AIPHONE

AX Series
Hands-Free Video Intercom with Integration

Commercial | Educational | Healthcare | Industrial

Features and Benefits

Versatile capacity with Cat-5e wiring
Flexible system allows up to 8 master stations and a combination of 120 door stations, sub stations, or adaptors using common network cable.

Reliable visitor screening, convenient door release
Visitors can safely be identified with clear audio and video prior to unlocking the door with the simple push of a button.

Integrates with mainstream security peripherals
Integrate the AX Series into existing security components including CCTV cameras and electronic access control systems.

Provides security in remote areas
Reduce exposure to risk in remote locations by adding door stations to parking garages, stanchions, gates, and more.

Monitor all entrances, inside and outside
Video door stations allow activity at each location to be seen and heard at the master stations.

All, Group, and Selective Call
Master stations can be used to call all master stations, to call grouped master stations, and to selectively call individual master stations, door stations, and sub stations connected to the same system.

Video output
Composite video output allows the video to be recorded or seen on a larger screen.
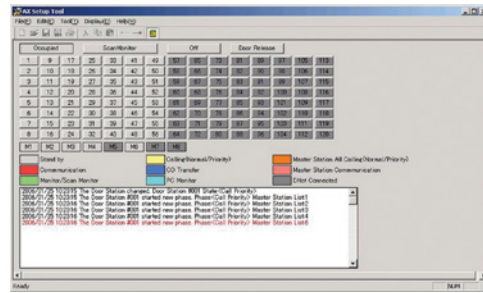
Paging adaptor
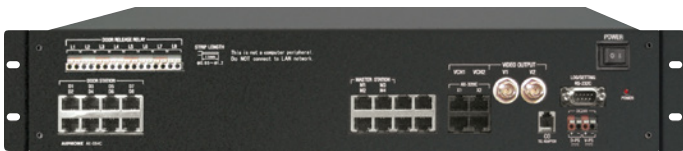Broadcast important announcements through a paging system using the AXW-PA1.

Intuitive programming software
Features and functions are easily programmed using the custom software, included with the central exchange unit.

Components

Central Exchange Units: select 1 *(required for system—includes programming software)*

AX-084C
Central Exchange Unit
(supports up to 4 master stations and 8 door/sub stations)
 3-7/16" H   16-9/16" W   13-3/16" D

AX-248C
Central Exchange Unit
(supports up to to 8 master stations and 24 door/sub stations)
 3-7/16" H   16-9/16" W   13-3/16" D

Add-On Central Exchange Unit: select up to 3 *(optional—based on number of door and sub stations selected)*

AX-320C
Add-On Central Exchange Unit
(supports up to 32 door/sub stations)
 3-7/16" H   16-9/16" W   13-3/16" D

Components

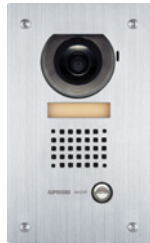### Door Stations and Indoor Sub Stations: mix and match up to 120

AX-DV
Video Door Station
- Aluminum die cast
- Weather and vandal resistant
- Surface mount
  7-11/16" H
  3-15/16" W
  1" D

AX-DVF
Video Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*
  9-11/16" H
  5-3/4" W
  2-1/2" D*

AX-DV-P
Video Door Station with HID® Card Reader
(requires a third-party host and additional wire to power card reader)
- Stainless steel panel
- Weather and vandal resistant
- Surface mount *(back box included)*
  9-5/8" H
  3-15/16" W
  1" D

AX-DVF-P
Video Door Station with HID® Card Reader
(requires a third-party host and additional wire to power card reader)
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*
  11-5/8" H
  5-3/4" W
  2-1/2" D*

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount door stations.

AX-DM
Mullion-Mount Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount
  6-5/16" H
  1-11/16" W
  7/8" D

IF-DA
Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount
  5-1/8" H
  3-7/8" W
  1-1/8" D

IE-JA
Audio Door Station
- Stainless steel cover
- Weather resistant
- Flush mount *(fits 2-gang box)*
  4-1/2" H
  4-9/16" W
  2-1/2" D*

IE-SS/A
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*
  4-3/4" H
  4-3/4" W
  2-1/2" D*

IE-SSR
Audio Door Station
- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*
  4-3/4" H
  4-3/4" W
  2-1/2" D*

AX-A
Audio Sub Station
- Plastic chassis
- Surface mount
  7-1/16" H
  5-5/8" W
  2-1/8" D

AX-AN
Privacy Audio Sub Station
- Plastic chassis
- Privacy button
- Surface mount
  7-1/16" H
  5-5/8" W
  2-1/8" D

AX-B
Audio Sub Station
- Plastic chassis
- Semi-flush mount
  8-3/16" H
  6" W
  2" D

AX-BN
Audio Door Station
- Plastic chassis
- Privacy button
- Semi-flush mount
  8-3/16" H
  6" W
  2" D

Master Stations: mix and match up to 8

AX-8MV
Video Master Station
- 3-1/2" LCD screen

AX-8MV-W
Video Master Station
(recommended for an 8 x 8 system only)
- 3-1/2" LCD screen

AX-8M
Audio Master Station

Shared Features:
- Hands-free or push-to-talk communication
- Two talk channels
- Composite video output from CEU/video master stations
- All Call or Group Call to master stations
- Scan monitoring
- Wall or desk mount
  6-7/8" H
  7-5/8" W
  1-7/8" D

Components

Power Supply
(one required per audio system, two required per video system)

PS-2420UL
24V DC, 2A Power Supply
6-9/16" H
3-9/16" W
2-1/16" D

Accessories

AXW-PA1
Paging Adaptor
4-1/8" H
2-1/2" W
1-1/2" D

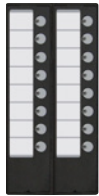### AXW-AZ
CCTV Input Module
1-5/8" H
7" W
4" D

AXW-AVT
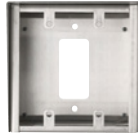Media Converter Transmitter
1-5/8" H
7" W
4" D

AXW-AVR
Media Converter Receiver
1-5/8" H
7" W
4" D

AX-16SW
16-Call Add-On Selector for AX-8MV or AX-8M
(max. 7 per master)
6-7/8" H
3-3/8" W
1-7/8" D

SBX-2G/A
Surface Mount Box for IE-JA, IE-SS/A, or IE-SSR
4-13/16" H
4-7/8" W
4" D

KMB-45
45° Mullion Mounting Bracket for IF-DA
5-1/2" H
5-1/2" W
1-3/4" D

SBX-AXDV30
30° Angle Box for AX-DV
7-11/16" H
3-7/8" W
2-7/8" D

SBX-AXDVF
Surface Mount Box for AX-DVF
9-3/4" H
5-7/8" W
2-13/16" D

SBX-DVF-P
Surface Mount Box for AX-DVF-P
11-11/16" H
5-15/16" W
2-13/16" D

EL-12S
Electric Door Strike for Wood Frames
4-1/8" H
13/16" W
1-1/8" D

RY-1824L
Form C Door Release Relay
(1 per door)

RY-ES
External Signaling Relay
4-1/8" H
2-7/16" W
1-5/8" D

IER-2
Call Extension Speaker
4-3/4" H
3-7/16" W
1-1/8" D

MCW-S/B
Desk Stand for AX-8MV, AX-8MV-W, or AX-8M *(mounting hardware included)*
6-1/2" H
6-1/2" W
8" D

Specifications

Power Source	24V DC—use two PS-2420ULs
Communication	Hands-free (VOX) or push-to-talk (simplex)
Door Release	Programmable dry contact, 24V AC/DC, 500mA—use RY-1824L for larger contact rating
Wire Type	Between Door/Sub Station, Master Station, and Central Exchange Unit: Cat-5e
	Power Supply to Central Exchange Unit and Add-On Central Exchange Unit: 2-cond., overall shield—use Aiphone 821802
Distance	Door/Sub Station to Central Exchange Unit and Add-On Central Exchange Unit: 980'
	Central Exchange Unit to Master Station: 980'
	Central Exchange Unit to Add-On Central Exchange Unit: 16'
	Power Supply to Central Exchange Unit and Add-On Central Exchange Unit: 16' (22 AWG) 33' (18 AWG)

Combine this intercom system with our AC Series access control solution for more security benefits!