AIPHONE IX-DVF-4A

INSTALLATION AND PROGRAMMING GUIDE

The IX-DVF-4A is an IX Series video door station with four call buttons for selective calling to different destinations. The IX-DVF-4A will connect to a network switch, and the call buttons are connected to contact inputs on the station. These inputs will be programmed to selectively call different calling groups.

IX-DVF-4A



Names and Functions

- 1. Camera
- 2. Microphone
- 3. White LED for night viewing
- 4. Speaker
- 5. Call buttons

Features

- IP video door station
- 4 Labeled Call Buttons
- Stainless steel faceplate with tamper resistant screws

PACKAGE CONTENTS



Installation

For flush mounting, recess the supplied back box into the wall, then attach the mounting bracket using the four provided bracket screws.

For surface mounting, use the SBX-IXGDM7 surface mount box. This box can mount to a standard single gang box or to any flat surface.

Use the two standoffs to install the security screws. These are required for both the included back box and the SBX-IXGDM7 surface mount box.

To install the labels, cut along the template guides, then slide each side in to the label space on the panel.

Back Box Dimensions: 12-1/2" H x 6-1/8" W x 2-3/8" D IX-DVF-4A Dimensions: 13-11/16" H x 7-3/16" W

Door Release wire harness 2 Security Screw Standoffs



Specifications

| Camera unit: | 1/3" color CMOS 1.2 megapixel |
|--------------------|------------------------------------|
| Min. illumination: | 5 Lux |
| Terminations: | RJ45 |
| Operating Temp: | -40° ~ 140°F / -40° ~ 60°C |
| Wiring Distance: | 328' with CAT-5e/6 cable to switch |
| Dimensions: | 13-11/16" H x 7-3/16" W |
| w/ SBX-IXGDM7: | 13-3/4" H x 7-5/16" W x 3-1/16" D |

FCC WARNING:

| This device complies with Part 15 of the FCC rules. |
|--|
| Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference that may cause undesired operation. For proper regulatory compliance, the drain wire should be disconnected at the power supply end of the cable. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. |
| |

Getting Started

This programming guide will cover how to program an IX-DVF-4A door station and IX-MV7 master stations using the IX Support Tool software. For additional information and documentation for the IX system, please visit <u>www.aiphone.com/IX</u>.

Creating a New System

Open the IX Support Tool, then select **File** from the top menu and click **Create New System**. Enter in a System Name, and select the **No** radial button for Wizard Programming. Enter a system ID and Password. Enter station quantities and then click **Finish**.

| Ne | v System |
|--|---|
| System Settings System Name New System Name | UX Support Tool Settings |
| IP Version: IPv4 → Enter contact information (optional): Installar information. ● Displays in CONTACT INFORMATION of IX-MY7-3X-SOFT. Owner information: ● Notes: ● < | Mater Stations DX-MY7* DX-MY DX-DX-T DX-DX-T DX-DX-T DX-DX-T DX-DX-T DX-DX-T DX-DX-T DX-DX-T DX-DX-T DX-DX DX-DX < |
| System ID • SomeUserName 1-20 System Password • SomePassword 1-20 Restore Setting File Import System Configuration | Annumeric characters phanumeric characters Finish Cancel |

Station Information

Support Tool will open in Table View on the **Station Information - Identification** page. Enter unique Station Numbers and Names for each station. Click **Update** to save the changes.

| AIPHONE IX Sup | por | t Tool | | | | ⇒ Update | | | | | | | |
|---|---------|---------------|-------------------|----------|-------------------|----------------------------------|---|---|--|--|--|--|--|
| | [Relate | d Settings] | | | -/ | | | | | | | | |
| Table View | Remo | ve Station | Location Registry | | | | | | | | | | |
| Station View Number of Notes 2 1. Locations must be created in the Location Registry before they can be assigned to a Station. 2. Station Type cannot be changed once registered. To modify, station must be removed. | | | | | | | | | | | | | |
| - Station Information | | Station Info | rmation | | | Text in red are required setting | | | | | | | |
| Identification | | Identificatio | | | | | | | | | | | |
| ID and Password | # | # | # | # | # | # | # | # | | | | | |
| Time | | Number | Name | Location | Station Type | | | | | | | | |
| Expanded System | | | | | | | | | | | | | |
| Network Settings System Information | 0001 | 101 | Tenant 1 | | IX-M\/7.* | | | | | | | | |
| Call Settings | 0001 | 101 | Terrent O | | N 10.7 A | | | | | | | | |
| Option Input / Relay Output Se | 0002 | 102 | Tenant 2 | | IX-MV7-* | | | | | | | | |
| Paging Settings | 0003 | 103 | Tenant 3 | | IX-MV7-* | | | | | | | | |
| Function Settings | 0004 | 104 | Tenant 4 | | IX-MV7-* | | | | | | | | |
| Transfer Settings | 0005 | 200 | Front Door | | IX-DV, IX-DVF(-*) | | | | | | | | |

Network Settings - IP Address

The IP addresses for the stations can be individually set for each station or they can be configured in a batch. This guide will show how to assign via the batch configuration. Expand **Network Settings** and click on **IP Address**, then click **Batch IP Address Configuration**

| Station Information Network Settings Information IP Address DNS SIP | Ro Enter Numt | W Number | Previous | g IP Addres | Display E | Related Settin Batch IP Addre | gs] ess Configur: start after Up | ation date is clicked. | This | will ta | ake a f | few m | inutes | \$. | | 0 |
|---|---|-------------|------------|-------------|-------------------|--------------------------------------|--|---------------------------|--|---------|---------|-------|--------|--------|---|---|
| Multicast Address Video Audio Packet Priority | # Station Information Identification Number Name Locati | | | | Station Type | Network Se IP Address Hostname | ttings IP Version | Static / DHC- | Text in red are required IPv4 Address atic / DHC~ IP Address Subnet Ma | | | | ed set | tings. | | |
| NTP | 0001 | 101 | Tenant 1 | | IX-M\/7_* | | IDv/ | Static | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| System Information | 0002 | 102 | Tenant 2 | | IX-MV7-* | | IPv4 | Static | | | | | | | | |
| | 0003 | 103 | Tenant 3 | | IX-MV7-* | | IPv4 | Static | | | | | | | | |
| | 0004 | 104 | Tenant 4 | | IX-MV7-* | | IPv4 | Static | | | | | | | | |
| | 0005 | 200 | Front Door | | IX-DV, IX-DVF(-*) | | IPv4 | Static | | | | | | | | |

Batch IP Address Configuration

On the <u>Batch IP Address Configuration</u> page, enter a starting IP address and subnet mask. Check the box beside each station or click <u>Select</u> to check all stations at once. Click <u>OK</u>, then click <u>OK</u> on the confirmation pop-up. Each station will now have an IP address and Subnet Mask assigned to it.

| | Batch IP Address Configuration | | | | | | | | | | | | | | | | | |
|--|--|--|-------------------------------------|------------------------------|------------------------------|-------------------|-----------------|---|---|---|--|---------------------------------------|--------------------------|------------------|-----------|----------|---------|-----------|
| Enter starting IPv4 Addre Subnet Ma Select stations | IP address ss isk i for batch I | (IPv4 or IPv6) 192 255 P address as | and subn 168 255 signment: | et mask 1 . 10 255 . 0 | IPv6 Address Station List | | | | s | [R Display E as settings will cause | Related Settin Batch IP Addr e station to re | gs] ess Configur start after Up | ation date is clicked | . This will take | a few | minutes | 9 | \$ |
| Select | Number | Name | Location | Station Type | IP Address (IPv4) | IP Address (IPv6) | ^ | | | | | | | | | | | |
| | 101 | Tenant 1 | | IX-MV7-* | | | | | | | Network Se | ttings | | | ext in re | d are re | quirea | settings. |
| | 102 | Tenant 2 | | IX-MV7-* | | | IX Support Tool | × | | | IP Address | | | | | | | |
| | 103 | Tenant 3 | | IX-MV7-* | | | in support tool | | | | | | | IPv4 Address | 5 | _ | | |
| | 104 | Tenant 4 | | IX-MV7-* | | | Calact S | stion's ID Address will be batch configured | | Station Type | Hostname IP Ver | IP Version | Static / DHC | IP Address | | Subn | let Mas | .k |
| | 200 | Front Door | | IX-DV, IX-DVF(-*) | | | Continu | e? | | | | | | 1 2 3 | 4 | 1 | 2 3 | 3 4 |
| < | | | | | | | | | | IX-MV7-* | | IPv4 | Static | 192 168 | 1 1 | J 255 | 255 2 | 255 0 |
| Select Station | by Type: | | | | | | | OK Cancel | | IX-MV7-* | | IPv4 | Static | 192 168 | 1 1 | 1 255 | 255 2 | 255 0 |
| All | o, ,,po. | ~ | | Select | Unselect | | | | | IX-MV7-* | | IPv4 | Static | 192 168 | 1 1 | 2 255 | 255 2 | 255 0 |
| | | | | | | ок | Cancel | | | IX-MV7-* | | IPv4 | Static | 192 168 | 1 1 | 3 255 | 255 2 | 255 0 |
| | | | | | | | Guilder | | | IX-DV, IX-DVF(-*) | | IPv4 | Static | 192 168 | 1 1 | 4 255 | 255 2 | 255 0 |
| | | | | | | | | | L | IX-DV, IX-DVF(-*) | | IPv4 | Static | 192 168 | 1 1 | 4 255 | 255 2 | :55 |

If a Default Gateway address is required, it can be manually added on this page once the IP addresses have been assigned.

Association Settings

The station name and IP address that were assigned in the previous steps will now need to be associated to each station in the system before any call settings can be uploaded. From the top menu bar, select **Tools(T)** from the top menu, then click **Association Settings**.

| Тос | ols(T) | Help(H) | | | | | |
|-----|-------------------------|-----------------|--|--|--|--|--|
| 0, | Statio | on Search | | | | | |
| ₫. | Association Settings | | | | | | |
| | Station Replacement | | | | | | |
| ŤŶ | Restore System Settings | | | | | | |
| ** | Syste | m Configuration | | | | | |

When the Association Settings window opens, it will automatically begin searching for any IX stations on the network. Once this is complete, select a configuration in the Station Settings List at the top, then select the station to assign it to in the Station List. Click **Apply** and **OK** on the pop-up to start the association process for that station, then repeat these steps for the remaining stations.

Different Networks

| | Station Settings List | | | | | | | | | | | | |
|--------|-----------------------|------------|----------|-------------------|----------|--------------|------------|--|--|--|--|--|--|
| Select | Number | Name | Location | Station Type | Hostname | IP Address | Associated | | | | | | |
| ۲ | 101 | Tenant 1 | | IX-MV7-* | | 192.168.1.10 | - | | | | | | |
| 0 | 102 | Tenant 2 | | IX-MV7-* | | 192.168.1.11 | - | | | | | | |
| 0 | 103 | Tenant 3 | | IX-MV7-* | | 192.168.1.12 | - | | | | | | |
| 0 | 104 | Tenant 4 | | IX-MV7-* | | 192.168.1.13 | - | | | | | | |
| 0 | 200 | Front Door | | IX-DV, IX-DVF(-*) | | 192.168.1.14 | - | | | | | | |

2. Select the station to associate with the setting file.

O Enter station MAC address:

Search and select station within local network:

| Station List | | | | | | | | | | | |
|--------------|--------|------|----------|-------------------|-------------------|------------|--|--|--|--|--|
| Select | Number | Name | Location | Station Type | MAC address | Associated | | | | | |
| ۲ | | | | IX-MV7-* | 00:0B:AA:2F:02:1A | - | | | | | |
| 0 | | | | IX-MV7-* | 00:0B:AA:2F:02:2D | - | | | | | |
| 0 | | | | IX-MV7-* | 00:0B:AA:2F:01:AC | - | | | | | |
| 0 | | | | IX-MV7-* | 00:0B:AA:2F:02:DB | - | | | | | |
| 0 | | | | IX-DV, IX-DVF(-*) | 00:0B:AA:27:03:1A | - | | | | | |

IX Support Tool × The selected association will be applied. Continue? If the IP Address has been changed, the station will be restarted. OK Cancel

Apply



Once associated, the stations will restart with the IP address and station name assigned. Scroll down to the Associated Stations List at the bottom of the page to confirm the status of the association.

| | Associated Stations List | | | | | | | | | | | | | |
|--------|--------------------------|------------|----------|-------------------|--------------|-------------------|---------|--|--|--|--|--|--|--|
| Select | Number | Name | Location | Station Type | IP Address | MAC address | Status | | | | | | | |
| | 101 | Tenant 1 | | IX-MV7-* | 192.168.1.10 | 00:0B:AA:2F:02:1A | Success | | | | | | | |
| | 102 | Tenant 2 | | IX-MV7-* | 192.168.1.11 | 00:0B:AA:2F:02:2D | Success | | | | | | | |
| | 103 | Tenant 3 | | IX-MV7-* | 192.168.1.12 | 00:0B:AA:2F:01:AC | Success | | | | | | | |
| | 104 | Tenant 4 | | IX-MV7-* | 192.168.1.13 | 00:0B:AA:2F:02:DB | Success | | | | | | | |
| | 200 | Front Door | | IX-DV, IX-DVF(-*) | 192.168.1.14 | 00:0B:AA:27:03:1A | Success | | | | | | | |

Call Button Settings - Option Inputs

The IX-DVF-4A has four call buttons that are wired to Option Inputs. These inputs will need to be programmed to place a call. Click on **Station View**, then expand **Option Input/Relay Output Settings** and select **Option Input**.



Option Inputs

In the <u>Select Station to Edit</u> menu, use the **Number** drop-down to select the IX-DVF-4A, then click <u>Select</u>. Use the **Option Input** drop-down to select **Option Input 1**. Click the **Call** radial button, then click <u>Update</u>. Use the **Option Input** drop-down to switch to the next Option Input and repeat this process until all of the inputs have been set to **Call**.



Called Stations Groups

Once the Option Inputs are set to call, individual Called Station Groups will be assigned to each to allow for selective calling from each button. Expand **Call Settings** and click **Called Stations (Door/Sub Stations)**. Use the **Group Number** drop-down to select **Group 01**.

| System Information | Called Stations (Door/Sub Stations) | | | | | | |
|-------------------------------------|--|--|--|--|--|--|--|
| Call Settings | U = Unicast, M = Multicast | | | | | | |
| - Station Information | If designating "M", multicast IP addresses must be configured for the station(s). To register a VoIP Phone, go to Network Settings -> SIP and enter the IP address of the SIP Primary Server. | | | | | | |
| ···· Called Stations (Master Statio | Only one VoIP Phone can be set per group. | | | | | | |
| Called Stations (Door/Sub St | | | | | | | |
| ··· Call Origination | Group Number Group 01 VolP Phone Registration | | | | | | |
| | | | | | | | |

Each of the Called Stations groups will be call to a different master group of masters. Use the **Open** and **Delete** buttons to add or remove master stations from the list. When one group is complete, click on **Update** and then switch to the next group using the **Group Number** drop-down. Repeat until a call group has been configured for each button that will be in use.

| # | Number | Station List | IPv4 Address | IPv6 Address | Station Type | Protocol | Delete |
|----|--------|--------------|--------------|--------------|--------------|----------|--------|
| 01 | 101 | Open | 192.168.1.10 | | IX-MV7-* | U | Delete |
| 02 | 102 | Open | 192.168.1.11 | | IX-MV7-* | U | Delete |
| 03 | 103 | Open | 192.168.1.12 | | IX-MV7-* | U | Delete |
| 04 | 104 | Open | 192.168.1.13 | | IX-MV7-* | U | Delete |
| 05 | 105 | Open | 192.168.1.14 | | IX-MV7-* | U | Delete |
| 06 | 106 | Open | 192.168.1.15 | | IX-MV7-* | U | Delete |



Programming Call Buttons

To link the Called Stations groups to the call buttons on the door station, expand **Call Settings** and click on **Call Origination**. Use the **Call Button / Option Input #** drop-down and select **Option Input 1**.

| System Information Call Settings | •Call Origination | | | |
|--|------------------------------|----------------------------------|--|--|
| Station Information | Call Button / Option Input # | Call Button | | |
| Colled Otations (Master Otati | | Call Button | | |
| Called Stations (Master Statio | Call Mathed | Option Input 1 | | |
| Called Stations (Door/Sub St | Call Method | Option Input 2 | | |
| Call Origination | | Option Input 3 Option Input 4 | | |
| ···· Incoming Call | | | | |
| Contactless Call | | | | |
| Option Input / Relay Output Settir | | | | |
| Paging Settings | | | | |

Use the **Standard Mode Settings - Call Destination** drop-down to assign a call group to the Option Input. Press **Update** when a call group has been set, then switch to the next Option Input and repeat until all of the Option Inputs that will be used have a call group linked to them.

| Ringb | ack Tone 🔶 | Call Pattern 2 | | ~ | | | |
|--------|----------------------------|------------------------|---------------|--------------------|----|-----|----------|
| Call T | imeout 🔶 🌲 | 10-600 sec | | ~ | 60 | sec | |
| Ringb | ack Tone Count [time(s)] 🔶 | 1 | | ~ | | | |
| Call E | Pestination | Call Destination | 01-99 Open | Priority | ~ | | |
| Stand | ard Mode Settings | Call Destination 01 | ~ | Priority Normal | ~ | | ⇒ Update |

Setting File Upload

Once all settings are configured, select **File (F)** from the top bar and select **Upload Settings to Station**. Click **Select** to check all of the stations, then click on **Settings**. Once **OK** is pressed on the confirmation pop-up, the upload process will start. This process will take around 30 seconds to a minute. Once it is complete, confirm that the Status column shows Success for each station.

| File(F) Edit(E) Language(V) Tools(T) | | | | 3 | Setting File | Upload | | |
|--|--|--------------------------|-----------|------------|-------------------|-------------------|------------------------------------|----------------------------------|
| Select Existing System Update Settings | Select the station(s) to upload the Setting File(s): | | | | | - | | |
| Download Settings From Station | | | | | Station L | ist | Text in red are required settings. | |
| Upload Settings To Station | Select | Number | Name | Location | Station Type | Status | · | |
| Diload SSL Certificate | | 101 | Tenant 1 | | IX-MV7-* | | | |
| Superty Line Outpresiding Orthuge | | 102 | Tenant 2 | | IX-MV7-* | | | |
| Cancel | | 103 | Tenant 3 | | IX-MV7-* | | | IX Support Tool × |
| Cancer | | 104 | Tenant 4 | | IX-MV7-* | | | |
| | | 200 | Front Doo | r | IX-DV, IX-DVF(-*) | - | | |
| | Select Station | by Type: | | | | | | Pile will be uploaded. Continue? |
| | All | -1 -1 | ~ | S | elect | Unselect | | |
| | Select file type | e to be uploa ettings | ded | Sounds | | Image | Schedule | OK Cancel |
| | Salast | Nur | nhor | Nome | Location | Ctation Time | Status | |
| | Select | INUI | ibei | INAILIE | Location | Station type | Status | |
| | | 101 | | Tenant 1 | | IX-MV7-* | Success | |
| | | 102 | | Tenant 2 | | IX-MV7-* | Success | |
| | \checkmark | 103 | | Tenant 3 | | IX-MV7-* | Success | |
| | \checkmark | 104 | | Tenant 4 | | IX-MV7-* | Success | |
| | \checkmark | 200 | | Front Door | | IX-DV, IX-DVF(-*) | Success | |
| | | | | | | | | |