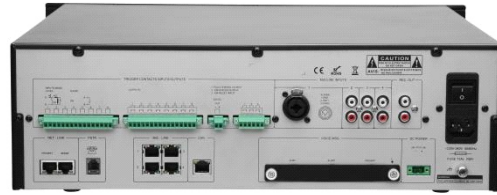




# Digital Network PA & Voice Alarm Controller

## VA-6000MA



### Description:

VA-6000MA is a core management and control device for public address broadcasting and emergency voice alarm broadcasting. It can be directly controlled and system status checked on a 5-inch HD touch screen. It supports user-defined function and system control through PC management software, automatic monitoring and management to physical partition status and terminal equipment, automatic execution of the pre-programming control, etc. Built-in programmable trigger input and output interfaces, to achieve integrated control to the sound-light alarm module (as well as connected to the bus fire linkage controller).

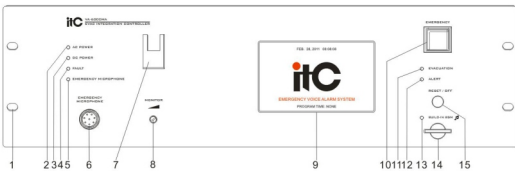
### Basic Functions:

- \* 5 inch HD color touch graphical man-machine operation interface.
- \* One button for emergency alarm.
- \* Support zone selection, zone distribution, grouping operation, with independent zone volume adjustment.
- \* Support user-defined zone name, group name, host name (multi-host network), easy to operate and manage.
- \* Support event trigger, timing trigger control output.
- \* Support zone monitor, equipment status real-time indication.
- \* Support event trigger phone call notification, can be set re-calling times when no answering.
- \* Integrated 4 independent players (supports MP3 and WMA audio formats).
- \* Support lines redundant wiring.
- \* Support Ethernet online configuration, control interface work offline.
- \* Support up to 4 remote microphones at max distance 600 meters, and support a microphone circuit redundancy wiring.
- \* Support linkage to bus fire controller (fanhai Sanjiang 9100 and 9000 series of fire linkage controller).

### Features:

- \* Integrated 1 independent background music player, support timing, fixed, curved, specify playback modes, support MP3 and WMA audio formats.
- \* Integrated 1 independent voice message player, support voice message and language revision as demand.
- \* Integrated 2 independent EVAC voice message players; support programmable stage evacuation alarm mode and specified partition evacuation alarm mode, evacuation alarm and warning information can be played at the same time.
- \* Integrated 1 channel analog telephone interface for remote telephone paging broadcast.
- \* With 4 line inputs (one is optional for line or ordinary microphone), 1 audio output, which can be connected to external recorder, for emergency paging recording.
- \* With 4 remote MIC interfaces, connected to VA-6000RM remote microphone by standard RJ-45 and CAT-5 cable, adapting long distance parallel transmission mode for language transmission, up to 600 meters.
- \* With 8 level signal or 0 voltage short circuit input (or voltage from the programming decision, default 0 voltage), (can be regarded as 8 shortcut control keys), each shortcut key functions can be user-defined, such as: play language message to specified zones or open external power supply to trigger a third party equipment to achieve the event triggering alarm.
- \* Real time diagnosis, handling, records 2000, support sound, light alarm and prompt maintenance, troubleshooting when abnormal.
- \* Support basic Window platform visual operation interface, status automatic synchronization, classification rights management to ensure the security system.
- \* System support the third party online 0 voltage relay input and output interface.

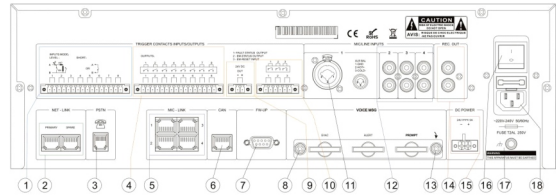
### Front Panel:



### Connectors:

- Mounting positioning holes (19 inch cabinet).
  - The host AC power supply indicator:
    - Green - normal.
    - Yellow - with fault.
  - The host DC24V standby power indicator:
    - Green - normal.
    - Out - without configured.
    - Yellow - with fault.
  - System status indicator:
    - Yellow - with fault, long flicking means the user performs a manual reset, lasting about 1 minute, if the fault is failed to remove, it will continue flick; when the system fault is removed, the led indicator automatically extinguished.
    - Out - each module is running normally or the system doesn't open module detection;
  6. 7. Panel emergency PTT (push to talk) microphone.
  7. PTT microphone hanger.
  5. Color status description:
    - Out - PTT in normal.
    - Green - PTT is broadcasting.
    - Yellow - with fault.
  6. Aviation socket, used to connect the PTT microphone.
  7. PTT microphone hanger.
- If the user presses PTT switches, the host will do the following adjustment, function reference implementation are as follows:
- If select any zone, then it is zoning broadcasting.
  - Without selecting zone, then it is all zone broadcasting.
  - If the system is working in emergency mode, and without selecting any zone, then it broadcasts to the current triggered zones.
- Note: When PTT microphone's switch is released more than 5 seconds in the process of broadcasting, the system will automatically cut off the broadcast.
- The host interface (5 inch TFT with touch LCD, please refer to the user manual operation).
  - Partition monitor speaker volume control knob: used to adjust the volume to monitor the current partition audio output after open the monitor.
  - System work mode switch:
    - Red rapid flashing - the system is currently in reset mode, prohibiting all manual operation
    - Red slow flashing - the system is currently in emergency mode (press about 3 seconds to manually or automatically triggered enter into EMC mode, in this mode, it allows to play EVAC audio, which is not allowed to play in normal mode).
    - Out - working in normal mode.
- Note: 1, when it is flashing press about 3~4 seconds to exit from emergency mode.  
2, when the indicator light is off, press about 3~4 seconds to enter emergency mode.
11. 12. 13. Evacuation /Alert voice message / BGM work state indicator:
    - Off - normal.
    - Yellow - with fault.
  - The host feet.
  - Background music storage (SD) card, used to store the background music, in MP3 and WMA format (note the memory card song quantity is within 255).
  - Multi-functional multiplexing keys (RESET/OFF).
    - The user press the zones to close the currently selected zones output.
    - When the PTT microphone is broadcasting, press this button to quickly switch off the broadcasting.
    - When system is with faulty, press this button to temporarily turn off the buzzer output (can keep only 1 minute, if you want to turn off the buzzer output completely, need eliminate the fault and all prohibition detection function for the corresponding faulty module).
    - Press this button to enter the log interface when the system is not in the log interface.
- Note: order of execution - PTT broadcast - select zones - system faults -- back to the main interface.

### Back Panel:



### Connectors:

- 8 programmable trigger signal inputs( can be level or short-circuit signal, up to the configuration).
- System network interface.
- Telephone interface.
- 8 programmable relay output interfaces.
- 4 remote MIC interfaces (note MIC address should be corresponding with the series number).
- CAN bus interface, to connect VA-6000BC or DC24V UPS power supply.
- System firmware upgrade interface.
- Voice SD card plate and fastening screws.
- DC24V power output (can be programmable, manual or automatic control output).
- From left to right: 1, system fault status output interface - when any module is with fault, it will be short circuit output, otherwise disconnected; 2, system operation status output - when the system is in emergency mode, it will be short circuit output, otherwise disconnected; 3, emergency reset input interface - when the system is in emergency mode, input a low-level signal (bigger than 0.5S) to make the system reset to normal mode.
- Microphone / line input 1,- connects to external MIC/CD/TUNE audio signal.
- AUX2/AUX3/AUX4 line input - connects to external standard audio signal such as CD player, radio and so on.
- Unbalanced microphone output signal, that is recording audio signal output.
- The host DC24V DC power input socket, to connect external VA-6000BC
- The main power switch.
- The host shell grounding (Note: please ensure the reliable grounding).
- AC power input socket (with fuse and the power switch, confirm the voltage range before power on), ange before power on).

### Specifications:

Model	VA-6000MA
Electrical Specifications	
AC Power Supply	
Voltage	~220V 50Hz
Maximum Current	Less than 0.2A
Fuse Specification	250V/2A, slow type
Power	36W
DC Power Supply	
Voltage	24V DC, ±20%
Maximum Current	1.5 A
Performance Index	
Emergency Microphone	
Sensitivity	5mV
Impedance	600Ω
Line input	
Distortion	<1% (rated output power), 1KHz
Frequency	80Hz~20KHz
Sensitivity	350mV
Impedance	10KΩ
S/N Ratio	>70dB
Record Output	
Distortion	<1% (rated output power), 1KHz
Frequency	200mV
Sensitivity	>70dB
Contact Output	
Fault Relay Output	Short circuit, no voltage
Fire linkage Relay Output	Short circuit, no voltage
8 Relay Programmable Output	Short circuit, no voltage
Programmable DC24V Power Outputs	+DC 24V, 1A
8 Programmable Trigger Input	
Level Model	highest 3.3V
Short Circuit Mode	Short circuit, no voltage
Short Circuit Input	
Fire Reset Input Contact	Pulse≥0.5S, no voltage
Voice Message	
Data Format	MP3 or WMA format
Storage Type	SD
Information Capacity	65535 (MAX programme of 255 songs)
Storage Time	>10 years
Log Information	
Data Format	HEX
Storage Type	Nand Flash
Information Capacity	2000
Storage Time	>10 years
Mechanical Index	
Size (L x W x D)	484 x 132 x 449 mm (19 inches wide, 3U)
Weight	About 8.0 Kg
Installation	Desktop or 19 inch cabinet
Color	Black
Environmental Requirements	
Operating Temperature	+5°C ~ +40°C
Storage Temperature	-20°C ~ +70°C
Relative Temperature	<95%