

IP Audio Window Intercom Kit**N-XC65-W
N-XC65-WP**

WP (weatherproof version)

TOA Canada Corporation

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1. Summary

1.1. Safety Precautions

- Please follow warnings and relevant safety procedures.
- Please keep this manual for future reference.

1.1.1. Warning Labels



This symbol indicates there are potential safety hazards, which may cause serious injury or death if operated incorrectly



This symbol indicates important operation and maintenance instructions.

1.1.2. Setup and Installation

- Do not operate device in a wet environment. Do not expose the device to rain, water or condensation (with the exception of the weatherproof External window intercom module)
- Do not use other power supplies that do not meet the specifications indicated on the supplied power unit. Do not damage, cut or twist the power cord.
- Keep the power cable away from any heat

1.1.3. Device Use

Please turn off power supply immediately when the following occurs. Continued operation may cause fire or electric shock.

- When the device is emitting smoke and burning odors.
- When there is water exposure and damage.
- When the device is damaged due to a fall.
- When the power cord is damaged, (copper wire is exposed or broken etc.).
- When the device indicates a faulty (cannot connect to the network, there is no sound etc.)

During operation:

- Do not open or modify the device
- Don't place near magnetic devices
- Do not operate near flammable objects
- Do not operate the device during lightning storms
- Do not operate near liquid containers

Important thing to note:

- The device contains parts that operate on high voltage. Opening the cover or modifying the device may cause shock. Maintenance to the device should be done by a qualified professional.
- Please power down the device when not in use for longer than 10 days.

1.2. Introduction

The IP audio window intercom allows full digital full-duplex communication. The unit consist of a master station and an external window intercom module. The unit receives a DC power input, an RJ45 Ethernet connection, and an unbalanced line level audio recording port.



Master Station



External window intercom module

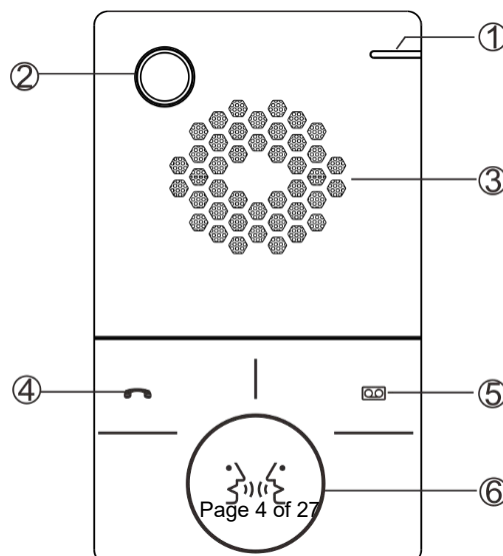
1.3. Features

- DSP based multi-channel audio technology allowing for digital full-duplex intercom.
- Easy to use touch keys
- Environment noise compensation.
- Providing three mode-scenes (quiet, standard, noisy) and support one-button adjustment.
- Single cable connection between master station and external window intercom module
- Solid metal housing to prevent resonance for clear speech transmission
- Support for connectivity between intercom units configurable over a web browse
- IP65 Rated for the N-XC65-WP (External window intercom module only)

1.4. Hardware Introduction

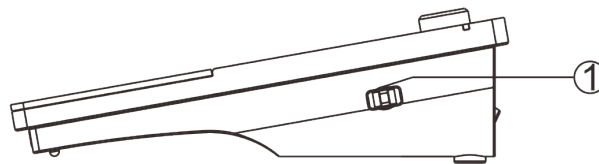
1.4.1. Master Station

Front:



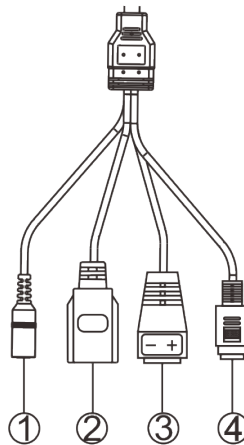
- ① Network status LED: red when offline, green when online
- ② 3-PIN Mini XLR Gooseneck microphone screw-in socket
- ③ Speaker
- ④ Main intercom button. When configured, pressing the voice broadcast button initiates a call to another N-XC65 Unit
- ⑤ Secondary intercom button. When configured, pressing the voice broadcast button initiates a call to another N-XC65 Unit
- ⑥ Talk activation button. Tap to communicate via the external window intercom module. Intercom calls cannot be initiated when Talk activation button is active.

Side:



- ① Noise Compensation adjustment switch. Standard is the default mode.
 - Noisy (Right)
 - Standard (Middle)
 - Quiet (Left)

Wiring:



- ① DC power. Connect with 12V/1.5A power supply
- ② RJ45 Ethernet Connection
- ③ Line Level Unbalanced Audio Output
- ④ External window intercom module connection

1.4.2. External Window Intercom Module



- ① Speaker/MIC:
- ② Master Station Connector

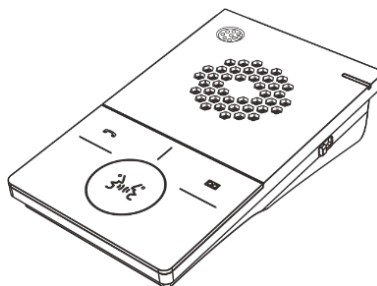
2. Device Setup

2.1. Items

The Window intercom system includes the following accessories. Please verify that your package contains the following items. Contact your reseller if any parts are missing.

(1) Master Station

1 PCS



(2) External window intercom module

1 PCS



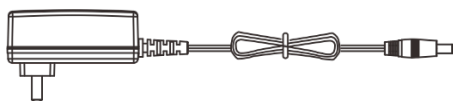
(3) Gooseneck microphone

1 PCS



(4) Power adapter (12V/1.5A)

1 PCS



(5) Zip tie (3*100mm)

3 PCS



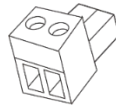
(6) Self-adhesive cable clamp

3 PCS



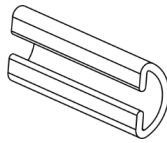
(7) Phoenix terminal

1 PCS



(8) Cable Bushing

1 PCS



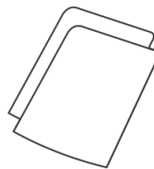
(9) EV-cotton

1PCS



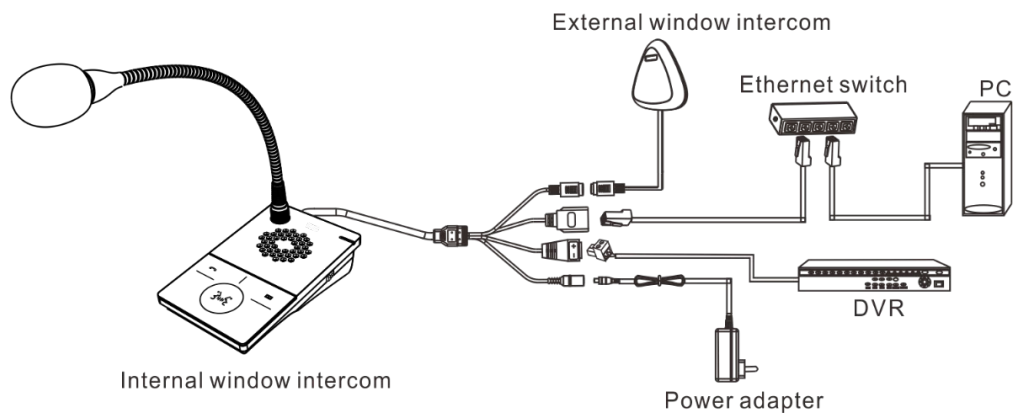
(10) Installation manual

1 PCS



2.2. Wiring

1. Connect the DC power adapter
2. Connect the external window intercom module to the Master Station
3. Connect the Ethernet LAN cable to the RJ45 connector



2.3. Network Setup

Via a web browser, navigate to the Web page of the IP digital window intercom. The default IP address is <http://192.168.1.101>. Make sure you set the IP address of your computer to the same static IP address range (e.g. 192.168.1.50 with a subnet mask of 254.255.255.0). The default admin and password are as follows:

Username: admin

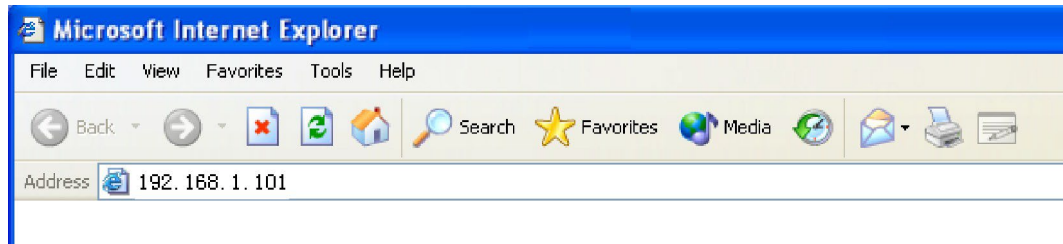
Password: Rdc070#*

Note: Issues have been encountered with Google Chrome. If the webpage indicates an error, consider using an alternate web browser such as Internet Explorer or Firefox

3. Device Settings

3.1. Web Interface Login

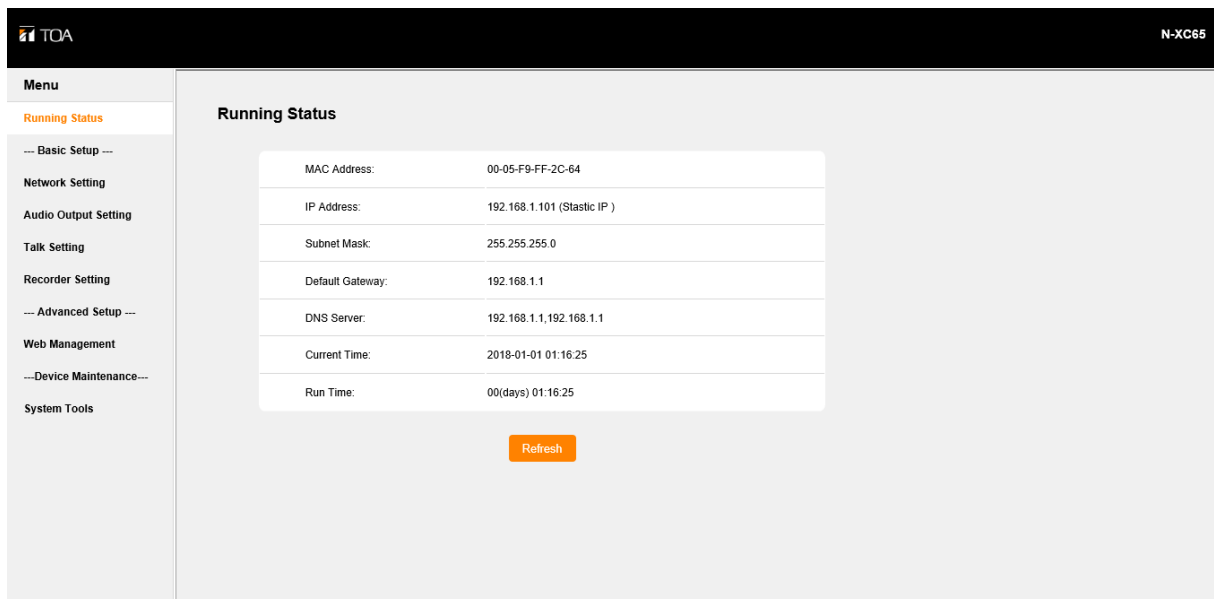
Use a web browser and navigate to the IP address (factory default is `http://192.168.1.101`), then press Enter.



Enter user name and password in the login window of the Web page (the default is: admin, password: Rdc070#*).



Upon successful log-in, you will land on the Status Page.



3.2. Network Settings

Menu

- Running Status
- Basic Setup ---
- Network Setting**
- Audio Output Setting
- Talk Setting
- Recorder Setting
- Advanced Setup ---
- Web Management
- Device Maintenance ---
- System Tools

Network Setting

Connect Type:

MAC Address:

IP Address:

Subnet Mask:

Default Gateway:

Primary DNS Server:

Secondary DNS Server:

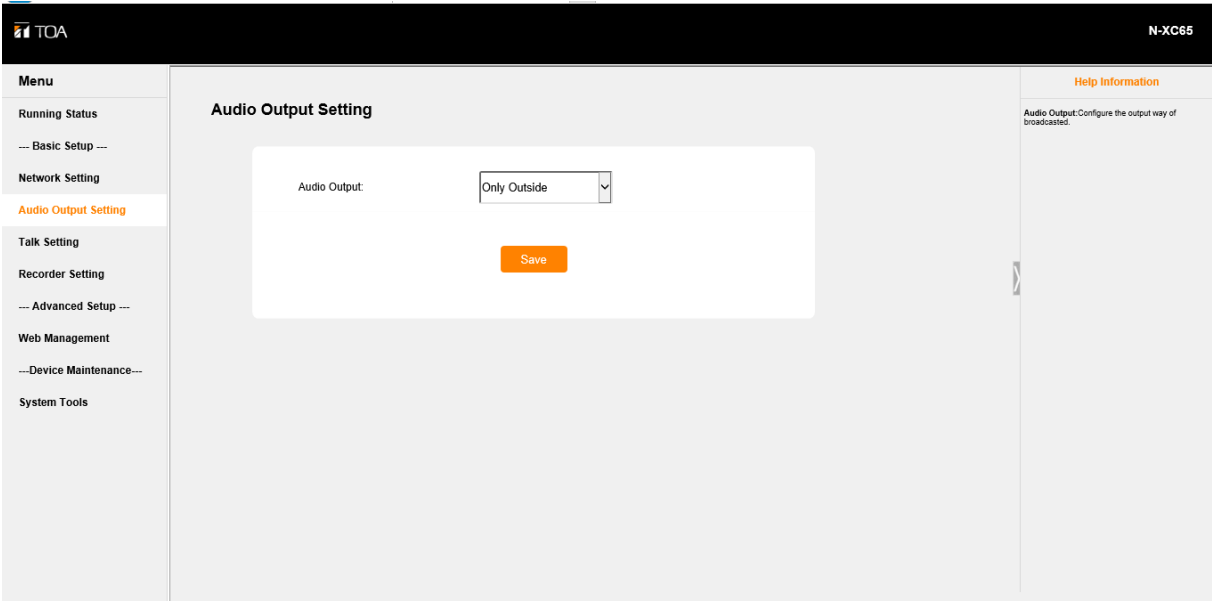
Help Information

IP : Connect Type . Set IP info by manual or from DHCP server.
MAC Address : The MAC address of the equipment. don't allow modify.
IP Address : The IP address of the equipment.
Subnet Mask : The subnet mask of the equipment.
Default GateWay: The Default Gateway of the equipment.
DNS Server : Used for through the domain name to visit server.

Description:

Connection Type	You can choose between static IP or obtain an IP automatically from DHCP server
MAC Address	Cannot be modified, assigned to the device network adapter
IP Address	Device IP address, factory default is 192.168.1.101
Subnet Mask	The subnet mask of the LAN network.
Default Gateway	IP address of network gateway
Preferred DNS Server	IP address of the preferred DNS
Alternate DNS Server	IP address of the alternate DNS

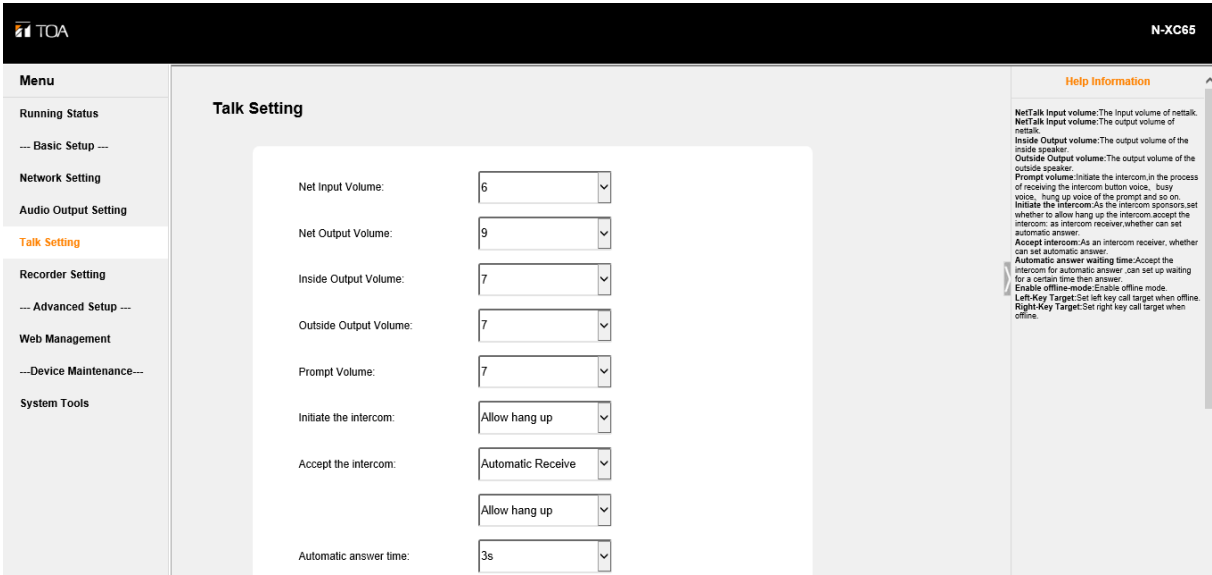
3.3. Audio Output Settings



Description:

Audio Output	Set the desired audio output configuration
--------------	--

3.4. Talk Settings




N-XC65

Menu
Running Status
--- Basic Setup ---
Network Setting
Audio Output Setting
Talk Setting
Recorder Setting
--- Advanced Setup ---
Web Management
--- Device Maintenance ---
System Tools

Prompt Volume:
7

Initiate the intercom:
Allow hang up

Accept the intercom:
Automatic Receive

Allow hang up

Automatic answer time:
3s

Enable Triple Talk:
Enable

☒ Enable Off-line Talk

Off-line left key call:
192.168.1.102
2046

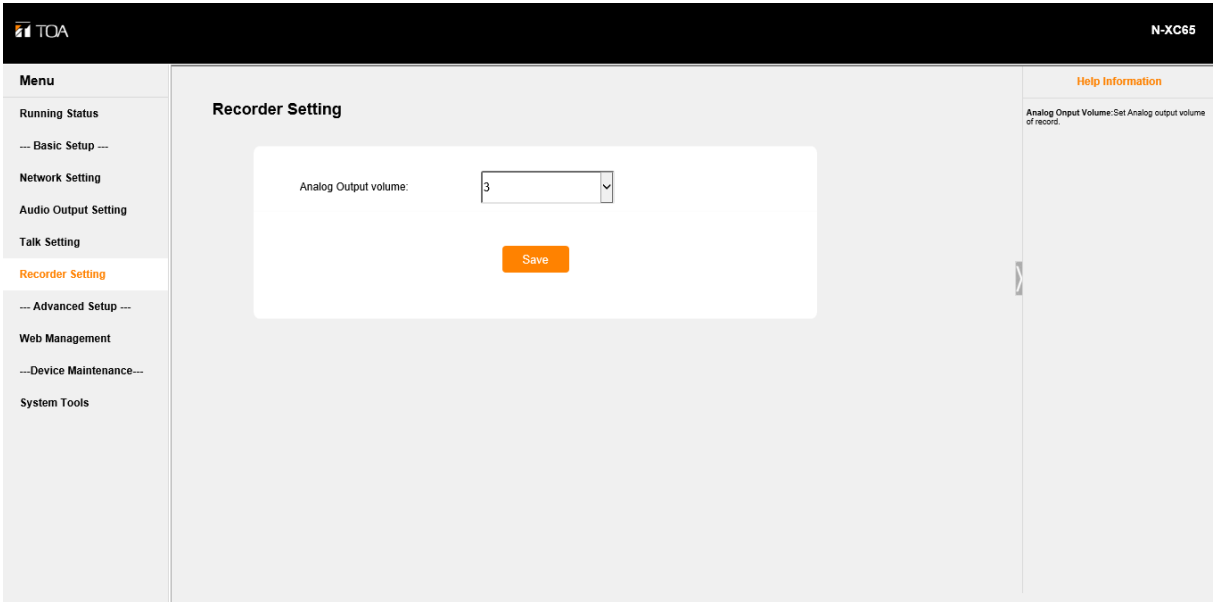
Off-line right key call:
192.168.1.104
2046

Save

Description:

Net Input Volume	Volume setting for incoming audio sent from remote N-XC65 intercom unit
Net Output Volume	Volume setting for outgoing audio sent to remote N-XC65 intercom unit
Inside Output Volume	Volume setting for Master Station
Outside Output Volume	Volume setting for External Window Intercom Module
Prompt Volume	Volume setting for alarms and device prompts
Initiate the Intercom	Setting for call control of inter-device calls initiated with this unit, restricts or allows the remote device being called to disconnect the call
Accept the Intercom	Configuration for automatic or manual receive of calls, call hang-up can be enabled or disabled
Automatic Answer Time	Set time delay for automatic call answering
Enable Triple Talk	Enable or disable allowing remote calls to/from other N-XC65 unit to be heard at both the master station and external window intercom module
Enable On-line Talk	Enable or disable calls to/from other N-XC65 units using the left and right buttons
On-line left Key Call	Set IP of remote N-XC65 intercom unit that will be called when left key is triggered, specify UDP port to be used
On-line right Key Call	Set IP of remote N-XC65 intercom unit that will be called when right key is triggered, specify UDP port to be used

3.5. Recorder Setting



Description:

Analog Output Volume	Volume setting for unbalanced line level audio output
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3.6. Password Modification

You can change the web page login-in account and password in the WEB management parameters, click “Save” when finished.

The screenshot shows the TOA N-XC65 web management interface. On the left is a 'Menu' sidebar with options: Running Status, Basic Setup, Network Setting, Audio Output Setting, Talk Setting, Recorder Setting, Advanced Setup, Web Management (highlighted), Password Setting (highlighted), Port Setting, Language Setting, Device Maintenance, and System Tools. The main area is titled 'Password Setting' and contains a form with the following fields: Original Username (pre-filled with 'admin'), Original Password, New User Name, New Password, and Password Confirm. Below the form are 'Save' and 'Clear' buttons. On the right, a 'Help Information' box states: 'WEB Management : User name are admin by default and password are Rdc709* by default, if necessary please change in time, if change please keep in mind. Support char : letters, Numbers, * % @ % ' & + , .'. The TOA logo and model number 'N-XC65' are at the top.

3.7. Port Modification

You can change the port of the WEB access. When not using port 80, please add the corresponding port behind the address when accessing this WEB page. (e.g.: if the port is 8888, the access address will be <http://XXX.XXX.XXX.XXX:8888>.)

The screenshot shows the TOA N-XC65 web management interface. The 'Menu' sidebar is identical to the previous screenshot, with 'Port Setting' highlighted under 'Web Management'. The main area is titled 'Port Setting' and contains a form with a single field: 'Web Management Port' (pre-filled with '80'). Below the field is a 'Save' button. The 'Help Information' box on the right states: 'WEB Port : For access to this WEB page, such as the port is not 80, when access to the WEB after the address, please add a corresponding port (eg. set the port is 8888, the access address is http://XXX.XXX.XXX.XXX:8888)'. The TOA logo and model number 'N-XC65' are at the top. At the bottom left, a status bar shows the URL: 'http://192.168.1.101/PasswordCfg.htm'.

3.8. Language Settings

You can switch the Web page language between Chinese and English, save the modification and restart the intercom to activate the changes.

The screenshot shows the TOA N-XC65 web interface. The top header bar is black with the TOA logo on the left and 'N-XC65' on the right. A left sidebar menu contains various settings categories. The main content area is titled 'Language Setting' and features a white box with a 'Web Language' dropdown menu currently set to 'English' and an orange 'Save' button below it. A right sidebar titled 'Help Information' contains the text 'WEB Language : The Language choice for web.'

Menu	Language Setting	Help Information
Running Status	Web Language: English Save	WEB Language : The Language choice for web.
--- Basic Setup ---		
Network Setting		
Audio Output Setting		
Talk Setting		
Recorder Setting		
--- Advanced Setup ---		
Web Management		
- Password Setting		
- Port Setting		
- Language Setting		
---Device Maintenance---		
System Tools		

3.9. Restart Device

Restart the device.

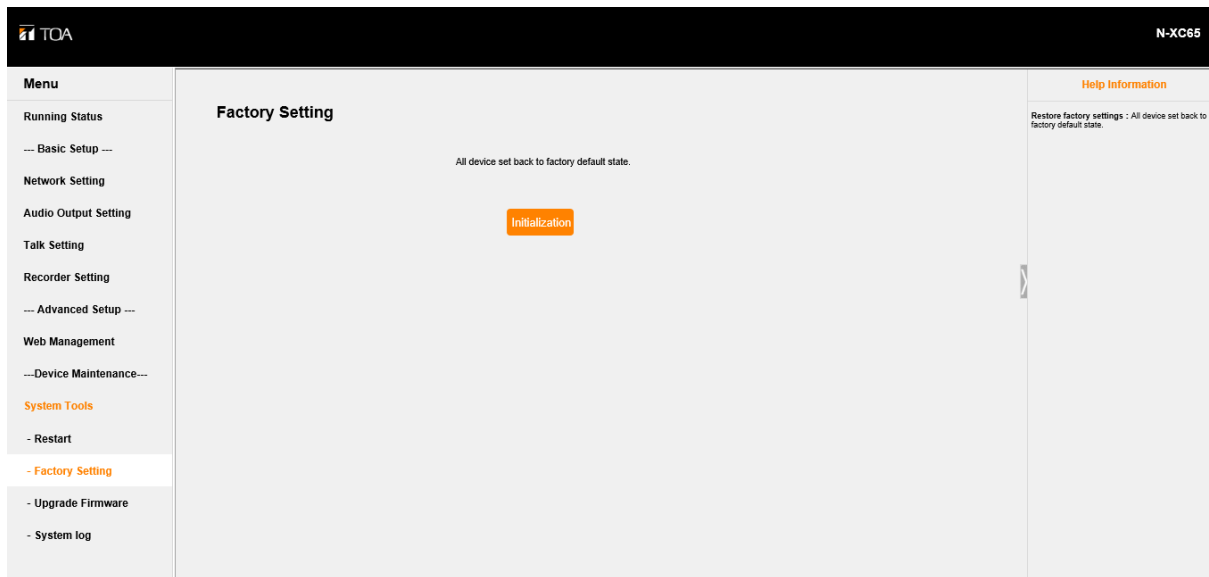
Note: the all modified parameters on the web page will be effective after restarting the device.

The screenshot shows the TOA N-XC65 web interface. The top header bar is black with the TOA logo on the left and 'N-XC65' on the right. The left sidebar menu is updated to show 'System Tools' as the active category, with 'Restart' highlighted. The main content area is titled 'Restart' and contains the text 'Click the restart button, will enable restarting the device.' and an orange 'Restart' button. The right sidebar titled 'Help Information' contains the text 'Restart Device : Restart the device will takes three to ten seconds.'

Menu	Restart	Help Information
Running Status	Click the restart button, will enable restarting the device. Restart	Restart Device : Restart the device will takes three to ten seconds.
--- Basic Setup ---		
Network Setting		
Audio Output Setting		
Talk Setting		
Recorder Setting		
--- Advanced Setup ---		
Web Management		
---Device Maintenance---		
System Tools		
- Restart		
- Factory Setting		
- Upgrade Firmware		
- System log		

3.10. Factory Setting

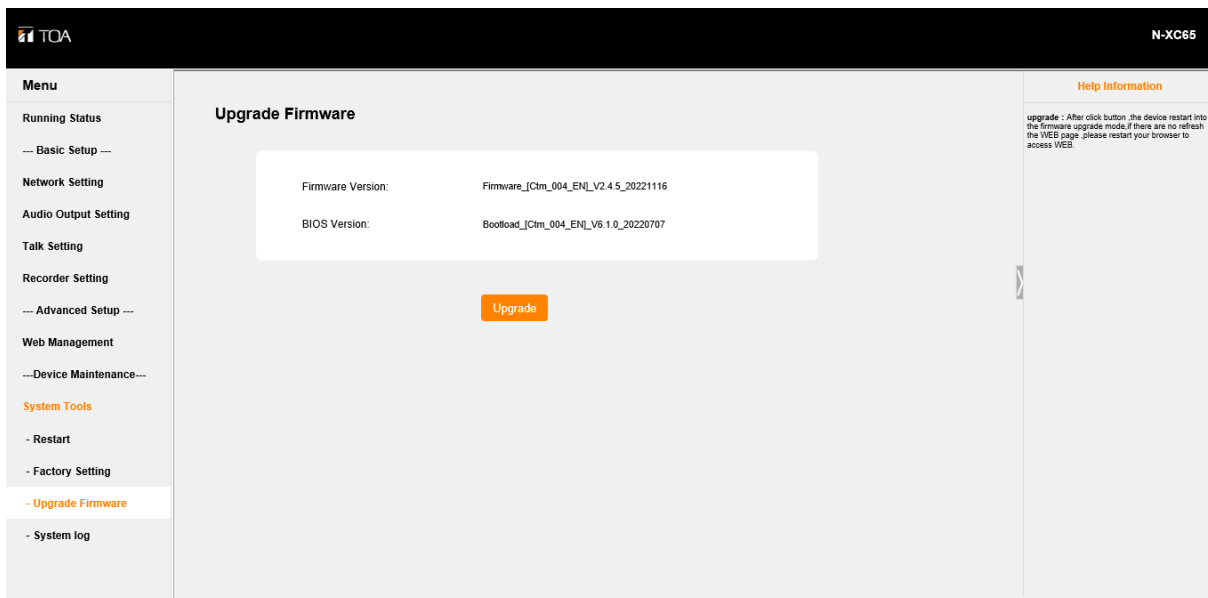
Revert the device to factory settings.



3.11. Upgrade Firmware

Click “Upgrade” to enter the firmware upgrade mode. This will load a separate web page where you can load the firmware file and initiate the upgrade. If this web page does not load, please clear the browser cache then reload the page.

Note: Please do not upgrade the firmware without any special needs or reason.



3.12. Systems Log

The log file contains all system events.
Click “Clear All The Log” to empty the log.

TOA

N-XC65

Menu

Running Status

--- Basic Setup ---

Network Setting

Audio Output Setting

Talk Setting

Recorder Setting

--- Advanced Setup ---

Web Management

---Device Maintenance---

System Tools

- Restart

- Factory Setting

- Upgrade Firmware

- System log

System Log

Index	The Log Content
1	01-01 00:00:00 PowerOn: code(0)
2	01-01 00:02:12 Logging: 192.168.1.13 : 2048
3	12-07 10:22:13 Logging: 192.168.1.13 : 2046
4	12-07 10:22:13 Reboot: code(4)
5	01-01 00:00:00 PowerOn: code(0)
6	01-01 00:00:06 Logging: 192.168.1.13 : 2048
7	12-07 10:22:10 Request talking begin: 192.168.1.101 : 2046
8	12-07 10:22:12 Request talking end: 192.168.1.101 : 2046
9	12-07 10:22:26 Line off: link(1), act(1), rst(0)
10	12-07 10:23:22 Line off: link(0), act(0), rst(0)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

Refresh Clear All

Help Information

System Log:Recording system running events.

http://192.168.1.101/Log.htm

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4. Three-way Call Operation

1. Press either the off-line left or right key call as indicated below to start the call to the specified target in the talk settings. Note that a call to another intercom unit is not possible if the talk button is engaged.

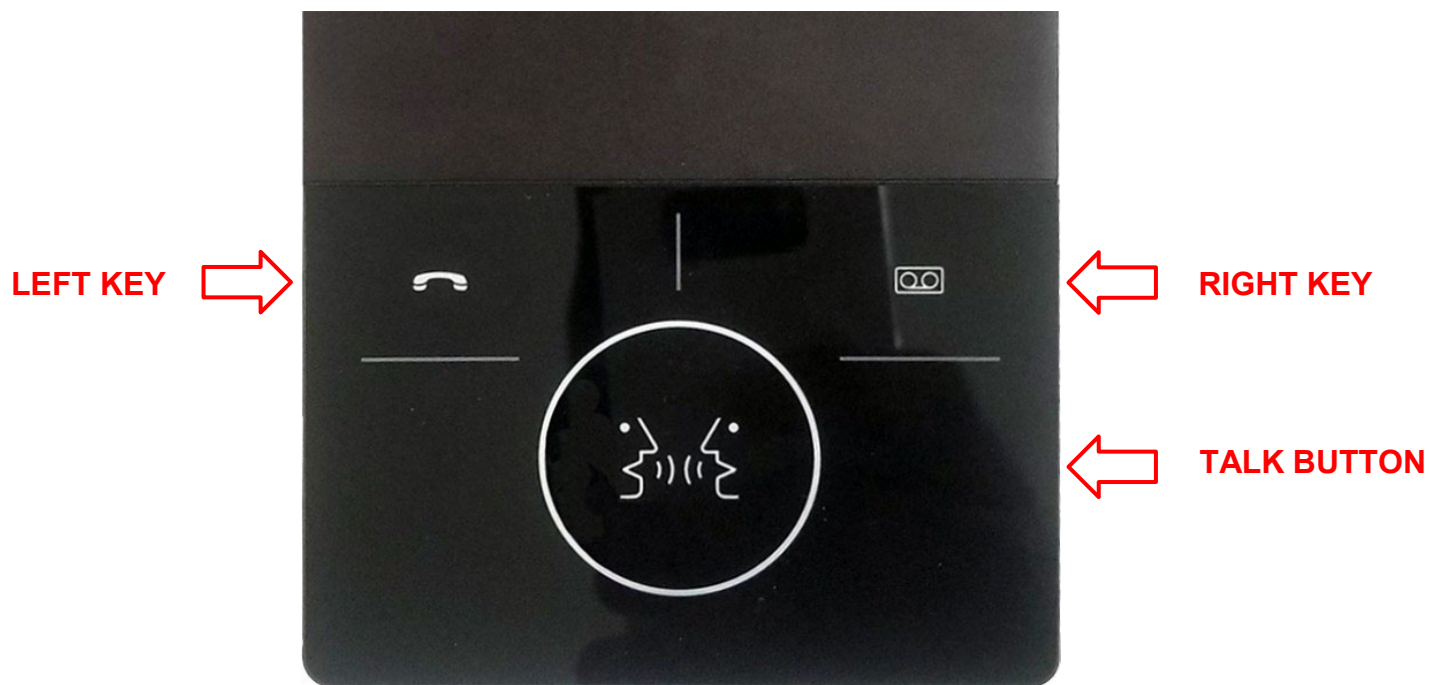


Figure 3: Master Station

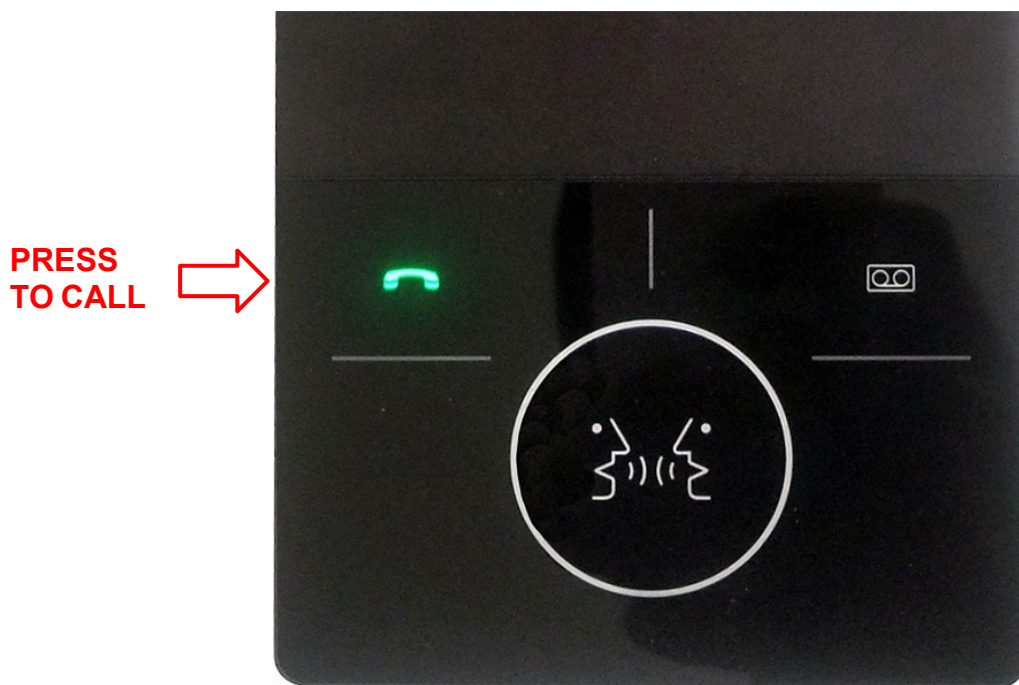


Figure 4: Press call

2. Depending on the setting on the target station, the device can accept the call manually or automatically. Once the call is accepted, the talk button can be engaged to allow a 3-way conversation. When finished, depending on your hang up settings, the call will be hung up and the talk button will default to its disengaged mode.

**PRESS TO
ACCEPT CALL**

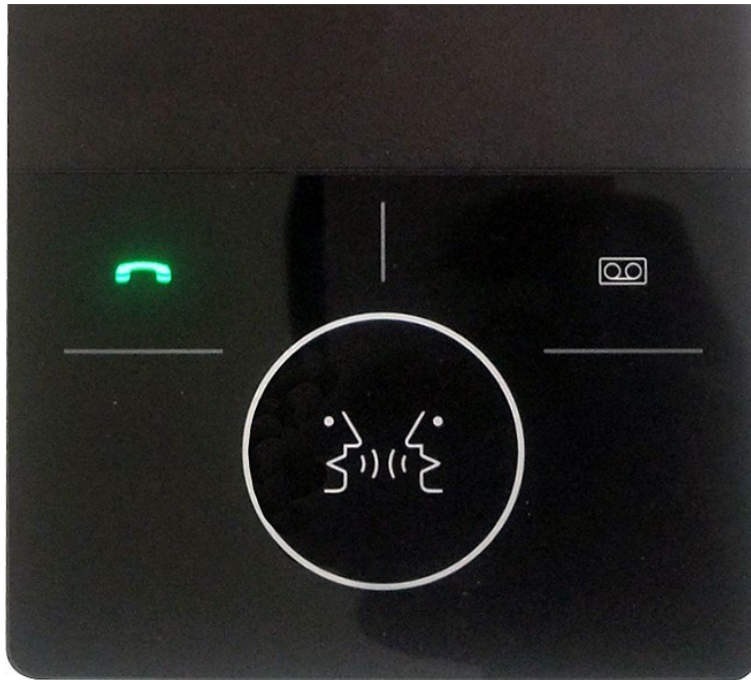
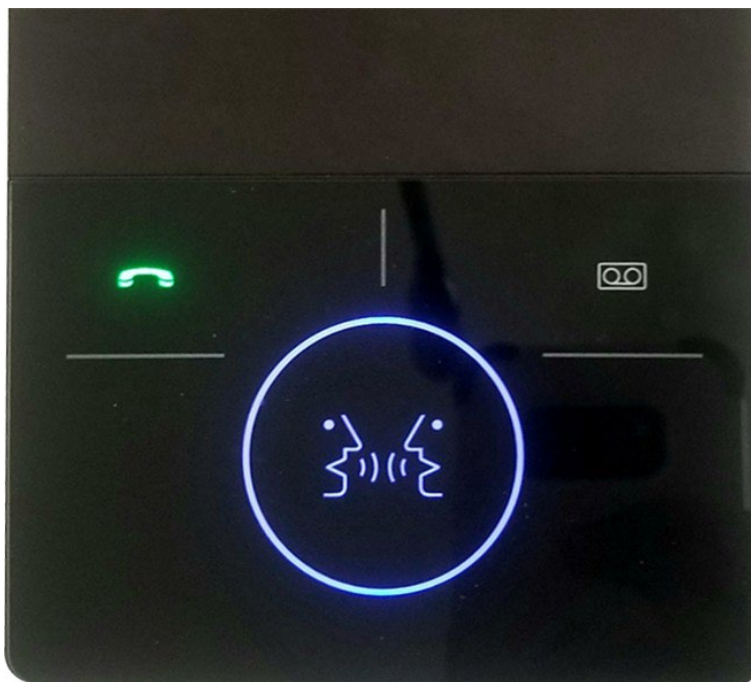


Figure 5: Manual Call Accept



**PRESS TO
ENGAGE
CLIENT MIC**

Figure 6: Press talk button to engage the three-way call

5. Troubleshooting

a. Call to another N-XC65 station not working

1. Check the internal window intercom logs.
2. Check whether the target settings on the talk settings are correct.

b. Error when calling: target “offline”?

1. Check the network settings (firewall, port blocking, etc.). It's advisable to test configuration on a network with all firewalls temporarily disabled.
2. Check the network connection. After the terminal has been powered on, the network port light should normally be green. When the network port light is flashing orange (fast and slow), it means that the network cable is connected normally. If the network port light is not green, it indicates a network related problem. Please check the network cable and LAN connection.
3. Check the device IP parameters: terminal IP, terminal ID, target IP, gateway IP, etc.

c. Web Page is behaving abnormally?

Please clear the web browser cache or use another web browser.

Traceability Information for Canada

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Hyogo, Japan

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Mississauga, L5M 0Y9, Canada

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