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 support user-defined function and system control through PC management software, automatic monitoring and management to physical partition status and terminal equipment, automatic executing 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:
* 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-6000FM and 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, record≤ 1000, 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.
* Host has a full backup function, by adding another host, also can be based on the "cloud" architecture, not only to ensure the system to be more safe , but also to expand system control points (Note: Configure VA-6000ST before adding devices, otherwise the added host cannot operate and work normally, the host will automatically prompt the user to configure).

Features:
* 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.
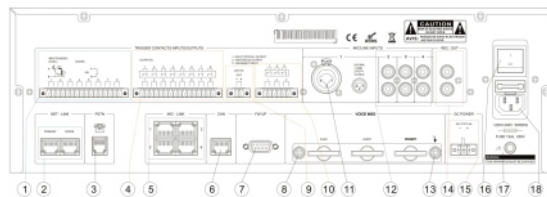* Support linkage to bus fire controller (fanhai Sanjiang 9100 and 9000 series of fire linkage controller).

Front Panel:

Connectors:
①Mounting positioning holes (19 inch cabinet).
②The host AC power supply indicator:
(1)Green - normal. (2)Yellow - with fault.
③The host DC24V standby power indicator:
(1)Green - normal. (2)Out - without configured. (3)Yellow - with fault.
④System status indicator:
(1) 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.
(2)Out - each module is running normally or the system doesn't open module detection;
⑤ ⑥ ⑦Panel emergency PTT (push to talk) microphone.
"⑤" Color status description:
(1)Out - PTT in normal. (2)Green - PTT is broadcasting. (3)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:
(1)if select any zone, then it is zoning broadcasting. (2)Without selecting zone, then it is all zone broadcasting.
(3) 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.
⑧The host interface (5 inch TFT with touch LCD, please refer to the user manual operation).
⑨Partition monitor speaker volume control knob: used to adjust the volume to monitor the current partition audio output after open the monitor.
⑩System work mode switch:
(1) Red rapid flashing - the system is currently in reset mode, prohibiting all manual operation
(2) Red slow flashing - the system is currently in emergency mode (press about 3 seconds to manually or automatically triggered enter into EMC mode , it allows to play EVAC audio , which is not allowed to play in normal mode). (3) 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:
(1)Off - normal. (2) Yellow - with fault.
⑭The host feet.
⑮Background music storage (SD) card, used to store the background music, in MP3 and WMA format (note the memory card song quantity is within 255).
⑯Multi-functional multiplexing keys (RESET/OFF).
(1) The user press the zones to close the currently selected zones output.
(2)when the PTT microphone is broadcasting, press this button to quickly switch off the broadcasting.
(3) 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).
(4) 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:
①8 programmable trigger signal inputs(can be level or short-circuit signal,up to the configuration).
②System network interface.
③Telephone interface.
④8 programmable relay output interfaces.
⑤4 remote MIC interfaces (note MIC address should be corresponding with the series number).
⑥CAN bus interface, to connect VA-6000BC or DC24V UPS power supply.
⑦System firmware upgrade interface.
⑧⑬Voice SD card plate and fastening screws.
⑨DC24V power output (can be programmable, manual or automatic control output).
⑩From 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.
⑪Microphone / line input 1,- connects to external MIC/CD/TUNE audio signal.
⑫AUX2/AUX3/AUX4 line input - connects to external standard audio signal such as CD player, radio and so on.
⑭Unbalanced microphone output signal, that is recording audio signal output.
⑮the host DC24V DC power input socket, to connect external VA-6000BC
⑯the main power switch.
⑰the host shell grounding (Note: please ensure the reliable grounding).
⑱AC power input socket (with fuse and the power switch, confirm the voltage range before power on).

Specifications:

Model	VA-6000MA
Electrical Specifications	
AC Power Supply	
Voltage	~220-240V 50/60Hz
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 100 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℃ ~ +40℃
Storage Temperature	-20℃ ~ +70℃
Relative Temperature	<95%