

X-618 Public Address and Voice Alarm System

Operation Manual

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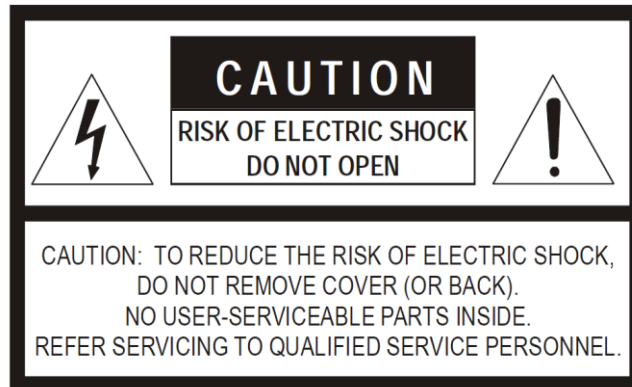
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Safety Guidelines



Danger

This sign reminds users that the product contains equipment that has dangerous levels of high voltage.



Caution

This sign reminds users of important instructions attached to the product.

Safety Guideline

To prevent an electric shock, do not use an extension cord when connecting the appliance to a plug outlet. Do not block the appliance air vents by placing other equipment on top of it.

Safety Guideline

Do not expose the appliance to rain or moisture to avoid causing a fire or an electric shock.

Safety Precautions

For the installation, operation, and use of this product, please carefully read the following precautions.

Electrical Safety

- The product installation and use must comply with local electrical safety regulations.
- Honeywell assumes no liability for user errors or misuse that result in a fire or an electrical shock.

Transportation Safety

- During transportation, do not violently shake the appliance or expose it to corrosive liquids.

Environmental Requirements

- Do not install the appliance in an environment with extreme temperatures or excessive amounts of dust.
- The appliance should be placed away from direct sunlight in a well-ventilated, clean, and stable environment without vibrations or shocks. The optimum working environment temperature is 5 - 28 °C with a relative humidity < 95%. If the equipment is in operation for a long time and the ambient temperature is too high, it is recommended that effective measures be taken to reduce the temperature.
- The required appliance power supply voltage is AC 100V~ 220V (-15% ~ +10%) 50 ~ 60 Hz or DC 12V/24V. If the voltage is too high, too low, or fluctuates too drastically, it is recommended to install a stable AC power source.

- The appliance is not waterproof. Do not expose the appliance to rain or moisture to avoid damage.
- Place the appliance on a level, stabilized surface or rack.
- Do not place other items on top of the appliance.

Safe Use Precautions

- Install the equipment under the guidance of qualified technicians.
- Before using the appliance, make sure that the power cables are not damaged. The power cables must clearly show quality and safety inspection labels.
- The power plug and outlet prong configuration must match. If the plug outlet does not match the prong configuration of the plug, the outlet must be replaced with one that matches the plug.
- The appliance must have a sufficient power source and an independent grounding wire.
- Note that the equipment must be properly grounded. Otherwise, the equipment could fail to work properly or be damaged.
- When the power is turned on, high voltage runs through the power lines and the appliance. Do not open the appliance to prevent an electric shock.
- When installing the appliance, make sure the wires and cables are configured correctly to avoid damage to the equipment.
- When the power is turned on, do not touch power terminals with lightning safety logos to prevent an electric shock.
- When the power is turned on, do not physically alter the appliance to avoid damaging the equipment.
- Honeywell assumes no liability for appliance malfunctions. Please consult qualified technicians for repairs.

Manual Labels and Information

- Please note the product labels, product categories, power requirements, and other information.
- Read this manual thoroughly and use the equipment in accordance with the provided instructions. This manual can be used as a reference for other components related to this product. For more specific information, contact Honeywell.
- Keep this manual for future reference.

Standard and Certification

Standards to be followed and relevant certification information obtained for X-618 Public Address and Voice Alarm System are introduced.

CCC Certification Description



CCC (China Compulsory Certification) is “CCC” authoritative certification composed of Conformity Certification of Electrical Equipment (CCEE), China Commodity Inspection Bureau (CCIB) and Electromagnetic Certification (EMC).

CCC mainly imposes compulsory certification on products involving human health and safety, animal and plant life and health, environmental protection and public safety. It is a advanced sign for General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China and Certification and Accreditation Administration of the People's Republic of China to be in line with international practice and has irreplaceable significance.

CCCF Certification



CCCF (China Certification Center for Fire Products Ministry of Public Security) certification means the product authorized by the Public Security of the People's Republic of China.

CE Certification



CE (Conformite Europeenne) means the products marked with CE meet 89/336/EEC and 73/23/EEC issued by European Commission.

Table of Contents

Safety Guidelines.....	i
Safety Precautions	i
Electrical Safety	i
Transportation Safety	i
Environmental Requirements	i
Safe Use Precautions	ii
Manual Labels and Information.....	ii
Standard and Certification.....	ii
CCC Certification Description	ii
CCCF Certification.....	iii
CE Certification.....	iii
Preface.....	1
Brief Introduction	1
Intended Reader	1
Relevant Documents	1
Use Instructions	1
1 X-DCS2000/EN Operations Guide.....	2
Powering the DCS On/Off	2
Fault Confirmation	2
Equipment State Restoration	2
System Self-Test.....	2
Zone Selection	3
Zone Monitoring	3
Time Delay Cancellation.....	3
Volume Control	3
Broadcasting Operation	4
Public Address.....	4
Manual Emergency Broadcasting	4
Automatic Emergency Broadcasting	5
Public Paging.....	5
Emergency Paging.....	6
2 X-DA1500EN/DA2250EN/DA4125EN Operations Guide.....	7
Powering the DA On/Off	7
Precautions.....	7
3 NPM Operations Guide	8
Initializing the NPM.....	8
Public Address and Paging.....	9
Emergency Broadcasting and paging	10
Volume Setting.....	10
Monitor Function	11
Full Duplex Intercom Function.....	11
Initiating the Intercom Function.....	11
Receiving an Intercom Request.....	12
View IP setting	12
Viewing the IP Address	12
Troubleshooting	12
4 X-NRI/EN Operations Guide.....	14
Powering the NRI On/Off	14

Precautions.....	14
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Preface

Thanks for buying X-618 Public Address and Voice Alarm System. In the following sections the X-618 Public Address and Voice Alarm System is referred to as the “X-618 system”. Please carefully read this manual prior to product use so as to ensure correct use of the system.

Brief Introduction

This manual mainly describes the main hardware products of X-618 system. The following chapters are included:

Chapter 1: X-DCS2000/EN Operations Guide

This chapter describes the basic operations and relevant precautions of the X-DCS2000/EN.

Chapter 2: X-DA1500EN/DA2250EN/DA4125EN Operations Guide

This chapter describes the basic operations and relevant precautions of the X-DA1500EN/X-DA2250EN/ X-DA4125EN.

Chapter 3: X-NPM Operations Guide

This chapter describes the basic operations and troubleshooting of the NPM.

Chapter 4: X-NRI/EN Operations Guide

This chapter describes the basic operations and relevant precautions of the X-NRI/EN

Intended Reader

This manual is mainly for personnel who are to use the X-618 system.

Relevant Documents

The following documents can be used as a reference when reading this manual:

- X-618 Public Address and Voice Alarm System Product Description
- X-618 Public Address and Voice Alarm System Installation Manual
- X-618 Public Address and Voice Alarm System Configuration Manual

Use Instructions

- All content including figures in this manual are to be used only for reference.
- The product may be subject to change from time to time without notice.
- It is strongly recommended that users read all warnings and precautions in this manual carefully.
- Carefully read this manual before using the product and keep it as a reference for future use.
- This manual has been reviewed with its accuracy is ensured. In case of any doubt or dispute of the product description, the final interpretation given by the Life Safety A/V (Guangzhou) Co., Ltd. shall prevail.
- The Life Safety A/V (Guangzhou) Co., Ltd is not liable for any consequences caused by user mistakes when using the product or user misunderstandings of the manual content.

1 X-DCS2000/EN Operations Guide

The X-DCS2000/EN Digital Integrated System Manager is hereinafter referred to as the “DCS” or “X-DCS2000/EN”.

The X-DCS2000/EN is a broadcasting control device that expands broadcasting zones and supports multiple sound sources. The X-DCS2000/EN integrates with functions such as the sound source file storage system, network audio broadcasting system, the loudspeaker zone control system, and the system for monitoring and diagnosing faults. The DCS integrates well and is easily configured.

Mainly describes the basic operations and precautions of the DCS system.

Powering the DCS On/Off

The system powers on when the power switch is in the “I” position, and powers off when the switch is in the “O” position.

When the indicator light for the main or standby power supply on the front panel of the DCS turns green, the respective power supply is working normally.

When the power supply indicator light turns orange, the respective power supply has experienced a fault. Check whether the power supply is connected correctly and that the DCS power switch is turned on.

Fault Confirmation

When the system detects a fault, a failure warning tone is heard.

Press the **FAULT** button to confirm the fault. The warning tone stops, and the fault indicator light turns orange.

Equipment State Restoration

When the system fault has been identified and fixed, the equipment state needs to be restored.

Press the **RESET** button to reset the equipment state. All fault indicator lights are restored to their normal states, and the fault warning tone stops.

System Self-Test

The DCS self-test function is activated by pressing the **TEST** button on the front panel. Operation steps involve the following:

1. Press the **TEST** button to activate the self-test function for the DCS and equipment connected to the system.

All of the indicator lights that display just one color are turned on. All of the lights that can display two colors switch back and forth between these two colors. The fault indication buzzer rings continuously.

2. Press the **TEST** button again to stop the self-test program.



Note:

- The self-test function does not affect the normal operation of other functions unrelated to the self-test function. For example, if the self-test function is initiated during voice broadcasting, the voice broadcast function is not interrupted and the all indicator lights will flicker.
 - The system times out in one minute by default. If the self-test function occurs for a minute without being manually halted, the system automatically stops the self-test function.
-

Zone Selection

A zone is selected by pressing the button that represents the zone. Press the selected zone button again to deselect the zone.

Press the **ALL** button on the DCS front panel to select all zones, and press this button again to deselect them.



Note:

Only the enabled zones which have been set in the Config software are selectable.

Zone state indicator lights have the following meanings:

- A solid orange light indicates the zone has been disabled or has short-circuited.
- A flickering orange light indicates the zone has an open circuit.
- Green light indicates that the system is broadcasting.
- Red light indicates the system is broadcasting fire emergency information.
- A flickering green light indicates the zone has been selected. When the light is off this indicates the zone is either not selected or is not in use.
- If a zone is selected and no other operation is performed for more than one minute, the zone indicator light automatically returns to its original state.

Zone Monitoring

The DCS can monitor sound being broadcast in certain zones. Perform the following steps to monitor sound being broadcast in particular zones:

1. Press and hold to the **MONITOR** button until the following step 2 has finished.
2. Select the needed zone to be monitored. The monitoring loudspeaker plays the sound being broadcast in the selected zone.

The DCS can only monitor one zone, and the system automatically cancels the previous zone that has been selected if another zone is selected. Repeat the above operations can monitor the other zones.

3. Press the **MONITOR** button again to stop zone monitoring.

Time Delay Cancellation

When the DCS is performing the time delay task and in the delayed state, the delay indicator light turns on. If the play task is to be performed immediately, then the time delay needs to be cancelled by pressing the **DELAY** button. When the button is pressed, the equipment automatically initiates playing.

Volume Control











Note:

Note that the No, of the zone button is the power amplifier audio channel No,

The sound volume of the power amplifier channels is adjusted by pressing combinations of buttons simultaneously, as shown in Table 1.

Table 1 Power Amplifier Audio Channel Sound Volume Controls

Channel No.	Increase Volume	Decrease Volume
1	"Fn" button + PA1 	"Fn"button + PA1 
2	"Fn"button + PA2 	"Fn"button + PA2 
3	"Fn"button + PA3 	"Fn"button + PA3 
4	"Fn"button + PA4 	"Fn"button + PA4 

Broadcasting Operation

This section describes how to use the X-DCS2000/EN for public broadcasting, including general-purpose broadcasting and fire emergency broadcasting.

The system can play four different sound sources in different zones.

Public Address

Public address includes playing background music, voice messages, and external input sound sources.

When the system is being debugged, the buttons of sound sources corresponding to the sound source in the software configuration must be set.

To make a public address, follow the steps below:

1. Select the zone or zones for the broadcast.
Press the **Zone** button to select a zone or zones. Multiple zones can be selected. To select all zones, press the **ALL** button. Indicator lights for selected zones flash green.
2. Select the sound source or sources to be broadcast.
Press the **Sound Source** button to select the sound sources.
3. Previewing the sound source is available if the sound source indicator light flashes green.
Press the associated sound source button again to confirm the sound source. Press the **CLOSE** button to cancel or stop previewing the sound source. Press the sound source button once more to confirm the sound source selection and begin broadcasting. If the sound source button is not pressed within a one minute time frame, the system automatically cancels previewing the sound source.

The sound source is broadcasted according to the configuration policies set in the software.

Both broadcasting in selected zones or a specific sound source that is being broadcasted can be stopped, as is described below:

- To stop broadcasts in specific zones, follow the steps below:
 1. Select the zones in which the broadcast is to be stopped.
 2. Press the **CLOSE** button to stop broadcasting in the selected zones.
- To stop broadcasting a particular sound source, follow the steps below:
 1. Press and hold to the Close button until the following step 2 has finished.
 2. Select the sound source button representing the sound source that is to be stopped, and then stop the broadcasts occurring in the zones that are broadcasting the particular sound source.

Manual Emergency Broadcasting

To manually make an emergency broadcast, follow the steps below:

1. The manual emergency broadcasting mode is initiated by pressing the **Emergency** button.
The equipment will stop the all functions which have nothing to do with the emergency broadcasting automatically, such as background music broadcasting.
2. Select the zone or zones for the broadcast.

Press the **Zone** button to select a zone or zones. Multiple zones can be selected. To select all zones, press the **ALL** button. Indicator lights for selected zones flash green.

3. Select the sound sources.
4. Previewing the sound source is available if the sound source indicator light flashes green. The built-in loudspeaker broadcasts according to the play policy for audition. Press the associated sound source button again to confirm the sound source to broadcast in the selected zones. If there are some mistake about sound source, press "**CLOSE**" to cancel the broadcast operations.
If the previewing the sound source is unavailable during the configuration, the sound source will broadcast in the selected zones directly after finish sound source selecting.
5. In this emergency mode, the normal public address (such as background music) is unavailable. Broadcasting is controlled according to the broadcasting scheme.
6. In the manual emergency mode, if the users want to force some zones to close, just need to select the corresponding zones and press "**CLOSE**".
7. The **Emergency** button is pressed a second time, the emergency broadcasting mode ends. In the mode of the manual emergency broadcasting, the system will not respond the fire linkage signal.

Automatic Emergency Broadcasting

In the normal public address mode, the equipment cannot do the manual emergency broadcasting operation, but the automatic emergency broadcasting mode will be initiated when the equipment receive a fire control alarm activation signal. And then the equipment will close all the normal public address to broadcast the preset emergency sound source automatically.

The fire linkage signal may come from:

- DCS contact input
- The fire alarm system interface module that connect with the RS-485 of DCS
- NRI contact input in the system
- The fire alarm system interface module that connect with the RS-485 of NRI in the system

According to the fire linkage functions which had set in the Config software, the indicator in the right of the zone button will display the linkage input state of that zone: red light indicates evacuation signal; green light indicates neighbor alert signal.

In the automatic emergency broadcasting state, the system only can perform the preset fire linkage broadcasting. If want to close the automatic emergency broadcasting, the equipment has to receive a reset signal from the fire alarm controller, or press "**Emergency**" button to enter the manual emergency broadcasting to close the zones.

Public Paging

To make a public paging, follow the steps below:

1. Select the zone or zones for paging.
Press the **Zone** button to select a zone or zones. Multiple zones can be selected. To select all zones, press the **ALL** button. Indicator lights for selected zones flash green.
2. Press and hold the switch on the left side of the PTT microphone to speak into the microphone and make a paging.
3. Release the switch on the left side of the PTT microphone to close paging.
4. If the recovery function has been enabled in the task configuration, the tasks that were broadcasting before paging will continue to play automatically; otherwise the users has to manually do the broadcasting operation once again.

Emergency Paging

To make a manual emergency voice broadcast through the PTT microphone, the equipment has to state in the manual emergency broadcast mode, follow the steps below:

1. Press the **Emergency** button to enter emergency broadcast mode.
 2. Select the zone or zones for the paging.
Press the **Zone** button to select a zone or zones. Multiple zones can be selected. To select all zones, press the **ALL** button. Indicator lights for selected zones flash green.
 3. Press and hold the switch on the left side of the PTT microphone to speak into the microphone and make a paging.
 4. Release the switch on the left side of the PTT microphone to close paging.
 5. If the recovery function has been enabled in the task configuration, the tasks that were broadcasting before paging will continue to play automatically; otherwise the users has to manually do the broadcasting operation once again.
 6. Pressing the **Emergency** button for another second to exit emergency mode.
-



Note:

- The priority of the emergency paging can be set according to the Config software.
 - During emergency paging, the DCS can record the broadcast content automatically.
 - The record duration is 30 minutes.
 - The PTT microphone is optional. For the paging function, please it has to be matched.
-

2 X-DA1500EN/DA2250EN/DA4125EN Operations Guide

The X-DA1500EN/DA2250EN/DA4125EN High Efficiency Power Amplifier is referred to as “DA” throughout the remainder of this manual.

The DA amplifies audio signal power it receives from audio input devices to maintain clarity and volume when broadcast over many speakers.

Powering the DA On/Off

The system powers on when the power switch is in the “I” position, and powers off when the switch is in the “O” position.

When the indicator light for the main or standby power supply on the front panel of the DA turns green, the respective power supply is working normally.

When the power supply indicator light turns orange, the respective power supply has experienced a fault. Check whether the power supply is connected correctly and that the DA power switch is turned on.

Precautions

When using the DA, pay particular attention to the following issues.



Notice:

Make sure all cables are connected properly before turning on the DA.

Pay particular attention to which audio input source is selected and configure the output signal level appropriately, as this can save electricity.

Do not connect the grounding output cable with the grounding input cable as this causes a short circuit to occur.



Warning!

Do not alter the circuit board or schematic diagram.

When the **CLIP** indicator light is flashing red, immediately reduce the audio volume. If peak clipping occurs for too long, the DA could be damaged.

If the audio signal or peak clipping signal is too high, the speakers could be damaged.

3 NPM Operations Guide

The NPM has features including an interactive touch panel, the ability to configure preset broadcasting programs, zone paging, broadcast monitoring, and a full duplex intercom function. The NPM is also capable of paging and controlling broadcasts on zones throughout the X-618 system.

Initializing the NPM

The following steps describe how to start the NPM:

1. After connecting the NPM to the power supply, the NPM initialization touch panel displays the interface that is shown in Figure 1.



Figure 1 NPM initialization interface

2. When the NPM finishes loading, as indicated by the progress bar, the interface shown in Figure 2 appears. Enter the password using the number pad on the right side.

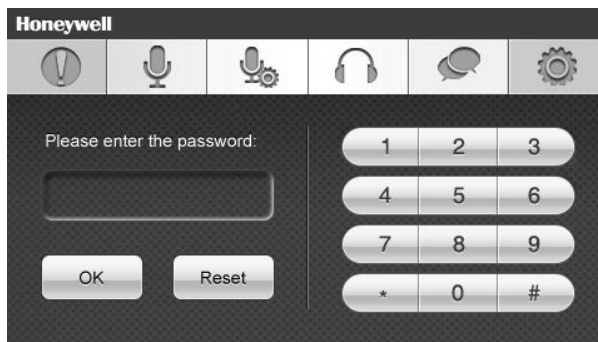


Figure 2 Enter Password Interface

1. Touch **OK** after entering the password. The public address and paging mode is initiated as shown in Figure 3.

If an incorrect password is entered, and has touched **OK**, the password field will clear automatically; it is disabled to enter the operation interface. Touch **Reset** to clear the password, and enter correct one again.








Note:

The system administrators have the necessary privileges required to set and modify the password in the X-618 Config software, but Operators cannot. The maximum length of the password is 8 characters. If the password is empty, the enter password interface will not display.



Figure 3 Public Address And Paging Mode Interface

The following information describes the icons shown in Figure 3:

- Touch the  icon to initiate public address and paging.
- Touch the  icon to initiate volume setting.
- Touch the  icon to monitor broadcasts.
- Touch the  icon to initiate the full duplex intercom.
- Touch the  icon to view the device IP settings.
- Touch the **Group** button on the left side of **Group/Zone** to select groups.
- Touch the **Zone** button on the right side of **Group/Zone** to select zones.
- Touch the UP to page up, to display the paging zones of the previous equipment or the groups of previous page.
- Touch the down to page down, to display the paging zones of the next equipment or groups of the next page.
- Touch **Select All** to select all zones.
- Touch **Cancel** to cancel the selection.
- Touch **Paging** to turn on the microphone for paging.
- Press the **Select All** button on the NPM front panel to select all zones, and press the button again to cancel the selection.





Note:

Group, zone, and sound source information can only be defined by Administrators or Super users. Operators can only select groups, zones, and sound sources.

Public Address and Paging

The following steps describe how to use the NPM to make a public address or paging:

1. Touch the  icon to display the interface as shown in Figure 3.
2. Select the zones or groups that are to receive the broadcast. Multiple zones or groups can also be selected. A blue status bar appears above selected zones or groups.
3. Select the public address sound sources or make a paging as necessary.
 - Touch one of  buttons just shown in Figure 3 to select the broadcasting sound sources. Select the zones or groups which are broadcasting as needed, and touch **CLOSE**, the selected zones or groups will stop broadcasting.

- Touch **Paging** or press the **TALK** button on front panel of the NPM to start paging to the selected zone. The users can set 2 operation modes of the **TALK** button: Press and Toggle. The differences between them please refer to the following Note.



Note:

Press trigger operation: Press and hold the **TALK** button to begin paging, and then release the button to release the selected zones and stop paging.

Toggle trigger operation: Press the **TALK** button a second to begin paging, and then press it again to release the selected zones and stop paging.

Emergency Broadcasting and paging

The following steps describe how to conduct an emergency broadcast through the NPM:

1. When the **EMERGENCY** button is pressed, the manual emergency broadcasting mode is initiated as shown in Figure 4. All the public address or paging would be interrupted.



Figure 4 Emergency Broadcasting Mode Interface

2. Select the corresponding zone or group of zones as necessary.
A blue status bar appears above selected zones or groups.
3. Select the emergency broadcasting sound sources or make a paging directly as necessary.



Note:

Please refer public address and paging to get more detail about paging operation.

Volume Setting








Touch the  icon. The interface as shown in Figure 5 appears.



Figure 5 Volume Setting Interface

1. The icon  shows microphone volume, touch the button  or  button to change the microphone volume.
2. The icon  shows the monitor speaker volume, touch the button  or  button to change the monitor speaker volume.

Monitor Function

The following steps describe how to use the NPM to monitor a zone:

1. Touch the  icon. The interface as shown in Figure 6 appears.



Figure 6 Zone Monitor Interface

2. Select the zone that is to be monitored. Only one zone can be monitored at a time.
Touch the **Up** or **Down** buttons to move up and down the list of zones to find the zone to be monitored.
3. Touch the **Start monitoring** button to start monitoring the broadcast being played in the selected zone at the speaker. Press the button again to stop the monitoring function.

Full Duplex Intercom Function

This section describes how to use the NPM to communicate with another NPM.

Initiating the Intercom Function

The following steps describe how to initiate the full duplex intercom function:


1. Touch the  icon. The interface as shown below in Figure 7 appears.



Figure 7 Full Duplex Intercom Interface

2. Select an NPM with which to communicate.


3. Touch the **Start talking** button to initiate the full duplex intercom request.
4. Wait until the opposite party has received the full duplex intercom request.
5. When the opposite party receives the intercom request, the two parties can begin the conversation.

When the opposite party cannot receive the full duplex intercom request, the screen will go back.

Receiving an Intercom Request

1. When a request from another NPM is received, it will be ringing.
2. Select whether to accept the full duplex intercom request.
 - Select **Start talking** to accept the full duplex intercom request.
 - Select **End talking** to return to the previous page.

View IP setting

Touch the  icon to display the IP setting interface.

Viewing the IP Address

The interface shown in Figure 8 appears. User can view the IP address, MASK, and the gateway address.

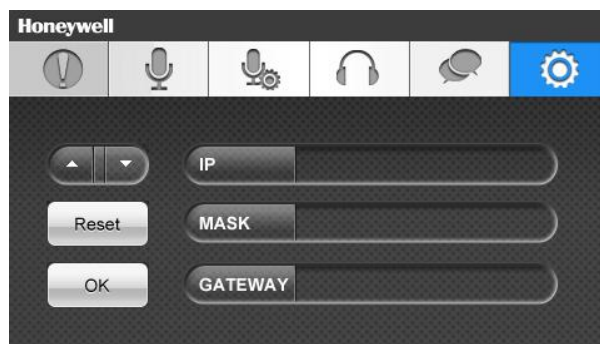


Figure 8 Viewing the IP address information

Troubleshooting

The following list of causes and corrective actions can be referenced when attempting to troubleshoot issues with the NPM:

Issues	Possible Causes	Corrective Action
Nothing displays on the screen	A power failure has occurred or an incorrect power adapter is being used	Replace the power adapter. Note: The NPM uses a DC 12V/1A power adapter.
	The NPM is in the standby state	Press any key to "wake up" the screen so it can be used.
	The NPM failure	Contact Honeywell or the appropriate equipment vendor for timely maintenance.
Cannot perform broadcasting	Not familiar with the operation of the equipment	Please carefully read the Operation Manual.
	Incorrect or invalid broadcasting NPM system configuration	Double check the configuration settings of the NPM functions through the X-618 system configuration software.
Cannot use	Incorrect or invalid NPM	Double check the NPM configuration settings

Issues	Possible Causes	Corrective Action
the full duplex intercom function	system configuration	through the X-618 system configuration software.
	Opposite party is not online	The opposite party must be online to initiate the full duplex intercom function.
No sound when speaking	Incorrect paging operation performed	Follow the paging directions in section 3, NPM Operations Guide
	The volume of the NPM is very low	Adjust the volume of the microphone.
No sound when monitoring	The volume of the monitoring loudspeaker is very low	Adjust the volume of the monitoring loudspeaker.

4 X-NRI/EN Operations Guide

The X-NRI/EN is an external interface expansion control equipment in X-618 to meet the common interface requirements of the broadcasting system. It includes 4 auxiliary inputs that can connect to external audio sources, and 1 built-in audio source. All the audio sources broadcasted through an Ethernet network.

The X-NRI/EN Network Resource Interface is referred to as “NRI” throughout the remainder of this manual.

Mainly describes the basic operations and relevant precautions of the NRI.

Powering the NRI On/Off

The system powers on when the power switch is in the “I” position, and powers off when the switch is in the “O” position.

When the indicator light for the main or standby power supply on the front panel of the NRI turns green, the respective power supply is working normally.

When the power supply indicator light turns orange, the respective power supply has experienced a fault. Check whether the power supply is connected correctly and that the NRI power switch is turned on.

Precautions

It's better to operate the NRI by the control device than operate it directly.

When using the NRI, pay particular attention to the following issues.



Notice:

Make sure all cables are connected properly before turning on the NRI.

Pay particular attention to which audio input source is selected and configure the output signal level appropriately, as this can determine the maximum input signal below the threshold, and keep the signal not to distort.



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