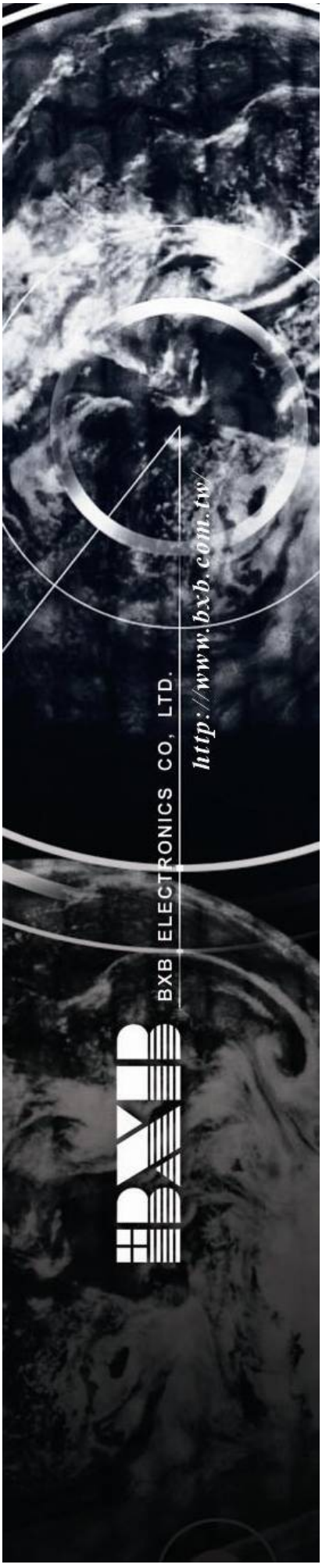




Mixer Amplifier

PA-5120PQ

(120W RMS)

English user manual

Version: November 15, 2007

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Preface

This PA-5120PQ series, the latest and easiest conference system with superb performance and elegant design, can be used for various conferencing.

This WM conference system has the easiest module with no limited chairman and delegate microphone. PA-5120 (40W*2) or PA-5120PQ (120W) or PA-5120P2 (240W) has build in power for 50 units. It can add extra extension power supply according to practical requirement. PA-5120 series providing the unique features of front sound mixing module, back amplified module, sound effect treatment amplified module to meet your requirement under any circumstance.

High reliability is the utmost importance element in the development of this conference system. Each conference main control unit and its fittings are all going through careful assembly and strict test in our ISO 9001 factory. The excellent performance, high reliability and reasonable price make it the indispensable tools of your conference.

Safety Precautions

1. Please read this manual carefully before installing and applying this unit.

2. Please keep this manual appropriately.

3. Please observe the instruction and warning in this manual.

4. Please do not use accessories not recommended by dealers.

5. Please use the attached spare parts accessories provided by the factory only, the factory will not be responsible for any damage due to false fixing way.

6. Make sure that the power plug are fixed appropriately and safely.

7. Please do not use too many extension cables to avoid fire hazard and short circuit.

8. Please do not insert any article into the unit or spray any liquid on it to avoid short circuit.

9. If one of the following happens, please contact the maintenance technician:
   A• power cable or plug is damaged.
   B• water gets into the unit.
   C• cannot be operated under normal instruction.
   D• the unit is dropped onto the ground and damage the case.
   E• If only one function is available, please contact the maintenance technician.

10. When outdoors equipment or cable is connected into this unit, the grounding of cable system must be reliable to avoid lightening attack.

11. Please take care when installing the main control unit and its surrounding facilities. Avoid strike, fierce swing, which may damage the main conference unit and its surrounding facilities.

12. Please do not disassemble the main control unit and its surrounding facilities.
   A. There are high voltage and sensitive electronic circuits inside the unit. In order to avoid electric shock, please do not disassemble the machine. If machine uncover is necessary, please seek assistant from qualified technicians.
   B. When the dealers replacing spare parts, the specification of replacing spare parts should be acknowledged by manufacturer. Unauthorized spare parts may lead to fire hazard caused by short circuit.

13. Please do not block the heat radiating holes on the case. There is heat sink inside this

product. If the heat radiating holes are blocked, the resulting overheating of the main unit may lead to mal-function.

14. Please do not use or operate camera in environment exceeding the specified temperature, humidity and power grade. Use this conference main control unit in environment with the temperature of 0°C ~ 40°C (32°F ~104°F) and humidity lower than 90%.

15. Please do not expose the conference main control unit to rain, and humid air, and do not use it in humid environment. Please place it at dry place. Humid and water evaporation may lead to the damage of spare parts inside. Appropriate cover is necessary when placing it outdoor.

16. Please do not clean the conference main unit and its surrounding facilities with strong or power detergent. If the surface of the unit is dirty, please do not clean it with liquid or spraying detergent, while slightly wet cloth should be used.

17. Please do not switch on and off the conference main control unit abruptly. No matter the unit is running or stop, avoid switch it on and off abruptly to ensure the sensitive electronic circuit inside not being damaged by abrupt power wave.

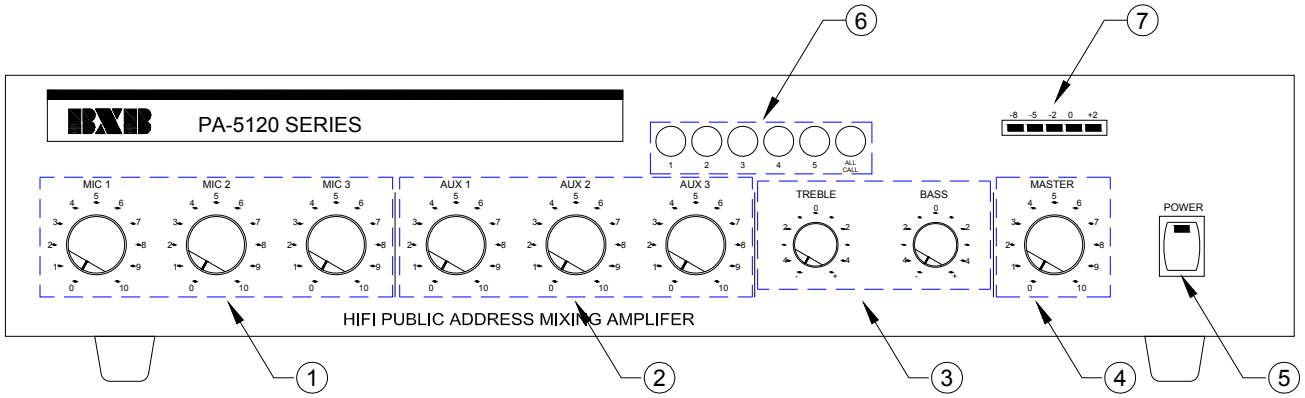
18. Note: When the printed circuit board was going through electric static treatment, correct ESD safety precaution and grounding should be guaranteed.

19. Note: Before connecting the unit to the power supply, please adjust the power input according to the local power specification. Otherwise, unit damage may ensue.

Warning: Only qualified maintenance staff is allowed to uncover the case of the unit. There is nothing inside that can be repaired by certificated technician. Before uncovering the unit, power should be cut off and no power supply is allowed before the unit is completely covered.

PA-5120PQ Products features

Front panel:



① ➝ MIC 1~3 volume control knob:

a. MIC 1 & MIC 2 has broadcasting priority. When MIC 1 or MIC 2 are make announcement, other input will be silent, after MIC 1 and 2 finish broadcasting will back to original status.

b. When extend remote 100V modular, MIC 1 will show R.C 100V which shows this PA-5102PQ has remote control (Sound control). (Optional functions)

c. When extend remote 100V modular, it will auto turn on PA-5120PQ to activate broadcasting even if it's turn off. (Optional functions)

② ➝ AUX1~3 volume control knob, control external Aux volume.

③ ➝ Volume control knob: TREBLE and BASS

④ ➝ MASTER: Master volume control knob

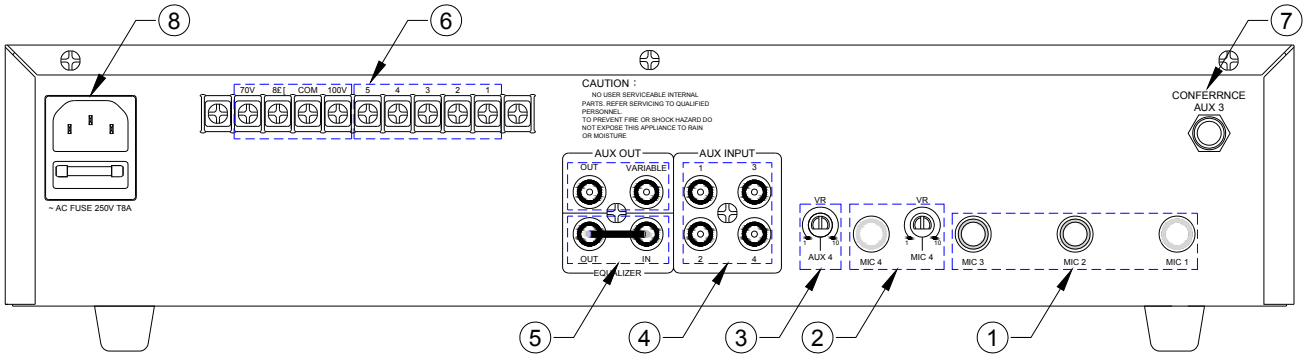
⑤ ➝ Power for ON/OFF

⑥ ➝ Area zone

It has 5 zones button for area broadcasting and one ALL CALL button. Press "ALL CALL" to activate 5 zones speakers. Or select individual zones to activate one zone speakers.

⑦ ➝ Volume output increase LED indication lamp

Rear panel:



① → MIC 1~3 Mic Input Jack（6.3Ø）

② → MIC 4 Mic Input Jack（6.3Ø）and volume control knob

③ →AUX 4 volume control knob controls the volume of external input sound

④ → AUX INPUT 1~4（RCA）

⑤ → Conference Mic Output Terminal and EQUALIZER：

- AUX Output is not controlled by master volume knob.
- CON-Output can not control volume through master volume knob.
- EQUALIZER

⑥ → Speaker Output (8Ω/100V/COM/70V Output, Amplifier)

a. When speaker connect to 100V and COM will be 100V broadcasting output. It's necessary to install speaker with 100V transformer without 5 zone selection.
b. When speaker connect to 8Ω and COM, it's necessary to install speaker with 8Ω output, without 5 zone selection.
c. When speaker connect to 70V and COM, it's necessary to install speaker with 70V output, without 5 zone selection.
d. When speaker connect to 1、2、3、4、5 and COM, it's necessary to install speaker with 100V transformer and able to have 5 zone and ALL CALL selection.

⑦ → CONFERENCE AUX3（BXB Open Conference Mic Input 6.3Ø Jack）：

- Able to extend Open Conference Mic system to have Conference meeting.
- Able to extend remote 100V modular, MIC 1 will show R.C 100V which shows this PA-5102PQ has remote control (Sound control) and it will auto turn on PA-5120PQ to activate broadcasting even if it's turn off. (Optional functions)

⑧→AC Power plug, with one protection fuse and spare fuse (AC 8A).

PA-5120PQ Specifications

1. Rated Output: 120W (RMS), 180(MAX)

2. Power: AC110~120V/ 220~230V (50/ 60HZ)

3. Speaker output: 100V (167Ω) / 70V (82Ω) / 4~16Ω

4. It has 5 zones + ALL CALL switch

5. Frequency response: 20HZ ~ 20KHZ

6. Total Harmonic Distortion: <1% (1kHz)

7. S/N ratio : MIC > 60dB、AUX >70dB

8. THD=10%: 2A

9. BASS 100Hz ±10dB / Treble10KHz ±10dB

10. AUX INPUT: 4 sets with 4 individual volume control

    Sensitivity and impedance: -22dBV 100mV 10KΩ unbalanced, RCA jack

11. MIC input: 4 sets with individual volume control

    MIC input Sensitivity and impedance: -65dBV 0.5mV 600Ω unbalanced, PHONE jack

    (MIC1, 2 has priority which can temporary cutoff other output, attenuation:0～30dB, recovery time: 3 seconds)

12. REC output: 0dB/100mV/10kΩ unbalanced, RCA jack

12. AUX OUTPUT: 10kΩ~22kΩ unbalanced, RCA jack

13. Separate pre- and rear function, has one EQ IN,EQ OUT port each

14. Volume output increase LED indication lamp

15. Size：430*230*100mm (standard 19” cabinet)

16. Weight：About 10KG