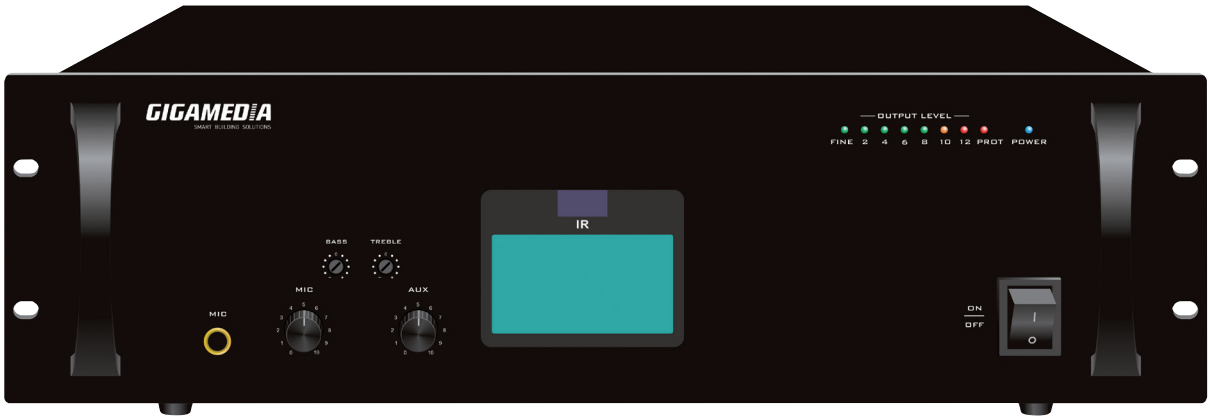
GIGAMEDIA

SMART BUILDING SOLUTIONS

PUBLIC ADDRESS

GGM IPAP1120
GGM IPAP1240
GGM IPAP1350
GGM IPAP1500

USER MANUAL



Please follow the instructions in this manual to obtain the optimum results from this unit.
We also recommend that you keep this manual handy for future reference.

www.gigamedia.net

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WEEE regulation

This product is covered by the WEEE II Directive (Directive 2012/19 / EU). It should not be thrown in the trash or dumped. Substances in the product may be hazardous to human health or the environment. Disposal may be done by returning the product to your dealer or leaving it a collection point provided for this purpose.

Battery directive

This product contains batteries. The logo indicates that they should not be thrown in the trash or landfill. Batteries may contain substances that may be hazardous to human health and the environment and heavy metals that have the following designations: Cd = Cadmium, Hg = Mercury, Pb = Lead. To facilitate the treatment and recycling of used batteries, you can return them to your dealer, deposit them in a collection bin provided for this purpose or return them to your municipal waste which is obliged to recover them.

CE

This product bears the CE mark which certifies its conformity with the directives LVD 2014/35/EU ; EMC 2014/30/EU and RoHS 2011/65/EU.
Compliance has been assessed in accordance with applicable standards in effect.

1. SAFETY PRECAUTIONS

- Be sure to read the instructions in this section carefully before use.
- Make sure to observe the instructions in this manual as the conventions of safety symbols and messages regarded as very important precautions are included.
- We also recommend you keep this instruction manual handy for future reference.

Safety Symbol and Message Conventions
Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety.

⚠ WARNING	**Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.**
⚠ CAUTION	**Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.**

⚠ WARNING

When Installing the Unit

- Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.
- Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.
- Do not cut, kink, otherwise damage nor modify the power supply cord. In addition, avoid using the power cord in close proximity to heaters, and never place heavy objects -- including the unit itself -- on the power cord, as doing so may result in fire or electric shock.
- Be sure to replace the unit's terminal cover after connection completion. Because high voltage is applied to the speaker terminals, never touch these terminals to avoid electric shock.
- Be sure to ground to the safety ground (earth) terminal to avoid electric shock. Never ground to a gas pipe as a catastrophic disaster may result.
- Avoid installing or mounting the unit in unstable locations, such as on a rickety table or a slanted surface. Doing so may result in the unit falling down, causing personal injury and/or property damage.

When the Unit is in Use

- Should the following irregularity be found during use, immediately switch off the power, disconnect the power supply plug from the AC outlet and contact your nearest dealer. Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.
  - If you detect smoke or a strange smell coming from the unit.
  - If water or any metallic object gets into the unit
  - If the unit falls, or the unit case breaks
  - If the power supply cord is damaged (exposure of the core, disconnection, etc.)
  - If it is malfunctioning (no tone sounds.)
- To prevent a fire or electric shock, never open nor remove the unit case as there are high voltage components inside the unit. Refer all servicing to your nearest dealer.
- Do not place cups, bowls, or other containers of liquid or metallic objects on top of the unit. If they accidentally spill into the unit, this may cause a fire or electric shock.
- Do not insert nor drop metallic objects or flammable materials in the ventilation slots of the unit's cover, as this may result in fire or electric shock.

⚠ CAUTION

When Installing the Unit

- Never plug in nor remove the power supply plug with wet hands, as doing so may cause electric shock.
- When unplugging the power supply cord, be sure to grasp the power supply plug; never pull on the cord itself. Operating the unit with a damaged power supply cord may cause a fire or electric shock.
- When moving the unit, be sure to remove its power supply cord from the wall outlet. Moving the unit with the power cord connected to the outlet may cause damage to the power cord, resulting in fire or electric shock. When removing the power cord, be sure to hold its plug to pull.
- Do not block the ventilation slots in the unit's cover. Doing so may cause heat to build up inside the unit and result in fire.
- Avoid installing the unit in humid or dusty locations, in locations exposed to the direct sunlight, near the heaters, or in locations generating sooty smoke or steam as doing otherwise may result in fire or electric shock.

When the Unit is in Use

- Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.
- Make sure that the volume control is set to minimum position before power is switched on. Loud noise produced at high volume when power is switched on can impair hearing.
- Do not operate the unit for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.
- Contact your dealer as to the cleaning. If dust is allowed to accumulate in the unit over a long period of time, a fire or damage to the unit may result.
- If dust accumulates on the power supply plug or in the wall AC outlet, a fire may result. Clean it periodically. In addition, insert the plug in the wall outlet securely.
- Switch off the power, and unplug the power supply plug from the AC outlet for safety purposes when cleaning or leaving the unit unused for 10 days or more. Doing otherwise may cause a fire or electric shock.

An all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated in the electrical installation of the building.

2. APPLICATION

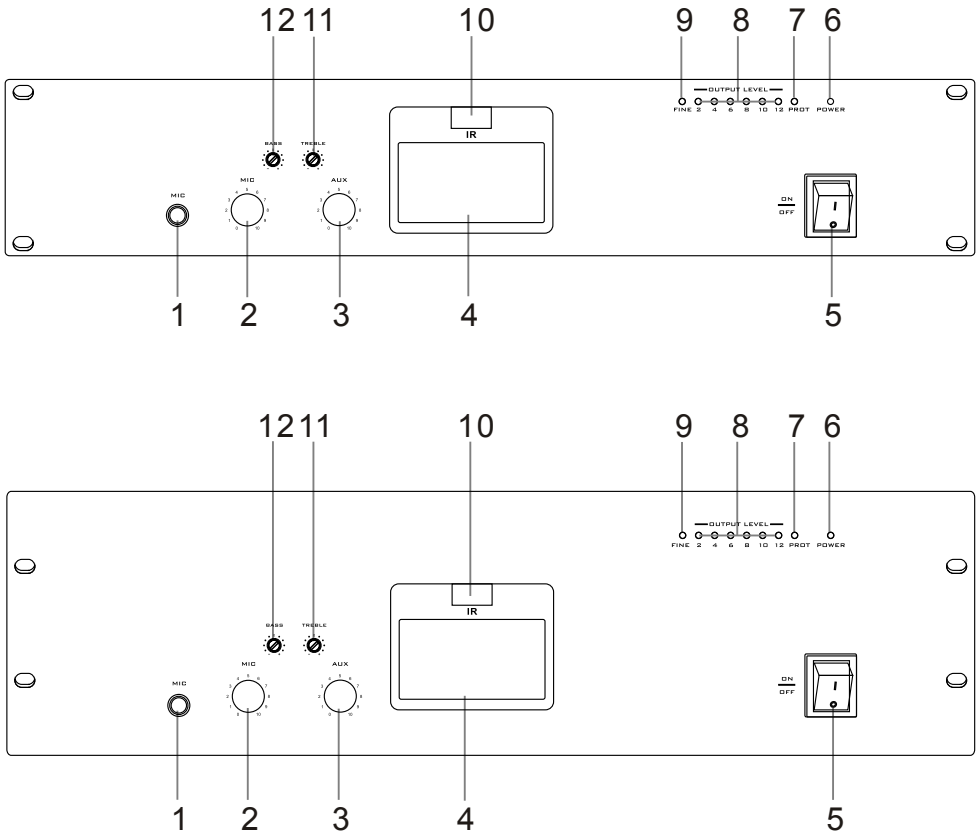
Widely installed in weak-current rooms or branch control room for public address, build-in amplifier, widely used for hall, corridor and outdoor public address.

3. FEATURES

01. Standard 19 inch rack design, black aluminum panel, human-based handle, exquisite and high-class design.
02. 3.4 inch industrial-grade LCD screen, super anti-jamming performance, avoid instability infrared operation, clearly show most lattice pattern, and the machine working status.
03. Adopt embedded computer technology and DSP audio processing technology; high-speed chip cut the start-up time less than 1 second.
04. Built-in one channel network hardware audio decoding module that supports TCP / IP, UDP, IGMP (IP multi-Cast protocol), could transmit 16 bits stereo CD audio signal.
05. Built-in Hi-Fi analog amplifier, 60 W / 120 W / 240 W / 350 W /500 W, 4-16 output and and constant voltage 70 V, 100 V output.
06. One AUX and one MIC input, with independent volume control, treble and bass control, support paging without network.
07. One EMC input, fire emergency audio signal input with the highest priority.
08. Two AUX outputs, connect with external amplifier, standard interfaces RCA port, Wiring connection is very convenient.
09. One three-wire volume with relay output, without forced cutting power supply, compatible with four-wire fire cutting, need to connect with 24V power supply.
10. Built-in intelligent power management, automatically cut off the amplifier power when no signal input, power amplifier, automatically turn on when there is audio signal input, preset the program to get this function.
11. Built three priority setting:
    1) EMC is the highest priority.
    2) Network alarm signal priority MIC, AUX and network background music signal.
    3) MIC priority AUX and network background music signal.
    4) AUX and background music same level, without any priority.
12. Support silent intensity preset reduction, support for background accompaniment preset function; Support status lights display, including level indicator, protection indicator, standby light, etc. Machine standby power less than 3 W, meet the national environmental energy certification standards.
13. Support DHCP, compatible routers, switches, bridges gateways, modem, internet, 2G, 3G, 4G, multicast, unicast and other arbitrary network structure.
14. Digital products, easy expansion, no geographical restriction, no additional management equipment, without cables construction, easy installation.

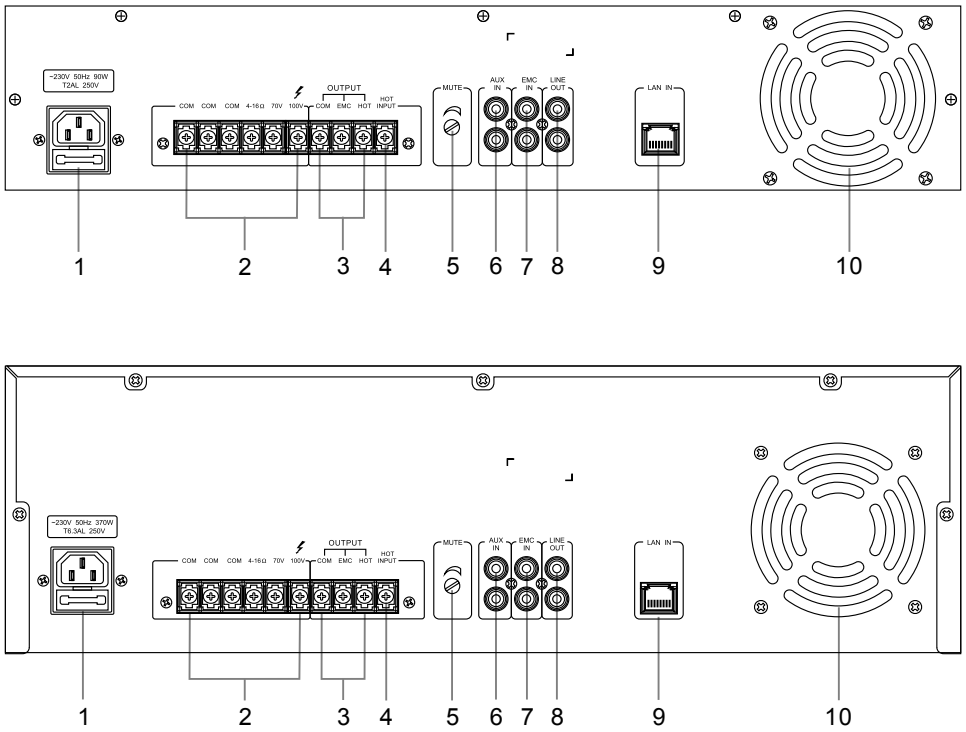
4. NOMENCLATURE AND FUNCTIONS

4.1. FRONT PANEL



01. Local MIC input adopting 6.35 mm MIC input interface.
02. Volume control of MIC input.
03. Volume control of AUX input.
04. Working status display screen mainly used for showing the different status in different quests.
05. Power switch ON to switch on the equipment, OFF to shut down the equipment.
06. Power LED the LED lights on when switches on the equipment, it lights off when shuts down the equipment.
07. PROT Protection indicator.
08. OUTPUT LEVEL Level indicator.
09. FINE Status indicator.
10. IR Infrared receiving window.
11. TREBLE adjust the response of treble. Increase treble output by knob clockwise rotation and decrease it by knob anticlockwise rotation.
12. BASS adjust the response of bass. Increase bass output by knob clockwise rotation and decrease it by knob anticlockwise rotation.

4.2. REAR PANEL



01. AC power input.
02. The ports for speakers connection. COM stands for common port, connectable with negative pole, ground wire, etc. 4~16 port is connectable with 4~16 constant-resistance speakers. 70 V port is connectable with 70 V constant-voltage speakers. 100 V port is connectable with 100 V constant-voltage speakers.
03. Signal output port of volume control.
04. Signal input port of volume control.
05. Mute potentiometer, turn the knob to the rightmost, the mute level is the maximum; and turn the knob to the leftmost, the mute level is the minimum.
06. Aux audio source input.
07. EMC input port.
08. Line output port.
09. RJ45 network interface, connecting with the internet of PC host/ Ethernet/switch.
10. Cooling fan.

5. OPERATION

Use a network cable to connect the port LAN IN of your equipment to a computer or network equipment. Open the software “IP network broadcast system” and make sure that the service has started. The next step is to open the software “iptool”. The window will open, you will have to press the button “Inquire” (Figure 1) to display the equipments found by “iptool” (Figure 2).

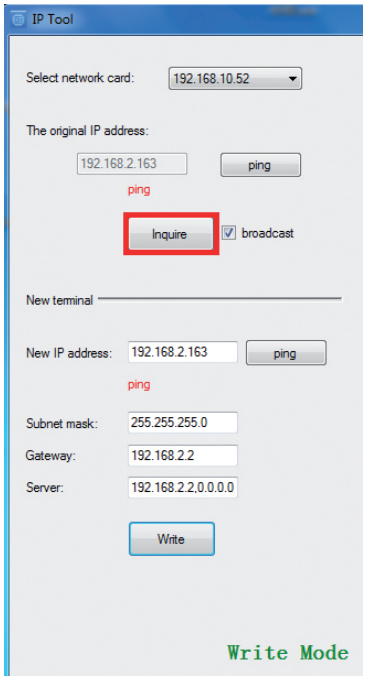


FIGURE 1

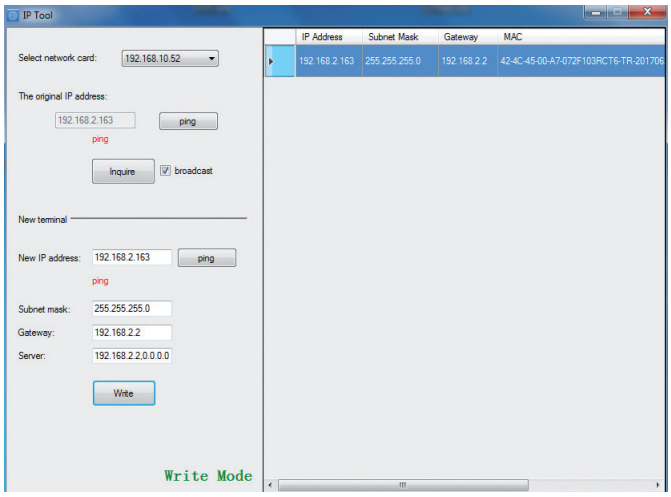


FIGURE 2

You will now have to change the IP address of your equipment to match the IP addresses of your network.
You need to fill every field below “New terminal” (Figure 3). Once all the fields are filled, press the button “Write” to apply the configuration and check with the button “Ping” to see if it is reachable (Figure 4). When all your equipments are configured, you can close the software “iptool”.

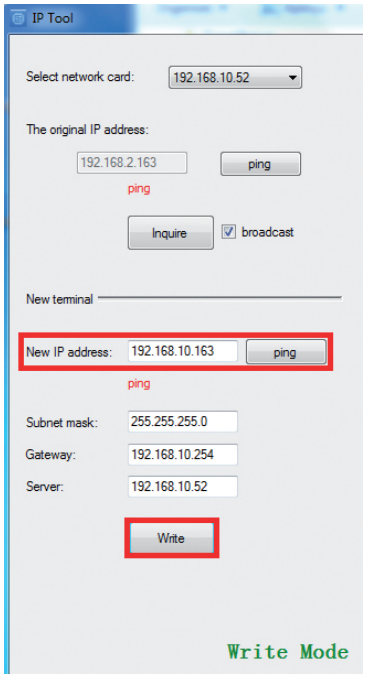


FIGURE 3

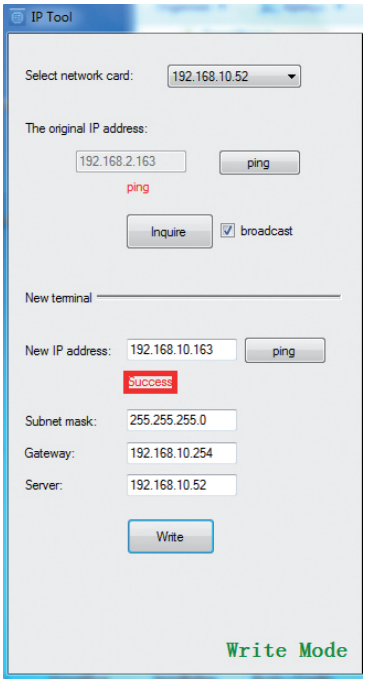
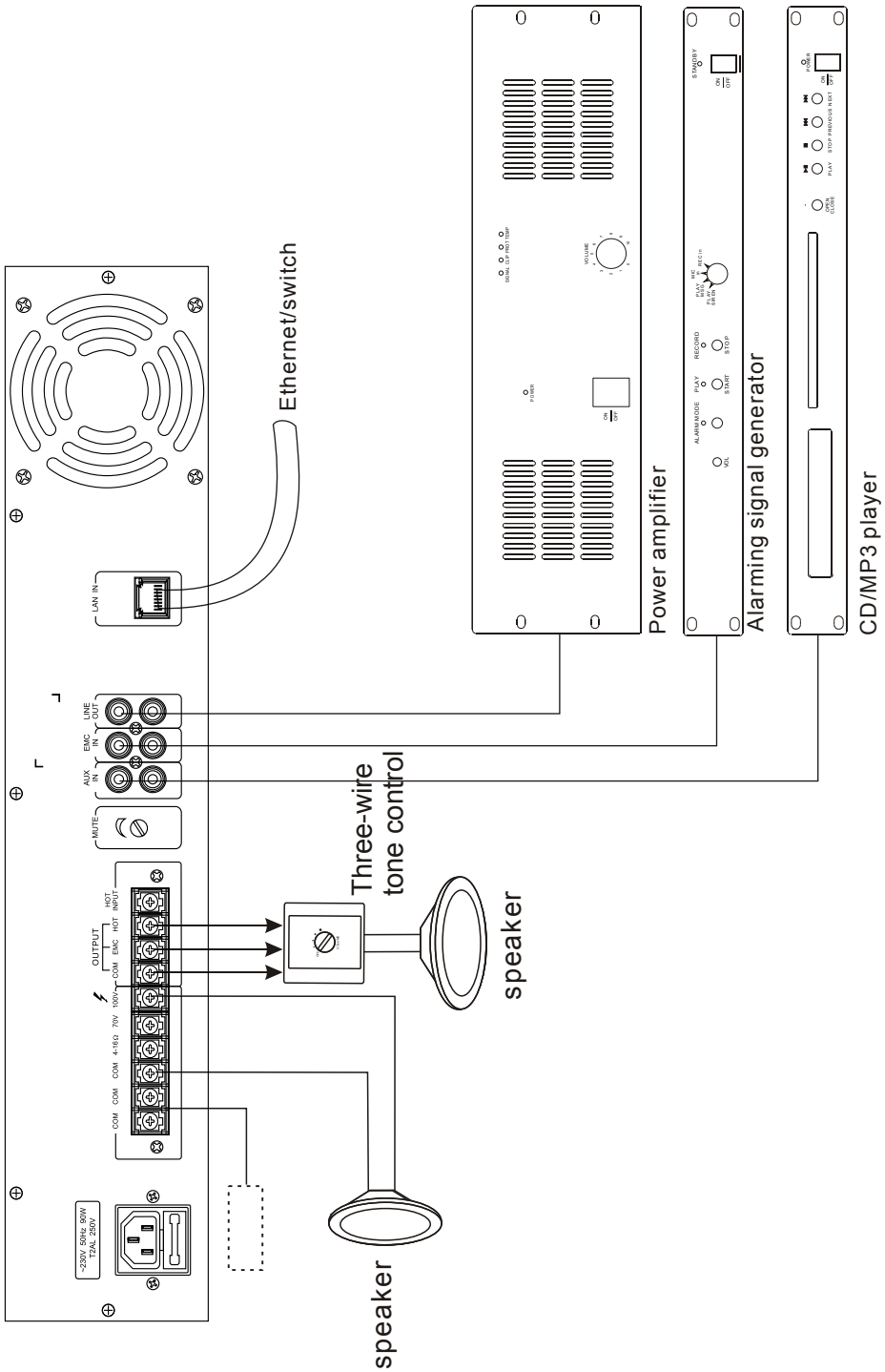
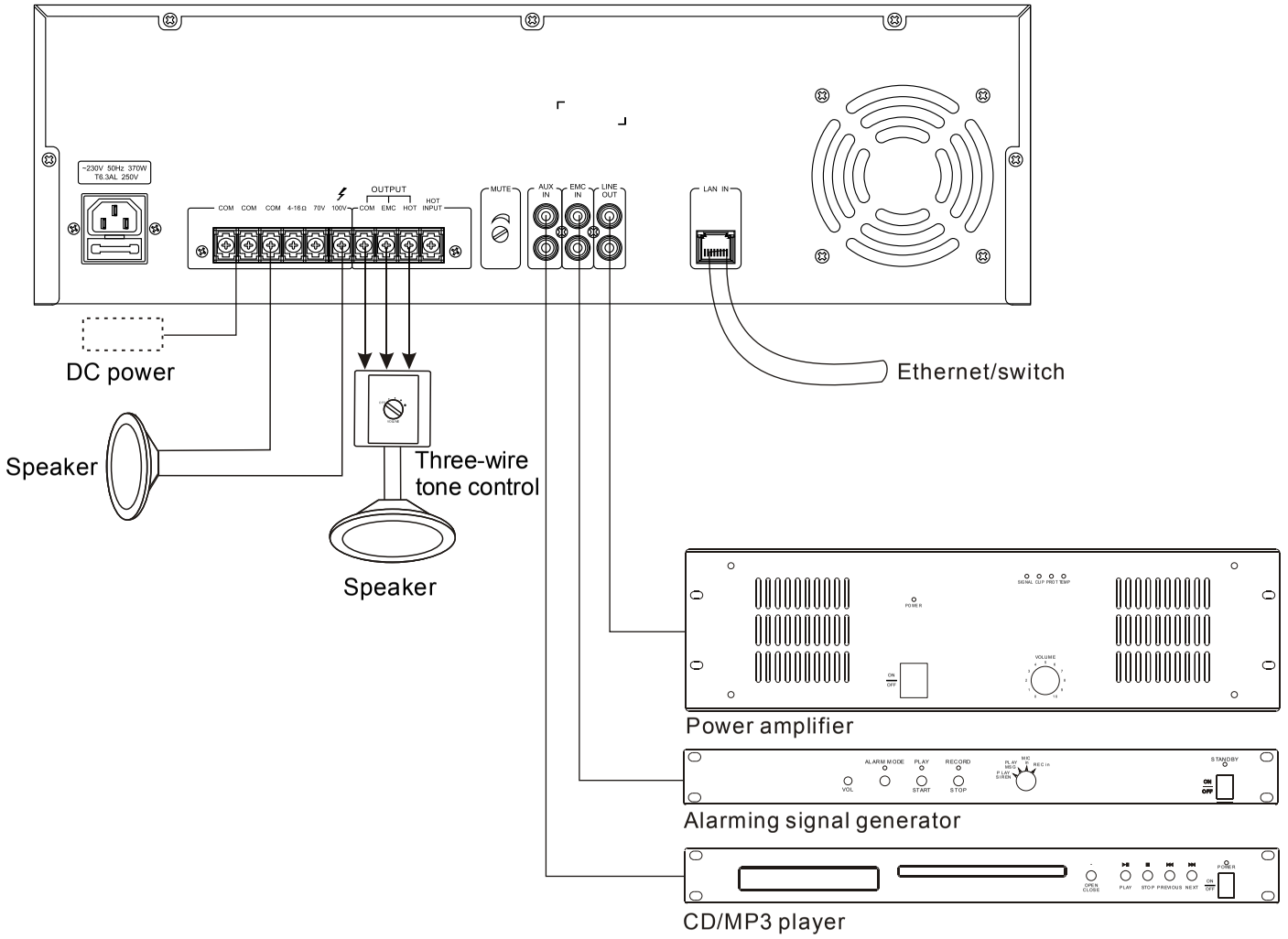


FIGURE 4

6. SYSTEM WIRING DIAGRAM




~230V 50Hz 370W
T6.3AL 250V
COM COM COM 4-16Ω 70V 100V
OUTPUT
COM EMC HOT
HOT INPUT
MUTE
AUX IN
EMC IN
LINE OUT
LAN IN
DC power
Ethernet/switch
Speaker
Three-wire tone control
Speaker
Power amplifier
Alarming signal generator
CD/MP3 player

7. SPECIFICATIONS

Model	GGM IPAP1120	GGM IPAP1240	GGM IPAP1350	GGM IPAP1500
Network interface	RJ45			
Transmission speed	100Mbps			
Supportive protocol	TCP/IP, UDP, IGMP (Multicast)			
Audio format	MP3/ MP2			
Audio mode	16 bit CD quality			
Sampling rate	8 k ~ 48 kHz			
Bit rate	8 k ~ 512 kbps			
EMC input sensitivity	775 mV (unbalance)			
AUX input sensitivity	350 mV (unbalance)			
MIC input sensitivity	5 mV (unbalance)			
AUX output amplitude	1000 mV, 2 RCA output			
AUX output impedance	470 Ω			
Treble adjustment range	±10.5 dB			
Bass adjustment range	±10.5 dB			
Rated power	120 W	240 W	350 W	500 W
Power consumption	180 W	370 W	540 W	750 W
Standby power consumption	< 3 W			
Frequency response	80 Hz ~ 16 kHz (-3 dB, 0 dB)			
THD	THD ⩽ 1 %			
SNR	⩾ 65 dB			
Speaker output	70 V, 100 V & 4-16 Ω			
Protection	DC output, High temp, overload and short-circuit			
Operation temperature	5 °C ~ 40 °C			
Operation humidity	20 % ~ 80 % relative humidity without moisture condensation			
Power supply	AC ~ 230 V / 50 Hz			
Size	484 x 303 x 88 mm	484 x 359 x 132 mm	484 x 359 x 132 mm	484 x 359 x 132 mm
Net weight	9.7 kg	13.7 kg	15.5 kg	18 kg