVp-p
Speaker Output	6.5W Microphone Input @ RL 8Ω, F = 1KHz, < 0.1% THD+N, > 82 dB SNR 8W Linear Input @ RL 8Ω, F = 1KHz, < 0.1% THD+N, > 88 dB SNR 12W Microphone Input @ RL 4Ω, F = 1KHz, < 0.5% THD+N, > 82 dB SNR 15W Linear Input @ RL 4Ω, F = 1KHz, < 0.1% THD+N, > 86 dB SNR

Product Specifications	
Dimensions (WHD)	238 x 26 x 105mm
Weight	545g / 670g
Operating Temperature	0°C~40°C
Storage Temperature	-15 ~ 55°C
Humidity	40 ~ 70%(non-condensing)
Output Impedance	0.1Ω
Power Consumption	Standby Current: ≒ 140mA @ DC 12 V



CTM-02

Table-top Music Mic

- Comes with a choice of 43 / 48 cm gooseneck.
- The microphone head features a circular red LED speech indicator.
- Microphone directionality: Single-directional condenser microphone.
- The microphone base has an ON/OFF button and indicator light, along with intro and outro four-tone musical sounds for activation and deactivation.
- The base is made of integrated zinc-aluminum alloy with rubber pads for stability and anti-slip.
- Frequency Response: Better than 100~18kHz.



WMP-60D-C

Remote Decoder + Intercom Modual

- Built-in two-way communication intercom interface, enabling synchronous two-way communication with the host. Remote users can operate without holding the microphone, and clear reception is ensured within a 5-meter range.
- Uses a dial switch to set the original location code for zoning (i.e., numbering for classrooms, offices, and other areas).
- Allows direct modification of the set location code from the host, eliminating the traditional need to change lines at the speaker end or adjust dial switches on the decoder.
- Features a tri-color LED communication indicator: represents general broadcasting communication, two-way intercom, and the action indication for the "Call Back" signal.
- In case of decoder encountering circuit faults or power outage issues, it automatically activates the PA signal function to maintain normal operation of broadcasting amplification.



WMP3161

Trigger Controller

- Utilizes a rotary switch for device encoding settings, allowing for the expansion of up to three WMP-3161 trigger controllers.
- Features a single tri-color LED communication indicator to represent active external triggering, passive external triggering, and simultaneous active and passive external triggering states.
- Equipped with one set of call trigger contacts and one set of normally closed trigger contacts, which can connect to interlocking devices. Upon receiving a trigger signal, the system can activate the corresponding zone’s sound channel as set.
- Contains one set of DC-5V output terminals, enabling device interlocking control based on configured trigger conditions.
- Includes one set of passive external trigger contacts, which can connect to a main power control device or an amplifier’s power-on contact, triggering the activation of related broadcasting equipment when the zone is activated.

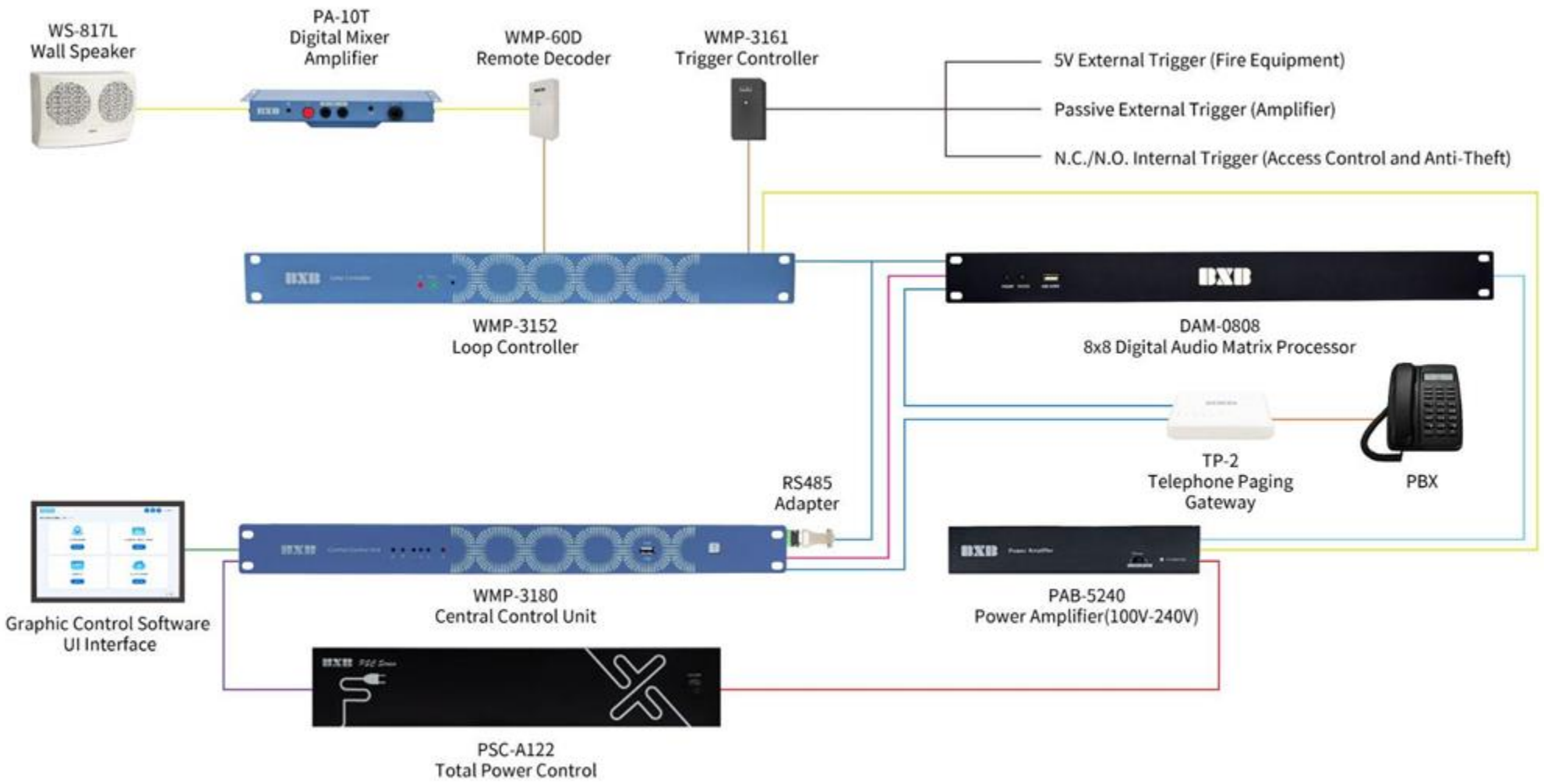


ECB-003

Emergency Call Button

- Designed to work with the decoder for Call Back signal triggering.
- ABS material panel with a fixed box for wall mounting.

System Architecture Diagram



CAT.5e HDMI WMP-7C RS-232 USB Audio Power Control RJ11 Speaker cable

BXB
ADD 6F-1, No.288-5, Xinya Rd., Qianzhen Dist., Kaohsiung City 806604, Taiwan
TEL +886 7 9703838
FAX +886 7 9703883
MAIL bxb@bxb.tw
WEB www.bxbsystem.com