



Aiphone Integration Configuration Guide

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About Alertus

Alertus Technologies is a pioneer and market leader of emergency mass notification systems for large-area, high occupancy facilities. Since 2002, Alertus has engineered innovative solutions for unified mass notification, in-building notification, outdoor notification, and personal notification. Thousands of institutions and enterprise organizations worldwide trust and rely on Alertus to protect millions of people. To learn more, visit www.alertus.com.

Guide Overview

The **Aiphone Configuration Guide** provides instructions for using and configuring the Aiphone with the Alertus Server.

This guide is intended for Alertus customers. For more information or questions regarding the Aiphone integration with the Alertus Server, contact Alertus Technical Support at support.alertus.com.

Related Document(s)

Certain products and/or features mentioned in this guide may require the use of other Alertus hardware and/or software solutions. Relevant documentation (as applicable) is listed below.

- [Alert Beacon Peripherals - Hardwired Duress Button Configuration](#)
- [Alertus Knowledge Base - IP-AVA Installation Guide](#)

Version History

Version #	Published Date	Description of Changes & Comments
1.0	07/07/2022	Major Content Update: <ul style="list-style-type: none"><li data-bbox="532 443 1003 516">• Published initial version of the document.

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1. Before You Get Started

Alertus integrates with Aiphone IX and IXG series endpoints (emergency towers, video doorbells, single/multi-tenant intercoms etc.). There are two types of integration scenarios with the Alertus Server:

1. Alertus is activated by Aiphone Emergency tower/video doorbell call buttons and/or emergency buttons.
2. Alertus announces a Text-to-Speech (TTS) and/or pre-recorded alert message through Aiphone endpoints so they can be used as an emergency paging solution.

Configuration steps for each scenario in an Aiphone IX product line environment are explained in greater detail in the sections below.

2. Alertus Activation by Aiphone Emergency Button

This integration can be used with IX based Emergency Towers and Wall Boxes with an emergency button. It requires an Alert Beacon or an IP Relay configured to the Alertus Server.

2.1 Connections

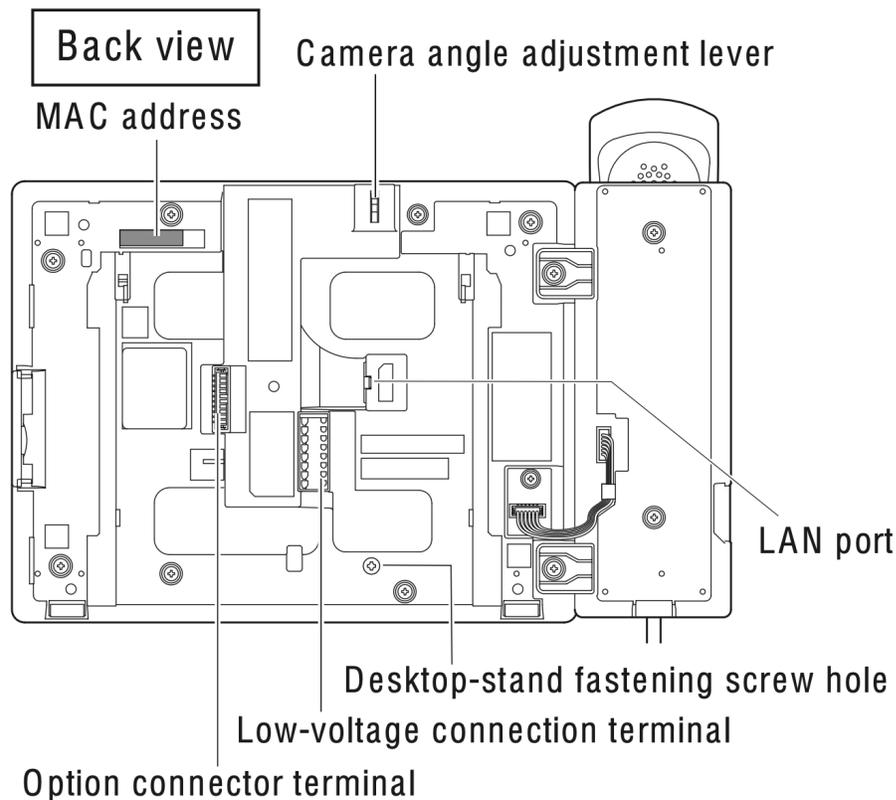
IX Series Emergency Wall Boxes and Emergency Towers are managed by at least one master station (IX-MV7 series). This integration requires a dry contact connection between IX-MV7 Master station and Alertus Alert Beacon.

Figure 1: Master Station



Connections will be made on the backend of the Master Station using the Low Voltage Connection Terminal.

Figure 2: Low Voltage Connection Terminal



An AWG 18 cable is recommended for the dry contact closure connections between the Alertus Alert Beacon and Aiphone Master Station.

An AWG18 pair has to be connected to NO1 and COM1 connections on the low voltage terminal block.

Connection and disconnection of low-voltage lines:

1. Insert the line into the quick connection terminal.
2. If the line does not go in easily, push the low-voltage line into the terminal while pressing down the detachment button.
3. When removing a low-voltage line, pull on the line while pressing down the detachment button.

Figure 3: Quick Connection Terminal

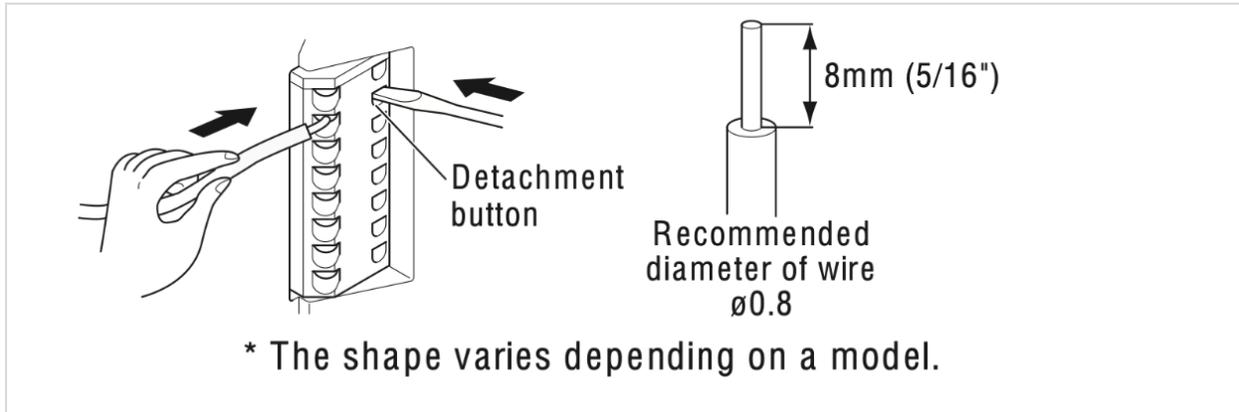


Figure 4: Master Stations Schematic

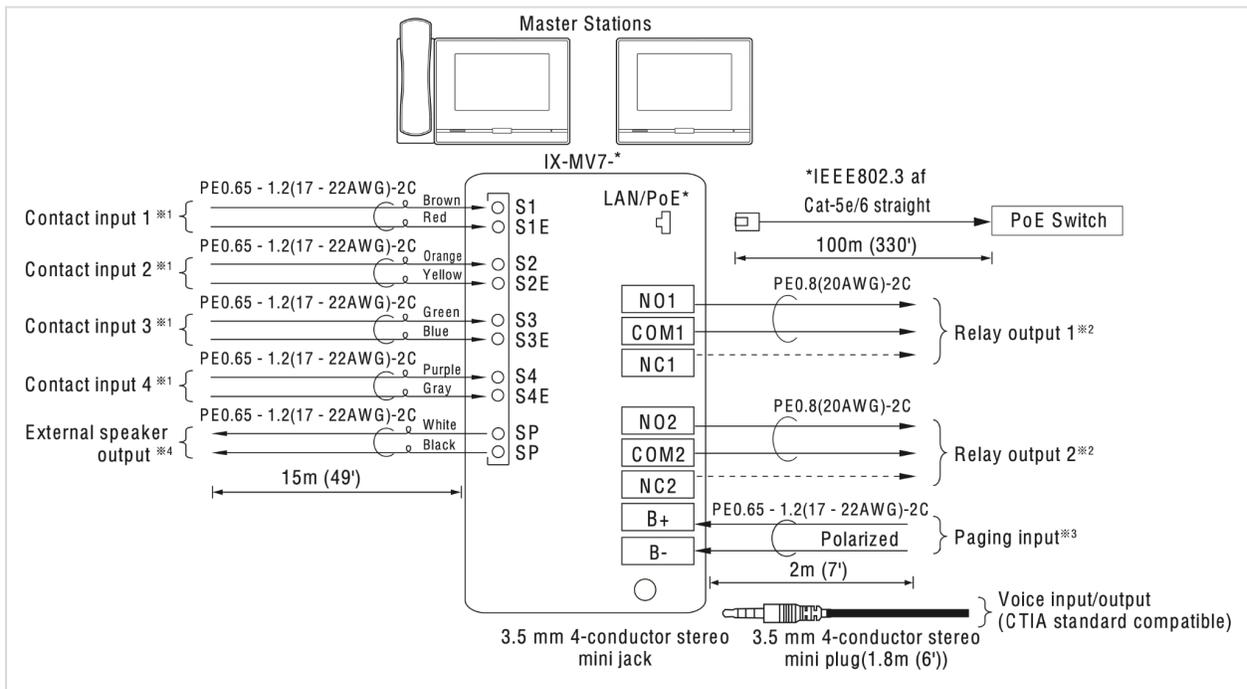
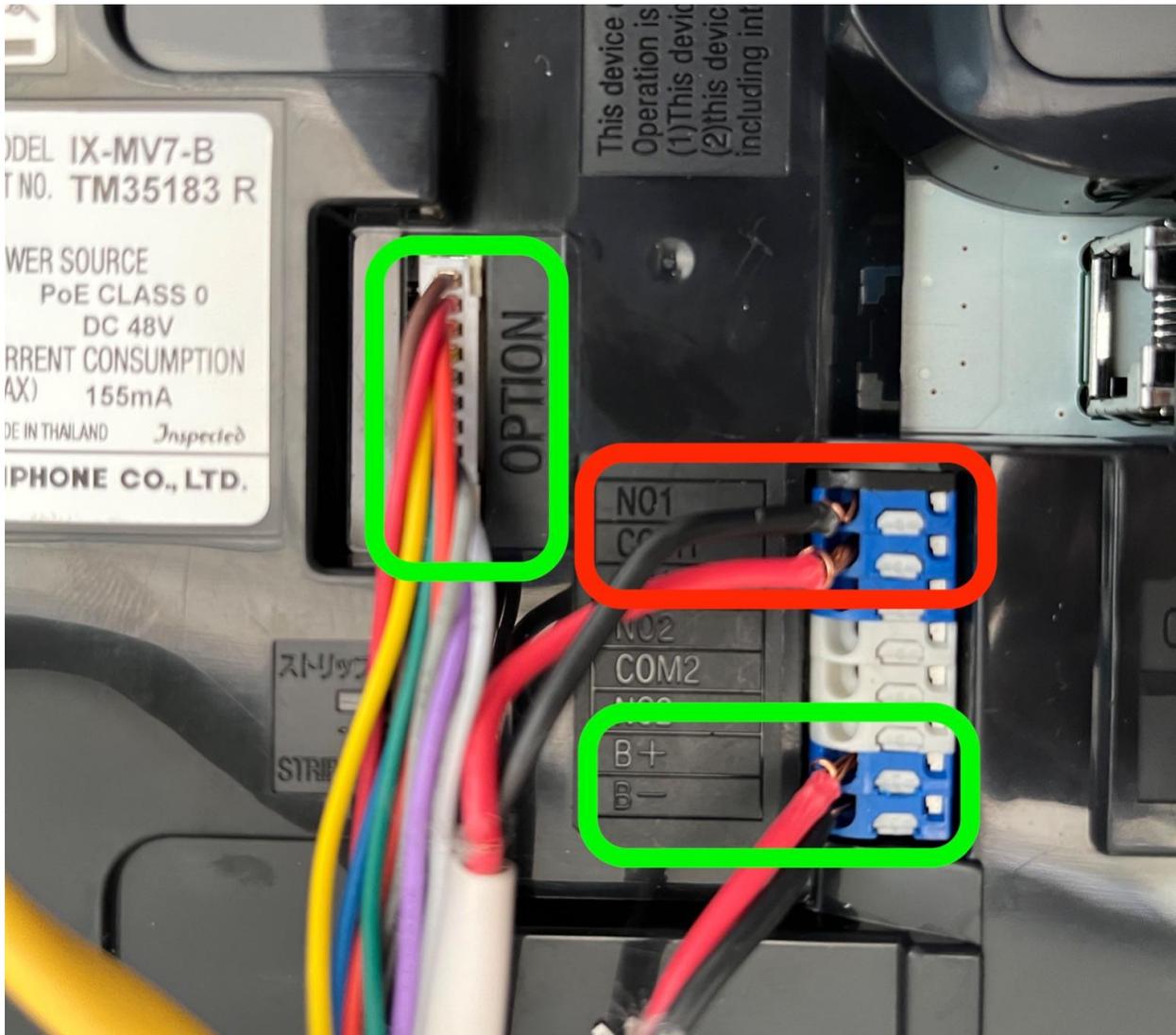


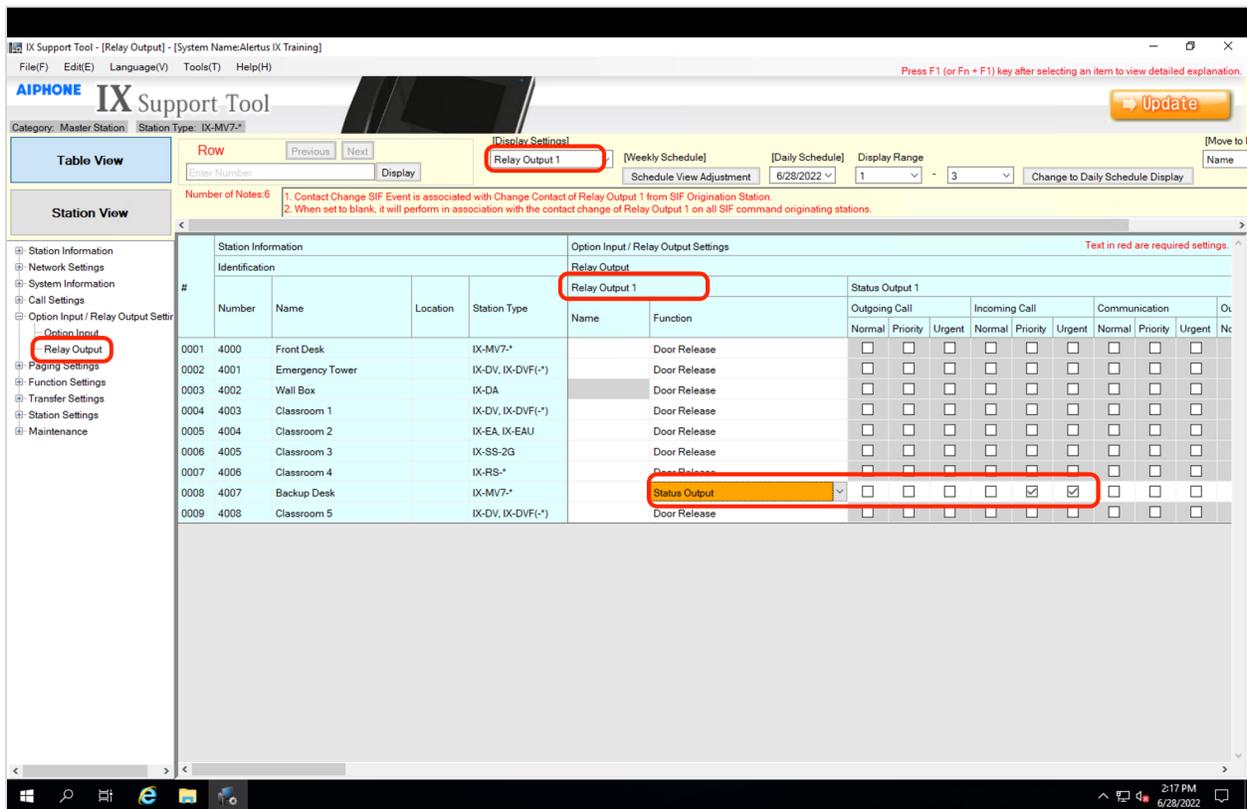
Figure 5: Terminals



2.2 IX Master Station Configuration

The Aiphone IX Master Station needs to be configured using the IX Support Tool.

Figure 6: IX Master Station Support Tool Configuration



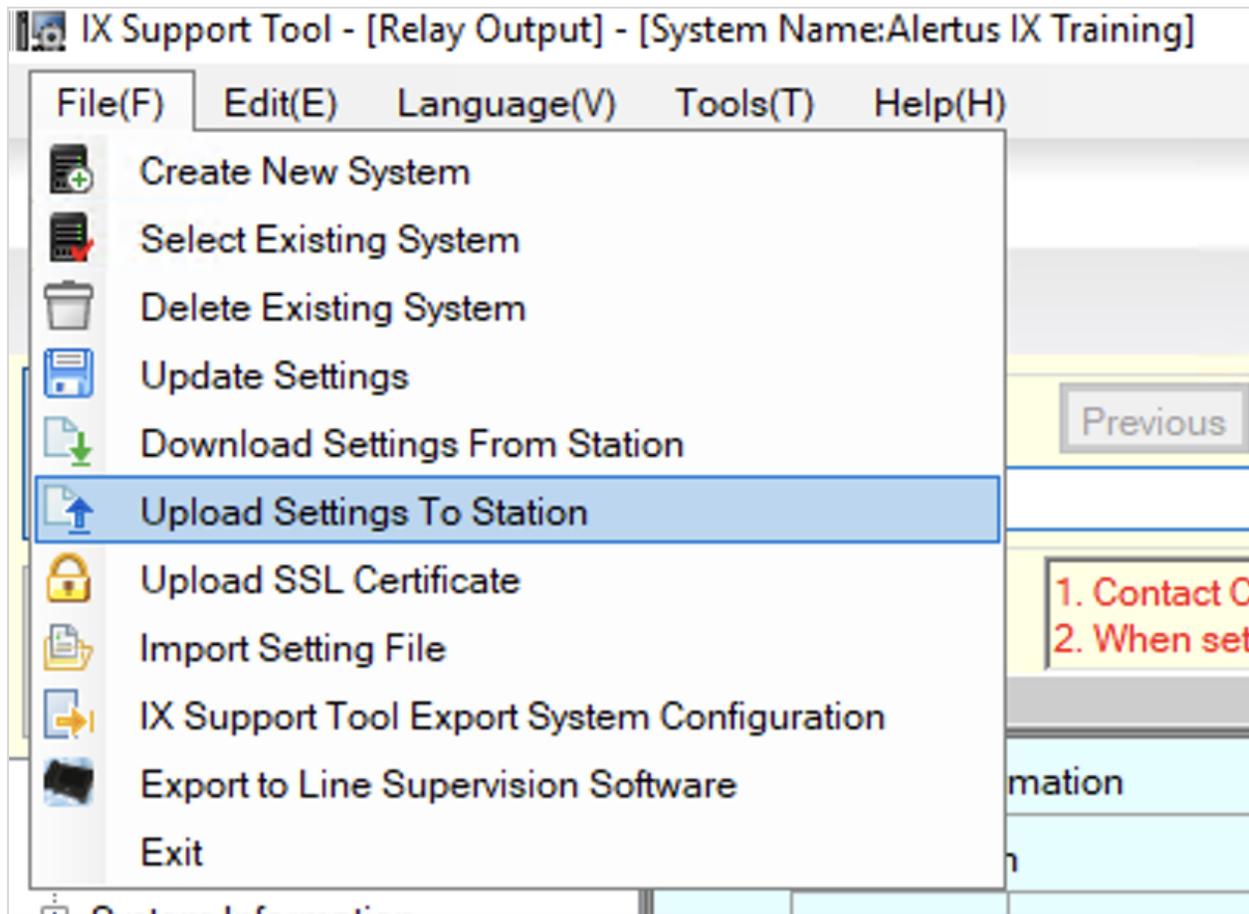
1. After logging in, on the main page, select Relay Output from the left-hand menu.
2. From the top Display Settings, select Relay Output 1.

Note: Any master station receiving emergency calls from the emergency towers can be used as a gateway for Alert Beacon dry contact closure connection. In the example on Figure 5, Backup Desk Master Station is used for dry contact closure connections.

3. Configure Function for the Relay Output 1 to Status Output.
4. Select Status Output 1 - Incoming Call settings - checkboxes for Priority and Urgent.
5. After configuration is done, it can be saved with the Update button in the upper right-hand corner.

Note: Saved settings have to be uploaded to the station from the File Menu.

Figure 7: Saved Settings



Please refer to the [Alert Beacon Peripherals - Hardwired Duress Button Configuration](#) from Alertus Knowledge base for Alertus configuration.

3. Alertus Paging Aiphone Units with Audible Text-to-Speech/Pre-recorded Message

This integration can be used with any IX/IXG system. Alertus alerts can be paged natively on Aiphone endpoints during emergencies.

This integration requires an Alertus IP-AVA interface to connect with an Aiphone Master Station.

3.1 Connections

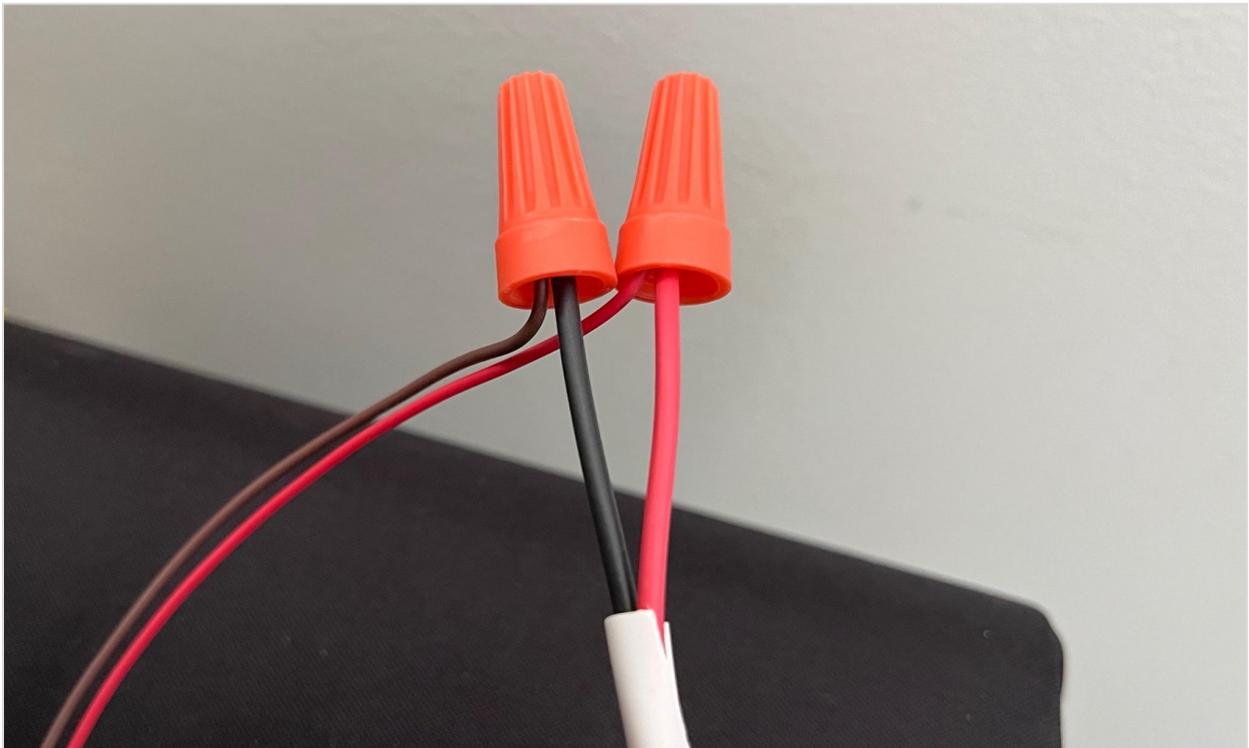
AWG18 pair cable is recommended for all connections between the Alertus IP-AVA interface and the Aiphone Master Station.

The Alertus IP-AVA unit will be connected to the Aiphone Master Station with two connections:

- a. Dry contact closure from IP AVA towards Aiphone Master Station Contact Input. This connection requires an option cable on the Master Station.

The dry contact closure will be connected to the Contact Input 1 (red and brown) using the Aiphone Option Cable.

Figure 8: Aiphone Option Cable



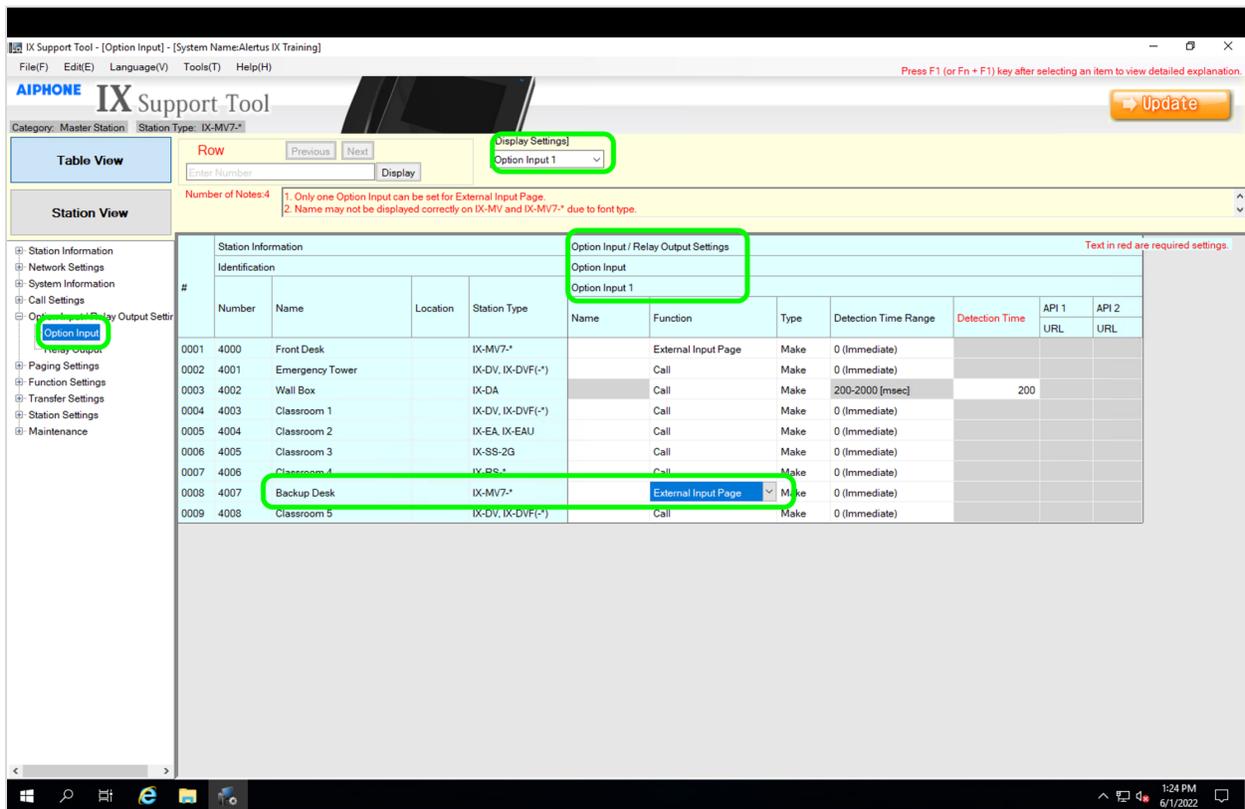
- b. Line Level Audio from the IP-AVA to Aiphone Master Station Low Voltage Connection Terminal.

Line Level Audio will be connected to IX Master Station Low Voltage Connection Terminal on connections B- and B+.

3.2 Aiphone Configuration

1. From the Aiphone IX Support Tool, go to Option Input on the left-hand menu.
2. Make sure to select Option Input 1 from the Display Settings.
3. Configure the Master Station Function Field to External Input Page.

Figure 9: Option Input



IX Support Tool - [Option Input] - [System Name:Alertus IX Training]

File(F) Edit(E) Language(V) Tools(T) Help(H) Press F1 (or Fn + F1) key after selecting an item to view detailed explanation.

AIPHONE IX Support Tool Update

Category: Master Station Station Type: IX-MV7*

Table View Row Previous Next Display Settings
Option Input 1

Enter Number Display

Station View

Number of Notes: 4 1. Only one Option Input can be set for External Input Page.
2. Name may not be displayed correctly on IX-MV and IX-MV7* due to font type.

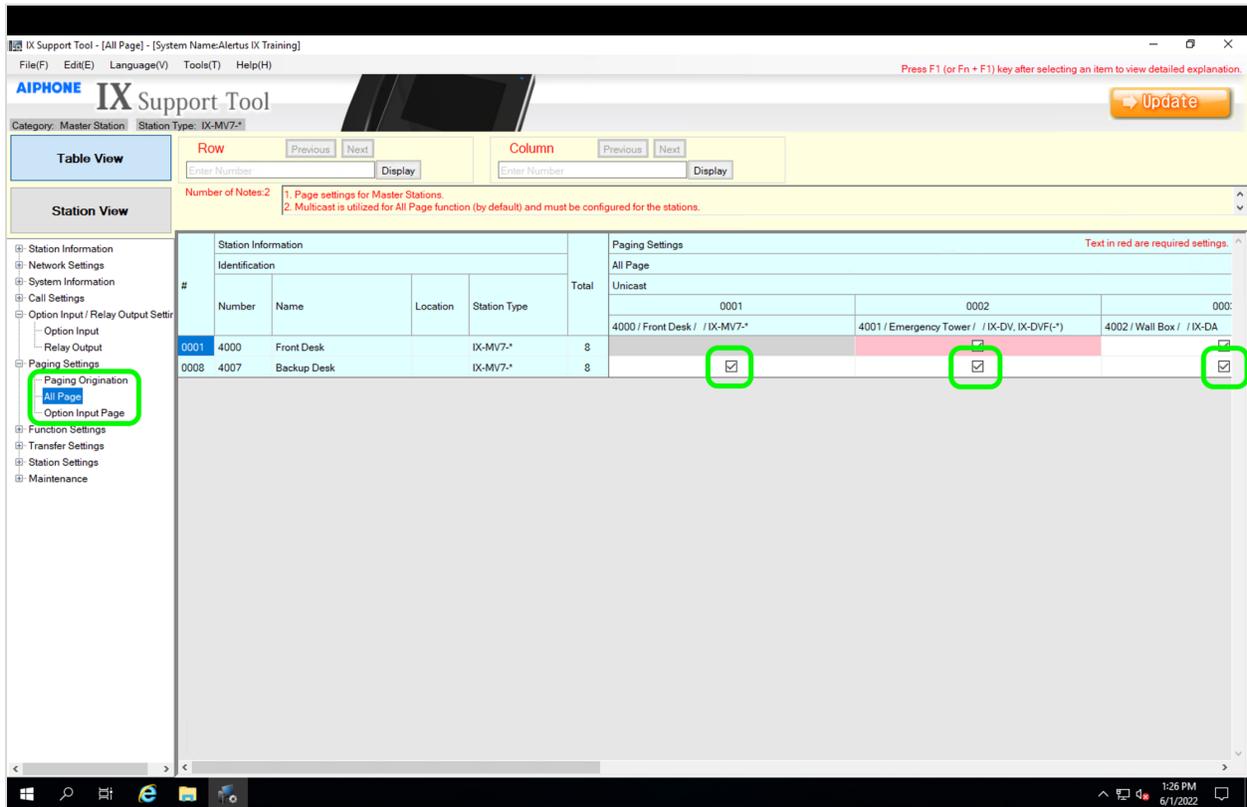
Station Information Text in red are required settings.

Option Input / Relay Output Settings

Identification				Option Input / Relay Output Settings							
Option Input				Option Input 1							
#	Number	Name	Location	Station Type	Name	Function	Type	Detection Time Range	Detection Time	API 1 URL	API 2 URL
0001	4000	Front Desk		IX-MV7*		External Input Page	Make	0 (Immediate)			
0002	4001	Emergency Tower		IX-DV, IX-DVF(*)		Call	Make	0 (Immediate)			
0003	4002	Wall Box		IX-DA		Call	Make	200-2000 [msec]	200		
0004	4003	Classroom 1		IX-DV, IX-DVF(*)		Call	Make	0 (Immediate)			
0005	4004	Classroom 2		IX-EA, IX-EAU		Call	Make	0 (Immediate)			
0006	4005	Classroom 3		IX-SS-2G		Call	Make	0 (Immediate)			
0007	4006	Classroom 4		IX-SS-1G		Call	Make	0 (Immediate)			
0008	4007	Backup Desk		IX-MV7*		External Input Page	Make	0 (Immediate)			
0009	4008	Classroom 5		IX-DV, IX-DVF(*)		Call	Make	0 (Immediate)			

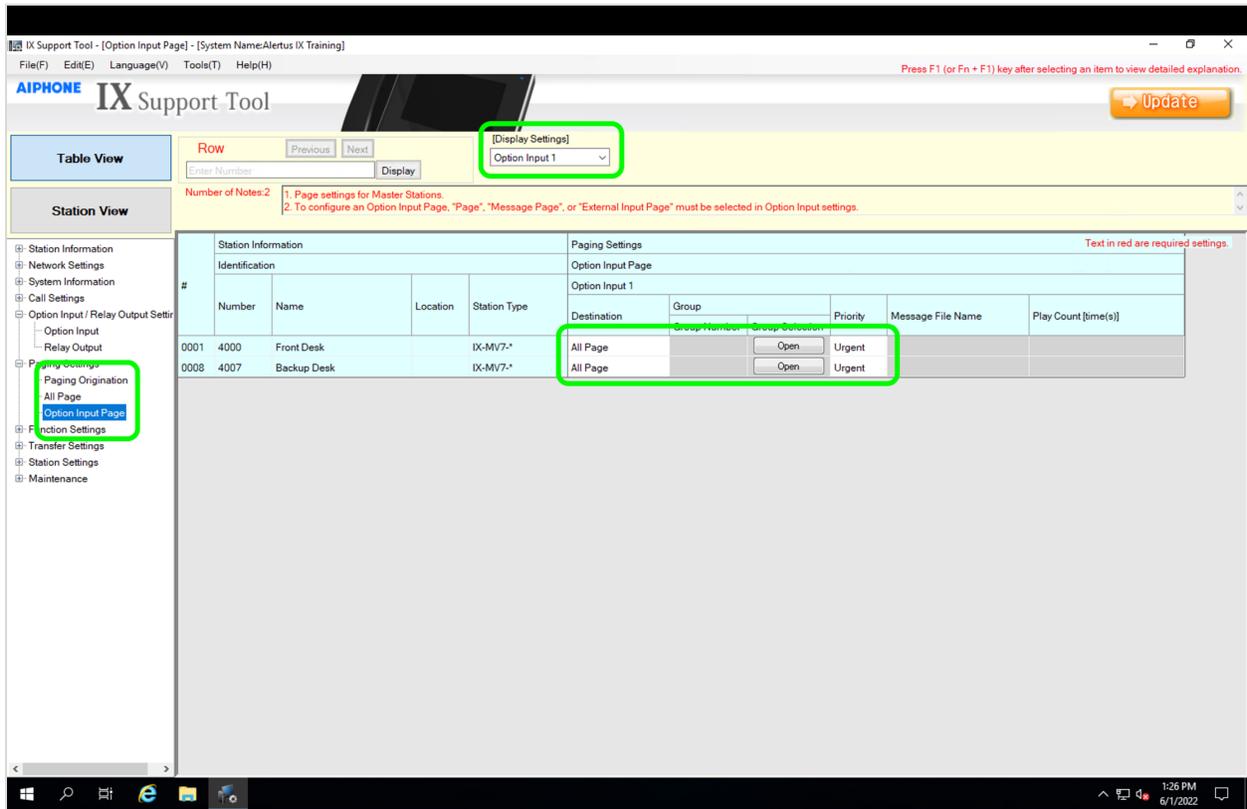
4. Go to the Paging Settings > All Page from the left-hand menu.
5. Select all the end units that will annunciate the alert by selecting the checkboxes.

Figure 10: All Page



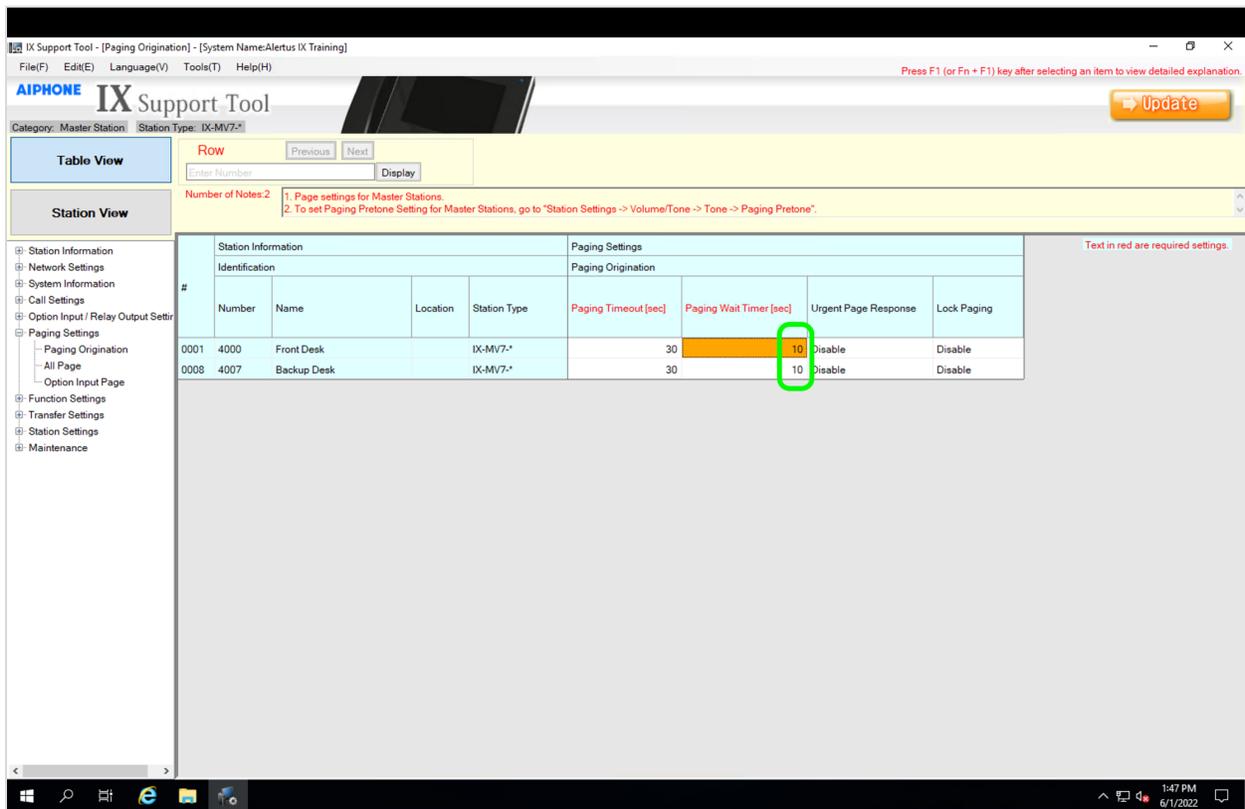
6. Go to the Paging Settings > Option Input Page from the left-hand menu.
7. Select Option Input 1 from the Display Settings dropdown.
8. Select All Page as the destination and set priority as Urgent.

Figure 11: Option Input Page



9. Reduce the Paging Wait Timer to 1 second.

Figure 12: Paging Wait Timer



The screenshot shows the AIPHONE IX Support Tool interface. The main window displays a table of station settings. The table has columns for Station Information (Number, Name, Location, Station Type) and Paging Settings (Paging Timeout [sec], Paging Wait Timer [sec], Urgent Page Response, Lock Paging). Two rows are visible: 0001 4000 Front Desk IX-MV7* and 0008 4007 Backup Desk IX-MV7*. The Paging Wait Timer [sec] for both rows is set to 10, which is highlighted with a green circle. The interface also includes a left sidebar with navigation options, a top menu bar, and a status bar at the bottom.

Station Information				Paging Settings			
Identification				Paging Origination			
Number	Name	Location	Station Type	Paging Timeout [sec]	Paging Wait Timer [sec]	Urgent Page Response	Lock Paging
0001	4000	Front Desk	IX-MV7*	30	10	Disable	Disable
0008	4007	Backup Desk	IX-MV7*	30	10	Disable	Disable

10. Click the Update button and upload the configuration to the stations from the File Menu.

Please refer to [Alertus Knowledge Base - IP-AVA Installation Guide](#) for the connection diagrams and configuration of the Alertus Server.