

OPERATION MANUAL

DIGICOM3K
IP Base PA&GA System
&
NCT162PVSERV/SX
Management Software



Groupe LE LAS
COMMUNICATION SOUS HAUTE PROTECTION

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1 SYSTEM ARCHITECTURE

1.1 System Introduction

PA&GA system is used in an industrial environment to ensure the daily broadcast on site and the broadcast of alarm sounds and emergency command broadcasts in emergency situations. The PAGA system of LELAS is suitable for highly integrated control and management in the fields of petroleum and petrochemical, natural gas, thermal power, nuclear power, metallurgy, medicine, etc. It combines high technology with ease of use and durability. The system is a modular design, which can control up to 64 zones, access 512 dry contact signals, and 1000 telephone stations. Customers can flexibly choose different scales and functions according to their needs, and there is no need to interrupt the entire system during repairs and maintenance. The system is based on controller management and is programmable to support necessary system configuration, self-diagnosis and software upgrades.

1.2 Definitions and Abbreviations

Single Node

In the third layer in the network topology structure, a system can operate independently, within a body of a separate logical LAN. The A+B system is also a single station.

A+B system

Two parallel systems can work independently to each network, and receive the same event signal, the speech signal PAGA system.

Group

The terminal equipment in a single station is divided into logical groups according to the response events.

Master station

Working in a single station, there are fixed personnel on duty, which can perform one-key alarm, zone alarm, broadcast, and two-way conversation. Terminal equipment with display devices and input and output devices.

Terminal station

Working in a single station, there is no fixed personnel on duty, it can initiate broadcast, receive broadcast or alarm, have a two-way conversation function and a terminal device with a display device and an input and output device.

Two way conversation

Provide one-to-one conversations between the master station, front-end station and other master stations or front-end stations.

BYPASS

The system is in the alarm state, and the authorized user can interrupt the function of the alarm event in the maintenance terminal of the single-station software system.

Terminal equipment

Terminal equipment is the hardware connected to the platform system through the network, which is an integral part of the system, including the main control station, audio distribution unit, controller, HMI display, SIP voice module, music player module, SIP phone, power amplifier, line detection And power amplifier hot standby unit, speaker, flashing beacon

1.3 System Architecture



1.4 Introduction to hardware equipment

1.4.1 Power Amplifier and Speaker Line Monitoring Unit

DATASHEET - CFT172P353 SPEAKER LINE MONITORING UNIT

PA&GA / INTERCOM NETWORK SYSTEM EQUIPMENT

FEATURE

- ✓ Amplifier switching and speaker line check all into one
- ✓ Flexible configuration: Support from 1 main +1 standby
- ✓ Up to max. 8 mains+ 1 standby
- ✓ Real-time monitoring of power amplifier status, real-time feedback, automatic switching
- ✓ Speaker bus diagnosis (Open circuit, short circuit, ground)
- ✓ Speaker load detection for each channel from 3 to Maxi 1000W
- ✓ 1 output for fault control signal
- ✓ Support CAN and RS485



DESCRIPTION

The CFT172P353 is a key equipment to realize the real-time monitoring function of the system, use in both small and medium-sized Public Address installations.

By integrating the monitoring functions of the power amplifier and the speaker line into one device, space in the cabinet is saved. And can send real-time device status signals to 3rd party systems.

The CFT172P353 support DIGI-Lite 'A+B' configuration, typical applications include offshore platforms, refineries plant, power and nuclear plants.

SPECIFICATION

Model	CFT172P353
Description	Monitoring Unit
Signal input/output	1:1 (Level Variable)
Dynamic range	+18dB
Frequency response	less than -0.5dB (20Hz~20kHz)
T.H.D.	less than 0.05%
Signal to Noise Ratio	less than 86dB
Check range	20~1600Ω
Check time	less than 100m sec/ Channel
ADC resolution	10bit (1024 step)
Power consumption:	20W
Single channel control power	800W rms Maxi/100V 8A
Amplifier failure detection	Maxi 8 main channels
Zone failure detection	Maxi 8 zones
Automatic detection time	No detection / 5 minutes / 1 Hour / 24 Hours
Detection accuracy	±10% Line impedance
Installation	19" standard 1U height
Power	24Vdc 0.6A
Case size	483mm (L) x 368mm (W) x 44mm (H)
Product weight	4.3 Kg



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1.4.2 Main Access Panel

1

DATASHEET - NCH-153SAL ALARM CONSOLE

PA&GA / INTERCOM NETWORK SYSTEM EQUIPMENT

FEATURE:

- ✓ Mechanic button IP base console, or touch screen type as demand, with microphone.
- ✓ Embed PC technology, built-in DSP & high-speed industrial chip to ensure start time less than 1 second.
- ✓ With 7 -inch LCD user-friendly human-machine interface for touch screen version.
- ✓ With touch screen control or one-key paging to any zone.
- ✓ Several paging capacities: zone paging, group paging, all zone paging, two-way intercom.
- ✓ Built-in 3W full-range monitor speakers with clear voice restoration and no echonoise.
- ✓ Enable to transmit local sources to be broadcasted over network.
- ✓ Within one microphone input and one-line input and one-line output for sound system.
- ✓ 24V DC power supply, the power adapter (220VAC) is included in the packaging.



SPECIFICATION:

Model	NCH-153SAL
Description	Alarm Console
Communication Protocol	TCP/IP, UDP, IGMP, ARP, UDP
Audio Format	MP3
Sampling Rate	8K~48KHz
Transmission Speed	10M/100Mbps
Frequency Response	20Hz~16KHz (+1dB, -3dB)
T.H.D.	≤0.3%
S/N Ratio	>70dB
Connector	One RJ45 port, One mic input
Working temp	-5°C~ +40°C
Humidity	10% ~ 90%
Power Consumption	≤10W
Power Supply	220VAC
Dimensions	380x290x120mm
Weight	3.2Kg



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1.4.3 Audio Distribution Unit

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DATASHEET - NCT900AMAX16 AUDIO PROCESSOR UNIT

PA&GA / INTERCOM NETWORK SYSTEM EQUIPMENT

FEATURE

- ◇ 16-Channel audio input
- ◇ 16-Channel audio output
- ◇ 1 TCP/IP Port for communication
- ◇ 1 x RS232 interface for communication
- ◇ 1 x USB Port for communication



DESCRIPTION

The NCT900AMAX16 is a highly flexible system, making it suitable for use in both small and medium-sized Audio PROCESSOR Public Address installations.

The NCT900AMAX16 is a programmable digital audio controller with a wide range of features. Switching may be triggered in a number of ways including according to audio input priority levels. The NCT900AMAX16 also offers audio signal processing such as sound detection, noise gate, tone adjustment and a 5-band parametric equalizer.

Internal processing and signal processing are fully digital, using Digital Signal Processing (DSP) technology. DSP technology provides the NCT900AMAX16 with a wide range of audio signal processing options and at the same time allows extremely flexible configuration. This product is designed for use in applications where several high-quality audio sources need to be selected and broadcasted to several audio outputs.

The NCT900AMAX16 support DIGI-Lite 'A+B' configuration, typical applications include offshore platforms, refineries plant, power and nuclear plants.

SPECIFICATION

Model	NCT900-AMAX-16
Description	Audio Controller
Frequency response	20Hz-20kHz, +/-0.5dB
THD+N	<0.01%; 20Hz ~ 20kHz@+4dBu
Dynamic Range	114dB, ADC, DAC
Power Supply	100 to 240VA, 50/60Hz
CMRR	>70dB@1kHz
EIN	<125dBu, 22Hz-22kHz
Installation	19 " standard 1U height
Power consumption	75 W
Case size	482mm (L) x 464mm (W) x 44mm (H)
Product weight	2.0 Kg



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1.4.4 Central Controller Unit

1

DATASHEET - NCT900PVLC32 I/O INTERFACE UNIT

PA&GA / INTERCOM NETWORK SYSTEM EQUIPMENT

FEATURE

- ◇ Input/Output Module for management of Paging source, alarm, dry contact signal for beacon
- ◇ Connection to standard field bus (Modbus®)
- ◇ Expandable up to approximately 1024 I/O's
- ◇ Redundant mode available
- ◇ Digital & Analogue Input / Outputs
- ◇ DIN rail mounting design
- ◇ Plug-in, screwless (push-in) terminals for ease of wiring and maintenance
- ◇ Communication: USB / 2 x RS485 ports / EtherNet/IP



DESCRIPTION

The management process unit of the DIGI-Lite PA/GA system are managed by a Programmable Logic Controller (PLC).

The PLC is comprised of a Central Processing Unit (CPU) Module and Additional I/O Modules (local or remote). Up to 16 I/O Modules can be connected over a three wire Bus to up to 1024 I/O connections. Communication between PLC and CPU is via Modbus® protocol.

The PLC CPU can manage an extensive list of remote I/O modules.

The PLC includes, as a minimum, one (1) Ethernet port, two (2) RS 232 serial link and one (1) USB ports.

The I/O modules can also be installed separately from the CPU over the three wire bus, to control I/O modules in remote amplifier cabinets, to control the local equipment and/or temperature.

SPECIFICATION

Model	NCT900-PVLC-32 or NCT900-PVLC-32R (With Redundancy Option)
Description	Management Process Unit
Power Supply	24Vdc
Number of Inputs and Type	32 - Digital
Number of Outputs and Type	32 - Digital
Expandable	32 Modules Max.
Memory Size	128K Words
Operating Temperature	-20°C ~ 60°C
Ingress Protection	IP20



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1.4.5 HMI

1

DATASHEET - RCT900PV1HMI ON LINE MONITORING SYSTEM

PA&GA / INTERCOM NETWORK SYSTEM EQUIPMENT

Feature:

- ✓ The integrated touch solution offers an edge-to-edge design, high-resolution and high-transmittance.
- ✓ 15.6" 1920 x 1080 FHD IPS LCD
- ✓ Quad-core Cortex-A17 CPU with High Performance dedicated 3D Processor
- ✓ Fan-less Cooling System
- ✓ Built-in 4GB Flash Memory and RTC
- ✓ Built-in Power Isolator



Specification:

Display	Display	15.6" IPS
	Resolution	1920x 1080
	Brightness (cd/m2)	300
	Contrast Ratio	800:1
	Backlight Type	LED
	Backlight Life Time	>30,000 hrs.
	Colors	16.2M
	LCD Viewing Angle (T/B/R/L)	89/89/89/89
	Pixel Pitch (mm)	0.17925(H) x 0.17925(V)
Touch Panel	Type	Tempered Glass, Capacitive Type 7H
Memory	Flash	4 GB
	RAM	1 GB
Processor		Quad-core 32-bit RISC 1.6GHz
I/O Port	SD Card Slot	N/A
	USB Host	USB 2.0 x 1
	USB Client	N/A
	Ethernet	10/100 Base-T x 1
	RS-485 Isolation	2
	Audio Output	Built-in Mono Speaker
RTC		Built-in
Power	Input Power	24±20%VDC
	Power Isolation	Built-in
	Power Consumption	1.3A@24VDC
	Voltage Resistance	500VAC (1 min.)
	Isolation Resistance	Exceed 50MQ @ 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Environment	Protection Structure	NEMA4 / IP66 Compliant Front Panel
	Storage Temperature	-20° ~ 60°C (-4° ~ 140°F)
	Operating Temperature	0° ~ 50°C (32° ~ 122°F)
	Relative Humidity	10% ~ 90% (non-condensing)

Order Number :

RCT900PV1HMI



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1.5 Basic System Functions

The DIGICOM3K PAGA system can control up to 64 zones, which can realize one-key general broadcast, one-key general alarm, broadcast by group, group alarm, dry contact alarm, telephone broadcast, timed broadcast, intercom between master stations, power amplifier failure Functions such as automatic switching, loudspeaker loop detection, and failure prompts.

Features	Description
General broadcast	In an emergency state, a one-key broadcast is initiated to a pre-defined area, which has a higher priority.
Group broadcast	Daily broadcast, the broadcast target can be flexibly set.
Timed broadcast	The system can realize timed broadcast in By Month, By Week, By Day, Single, etc.
Interface with PABX system	The system can be configured with a telephone interface, and the PABX system's telephone extension dial-in system can broadcast.
Point-to-point call	The system supports point-to-point dialing calls between stations to avoid unnecessary frequent broadcast.
General alarm	In an emergency state, a one-key manual alarm is initiated to a pre-defined area, which has a higher priority.
Group alarm	In the second emergency state, a one-key manual alarm is performed on a specific partition.
Dry contact alarm	The system can access up to 128 dry contact signals, can fully meet the various scale projects.
Controller architecture	The system is composed of a controller architecture with strong editable logic and stable system operation.
Broadcast/alarm flashing beacon	The system supports flashing light function, and can be connected with visual flashing light for broadcast/alarm indication.
Alarm Activation	The system can be configured with at least 19 modifiable /pre-recordings alarm tone, and can realize the manual or automatic linkage alarm function of the whole plant/zone through the interface with the F&G system.
Amplifier hot standby and online monitoring	The system has the function of automatic switching of amplifier failure and the online monitoring function of external speakers.

Fault detection	Systems with self-diagnosis function detects all online equipment operating conditions, and prompts the appropriate error message.
HMI	The system control software is an easy-to-operate graphical window interface, which can perform function configuration, fault information query and historical record query on the HMI display screen, which is easy to operate.
Zone of system	The system can be configured with multiple zones as required. The modular design can configure the number of zone according to user requirements, and supports up to 64 zones.
Wireless system interface	The system can provide an interface to support the access of the wireless system, so that the walkie-talkie terminal can make whole area/zone broadcast.

1.5.1 Access Panel Main Page Introduction

1.5.1.1 Supervision Page

02/03/21 20:10:07 Supervision Configuration History & Maintenance Engineer

System Current Status

Controller Connection Flash Fault Audio Fault Abnormity

Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16
Z17	Z18	Z19	Z20	Z21	Z22	Z23	Z24	Z25	Z26	Z27	Z28	Z29	Z30	Z31	Z32
Z33	Z34	Z35	Z36	Z37	Z38	Z39	Z40	Z41	Z42	Z43	Z44	Z45	Z46	Z47	Z48
Z49	Z50	Z51	Z52	Z53	Z54	Z55	Z56	Z57	Z58	Z59	Z60	Z61	Z62	Z63	Z64

System Current Event

02/03/2021	20:06:34	ID005-CS1 AI 2	
02/03/2021	20:06:01	ID004-CS1 AI 1	

"**Supervision**" is the system status monitoring page, which is used to display the system status and the events currently occurring in the system.

"**Controller Connection**" indicates the connection status between the controller and the HMI.

Indicator green : connection normal; Indicator yellow: connection abnormal.

"**Flash Fault**" means flashing fault status.

Indicator green: flashing beacon loop normal; Indicator yellow: flashing light loop abnormal.

Click on the indicator to display the following screen:

02/03/21 18:38:52 Supervision Configuration History & Maintenance Engineer

Flash Line Status

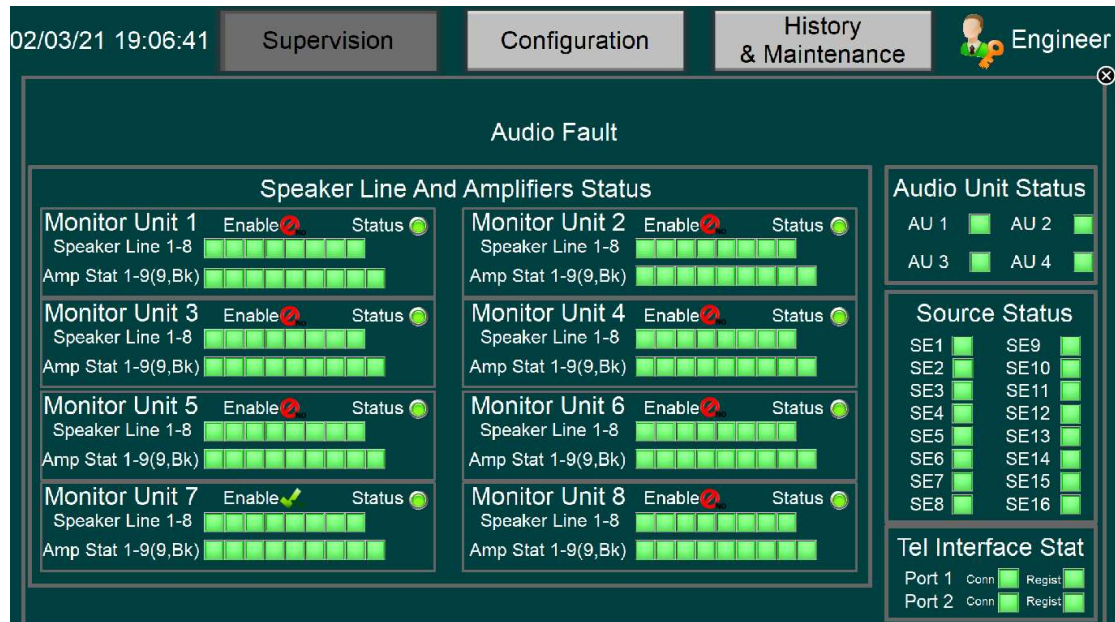
Flash Line 1-8	Flash Line 17-24	Flash Line 33-40
Flash Line 9-16	Flash Line 25-32	Flash Line 41-48
Flash Line 49-56	Flash Line 65-72	Flash Line 81-88
Flash Line 57-64	Flash Line 73-80	Flash Line 89-96
Flash Line 97-104	Flash Line 113-120	Flash Line 129-136
Flash Line 105-112	Flash Line 121-128	Flash Line 137-144
Flash Line 145-152	Flash Line 161-168	Flash Line 177-184
Flash Line 153-160	Flash Line 169-176	Flash Line 185-192

“Flash Line 1-8”has a yellow indicator, which indicates that there is a beacon fault in the line 7.

“Audio Fault” Indicates audio failure status.

Indicator green: Audio status is normal; Indicator yellow: Audio status is abnormal.

Click on the indicator to display the following screen:

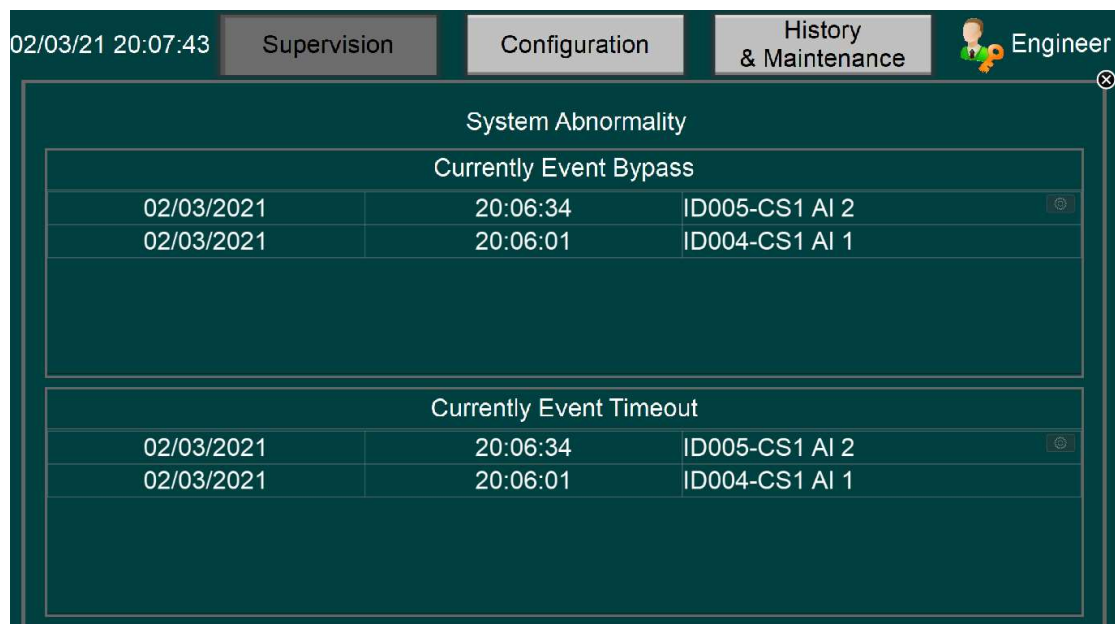


In the "Audio Fault" page, display amplifier faults, speaker line faults, audio distribution unit faults, audio source faults, and telephone interface faults

"Abnormal" means the system is abnormal

Indicator green: Audio status is normal; Indicator yellow: Audio status is abnormal.

Click on the indicator to display the following screen:



In the "System Abnormal" page, the most recent bypass events and timeout events can be displayed.

1.5.1.2 Configuration Page

The screenshot displays the 'Configuration' page of a system interface. At the top, there is a header bar with the date and time '02/03/21 20:30:32', and three main navigation tabs: 'Supervision', 'Configuration' (which is active), and 'History & Maintenance'. On the right of the header, there is a user profile icon labeled 'Engineer'. A left sidebar contains a list of system modules: 'System', 'Call Station Paging & Alarm', 'Contact Alarm', 'Telephone Paging', 'Timing Broadcast', 'Master Paging And Alarm', and 'Flash'. The main content area is divided into several sections: 1. 'Audio Unit Configuration' with four rows for AU 1, 2, 3, and 4, each having input fields for IP address segments (192, 168, 1, and a unit-specific last segment: 132, 133, 134, 135). 2. 'Tel Interface' with checkboxes for 'Port 1' and 'Port 2'. 3. 'Network' section with 'HMI IP' and 'Con IP' rows, each containing fields for IP segments, a 'Mark' field, and a 'GW' field with a 'Set' button. 4. 'Date And Time' section with 'Local Date' and 'Local Time' fields, a 'Synchronization' button labeled 'Time Sync', and 'Controller Date' and 'Controller Time' fields. 5. 'Audio' section with a dropdown for 'Audio Channel 1', an 'Enable' checkbox, a 'Channel' dropdown set to '1', a 'Pre-recording' checkbox, and a 'Trigger Channel' dropdown set to '1'. 6. 'Line & Speaker Monitor' section with a row of checkboxes for 'Line Monitor & AMP Backup Unit (1-8) Enable (1-8)', where the 8th unit is checked. 7. A 'Language' dropdown menu currently set to 'English'.

"**Configuration**" is the system configuration page, used to configure system parameters and functions.

Select "**System**", the IP address of the audio distribution unit can be configured in the "**Audio Unit Configuration**" module.

"Tel Interface" module can configure telephone interface.

"Network" module can configure HMI IP address and controller IP address

"**Date And Time**" module can set local time, controller time and synchronize local and controller time.

"**Audio**" module configures the audio source enable and the corresponding channel.

"**Line & Speaker Monitor**" module selects the amplifier and speaker line detection.

"**Language**" module can select language types, system provides three languages: English, French and Chinese.

"**Call Station Paging & Alarm**" module is used to configure general broadcast, zone broadcast, general alarm, zone alarm, and temporary music initiated by the master station.

"**Contact Alarm**" module is used to configure dry contact alarm.

"**Telephone Paging**" module is used to configure the telephone broadcast.

"**Timing Broadcast**" module is used to configure timed broadcast.

"**Master Paging And Alarm**" module is used to configure the broadcast and alarm of the master station to the substation.

"**Flash**" module is used to configure the flash mode.

1.5.1.3 History & Maintenance Page

02/18/21 14:57:10

Supervision

Configuration

History & Maintenance

 Engineer

Bypass Option

Call Station/Key	Call Station 1	Emergency Paging	Bypass ☐
Tele Paging	Tel Paging 1		Bypass ☐
Master Paging & Alarm	Master Paging & Alarm 1		Bypass ☐
Contact Alarm	Contact 1		Bypass ☐
Timing Broadcast	Timing Broadcast 1		Bypass ☐

Event History

02/03/2021	22:58:37	ID005-CS1 AI 2	
02/03/2021	22:57:53	ID449-RB 1 Bypass	
02/03/2021	22:54:53	ID449-RB 1	
02/03/2021	22:52:00	ID449-RB 1	
02/03/2021	20:07:18	ID289-SS Z1 PA Bypass	
02/03/2021	20:06:39	ID005-CS1 AI 2 Timeout	
02/03/2021	20:06:34	ID005-CS1 AI 2	
02/03/2021	20:06:11	ID005-CS1 AI 2 Bypass	
02/03/2021	20:06:01	ID004-CS1 AI 1	

“**History & Maintenance**” is the interface for viewing and maintaining history records.

In "History & Maintenance", when a function cannot be shut down normally, you can perform the "**Bypass**" operation on each function in the "Bypass Option".

In the "**Event History**", you can view the historical records. The historical records include the date, time, and event type of the event.

1.5.2 Access Panel Operating Instructions

1.5.2.1 System Login



Click“ ”at Access panel, the following screen appears:

According to different permissions, select the corresponding user, the system provides three permissions: "Engineer", "Monitor", and "Operator". After the user selects, enter the login password through the soft keyboard, the soft keyboard mode is as shown in the figure below:



Note: After entering the password, you need to click the Enter key to confirm, otherwise the input is invalid.

After a successful password below the login screen displays "Succeeds", click on "Login" enter the system, as shown below:

1.5.2.2 System Function Configuration

1.5.2.2.1 General Broadcast Configuration

(1) In the "Configuration" page, select "Call Station Paging & Alarm", as shown in the figure below:

02/18/21 15:36:06

Supervision

Configuration

History & Maintenance

 Engineer

System

Call Station 1

Emergency Paging

Call Station Paging & Alarm

Contact Alarm

Telephone Paging

Timing Broadcast

Master Paging And Alarm

Flash

Z1

Z9

Z17

Z25

Z33

Z41

Z49

Z57

Z2

Z10

Z18

Z26

Z34

Z42

Z50

Z58

Z3

Z11

Z19

Z27

Z35

Z43

Z51

Z59

Z4

Z12

Z20

Z28

Z36

Z44

Z52

Z60

Z5

Z13

Z21

Z29

Z37

Z45

Z53

Z61

Z6

Z14

Z22

Z30

Z38

Z46

Z54

Z62

Z7

Z15

Z23

Z31

Z39

Z47

Z55

Z63

Z8

Z16

Z24

Z32

Z40

Z48

Z56

Z64

Priority

1

Input Channel

3

Timeout Range(S)

500

Recovery

☒

(2) Select the master station that needs to be configured in "Call Station", as shown in the figure below:

Call Station 1

Call Station 1

Call Station 2

Call Station 3

Call Station 4

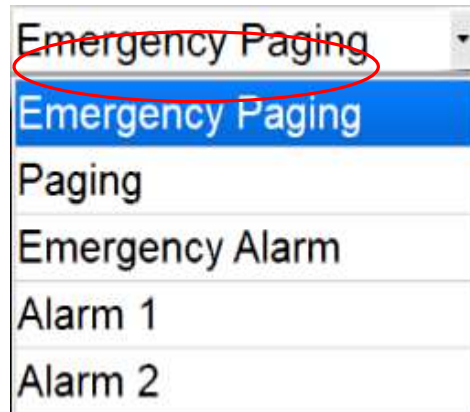
Call Station 5

Call Station 6

Call Station 7

Call Station 8

Select "**Emergency Paging**" in the function menu, as shown below:



(3) Select all zones Z1~Z23;

(4) **Priority:** Set the priority according to needs. The priority range (1~30000). The smaller the number, the higher the priority. After inputting, click the Enter key to confirm, otherwise the input is invalid.

(5) **Input Channel:** Audio distribution unit input channel.

(6) **Timeout Range:** timeout setting, the range is 0~32767. the unit is second.

When the "**Emergency Paging**" operation exceeds the preset value, the system defaults to timeout and this operation is interrupted.

(7) **Recovery:** Check Recovery. When "**Emergency Paging**" is interrupted by an operation with a higher priority, the current operation will be held. After the operation with higher priority ends, "**Emergency Paging**" can be restored; when Recovery is not checked, after the operation with higher priority ends, "**Emergency Paging**" cannot be restored.

1.5.2.2.2 Zone Broadcast Configuration

(1) In "Configuration" page, select "Call Station Paging & Alarm", shown in the figure below:

02/18/21 15:58:13 Supervision Configuration History & Maintenance  Engineer

System

Call Station Paging & Alarm

Contact Alarm

Telephone Paging

Timing Broadcast

Master Paging And Alarm

Flash

Call Station 1 Paging

Z1	☒	Z2	☒	Z3	☒	Z4	☒	Z5	☐	Z6	☐	Z7	☐	Z8	☐
Z9	☒	Z10	☒	Z11	☒	Z12	☒	Z13	☐	Z14	☐	Z15	☐	Z16	☐
Z17	☐	Z18	☐	Z19	☐	Z20	☐	Z21	☐	Z22	☐	Z23	☐	Z24	☐
Z25	☐	Z26	☐	Z27	☐	Z28	☐	Z29	☐	Z30	☐	Z31	☐	Z32	☐
Z33	☐	Z34	☐	Z35	☐	Z36	☐	Z37	☐	Z38	☐	Z39	☐	Z40	☐
Z41	☐	Z42	☐	Z43	☐	Z44	☐	Z45	☐	Z46	☐	Z47	☐	Z48	☐
Z49	☐	Z50	☐	Z51	☐	Z52	☐	Z53	☐	Z54	☐	Z55	☐	Z56	☐
Z57	☐	Z58	☐	Z59	☐	Z60	☐	Z61	☐	Z62	☐	Z63	☐	Z64	☐

Priority

40

Input Channel

3

Timeout Range(S)

500

Recovery

☒

(2) Select the master station that needs to be configured in "Call Station", shown in the figure below:

Call Station 1

Call Station 1

Call Station 2

Call Station 3

Call Station 4

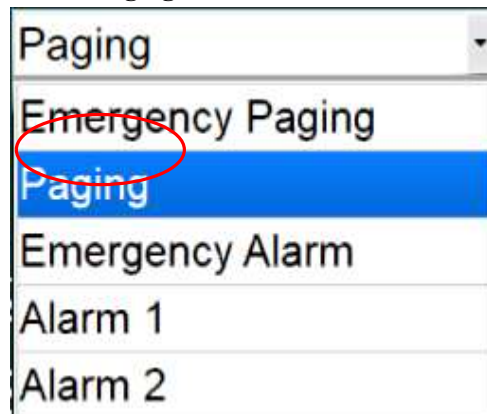
Call Station 5

Call Station 6

Call Station 7

Call Station 8

Select "**Paging**" in the function menu bar, as shown below:



(3) Select the zone that needs to be broadcast among the zones Z1~Z23.

(4) **Priority:** Set the priority according to needs. The priority range (1~30000). The smaller the number, the higher the priority. After inputting, click the Enter key to confirm, otherwise the input is invalid.

(5) **Input Channel:** Audio distribution unit input channel.

(6) **Timeout Range:** timeout setting, the range is 0~32767. the unit is second.

When the "**Paging**" operation exceeds the preset value, the system defaults to timeout and this operation is interrupted.

(7) **Recovery:** Check Recovery. When "**Paging**" is interrupted by an operation with a higher priority, the current operation will be held. After the operation with higher priority ends, "**Paging**" can be restored; when Recovery is not checked, after the operation with higher priority ends, "**Paging**" cannot be restored.

1.5.2.2.3 General Alarm Configuration

(1) In the "Configuration" page, select "Call Station Paging & Alarm", shown in the figure below:

02/18/21 16:05:33

Supervision

Configuration

History & Maintenance

Engineer

System

Call Station 1

Emergency Alarm

Call Station Paging & Alarm

Contact Alarm

Telephone Paging

Timing Broadcast

Master Paging And Alarm

Flash

Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8
Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16
Z17	Z18	Z19	Z20	Z21	Z22	Z23	Z24
Z25	Z26	Z27	Z28	Z29	Z30	Z31	Z32
Z33	Z34	Z35	Z36	Z37	Z38	Z39	Z40
Z41	Z42	Z43	Z44	Z45	Z46	Z47	Z48
Z49	Z50	Z51	Z52	Z53	Z54	Z55	Z56
Z57	Z58	Z59	Z60	Z61	Z62	Z63	Z64

Priority

2

Input Channel

8

Timeout Range(S)

500

Recovery

☒

(2) Select the master station needs to be configured in "Call Station", shown in the figure below:

Call Station 1

Call Station 1

Call Station 2

Call Station 3

Call Station 4

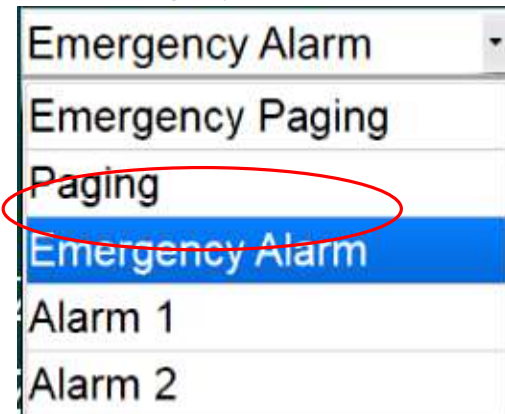
Call Station 5

Call Station 6

Call Station 7

Call Station 8

Select "**Emergency Alarm**" in the function menu, as shown in the figure below:



(3) Select all zones Z1~Z23.

(4) **Priority:** Set the priority according to needs. The priority range (1~30000). The smaller the number, the higher the priority. After inputting, click the Enter key to confirm, otherwise the input is invalid.

(5) **Input Channel:** Audio distribution unit input channel.

(6) **Timeout Range:** timeout setting, the range is 0~32767. the unit is second.

When the "**Paging**" operation exceeds the preset value, the system defaults to timeout and this operation is interrupted.

(7) **Recovery:** Check Recovery. When "**Paging**" is interrupted by an operation with a higher priority, the current operation will be held. After the operation with higher priority ends, "**Paging**" can be restored; when Recovery is not checked, after the operation with higher priority ends, "**Paging**" cannot be restored.

1.5.2.2.4 Zone alarm configuration

(1) In the "Configuration" page, select "Call Station Paging & Alarm", shown in the figure below:

02/18/21 16:13:45 Supervision Configuration History & Maintenance Engineer

System

Call Station Paging & Alarm

Contact Alarm

Telephone Paging

Timing Broadcast

Master Paging And Alarm

Flash

Call Station 1

Alarm 1

Z1	☒	Z2	☒	Z3	☐	Z4	☐	Z5	☐	Z6	☐	Z7	☐	Z8	☐
Z9	☐	Z10	☐	Z11	☒	Z12	☒	Z13	☐	Z14	☐	Z15	☐	Z16	☐
Z17	☐	Z18	☐	Z19	☐	Z20	☐	Z21	☒	Z22	☒	Z23	☐	Z24	☐
Z25	☐	Z26	☐	Z27	☐	Z28	☐	Z29	☐	Z30	☐	Z31	☒	Z32	☒
Z33	☐	Z34	☐	Z35	☐	Z36	☐	Z37	☐	Z38	☐	Z39	☐	Z40	☐
Z41	☐	Z42	☐	Z43	☐	Z44	☐	Z45	☐	Z46	☐	Z47	☐	Z48	☐
Z49	☐	Z50	☐	Z51	☐	Z52	☐	Z53	☐	Z54	☐	Z55	☐	Z56	☐
Z57	☐	Z58	☐	Z59	☐	Z60	☐	Z61	☐	Z62	☐	Z63	☐	Z64	☐

Priority

50

Input Channel

10

Timeout Range(S)

500

Recovery

☒

(2) Select the master station needs to be configured in "Call Station", shown in the figure below:

Call Station 1

Call Station 1

Call Station 2

Call Station 3

Call Station 4

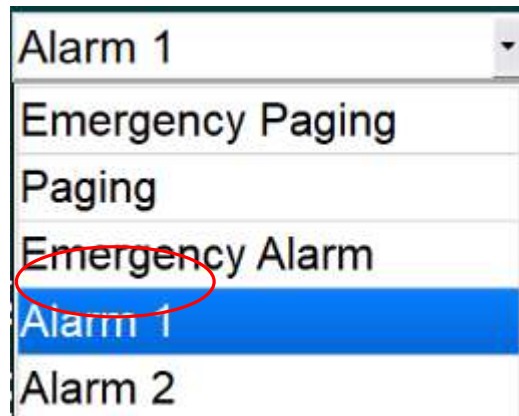
Call Station 5

Call Station 6

Call Station 7

Call Station 8

Select "Alarm 1" in the function menu, as shown in the figure below:



(3) Select the zone that needs alarm in the Z1~Z64 .

(4) **Priority:** Set the priority according to needs. The priority range (1~30000). The smaller the number, the higher the priority. After inputting, click the Enter key to confirm, otherwise the input is invalid.

(5) **Input Channel:** Audio distribution unit input channel.

(6) **Timeout Range:** timeout setting, the range is 0~32767. the unit is second.

When the "**Paging**" operation exceeds the preset value, the system defaults to timeout and this operation is interrupted.

(7) (7) **Recovery:** Check Recovery. When "**Alarm 1**" is interrupted by an operation with a higher priority, the current operation will be held. After the operation with higher priority ends, "**Alarm 1**" can be restored; when Recovery is not checked, after the operation with higher priority ends, "**Alarm 1**" cannot be restored.

(8) The configuration of other zone alarm events is the same as above.

1.5.2.2.5 Dry Contact Alarm Configuration

(1) In the "Configuration" page, select "Contact Alarm", as shown in the figure below:

02/20/21 10:41:50 Supervision Configuration History & Maintenance Engineer

System

Call Station Paging & Alarm

Contact Alarm

Telephone Paging

Timing Broadcast

Master Paging And Alarm

Flash

Contact 1 Enable ☒

Z1 ☐	Z2 ☒	Z3 ☐	Z4 ☒	Z5 ☐	Z6 ☒	Z7 ☐	Z8 ☒
Z9 ☒	Z10 ☐	Z11 ☒	Z12 ☐	Z13 ☒	Z14 ☐	Z15 ☒	Z16 ☐
Z17 ☐	Z18 ☐	Z19 ☐	Z20 ☐	Z21 ☐	Z22 ☐	Z23 ☐	Z24 ☐
Z25 ☐	Z26 ☐	Z27 ☐	Z28 ☐	Z29 ☐	Z30 ☐	Z31 ☐	Z32 ☐
Z33 ☐	Z34 ☐	Z35 ☐	Z36 ☐	Z37 ☐	Z38 ☐	Z39 ☐	Z40 ☐
Z41 ☐	Z42 ☐	Z43 ☐	Z44 ☐	Z45 ☐	Z46 ☐	Z47 ☐	Z48 ☐
Z49 ☐	Z50 ☐	Z51 ☐	Z52 ☐	Z53 ☐	Z54 ☐	Z55 ☐	Z56 ☐
Z57 ☐	Z58 ☐	Z59 ☐	Z60 ☐	Z61 ☐	Z62 ☐	Z63 ☐	Z64 ☐

Priority

Input Channel

Trigger Channel

Timeout Range(S)

Recovery

10

6

17

500

☒

(2) Select the dry contact alarm event that needs to be configured in "**Contactor**". The system can support up to 512 dry contact alarm events, as shown in the figure below:

Contactactor 1

Contactactor 1

Contactactor 2

Contactactor 3

Contactactor 4

Contactactor 5

Contactactor 6

Contactactor 7

Contactactor 8

(3) Select "**Enable**", otherwise, the operation can't be performed;
(4) Select the zone that needs alarm in the Z1~Z23.
(5) **Priority:** Set the priority according to needs. The priority range (1~30000). The smaller the number, the higher the priority. After inputting, click the Enter key to confirm, otherwise the input is invalid.

(6) **Input Channel:** Audio distribution unit input channel.

(7) **Trigger Channel:** Trigger signal channel.

(8) **Timeout Range:** Timeout setting, the range is 0~32767, the unit is second.

When the "**Contactactor 1**" operation exceeds the preset value, the system defaults to timeout and this operation is interrupted.

(9) **Recovery:** Select Recovery. When "**Contactactor 1**" is interrupted by an operation with a higher priority, the current operation will be held. After the higher priority operation ends, "**Contactactor 1**" can be resumed. In the same way, when Recovery is not selected, and the higher priority operation ends, "**Contactactor 1**" cannot be recovered;

(10) The rest of the dry contact alarm event configuration is the same as above.

1.5.2.2.6 Timed Broadcast Configuration

(1) In the "Configuration" page, select "Timing Broadcast", as shown in the figure below:

02/20/21 10:15:02 Supervision Configuration History & Maintenance Engineer

System Timing Broadcast 1 Enable ☒ Trigger Single End Single

Z1 ☒	Z2 ☐	Z3 ☐	Z4 ☐	Z5 ☐	Z6 ☐	Z7 ☐	Z8 ☐
Z9 ☐	Z10 ☐	Z11 ☐	Z12 ☐	Z13 ☐	Z14 ☐	Z15 ☐	Z16 ☐
Z17 ☐	Z18 ☐	Z19 ☐	Z20 ☐	Z21 ☐	Z22 ☐	Z23 ☐	Z24 ☐
Z25 ☐	Z26 ☐	Z27 ☐	Z28 ☐	Z29 ☐	Z30 ☐	Z31 ☐	Z32 ☐
Z33 ☐	Z34 ☐	Z35 ☐	Z36 ☐	Z37 ☐	Z38 ☐	Z39 ☐	Z40 ☐
Z41 ☐	Z42 ☐	Z43 ☐	Z44 ☐	Z45 ☐	Z46 ☐	Z47 ☐	Z48 ☐
Z49 ☐	Z50 ☐	Z51 ☐	Z52 ☐	Z53 ☐	Z54 ☐	Z55 ☐	Z56 ☐
Z57 ☐	Z58 ☐	Z59 ☐	Z60 ☐	Z61 ☐	Z62 ☐	Z63 ☐	Z64 ☐

Trigger time Year: 2021 Month: Feb Day: 3 Hour: 22 Minute: 56 Second: 43 Week: Wed.

End time Year: 2021 Month: Feb Day: 6 Hour: 15 Minute: 25 Second: 10 Week: Wed.

Priority: 60 Input Channel: 9 Trigger Channel: 9 Timeout Range(S): 500 Recovery: ☒

(2) Select the timed broadcast event that needs to be configured in "Time Broadcast". This system can support up to 16 timed broadcast events, as shown in the figure below:

Timing Broadcast 1

Timing Broadcast 1

Timing Broadcast 2

Timing Broadcast 3

Timing Broadcast 4

Timing Broadcast 5

Timing Broadcast 6

(3) Select "Enable", otherwise, the operation can't be performed.

(4) There are four trigger modes in "Trigger", namely "By Mouth", "By Week", "By Day" and "Single", as shown in the figure below:

By Month

None

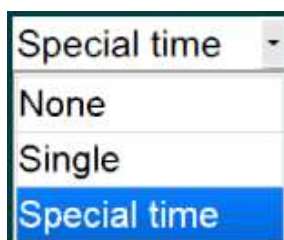
By Month

By Week

By Day

Single

(5) Two end modes in "End", namely "Special Time" and "Single", as shown in the figure below:



(6) Select the zone needs to be broadcast regularly in the Z1~Z64.

(7) **“Trigger Time”、 “End Time”**: In the end mode is "Special Time", when the trigger mode is "By Mouth", only the start date and start time need to be set.

When the trigger mode is "By Week", only the start week and start time need to be set.

When the trigger mode is "By Day", only the start time needs to be set.

When the trigger mode is "Single", the starting year, month, day and time need to be set.

In the end mode is "Single", when the trigger mode is "By Mouth", only need to set the date and time when the broadcast starts.

When "By Week" is selected, only the week and time of the broadcast start are required.

When selecting "By Day", only need to set the start time of the broadcast.

When select "Single", only need to set the year, month, day, and time of the broadcast start.

When the end mode is "Single", the timed broadcast music is only played once, and it will be automatically interrupted after the music ends.

(8) **Priority**: Set the priority according to needs. The priority range (1~30000). The smaller the number, the higher the priority. After inputting, click the Enter key to confirm, otherwise the input is invalid.

(9) **Input Channel**: Audio distribution unit input channel.

(10) **Trigger Channel**: Trigger signal channel.

(11) **Timeout Range**: Timeout setting, the range is 0~32767, the unit is second.

When the "Paging" operation exceeds the preset value, the system defaults to timeout and this operation is interrupted.

(12) **Recovery**: Select Recovery. When "Paging" is interrupted by an operation with a higher priority, the current operation will be held. After the higher priority operation ends, "Paging" can be resumed. In the same way, when Recovery is not selected, and the higher priority operation ends, "Paging" cannot be recovered;

(13) The rest of the timed broadcast event settings are the same as above.

1.5.2.2.7 Temporary Music Playback Configuration

(1) In the "Configuration" page, select "Call Station Paging & Alarm", as shown in the figure below:

02/22/21 15:48:41

Supervision

Configuration

History & Maintenance

Engineer

System

Call Station Paging & Alarm

Contact Alarm

Telephone Paging

Timing Broadcast

Master Paging And Alarm

Flash

Call Station 1

Custom 1

Z1	☒	Z2	☐	Z3	☒	Z4	☐	Z5	☒	Z6	☐	Z7	☒	Z8	☐
Z9	☒	Z10	☐	Z11	☒	Z12	☐	Z13	☒	Z14	☐	Z15	☒	Z16	☐
Z17	☐	Z18	☐	Z19	☐	Z20	☐	Z21	☐	Z22	☐	Z23	☐	Z24	☐
Z25	☐	Z26	☐	Z27	☐	Z28	☐	Z29	☐	Z30	☐	Z31	☐	Z32	☐
Z33	☐	Z34	☐	Z35	☐	Z36	☐	Z37	☐	Z38	☐	Z39	☐	Z40	☐
Z41	☐	Z42	☐	Z43	☐	Z44	☐	Z45	☐	Z46	☐	Z47	☐	Z48	☐
Z49	☐	Z50	☐	Z51	☐	Z52	☐	Z53	☐	Z54	☐	Z55	☐	Z56	☐
Z57	☐	Z58	☐	Z59	☐	Z60	☐	Z61	☐	Z62	☐	Z63	☐	Z64	☐

Priority

59

Input Channel

6

Timeout Range(S)

500

Recovery

☒

(2) Select the master station needs to be configured in "Call Station", as shown in the figure below:

Call Station 1

Call Station 1

Call Station 2

Call Station 3

Call Station 4

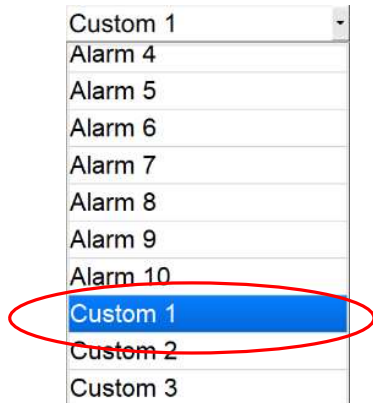
Call Station 5

Call Station 6

Call Station 7

Call Station 8

Select "**Custom 1**" in the function menu, as shown in the figure below:



(3) Select the zone that needs temporary music playback among the Z1~Z23.

(4) **Priority:** Set the priority according to needs. The priority range (1~30000). The smaller the number, the higher the priority. After inputting, click the Enter key to confirm, otherwise the input is invalid.

(5) **Input Channel:** Audio distribution unit input channel.

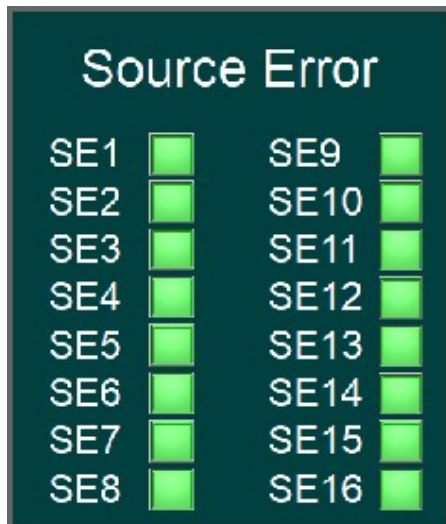
(6) **Trigger Channel:** Trigger signal channel.

(7) **Recovery:** Select Recovery, when the temporary music broadcast is interrupted by an operation with a higher priority, the current operation will be on hold. After the operation with higher priority ends, the temporary music broadcast can be resumed; when Recovery is not selected, the temporary music broadcast cannot be resumed after the operation with higher priority ends.

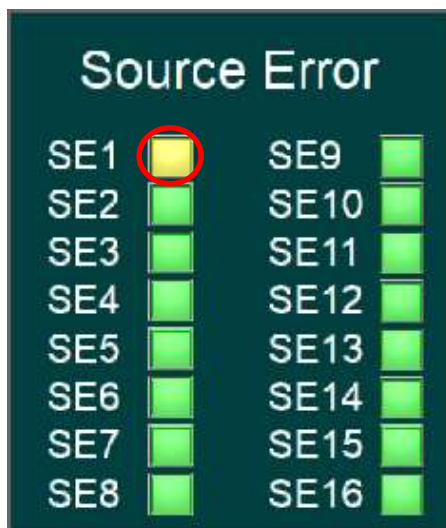
1.5.3 System Failure Monitoring

1.5.3.1 Audio Source Fault Monitoring

When all the audio sources are in normal state, in the "**System Error**", the "**Source Error**" indicator is green, as shown in the figure below:

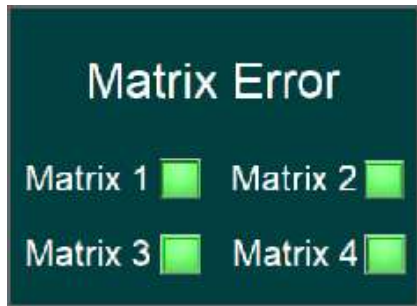


When a certain audio source is triggered and the audio source does not respond, it will be displayed in the "**Source Error**" that the audio source is faulty, and the indicator light is yellow, as shown in the figure below:

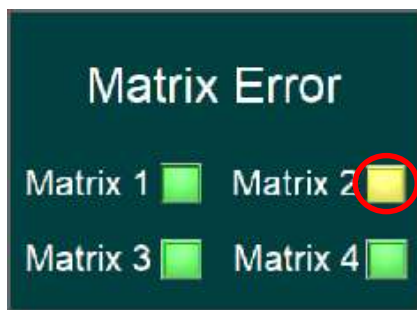


1.5.3.2 Audio Distribution Unit Failure Monitoring

When the audio distribution unit is working normally, the "**Matrix Error**" indicator is green, as shown in the figure below:

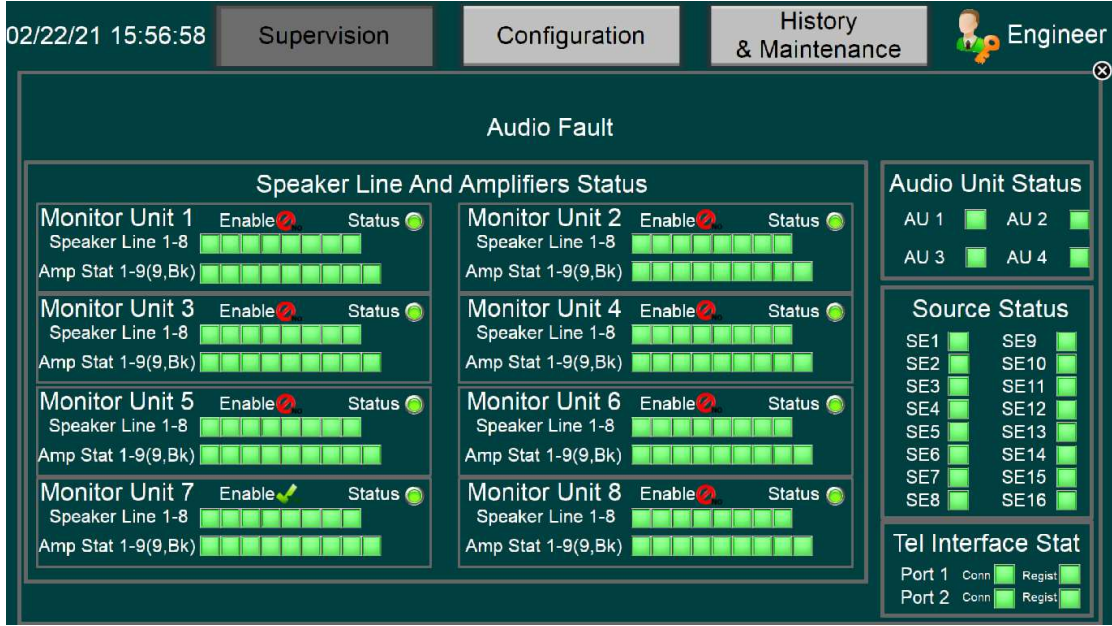


When the audio distribution unit is faulty, it will be displayed in the "**Matrix Error**" that the audio distribution unit is faulty, and the indicator status is yellow, as shown in the following figure:



1.5.3.3 Hot Standby Unit Fault Monitoring

In the "System" page, select whether to enable the amplifier and speaker line detection unit. When the detection unit is enabled, the "Monitor Unit" status is displayed as "Enable "; when the detection unit is not enabled, the "Monitor Unit" status is displayed as "Enable ", as shown in the figure below:



When the hot backup unit is online, the "Status" indicator is green; when the hot backup unit is offline, the "Status" indicator is red.

1.5.3.4 Speaker Line Fault Monitoring

(1) When the line status of all speakers is normal, in the "System Error", the status of the "Speaker Line 1-8" indicator is green, as shown in the figure below



(2) When an open-circuit fault occurs to the speaker line, the status of the line indicator with open-circuit fault in "Speaker Line 1-8" is yellow, as shown in the figure below:



(3) When a short-circuit fault occurs in the speaker in the line, the status of the line indicator with short-circuit fault in "Speaker Line 1-8" is red, as shown in the following figure:



(4) When a ground fault occurs speaker line, "Speaker Line 1-8" in the presence of a ground fault in the line status indicator is blue, as shown below:



1.5.3.5 Amplifier Status Fault Monitoring

When the status of all channels of the amplifier is normal, in the "**System Error**", the status of the "**Amp Status 1-9**" indicator is green, as shown in the figure below:



When a certain channel of the power amplifier fails, the status of the failed channel indicator in "**Amp Status 1-9**" is yellow, as shown in the figure below:



1.5.4 System Event Query

1.5.4.1 “Bypass” Event Query

When the "Bypass" event occurs in the system, the "Abnormity" status indicator icon in the "Supervision" interface will turn yellow and flash, as shown in the figure below:

02/22/21 17:07:37

Supervision

Configuration

History & Maintenance

System Current Status

Controller Connection

Flash Fault

Audio Fault

Abnormity

Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16
Z17	Z18	Z19	Z20	Z21	Z22	Z23	Z24	Z25	Z26	Z27	Z28	Z29	Z30	Z31	Z32
Z33	Z34	Z35	Z36	Z37	Z38	Z39	Z40	Z41	Z42	Z43	Z44	Z45	Z46	Z47	Z48
Z49	Z50	Z51	Z52	Z53	Z54	Z55	Z56	Z57	Z58	Z59	Z60	Z61	Z62	Z63	Z64

System Current Event

02/22/2021	15:41:18	ID465-OS AI 1	
02/22/2021	15:40:42	ID465-OS AI 1	
02/22/2021	11:04:32	ID465-OS AI 1	
02/22/2021	10:27:32	ID002-CS1 Pa	
02/22/2021	10:27:25	ID002-CS1 Pa	
02/22/2021	10:27:16	ID002-CS1 Pa	

Click "Abnormity" to enter the view interface. In "Currently Event Bypass", the current "Bypass" event will be displayed, including the date, time, event number, event ID, event originating device, and event type, as shown in the following figure:

02/22/21 17:12:03

Supervision

Configuration

History & Maintenance



System Abnormality			
Currently Event Bypass			
02/22/2021	15:41:18	ID465-OS AI 1	
02/22/2021	15:40:42	ID465-OS AI 1	
02/22/2021	11:04:32	ID465-OS AI 1	
02/22/2021	10:27:32	ID002-CS1 Pa	
02/22/2021	10:27:25	ID002-CS1 Pa	
02/22/2021	10:27:16	ID002-CS1 Pa	
Currently Event Timeout			
02/22/2021	15:41:18	ID465-OS AI 1	
02/22/2021	15:40:42	ID465-OS AI 1	
02/22/2021	11:04:32	ID465-OS AI 1	
02/22/2021	10:27:32	ID002-CS1 Pa	
02/22/2021	10:27:25	ID002-CS1 Pa	
02/22/2021	10:27:16	ID002-CS1 Pa	

1.5.4.2 "Timeout" Event Query

When a "Timeout" event occurs in the system, the "Abnormity" status indicator icon in the "Supervision" interface will turn yellow and flash, as shown in the figure below:

11/23/20 10:32:58 Supervision Configuration History & Maintain user2

System Current Status Error **Abnormity**

Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16
Z17	Z18	Z19	Z20	Z21	Z22	Z23	Z24	Z25	Z26	Z27	Z28	Z29	Z30	Z31	Z32
Z33	Z34	Z35	Z36	Z37	Z38	Z39	Z40	Z41	Z42	Z43	Z44	Z45	Z46	Z47	Z48
Z49	Z50	Z51	Z52	Z53	Z54	Z55	Z56	Z57	Z58	Z59	Z60	Z61	Z62	Z63	Z64

System Current Event

11/23/2020	09:48:03	ID001-CS1 EPa
11/23/2020	09:47:40	ID001-CS1 EPa
11/23/2020	09:47:38	ID001-CS1 EPa
11/23/2020	09:47:36	ID001-CS1 EPa
11/23/2020	09:47:34	ID001-CS1 EPa
11/23/2020	09:47:17	ID001-CS1 EPa

Click "Abnormity" to enter the viewing interface. In "Currently Event Timeout", the current "Timeout" event will be displayed, including the date, time, event number, event ID, event originating device, and event type, as shown in the figure below:

11/23/20 10:46:52 Supervision Configuration History & Maintain user2

System Abnormal X

Currently Event Bypass

11/23/2020	10:45:00	ID289-TS Pa 1 Bypass	
11/23/2020	10:29:59	ID289-TS Pa 1 Bypass	
11/23/2020	10:29:58	ID001-CS1 EPa Bypass	
11/17/2020	12:33:45	ID001-CS1 EPa Bypass	

Currently Event Timeout

11/23/2020	10:46:08	ID002-CS1 Pa Timeout	
11/17/2020	12:35:47	ID002-CS1 Pa Timeout	
11/17/2020	12:35:20	ID002-CS1 Pa Timeout	

1.5.4.3 Current Event Query

The events that occur in the system can be queried in the "System Current Event" on the "Supervision" interface, including the date, time, event number, event ID, event originating device, and event type, as shown in the figure below:

11/23/20 11:07:32

Supervision

Configuration

History & Maintain

 user2

System Current Status

Error

Abnormity 

Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	Z11	Z12	Z13	Z14	Z15	Z16
Z17	Z18	Z19	Z20	Z21	Z22	Z23	Z24	Z25	Z26	Z27	Z28	Z29	Z30	Z31	Z32
Z33	Z34	Z35	Z36	Z37	Z38	Z39	Z40	Z41	Z42	Z43	Z44	Z45	Z46	Z47	Z48
Z49	Z50	Z51	Z52	Z53	Z54	Z55	Z56	Z57	Z58	Z59	Z60	Z61	Z62	Z63	Z64

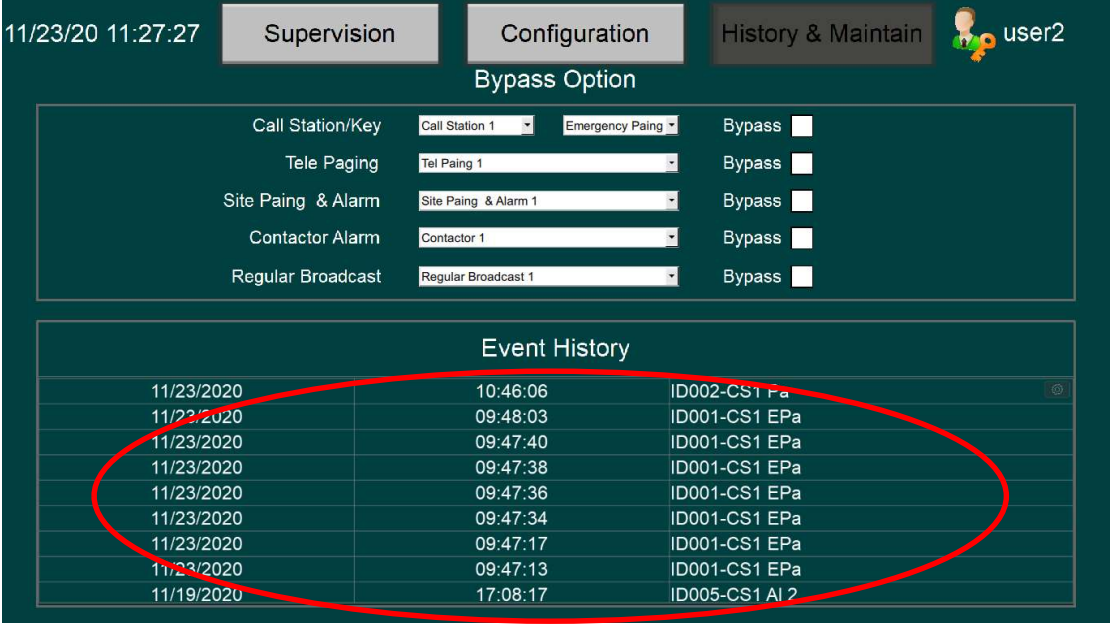
System Current Event

11/23/2020	10:46:06	ID002-CS1 Pa
11/23/2020	09:48:03	ID001-CS1 EPa
11/23/2020	09:47:40	ID001-CS1 EPa
11/23/2020	09:47:38	ID001-CS1 EPa
11/23/2020	09:47:36	ID001-CS1 EPa
11/23/2020	09:47:34	ID001-CS1 EPa

Note: The data storage space that can be queried in the current event query is small. When the system is restarted, the current event list is cleared.

1.5.4.4 Historical Event Query

The history of events in the system can be queried in the "Event History" of the "History & Maintain" interface, including the date, time, event number, event ID, event originating device, and event type, as shown in the following figure:



The screenshot displays the 'History & Maintain' interface. At the top, there are tabs for 'Supervision', 'Configuration', and 'History & Maintain', with 'History & Maintain' being the active tab. The user 'user2' is logged in. Below the tabs, there is a 'Bypass Option' section with several rows of controls, each with a dropdown menu and a 'Bypass' checkbox. Below this is the 'Event History' table, which contains a list of events. A red oval highlights a group of rows in the table, specifically those with dates from 11/23/2020 and times between 09:47:13 and 09:48:03.

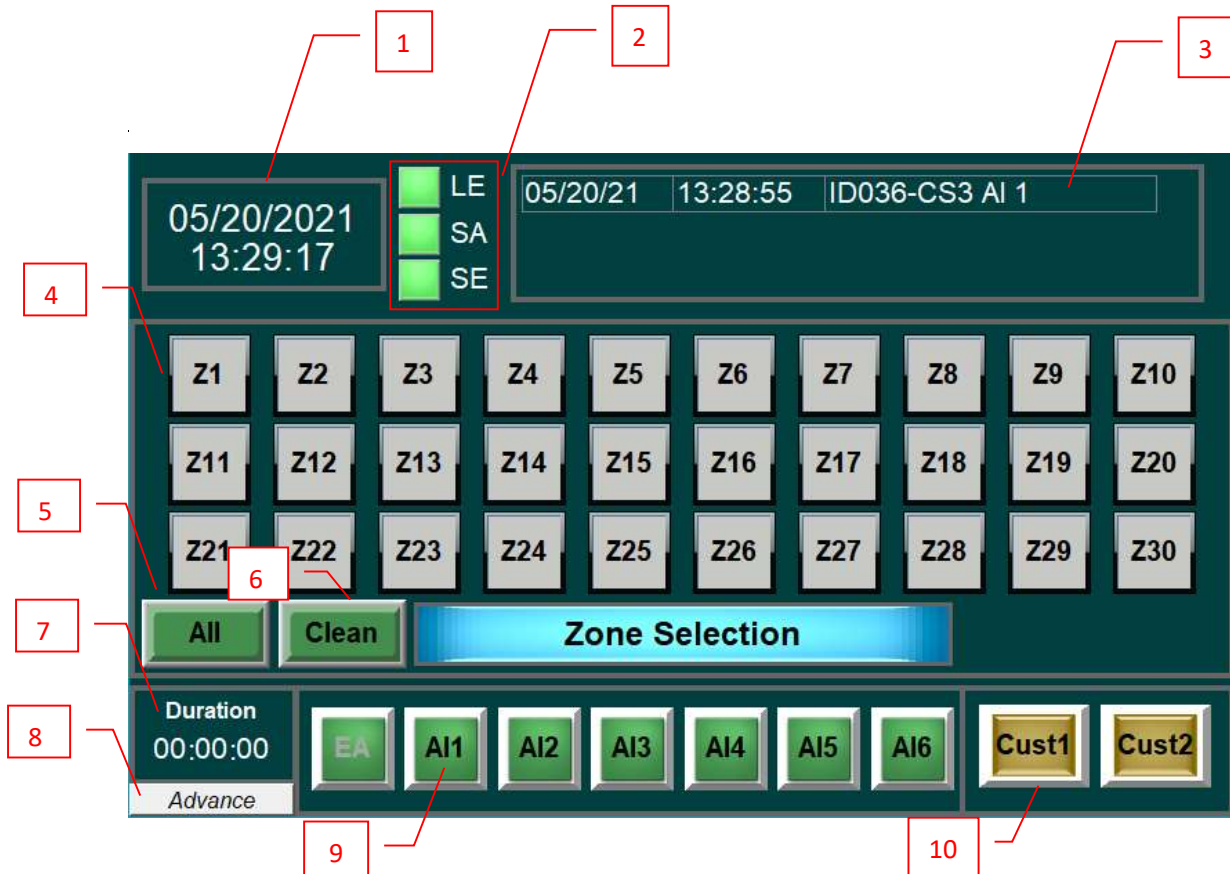
Event History		
11/23/2020	10:46:06	ID002-CS1 Pa
11/23/2020	09:48:03	ID001-CS1 EPa
11/23/2020	09:47:40	ID001-CS1 EPa
11/23/2020	09:47:38	ID001-CS1 EPa
11/23/2020	09:47:36	ID001-CS1 EPa
11/23/2020	09:47:34	ID001-CS1 EPa
11/23/2020	09:47:17	ID001-CS1 EPa
11/23/2020	09:47:13	ID001-CS1 EPa
11/19/2020	17:08:17	ID005-CS1 AI 2

Note: The data storage space that can be queried in historical event query is relatively large. After the system is restarted, historical events can still be queried.

1.6 NCH153SAL ACCESS PANEL

1.6.1 NCH153SAL Main Page Introduction

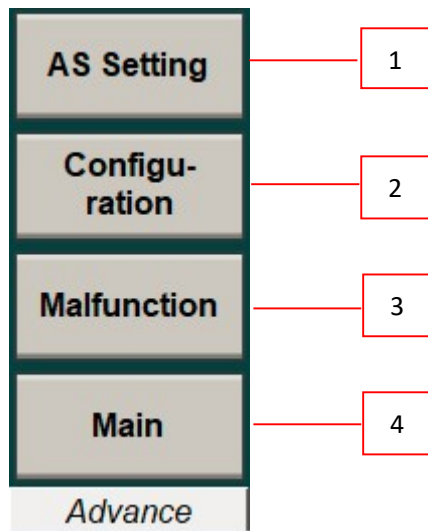
1.6.1.1 Main Page Description



- (1) — Date and time;
- (2) — Failure information (including local failure, system failure, system abnormality);
- (3) — current event list;
- (4) — Group list;
- (5) — All select button (when clicking "All", all 30 groups will be selected);
- (6) — Clear all group button (when clicking "Clean", all the previously selected group will be canceled);
- (7)- Task execution time;
- (8) — Menu navigation button;
- (9) — Zone alarm button;
- (10)-Temporary broadcast button;

1.6.1.2 “Advance”Page Introduction

When clicking the "Advance" button, several options as shown as below:



- (1) — Audio source failure setting;
- (2) — System configuration;
- (3) — Fault display;
- (4) — Return to the main page.

(1) Click on "AS Setting", is shown below:

Sound Source Channels Correspond	
EPaging Channel	Null
Paging Channel	Null
EAlarm Channel	Null
Alarm 1 Channel	Null
Alarm 2 Channel	Null
Alarm 3 Channel	Null
Alarm 4 Channel	Null
Alarm 5 Channel	
Alarm 6 Channel	Null
Alarm 7 Channel	Null
Alarm 8 Channel	Null
Alarm 9 Channel	Null
Alarm 10 Channel	Null
Customer Channel 1	Null
Customer Channel 2	Null
Customer Channel 3	Null

Advance

Set the 5 audio source channel in the NCH153SAL access panel matching at this page: emergency broadcast, zone broadcast, emergency alarm, zone alarm, and temporary music broadcast.

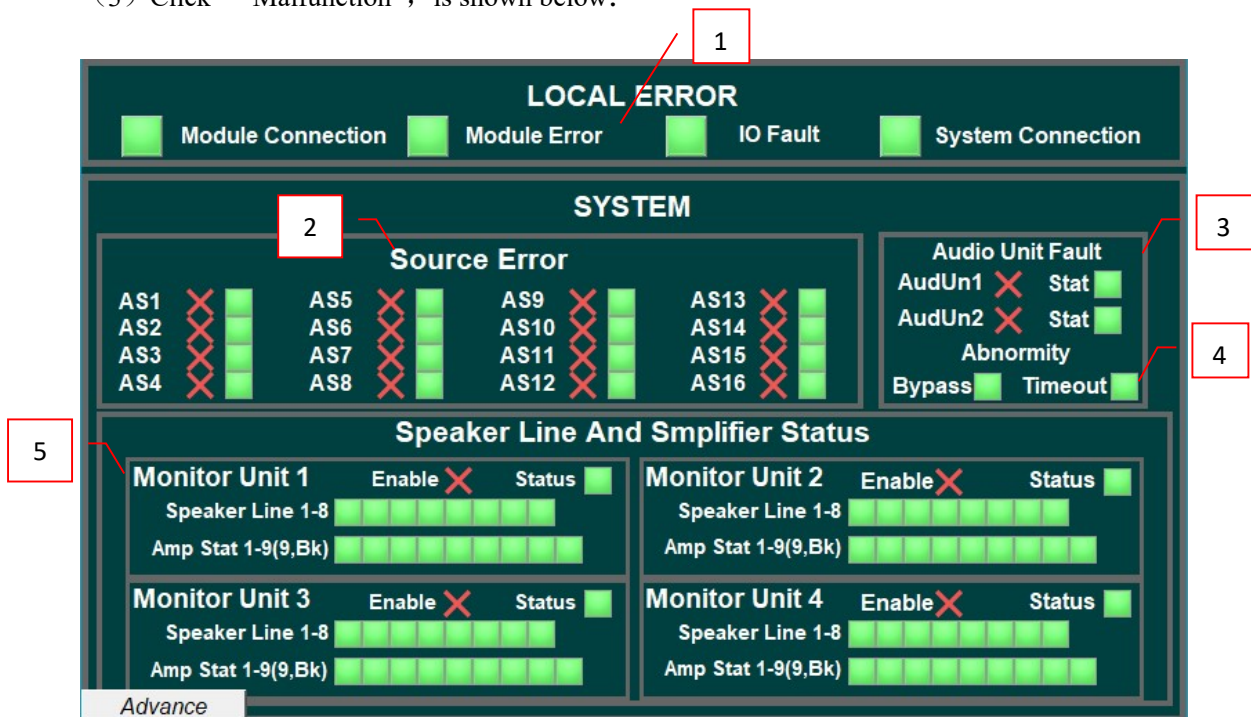
As shown in the figure, set "EPaging Channel" to " 1", when the audio source 1 fails, click the "Emergency Paging" button on the main page, the system prompts the fault message "AS Fault", When the audio source fault is removed, the "AS Fault" prompt message disappears.
The audio source channel matching settings for other functions are the same as above.

(2) Click "Configuration", is shown below :

The screenshot shows the 'Local Configuration' interface. At the top right, 'CPU 3 %' is displayed (callout 1). The main title 'Local Configuration' is at the top center (callout 2). Below the title, the 'Base' section contains several settings: 'Device ID' is a dropdown menu showing '3' (callout 5); 'Language' is a dropdown menu showing 'English' (callout 3); 'Time And Date' is a section with a 'Sync' button (callout 4); 'Local IP' is a 4-digit input field with values 192, 168, 1, 238 and a 'Confirm' button (callout 5); 'Local Mask' is a 4-digit input field with values 255, 255, 255, 0 (callout 6); 'Local GW' is a 4-digit input field with values 192, 168, 4, 1 (callout 6); 'Contr IP' is a 4-digit input field with values 192, 168, 1, 5 and a 'Confirm' button (callout 6); 'Module IP' is a 4-digit input field with values 0, 0, 0, 0 and a 'Confirm' button (callout 7); 'Module Mask' is a 4-digit input field with values 0, 0, 0, 0 (callout 7); 'Module GW' is a 4-digit input field with values 0, 0, 0, 0 (callout 8); and 'Paging IP' is a 4-digit input field with values 0, 0, 0, 0 (callout 8). Below the 'Base' section is the 'Volume Setting' section (callout 9), which contains three sliders: 'Mic Gain (Paging)' (callout 10), 'Volume (Intercom)' (callout 10), and 'Mic Gain (Intercom)' (callout 11). At the bottom left, there is an 'Advance' button (callout 9).

- ①— CPU utilization percentage;
- ②— NCH153SAL Access Panel ID (this system can add up to 8 Access panel);
- ③ — Language (three languages can be supported: English, French, Chinese);
- ④— Time synchronization;
- ⑤— Local IP address, subnet mask, gateway;
- ⑥—The IP address of the controller;
- ⑦—Module IP address, subnet mask, gateway;
- ⑧—Broadcast IP address;
- ⑨— Broadcast microphone gain;
- ⑩— Talking volume;
- ⑪— Talk microphone gain.

(3) Click “Malfunction”, is shown below:



① — Local fault monitoring (including local connection fault, module fault, button fault and connection fault with controller);

② — Audio source failure monitoring;

When the audio distribution unit is enabled, the "Audio Unit" status is displayed as “” ,

When the audio distribution unit is not enabled, the "Audio Unit" status is displayed as “” .

When the audio distribution unit is working normally, the "Status" status is “”, When the audio distribution unit is faulty, the "Status" status is “”.

③ — Matrix fault monitoring;

④ — System abnormality monitoring (including "Bypass" abnormality and "Timeout" abnormality);

When the system is running normally, the "Bypass" and "Timeout" statuses are “”, When the system has a "Bypass" event, the "Bypass" status is “”. When the system has a "Timeout" event, the "Timeout" status is “”.

⑤ — Speaker circuit and power amplifier status monitoring

When the "Monitor Unit" is enabled, the "Enable" status of the monitoring unit is displayed as “” , When the "Monitor Unit" is not enabled, the "Enable" status of the monitoring unit is

displayed as “”.

When the "Monitor Unit" is working normally, the "Status" status of the monitoring unit is “”, and when the "Monitor Unit" has a fault, the "Status" status of the monitoring unit is “”.

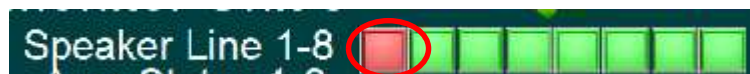
When the line status of all speakers is normal, the status of the "Speaker Line 1-8" indicator light is green, as shown in the figure below:



When an open-circuit fault occurs to the speaker in the line, the status of the line indicator with open-circuit fault in "Speaker Line 1-8" is yellow, as shown in the figure below:



When a short-circuit fault occurs in the speaker in the line, the status of the line indicator with short-circuit fault in "Speaker Line 1-8" is red, as shown in the figure below:



When a ground fault occurs to the speaker in the line, the status of the line indicator with a ground fault in "Speaker Line 1-8" is blue, as shown in the figure below:



When the status of all channels of the amplifier is normal, the status of the "Amp Status 1-9" indicator is green, as shown in the figure below:



When a certain channel of the power amplifier fails, the status of the failed channel indicator in "Amp Status 1-9" is yellow, as shown in the figure below:



(4) Click "Main" to return to the main page of the access panel.

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