



2025 CATALOG



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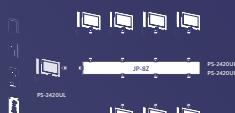


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The diagrams in this catalog are for illustrative purposes only; wiring may vary by system. Refer to instruction manuals for wiring and installation specifications.

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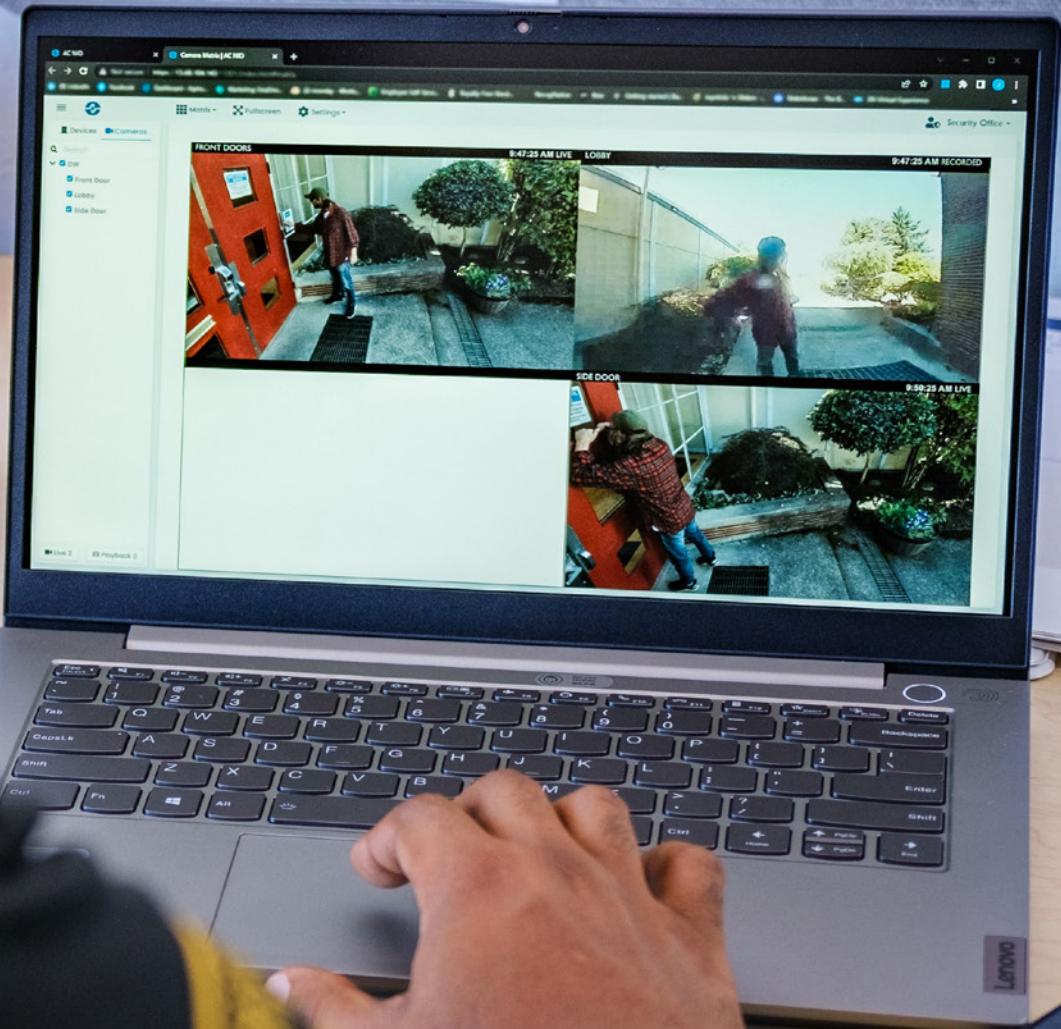
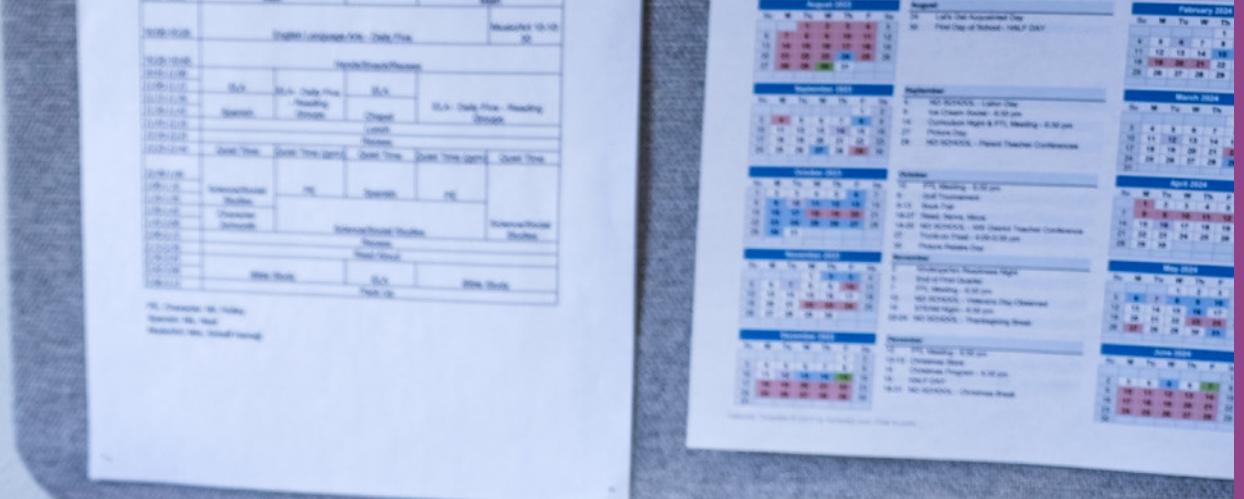
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# ACCESS CONTROL

Elevate your security with a modern, simple user interface.

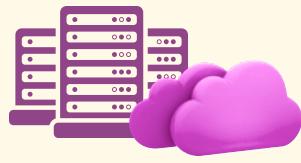


# AC Series Access Control System with Intercom Integration

## AC Nio™ Management Software

Licenses: select 1 (required)

Cloud-Based and On-Site Deployment Options



AC-NIO-ESS1, AC-NIO-ESS5,

AC-NIO-SB1, AC-NIO-SB5

→ p.8



AC Nio™ Admin  
→ p.8



AC Key  
→ p.8



AC-HOST  
→ p.8

## Readers and Credentials: mix and match up to 40 or 80 readers (based on software license selection)



AC-PROX-1G  
→ p.10



AC-10K-1G  
→ p.10



AC-10K-M  
→ p.10



AC-BT-10K  
→ p.10



AC-BT-M  
→ p.10

Select an unlimited number of user credentials in a single system



AC-PC-40  
AC-PC-H26  
→ p.10



AC-PF-40  
AC-PF-H26  
→ p.10



AC-PT-40  
AC-PT-H26  
→ p.10

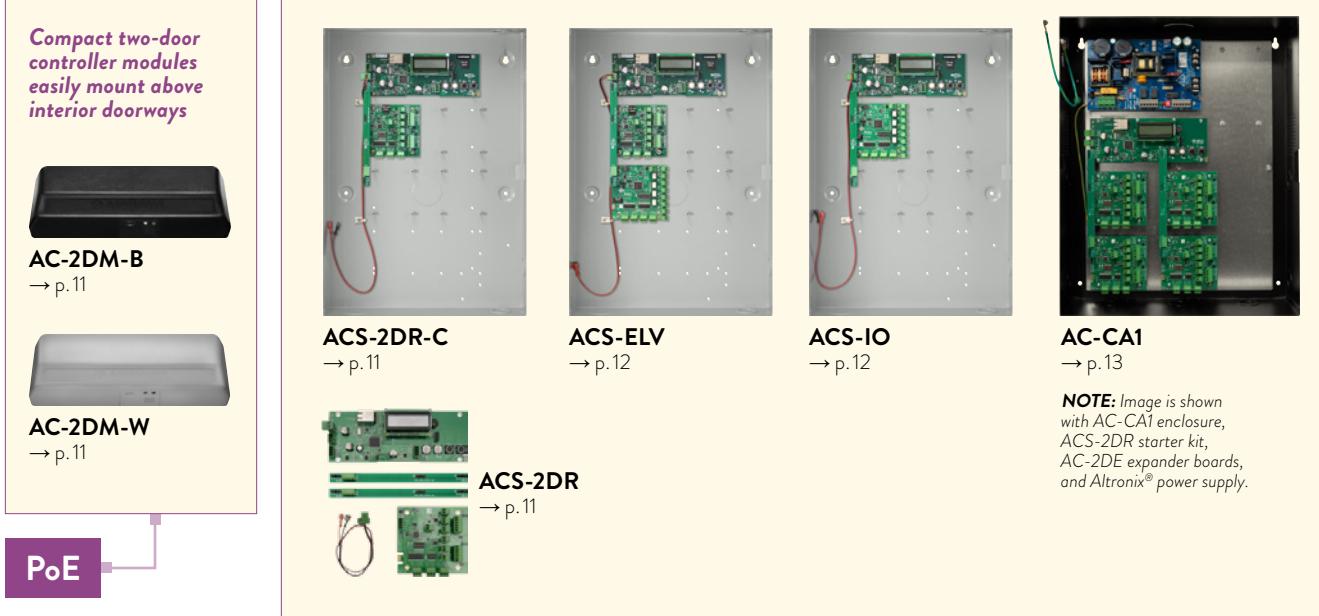
- Cloud-based or on-site deployment options provide flexibility for dealers and end users
- Compact PoE two-door access controllers and traditional panels provide flexibility for virtually any configuration
- Cross product compatibility with all Aiphone intercoms, both IP and analog
- NDAA compliant, TAA compliant, UL Listed
- Easily retrofit existing systems
- Expand and grow with simple hardware
- Intuitive software provides easy programming and management
- Free digital key mobile app (AC Key) can be used to unlock doors and share temporary visitor passes



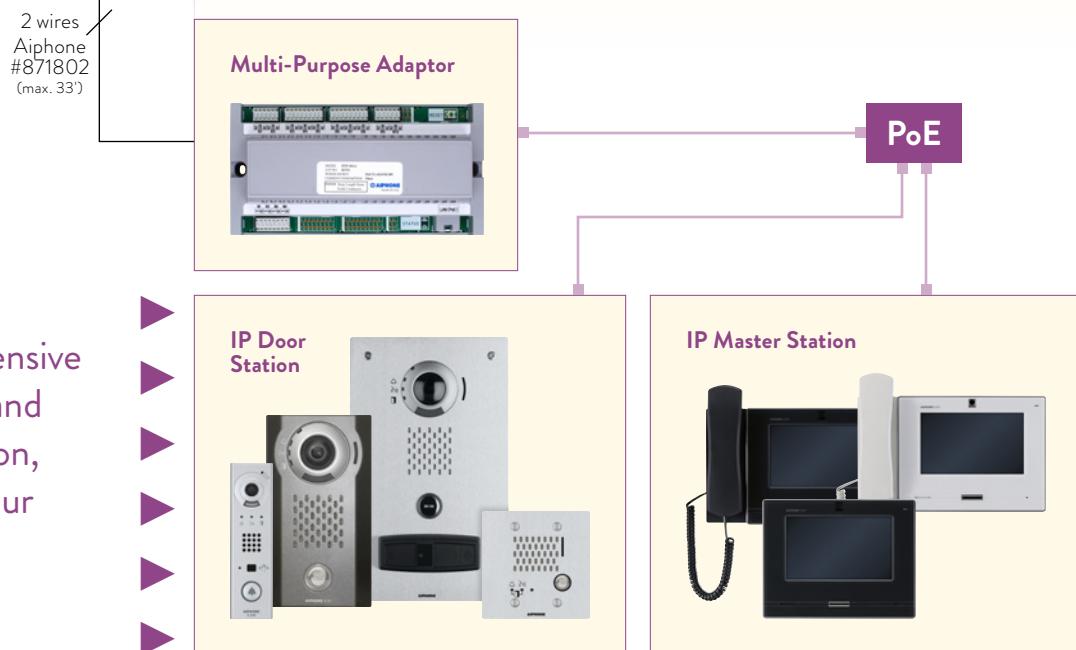
GET MORE INFORMATION ON THIS SYSTEM



## Door Controllers: mix and match desired combination (based on software license selection)



## Intercom System (compatible with all intercom systems—showing IX Series components)



For a comprehensive access control and intercom solution, integrate with our IX | IXG Series  
→ 16-29

# AC Series Features and Specifications



## AC-NIO-ESS1

1-Year AC Nio™ Essential License for Managing 40 Doors or Cameras

## AC-NIO-ESS5

5-Year AC Nio™ Essential License for Managing 40 Doors or Cameras

## AC-NIO-SB1

1-Year AC Nio™ Small Business License for Managing 80 Doors or Cameras

## AC-NIO-SB5

5-Year AC Nio™ Small Business License for Managing 80 Doors or Cameras

- User-friendly software makes it easy to program and maintain everyday functionality

- Licenses can be installed on a local server or PC

- Essential and Small Business licenses available in 1- and 5-year options

- Essential license is for managing smaller systems with up to 40 doors and 40 cameras and allows 1 partition (does not support additional partitions or LDAP integration)

- Small Business license is for managing up to 80 doors and 80 cameras, as well as elevators and unmanaged doors

- Small Business license allows up to five partitions and supports Lightweight Directory Access Protocol (LDAP) integration

**Operating System** Windows® 7 Professional, Windows® 7 Enterprise, Windows® 7 Ultimate or later

**CPU** 32 bit (x86) processor or 64 bit (x64) processor, 2GHz or faster

**Memory** 4 GB or higher

**Required Storage** 1GB (additional space required for database)

**Runtime** .NET Framework 4.5 or later

**SQL Server** Microsoft® SQL Server 2008, SQL Server 2008 Express or higher

**Doors** AC-NIO-ESS1, AC-NIO-ESS5: 40  
AC-NIO-SB1, AC-NIO-SB5: 80

**Cameras** AC-NIO-ESS1, AC-NIO-ESS5: 40  
AC-NIO-SB1, AC-NIO-SB5: 80

**Partitions** AC-NIO-ESS1, AC-NIO-ESS5: 1  
AC-NIO-SB1, AC-NIO-SB5: 5

**LDAP** AC-NIO-ESS1, AC-NIO-ESS5: No  
AC-NIO-SB1, AC-NIO-SB5: Yes

**Unmanaged Doors** AC-NIO-ESS1, AC-NIO-ESS5: No  
AC-NIO-SB1, AC-NIO-SB5: Yes



## AC Nio™ Admin

Administrative Mobile App (free with AC Nio Management Software Licenses)

- Companion app to AC Nio™, provides many of the same administrative tools as the full-featured PC software
- Add and remove users, edit permissions, and remotely lock or unlock doors
- Available on Apple® iOS and Google Play™

**Operating System** Android: 5.1 or newer

iOS: 13.4 or newer

**Requirements** Active AC Nio™ License (Essential or Small Business)



## AC Key

Digital Key Mobile App (free with AC Nio Management Software Licenses)

- Doors can be unlocked from a smartphone or tablet
- Activity can be tracked with AC Nio™
- Users can be assigned to specific partitions or the entire site
- Works on the local network or off-site with port forwarding
- Create lists of frequently used doors
- Issue temporary visitor passes by text or email
- Visitor pass users do not need AC Key installed
- Available on Apple® iOS and Google Play™

**Operating System** Android: 5.1 or newer

iOS: 13.4 or newer

**Requirements** Active AC Nio™ License (Essential or Small Business)



## AC-HOST

Embedded Server Host for AC Nio™ Essential Licenses (Linux-based host requires one license and is sold separately)

- Compact form factor
- Supports applications of up to 40 doors (Essential Business License)

**CPU** Broadcom BCM2711BO quad-core A72 @1.5GHz

**RAM** 2 GB LPDDR4 SDRAM

**Storage** 16 GB microSD, A1 rated

**Ports** 2 USB 3.0, 2 USB 2.0

**Network** Gigabit Ethernet

**Network Protocols** IPv4, IPv6, TCP, UDP, HTTPS

**Dimensions** 4-1/2" H x 4-1/2" W x 1-1/2" D



# AC Series Features and Specifications

**AC-PROX-1G**

1-Gang and Mullion-Mount 125kHz Wiegand Proximity Reader

- Compatible with Aiphone, HID, AWID, and Wiegand
- Mullion or 1-gang mount
- Up to 6" read range
- Indoor and outdoor rated
- Horizontal or vertical mounting orientation

Power Input 5-14V DC

Power Draw 45mA

Frequency 125kHz

Certifications CSA, FCC, CE, C-Tick

Credentials Aiphone 40-bit, HID, AWID, and Wiegand

UL Listing UL 294/ULC S319-05

Operating Temp -40°~149°F(40°~65°C)

Dimensions 1-Gang Bracket: 5-3/4" H x 2-7/8" W x 7/8" D

Mullion: 4-7/16" H x 1-5/8" W x 3/4" D

**AC-10K-1G**

1-Gang Proximity Reader with Access Keypad

**AC-10K-M**

Mullion-Mount Proximity Reader with Access Keypad

- Combination 125kHz Wiegand proximity reader and security keypad
- Up to a 6" non-contact read range with clamshell cards
- Compatible with Aiphone, HID, AWID, and Pyramid credentials
- Allows access with a pin code, a card swipe, or a pin code and card swipe in conjunction with each other

Power Input 5-14V DC

Power Draw 50mA typical, 115mA peak

Frequency 125kHz

Certifications CSA, FCC, CE, C-Tick

Credentials Aiphone 40-bit, HID, AWID, Pyramid

UL Listing UL 294

Operating Temp -40°~149°F (40°~65°C)

Dimensions AC-10K-1G: 4-5/16" H x 3" W x 11/16" D

AC-10K-M: 6-1/8" H x 1-3/4" W x 15/16" D

**AC-BT-10K**

1-Gang Bluetooth® and NFC™ Reader with Access Keypad

**AC-BT-M**

Mullion-Mount Bluetooth® and NFC™ Reader

- 13.56MHz Bluetooth® reader
- Uses a Wiegand connection
- Supports a variety of Bluetooth® and NFC credentials
- AC-BT-M allows access with a card swipe
- AC-BT-10K allows access with a pin code, a card swipe, or a pin code and card swipe in conjunction with each other

Power Input AC-BT-10K: 7-28V DC

AC-BT-M: 9-15V DC

Power Draw AC-BT-10K: 180mA peak at 12V DC

AC-BT-M: 150mA peak at 12V DC

Frequency 13.56MHz + Bluetooth (low energy)

Certifications CE, FCC, IC, UL

Credentials NFC, Bluetooth, STiD Mobile ID app for Android and iOS, STiD Mobile ID, Orange Pack ID + MIFARE Ultralight and Ultralight C, MIFARE Classic and Classic EV1, MIFARE Plus® (S/X) and Plus® EV1, DESFire® 256, EV1, EV2, EV3, NFC, HCE, PicoPass® (CSN only), and iCLASS™ (CSN only)

UL Listing UL 294

Operating Temp AC-BT-10K: -30°~158°F (30°~70°C)

Dimensions AC-BT-10K: 4-3/16" H x 3-1/8" W x 1" D

AC-BT-M: 4-3/8" H x 1-11/16" W x 7/8" D

**AC-PC-40**

Aiphone 40-Bit 125kHz Proximity Card

**AC-PF-40**

Aiphone 40-Bit 125kHz Proximity Key Fob with Brass Ring

**AC-PF-H26**

HID® 26-Bit 125kHz Proximity Key Fob with Brass Ring

**AC-PT-40**

Aiphone 40-Bit 125kHz Proximity Disc Tag with Adhesive Backing

**AC-PT-H26**

HID® 26-Bit 125kHz Proximity Disc Tag with Adhesive Backing

- Credentials come in three different form factors: a clamshell card, a key fob for attaching to a key ring, and a disc tag with an adhesive backing for attaching to a personal item

- AC-PC-40 and AC-PC-H26 have a 6" read range from card to reader
- AC-PF-40 and AC-PF-H26 have a 4" read range from fob to reader
- AC-PT-40 and AC-PT-H26 have a 3-1/2" read range from tag to reader
- Site code and card number are printed on credential

Format AC-PC-40, AC-PF-40, AC-PT-40: Aiphone 40-bit

AC-PC-H26, AC-PF-H26,

AC-PT-H26: HID 26-bit (H10301)

Frequency 125kHz

Material AC-PC-40, AC-PC-H26,

AC-PF-40, AC-PF-H26: ABS

AC-PT-40, AC-PT-H26: PVC

Dimensions AC-PC-40, AC-PC-H26: 2-3/16" H x 3-3/8" W x 1/16" D

AC-PF-40, AC-PF-H26:

1-1/2" H x 3-1/16" W x 1/8" D

AC-PT-40, AC-PT-H26: 1" H x 1" W x 1/16" D

# AC Series Features and Specifications



**AC-2DM-B**  
PoE Two-Door Access Controller



**AC-2DM-W**  
PoE Two-Door Access Controller

- Two Wiegand reader inputs
- Two solid state dry contact relays
- Integrated lock power (12V DC, 500mA)
- Four configurable inputs
- Infrared motion sensor
- Up to 100,000 card holders
- Built-in diagnostic LCD
- PoE powered
- Custom scripting and actions available
- NDAA and TAA compliant
- UL and ULC Listed (UL 294/ULC S319-05)

**Power Source** PoE (IEEE 802.3af)

**Motion Sensor** Infrared

**Lock Power** 12V DC, 500mA

**Option Power** 12V DC, 300mA

**Contact Rating** 24V DC, 1A

**Network Protocols** IPv4, IPv6, TCP, UDP, HTTPS

**Reader Inputs** Wiegand

**Card Storage** Up to 100,000 users per controller

**Event Storage** Up to 50,000 events (first in, first out)

**UL Listing** UL 294/ULC S319-05

**Dimensions** 3-1/2" H x 10" W x 2-3/8" D



**ACS-2DR-C**

Two-Door Access Control Starter Kit with Enclosure (includes one ACS-2DR starter kit and one AC-C enclosure, which has space for the required AC-PS1250 power supply—up to three AC-2DE expander boards can be added for an eight-door capacity)

- Starter kit includes a ventilated lockable steel enclosure (AC-C) with a master door control board and a two-door expander board (AC-2DE)
- Designed to fit an AC-PS1250 power supply (sold separately) and up to four expansion boards.
- Up to three AC-2DE expander boards can be added to manage up to eight doors
- Two Wiegand reader inputs per AC-2DE (kit includes one AC-2DE and up to three more can be added)
- Integrated lock power for each door (12V DC, 500mA)
- Two solid state dry contact relays per door
- Three dry contact inputs per door
- Built-in diagnostic LCD
- Custom scripting and actions available
- Can support up to 8 doors with additional AC-2DEs
- Short and over-voltage protection
- Dedicated port for battery backup
- TAA and NDAA compliant
- Standoffs are included for board mounting
- It is lockable, vented, and includes nine conduit knockouts on the sides and the back of the enclosure
- This kit can be used on its own or as part of a larger AC Series access control system with additional components

**Power Source** 12V DC—use AC-PS1225

**NIC** RJ45 Ethernet Port 10/100Mbps

**Board Communication:** RS485 (AC-STRIP)

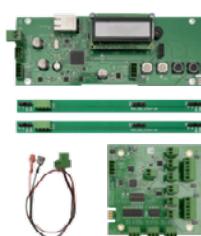
**Network Protocols** IPv4, IPv6, TCP, UDP, HTTPS

**Card Storage** Up to 100,000 users per controller

**Event Storage** Up to 50,000 events (first in, first out)

**UL Listing** UL 294/ULC S319-05

**Dimensions** 19-3/8" H x 13-5/8" W x 3" D



**ACS-2DR**

Two-Door Access Control Starter Kit (includes one door master controller, one AC-2DE expander board, and two AC-STRIPs— included with ACS-2DR-C kit and is sold separately for AC-CA1 enclosure, p. 13)



### ACS-ELV

Single Elevator Access Control Starter Kit with Enclosure

(includes one elevator master controller, one AC-2DE expander board, one AC-IOE expander board, and one AC-C enclosure, which has space for the required AC-PS1250 power supply—two more AC-C enclosures and up to seven AC-IOE expander boards can be added for a 64-floor capacity with the option to add one AC-2DE for a second elevator cab)

- Two Wiegand inputs per AC-2DE
- Eight solid state dry contact relays per AC-IOE
- Eight solid state dry contact inputs per AC-IOE
- NDAA and TAA compliant
- Supports up to 64 floors with a single elevator cab; up to 32 floors with two elevator cabs
- One AC-2DE can be added for a second elevator cab
- Up to seven AC-IOE boards can be added

**Power Source** PoE (IEEE 802.3af)

**Motion Sensor** Infrared

**Lock Power** 12V DC, 500mA

**Option Power** 12V DC, 300mA

**Contact Rating** 24V DC, 1A

**Network Protocols** IPv4, IPv6, TCP, UDP, HTTPS

**Reader Inputs** Wiegand

**Card Storage** Up to 100,000 users per controller

**Event Storage** Up to 50,000 events (first in, first out)

**UL Listing** UL 294/ULC S319-05

**Dimensions** 19-3/8" H x 13-5/8" W x 3" D



### ACS-IO

I/O Starter Kit with Enclosure

(includes one I/O master controller, one AC-IOE expander board, and one AC-C enclosure, which has space for the required AC-PS1250 power supply—one more AC-C enclosure and up to seven AC-IOE expander boards can be added for a 64-contact capacity)

- Eight solid state dry contact relays per AC-IOE
- Eight solid state dry contact inputs per AC-IOE
- Built-in diagnostic LCD
- NDAA and TAA compliant

**Power Source** 12V DC (AC-PS1250)

**NIC** RJ45 Ethernet Port 10/100Mbps

**Board Communication** RS485 (AC STRIP)

**Network Protocols** IPv4, IPv6, TCP, UDP, HTTPS

**UL Listing** UL 294/ULC S319-05

**Dimensions** 19-3/8" H x 13-5/8" W x 3" D

# AC Series Features and Specifications



## AC-CA1

Lockable Steel Enclosure with Power Supply (Includes one Altronix® eFlow6NB power supply—one ACS-2DR starter kit and up to three AC-2DE expander boards can be added)

**NOTE:** Image is shown with AC-CA1 enclosure, ACS-2DR starter kit, AC-2DE expander boards, and Altronix® power supply.

- This streamlined, self-assembly solution simplifies board layout and wiring, reducing installation time
- Selectable 12V DC or 24V DC
- Fire alarm disconnect
- Over voltage protection, low power disconnect
- Relay outputs for supervision

**Power Source** Input: 120V AC, 60Hz  
Output: 12-24V DC, 6A

**Material** Steel

**Operating Temp** 32°~120°F (0°~49°C)

**UL Listing** UL 294/ULC S319-05

**Dimensions** 18" H x 14-1/2" W x 4-9/16" D (knockouts are 1-1/8" or 2" in diameter)



## AC-C

Steel, Vented, and Lockable Wall-Mount Enclosure (Included with ACS-2DR-C, ACS-ELV, and ACS-IO starter kits)

- The AC-C is a steel enclosure designed to hold a master controller, an AC-PS1250 power supply, and up to four expansion boards
- Standoffs are included for board mounting
- Lockable, vented, and includes nine conduit knockouts on the sides and back of the enclosure

**Material** Steel

**UL Listing** UL 294/ULC S319-05

**Dimensions** Enclosure: 19-3/8" H x 13-5/8" W x 3" D

Knockouts: 1-1/8" and 2" Diameter



## AC-2DE

Two-Door Expander Board (Included with ACS-2DR-C and ACS-ELV starter kits)

**Power Source** 12V DC (drawn from main board)

**Lock Power** 12V DC 500mA

**Option Power** 12V DC 500mA

**Contact Rating** 30V DC, 1A

**Dimensions** 3-3/4" H x 3-1/2" W



## AC-IOE

Eight-Port I/O Expander Board (Included with ACS-ELV and ACS-IO starter kits)

**Power Source** 12V DC (drawn from main board)

**Contact Rating** 30V DC, 500mA

**Dimensions** 3-3/4" H x 3-1/2" W



## AC-PS1250

12V DC, 5A Power Supply

**Power Input** 90-264V AC, 50/60Hz

**Power Output** 12V DC, 5A

**UL Listing** UL/ULC 60950-1

**Dimensions** 6-9/16" H x 2-1/8" W x 1-3/8" D



# IP INTERCOMS

Start small or begin big; expand to any size.

AiphoneCloud

*Configure locally or remotely at*  
[aiphone.cloud](http://aiphone.cloud)





# IX | IXG Series IP Video Intercom System

## Entry Stations

### Multi-Tenant Applications



**IXG-DM7-HIDA**  
→ p. 24



**IX-DVF-4A**  
→ p. 26



**IX-DVF-6**  
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**IX-EA**  
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**IX-DVM**  
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**IX-DV**  
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**IX-DVF**  
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**NEW**



**IX-DVF-L**  
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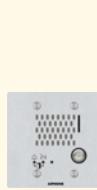
**IX-DVF-HW**  
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**IX-DVF-PR**  
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**IX-DVF-10KP**  
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**IX-SS-2G**  
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**IX-SSA**  
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**IX-NVP**  
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**IX-NVP2**  
→ p. 27

## Box Set



**IXS-HBDV**  
Box Set with IX-DV, IX-MV7-HB, PoE Switch, and USB Drive

- Preprogrammed equipment is ready to install
- PoE switch allows for easy expansion
- USB drive includes back-up programming files and how-to videos for future growth
- More stations can be added to this starter kit

**For emergency stations, wall boxes, towers, and accessories, see p. 18**



- Cloud-based mobile app
- All stations are PoE powered, simplifying installation
- Modern touchscreen entrance station
- Physical guard station with two-way video communication and privacy shutter
- Internal communication with up to eight tenant stations per apartment
- Optional elevator lift control adaptor
- Simple programming and batch configurations with AiphoneCloud
- Can be registered to a compatible IP PBX for enhanced SIP features, like call forwarding and dialing out
- Device supervision allows for scheduled or manual system checks

- IP camera integration makes it easy to toggle between the close-up view of the video door station and the wide view of an IP camera
- Transfer calls between multiple stations based on a schedule or time delay
- PoE passthrough on select stations can power additional device (requires PoE+)
- ONVIF® Profile S
- Integration with leading security platforms, including Genetec®, LenelS2® OnGuard®, and Software House® CCure 9000
- All Call or group paging
- Priority call queueing
- Prerecorded message paging
- Bell scheduling
- Door release contacts available at door stations or IXW-MAA for added security



GET MORE INFORMATION ON THIS SYSTEM



## Physical Answering Stations

### Multi-Tenant Applications



**IXG-MK**  
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**IXG-2C7-L**  
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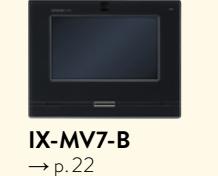
**IXG-2C7**  
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**IX-MV7-HB-L**  
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**IX-MV7-HB**  
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**IX-MV7-B**  
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**IX-RS-B**  
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**IX-MV7-HW-JP**  
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**IX-MV7-W**  
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**IX-RS-W**  
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## Software and Mobile Answering Stations



**NEW**



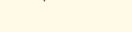
**IX-SOFT**



**IX-SOFT-3**



**IX-SOFT-5**



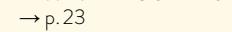
**IX-SOFT-10**



**IXW-MAA-SOFT**



**IXW-MAA-SOFT-5**



**IXW-MAA-SOFT-10**

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**NEW**

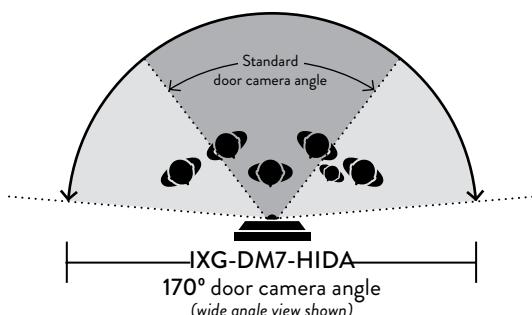
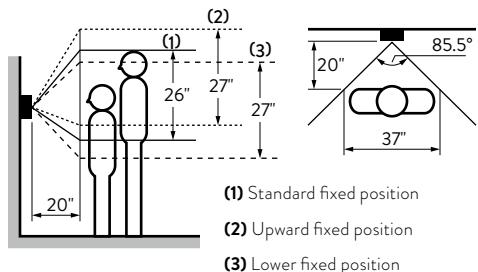


**IXGW-TGW**

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## Camera View Area

### IX Series Stations (not IXG-DM7-HIDA)



## Calling Capacities

The IX|IXG Series has an unlimited station capacity, where an infinite number of door stations, emergency stations, master stations, and sub stations can be part of the same system. However, there is a **calling capacity for each station** (refer to the chart below). Each door station, emergency station, or sub station can call up to 20 door stations, master stations, or sub stations at one time.

Chart illustrates calling capacities for each station.	Master Stations	Door Stations, Emergency Stations, or Sub Stations
	9,999 stations and 20 recent calls	N/A
	1 station <b>OR</b> a group of up to 50 stations	Up to 20 stations
	All stations (All Page) <b>OR</b> groups of up to 50 stations	Receive only



## IX | IXG Series IP Video Intercom (continued)

## Emergency Stations

IX-DVF-2RA  
→ p.27IX-DVF-RA  
→ p.27IX-SSA-2RA  
→ p.27IX-SSA-RA  
→ p.27

Stations are also available with French labels:

IX-DVF-2RA-FR  
→ p.27IX-SSA-2RA-FR  
→ p.27IX-DVF-RA-FR  
→ p.27IX-SSA-RA-FR  
→ p.27

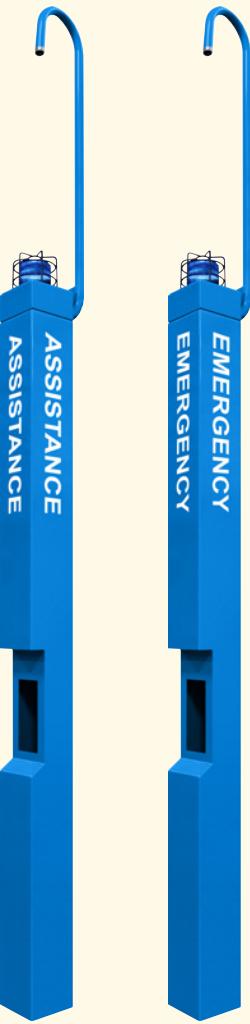
## Wall Boxes, All-in-One Towers, and Solar Tower Sets (optional for housing emergency stations)

WB-CA  
→ p.29WB-CE  
→ p.29WB-HA  
→ p.29WB-HE  
→ p.29

TWS-Z4

TWS-Z2  
(not shown)TWS-Z1  
(not shown)

→ p.28

TW-SA  
→ p.29TW-SE  
→ p.29TW-TA  
→ p.29TW-TE  
→ p.29TW-TA-ARM  
→ p.29TW-TE-ARM  
→ p.29

NEW

TW-TA-SP (not shown)

TW-TE-SP (not shown)

TW-TA-ARM-SP (not shown)

TW-TE-ARM-SP (not shown)

→ p.29

## Accessories



**SBX-2G/A**  
Surface Mount Box for IX-SS-2G  
→ p. 83



**SBX-CON1**  
Conduit Box for IX-EA,  
IX-DV, or IX-DVM  
→ p. 82



**IX-MB**  
Mullion Mounting  
Bracket for IX-DV  
→ p. 84



**SBX-IXDV30**  
30° Angle Box  
for IX-DV  
→ p. 84



**SBX-IDVFRA**  
Surface Mount  
Box for IX-DVF-L,  
IX-DVF-PR,  
IX-DVF-2RA,  
IX-DVF-RA,  
IX-SSA-2RA,  
or IX-SSA-RA  
→ p. 82



**SBX-IDVF**  
Surface Mount  
Box for IX-DVF  
or IX-SSA  
→ p. 82



**IXG-DM7-BOX**  
Flush Mount Back Box  
for IXG-DM7-HIDA  
→ p. 24



**SBX-IXGDM7**  
Surface Mount  
Back Box for  
IXG-DM7-HIDA  
→ p. 83



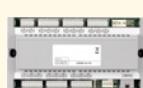
**MCW-S/B**  
Desk Stand for  
IXG-2C7 or  
IXG-2C7-L  
→ p. 85



**IXG-FMK-2C7**  
Flush Mount Kit  
for IXG-2C7 or  
IXG-2C7-L  
→ p. 25



**GT-RY**  
External  
Signaling Relay  
for IXG-2C7  
→ p. 55



**IXGW-LC-RY20**  
Relay Adaptor  
→ p. 25



**IXGW-LC**  
Elevator Lift  
Control Adaptor  
→ p. 25



**IXW-MAA**  
Multi-Purpose  
Adaptor  
→ p. 23



**IPW-1VC**  
2-Wire Network  
Adaptor Kit  
→ p. 80



**IPW-10VC**  
Rack Mount 2-Wire Network Adaptor Kit  
→ p. 80



**IXW-PBXA**  
IP PBX  
→ p. 23



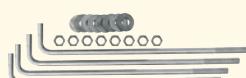
**IPW-POE8**  
8-Port PoE+ Switch  
→ p. 80



**PS-POE**  
PoE Splitter  
→ p. 28



**MB-RF1**  
Retrofit Mounting Bracket for IX-DVF-2RA,  
IX-DVF-RA, IX-SSA-2RA, or IX-SSA-RA  
(adapts emergency station to an existing Code  
Blue® or Talk-A-Phone® tower or wall box)  
→ p. 85



**TW-MKL**  
L-Bolt Mounting Kit for Towers (an  
L-bolt mounting kit is required for tower  
installation-TW-MKL is recommended)  
→ p. 29

# IX | IXG Series

INTEGRATES WITH  
ALL LAYERS OF  
SECURITY

- Access control
- IP cameras
- VMS solutions
- Paging systems
- And more



*Leverages industry  
standards like SIP  
and ONVIF®*

CONNECTS SEAMLESSLY WITH INDUSTRY LEADERS

AVAYA

AVIGILON™

 BOSCH

 CISCO

 DW  
DIGITAL WATCHDOG

Genetec™

 Hanwha  
Techwin America

 i-PRO

 LENEL-S2

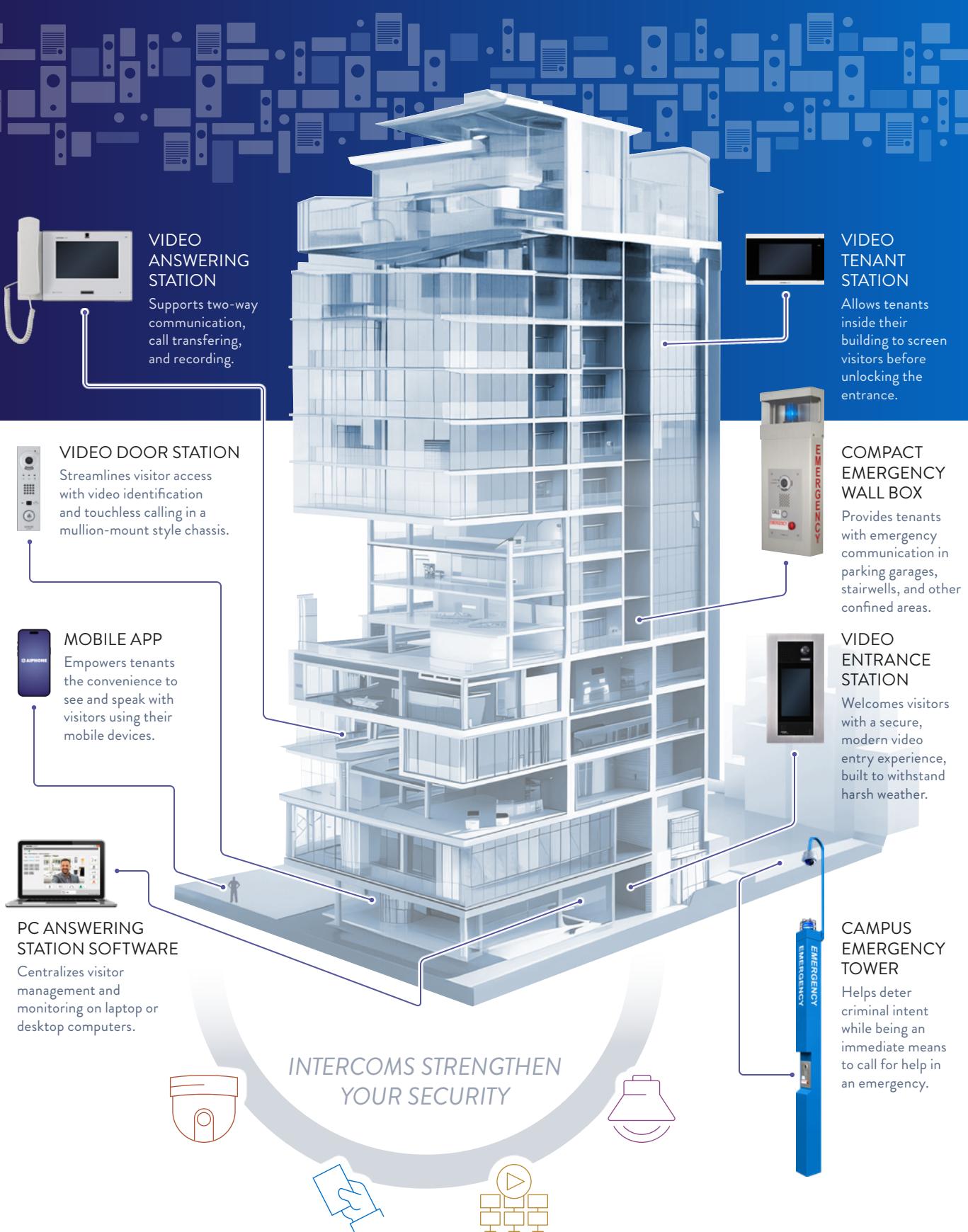
 milestone

 Mitel

 tyco | Software House



*See all our  
Technology  
Partners*



**CREATES A COMPREHENSIVE SECURITY ECOSYSTEM**

# IX | IXG Series Features and Specifications



**IX-MV7-HB-L**  
IP Video Master Station with  
T-Coil Supported Handset



**IX-MV7-HW-JP®**  
TAA-Compliant IP Video  
Master Station with Handset



**IX-MV7-HB®**  
IP Video Master Station with Handset  
(Included with IXS-HBDV box set)



**IX-MV7-B®**  
IP Video Master Station



**IX-MV7-W®**  
IP Video Master Station

- SIP compliant
- Video identification and monitoring with 7" LCD touchscreen
- Eight speed dial buttons
- Camera for two-way video calls, includes privacy shutter
- On-board recording with a microSD™ card (not included)
- Hands-free communication (IX-MV7-HB, IX-MV7-HB-L, and IX-MV7-HW-JP have a handset for privacy)
- Door release
- Brightness control
- Wall or desk mount (stand included)
- Toggle between a close-up view and a CCTV camera view with picture-in-picture

<b>Power Source</b>	PoE (802.3af)
<b>Network Interface</b>	10 BASE-T/100 BASE-TX Ethernet (RJ-45)
<b>Network Protocols</b>	IPv4, IPv6, TCP, UDP, SIP
<b>Bandwidth Usage</b>	Audio (G.722): 64Kbps x 2 for communication, 64Kbps for monitoring Video (H.264): 32Kbps- 2,048Kbps
<b>Video Stream</b>	ONVIF® Profile S
<b>Communication</b>	IX-MV7-HB, IX-MV7-HB-L, IX-MV7-HW-JP; hands-free (full-duplex), push-to-talk (simplex), or handset (full-duplex) IX-MV7-B, IX-MV7-W: hands-free (full-duplex) or push-to-talk (simplex)
<b>Video Display</b>	IX-MV7-HB, IX-MV7-HB-L, IX-MV7-HW-JP, IX-MV7-B, IX-MV7-W: 7" LCD touchscreen
<b>Door Release</b>	IX-MV7-HB, IX-MV7-HB-L, IX-MV7-HW-JP, IX-MV7-B, IX-MV7-W: N/O dry contact, 24V AC/DC, 1A
<b>Mounting</b>	Wall or desk mount (stand included)
<b>Wire Type</b>	Cat-5e or Cat-6
<b>Distance</b>	Master Station to Network Node: 330'
<b>Dimensions</b>	IX-MV7-HB, IX-MV7-HB-L, IX-MV7-HW-JP: 8-1/16" H x 11" W x 2-3/16" D IX-MV7-B, IX-MV7-W: 6-3/4" H x 8-11/16" W x 1-1/4" D



**IX-RS-B®**  
Audio Room  
Sub Station  
with Handset



**IX-RS-W®**  
Audio Room  
Sub Station  
with Handset

- SIP compliant
- Hands-free communication or handset for privacy
- Internal communication with other sub stations
- 8Ω, 2W external speaker output for communication or paging (use 8Ω tap on SP-2570N)
- Illuminated call button indicator
- Communication/call tone volume control switch
- One contact output
- One trigger input

<b>Power Source</b>	PoE (802.3af)
<b>Audio Codec</b>	G.722 (μ-law, A law), G.722
<b>Network Protocols</b>	IPv4, IPv6, TCP, UDP, SIP
<b>Operating Temp</b>	32°~104°F (0°~40°C)
<b>Mounting</b>	Wall mount
<b>Wire Type</b>	Cat-5e or Cat-6
<b>Distance</b>	Master Station to Network Node: 330'
<b>Dimensions</b>	7-9/16" H x 3-9/16" W x 2-5/8" D

# IX | IXG Series Features and Specifications



## IX-SOFT

### IX-SOFT-3

### IX-SOFT-5

### IX-SOFT-10

PC Master  
Station Software  
(bundles include 1, 3,  
5, or 10 USB dongles)

- Place and receive calls and pages
- Monitor door stations
- 50 programmable speed-dial buttons
- Call history
- Call transfer
- Interactive map
- Line Supervision

Video Codec	H.264/AVC, Motion-JPEG
Audio Codec	G.711(µ-law, A-law), G.722
Network Protocols	IPv4, IPv6, TCP, UDP, SIP
Encryption	TLS1.2 (CRAM-MD5 for email)
Packet Delivery	Unicast or multicast
Station Capacity	Up to 499 stations (Up to 9,998 in expanded mode)
Video Streaming	ONVIF® Profile S
Operating System	Windows® 7 Professional, Windows® 7 Enterprise, Windows® 7 Ultimate Windows® 8.1, Windows® 8.1 Pro, Windows® 8.1 Enterprise Windows® 10 Home, Windows® 10 Pro, Windows® 10 Enterprise, Windows® 10 Education Windows® 11 Home, Windows® 11 Pro, Windows® 11 Enterprise
CPU	32 bit (x86) processor or 64 bit (x64) processor, 2GHz or higher
Memory	4 GB or higher
Screen Resolution	1280 x 768 or greater
Runtime	.NET Framework 4.6.2 or later (Windows® 7 requires SP1) Microsoft Visual C++ Redistributable Package for Visual Studio 2017 or later



NEW

## IXW-MAA-SOFT

### IXW-MAA-SOFT-5

### IXW-MAA-SOFT-10

Multi-Purpose Adaptor with  
PC Master Station Software  
(includes 1, 5, or 10 IX-SOFT licenses)

- Supports 1, 5 or 10 IX-SOFT licenses
- Four contact inputs
- Ten Form C relay outputs
- 24V AC/DC 500mA relay contact rating
- Mountable to a 170mm DIN rail or directly to a wall

Power Source	PoE (IEEE 802.3af class 0)
Consumption	4.48W max.
Relay Output	10 Form C relays, 24V AC/DC 500mA
Network Interface	Ethernet (10BASE-T, 100BASE-TX)
Network Protocols	IPv4, IPv6, TCP, UDP
Port Security	IEEE 802.1X
Operating Temp	14°~122°F (-10°~50°C)
Dimensions	4-1/4" H x 8-1/4" W x 2-3/8" D



## IXW-MAA

Multi-Purpose Adaptor for IX Series

- Four contact inputs
- Ten Form C relay outputs
- 24V AC/DC 500mA relay contact rating
- Mountable to a 170mm DIN rail or directly to a wall



## IXW-PBXA

IP PBX for IX Series

- Supports up to 500 registered SIP devices and up to 75 concurrent calls
- Dual Gigabit network ports with integrated PoE+
- Built-in call recording server; recordings accessed via web interface
- Supports H.264, H.263, and H.263+ video codecs

Power Source	12V DC, 1.5A (supplied)
Network Interface	Dual Gigabit with integrated PoE+ (IEEE 802.3at)
Network Protocols	TCP/UDP/IP, RTP/RTCP, ICMP, ARP, DNS, DDNS, DHCP, NTP, TFTP, SSH, HTTP/HTTPS, PPPoE, SIP, STUN, SRTP, TLS, LDAP
Ports	2 FXO, 2 FXS
Encryption	SRTP, TLS, HTTPS, SSH, 802.1X
Operating Temp	32°~104°F (0°~40°C)
Dimensions	1-7/16" H x 10-5/8" W x 6-7/8" D



**IXG-DM7-HIDA**  
IP Video Entrance Station  
with HID® Card Reader

- Built-in HID® reader connects to third-party access control
- LCD directory screen
- Welcome screen can be customized
- Up to 9,999 names/numbers can be stored
- Motion sensor activates the screen
- Hands-free communication
- Rugged IP65 and IK08 ratings
- Modern and simple touchscreen interface
- Programmable inputs and outputs
- On-board recording with a microSD™ card (not included)



**IXG-DM7-BOX**  
Flush Mount Back Box  
for IXG-DM7-HIDA

- Steel construction
- Six conduit knockouts
- Sold separately for pre-installation convenience

<b>Power Source</b>	PoE (IEEE 802.3af Class 0)
<b>Consumption</b>	4.2W standby, 12.7W max.
<b>Video Display</b>	7" TFT LCD touchscreen (800x400 resolution)
<b>Communication</b>	Hands-free (full-duplex)
<b>Camera</b>	720p HD
<b>Audio Codec</b>	G.711(µ-law, A-law)
<b>Video Codec</b>	H.264
<b>Network Protocols</b>	IPv4/v6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP/RTCP, IGMP, MLD, SMTP, SFTP, DHCP, NTP, DNS, TLS
<b>Operating Temp</b>	-22~140°F (-30~60°C)
<b>HID® Reader</b>	High Frequency (13.56MHz): iCLASS, SEOS, iCLASS SR, iCLASS SE, MIFARE Classic, MIFARE DES Fire EV1 Low Frequency (125kHz): HID® Proximity Bluetooth Interface (2.44GHz): mobile phone with compatible bluetooth
<b>Material</b>	Stainless steel
<b>Door Release</b>	Two programmable Form C dry contacts, 24V AC/DC Relay 1: 3A Relay 2: 500mA
<b>Mounting</b>	Flush mount with IXG-DM7-BOX or surface mount with SBX-IXGDM7
<b>Wire Type</b>	Cat-5e or Cat-6
<b>Distance</b>	Entrance Station, Tenant Station, or Guard Station to Network Node: 330'
<b>Dimensions</b>	13-11/16" H x 7-3/16" W <i>Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.</i>

<b>Material</b>	Steel
<b>Dimensions</b>	12-1/2" H x 6-1/8" W x 2-3/8" D



**IXG-MK®**  
IP Video Guard Station

- Two-way video with privacy shutter
- Programmable inputs and outputs
- On-board recording with a microSD™ card (not included)
- Video identification and monitoring
- Hands-free communication with a handset for privacy
- Building and tenant paging
- Door release
- Brightness control
- Built-in camera provides two-way video communication with entrance station or guard station, includes privacy shutter
- Toggle between a close-up view and an IP camera view with picture-in-picture

<b>Power Source</b>	PoE (802.3af)
<b>Network Interface</b>	10 BASE-T/100 BASE-TX Ethernet (RJ-45)
<b>Network Protocols</b>	IPv4, IPv6, TCP, UDP, SIP
<b>Bandwidth Usage</b>	Audio (G.722): 64Kbps x 2 for communication, 64Kbps for monitoring Video (H.264): 32Kbps- 2,048Kbps
<b>Video Stream</b>	ONVIF® Profile S
<b>Communication</b>	Hands-free (full-duplex), push-to-talk (simplex), or handset (full-duplex)
<b>Video Display</b>	7" LCD touchscreen
<b>Door Release</b>	N/O dry contact, 24V AC/DC, 1A
<b>Mounting</b>	Wall or desk mount (stand included)
<b>Wire Type</b>	Cat-5e or Cat-6
<b>Distance</b>	Master Station to Network Node: 330'
<b>Dimensions</b>	8-1/16" H x 11" W x 2-3/16" D

# IX | IXG Series Features and Specifications



**IXG-2C7-L**  
IP Video Tenant Station  
with T-Coil Compatibility



**IXG-2C7®**  
IP Video Tenant Station



**IXG-FMK-2C7**  
Flush Mount Kit for IXG-2C7



**IXGW-TGW**  
AiphoneCloud  
Gateway with  
SIM Card

- Programmable inputs and outputs
- On-board recording with a microSD™ card (not included)
- Internal communication with up to eight stations within apartment/suite
- Hands-free communication
- Can call concierge/guard directly
- Can call elevator to floor
- Video monitoring
- Answers calls from an entrance station, guard station, or individual door station
- Selectively call other IXG-2C7s or IXG-2C7-Ls in the same apartment/suite
- Call all associated mobile apps connected to the same apartment/suite

- Provides ability to flush mount IXG-2C7 or IXG-2C7-L directly into the wall
- Includes mounting hardware

- PoE (IEEE 802.3af class 0)
- DIN rail mountable
- Eight simultaneous calls per adaptor
- Supports up to 9,999 IXG mobile apps
- Optional 4G LTE data connection
- Allows telephone calls from door and entrance stations



- 20 Form C relays, each can be configured and assigned to a specific entrance station, tenant station, or mobile app
- Ensures visitors only have access to the proper guest floor
- Up to 16 adaptors per building
- Compatible with IXG-DM7-HIDA and IXG-2C7
- Wall mount with DIN rail (sold separately)



**IXGW-LC®**  
Elevator Lift  
Control Adaptor



**IXGW-LC-RY20**  
Relay Adaptor

<b>Power Source</b>	PoE
<b>Consumption</b>	1.9W standby, 5.9W max.
<b>Video Display</b>	7" TFT LCD touchscreen (800x400 resolution)
<b>Communication</b>	Hands-free (full-duplex)
<b>Audio Codec</b>	G.711 (μ-law, A-law)
<b>Video Codec</b>	H.264, MJPEG
<b>Network Protocols</b>	IPv4, IPv6, TCP, UDP, SIP
<b>Encryption</b>	TLS1.2
<b>Operating Temp</b>	32°~104°F (0°~40°C)
<b>Material</b>	Stainless steel
<b>Door Release</b>	Two Form C dry contacts, 24V AC/DC, 1A
<b>Mounting</b>	Flush mount with IXG-FMK-2C7 or surface mount to wall
<b>Wire Type</b>	Cat-5e or Cat-6
<b>Distance</b>	Tenant Station to Network Node: 330'
<b>Dimensions</b>	5-13/16" H x 8-15/16" W x 1" D

<b>Mounting</b>	Flush mount
<b>Materials</b>	Panel: self-extinguishing resin Frame and back box: self-extinguishing plastic

<b>Power Source</b>	PoE
<b>Consumption</b>	2.8W standby, 5.8W max
<b>LAN</b>	Ethernet (10BASE-T, 100BASE-TX)
<b>Wireless Network</b>	LTE, WCDMA
<b>Included SIM card</b>	AT&T™ nano SIM
<b>Packet Delivery</b>	Unicast, Multicast
<b>Network Protocols</b>	IPv4/v6, TCP, UDP, SIP, HTTPS, RTP, RTCP, SRTP, SRTCP, IGMP, MLD, SFTP, DHCP, NTP, DNS, MQTT, ICE, DTLS, SDP
<b>Channel</b>	Intercom: 8 Phone: 1
<b>Encryption</b>	TLS1.2
<b>Operating Temp</b>	14°~122°F (-10°~50°C)
<b>Wire Type</b>	Cat-5e or Cat-6
<b>Distance</b>	Adaptor to Network Node: 330'
<b>Dimensions</b>	4-1/4" H x 8-1/4" W x 2-3/8" D Antenna length: 5-9/16"

<b>Power Source</b>	PoE
<b>Consumption</b>	2.1W standby, 4.4W max.
<b>Relay Rating</b>	24V AC/DC, 500mA
<b>LAN</b>	Ethernet (10BASE-T, 100BASE-TX)
<b>Packet Delivery</b>	Unicast, Multicast
<b>Network Protocols</b>	IPv4/v6, TCP, UDP, HTTPS, IGMP, MLD, SFTP, DHCP, NTP, DNS, TLS
<b>Encryption</b>	TLS1.2
<b>Operating Temp</b>	14°~122°F (-10°~50°C)
<b>Distance</b>	Adaptor to Network Node: 330'
<b>Dimensions</b>	4-1/4" H x 8-1/4" W x 2-3/8" D

# IX | IXG Series Features and Specifications

			<ul style="list-style-type: none"> <li>• SIP compliant</li> <li>• On-board recording with a microSD™ card</li> <li>• Camera provides clear video</li> <li>• Weather and vandal resistant (IX-EA, IX-DVF-4A, and IX-DVF-6 are weather resistant only)</li> <li>• Indoor or outdoor use</li> <li>• PoE passthrough can power additional device with IX-DV, IX-DVF, IX-DVF-4A, IX-DVF-6, IX-DVF-HW, IX-DVF-L (requires PoE+)</li> </ul>
<b>IX-EA</b> IP Video Door Station	<b>IX-DVM®</b> Mullion-Mount IP Video Door Station with Built-in Touchless Call Sensor	<b>IX-DV®</b> IP Video Door Station (included with IXS-HBDV box set)	<p><b>Power Source</b> IX-EA, IX-DVM: PoE (802.3af)   <b>Mounting</b> IX-DV, IX-DVF, IX-EA, IX-DVF-HW: surface mount</p> <p>IX-DV, IX-DVF, IX-DVF-4A, IX-DVF-6, IX-DVF-HW: PoE (802.3af), PoE+ (802.3at), or 24V DC—use PS-2420UL</p> <p><b>Communication</b> Hands-free</p> <p><b>Camera</b> IX-EA, IX-DV, IX-DVF, IX-DVF-4A, IX-DVF-6, IX-DVF-PR: 1/3" color CMOS 1.23 megapixel IX-DVM: 0.9 megapixel/720p WDR camera</p> <p>Area View: 2'1" vertical x 3'1" Horizontal at 20"</p> <p><b>Operating Temp</b> IX-EA, IX-DV, IX-DVM, IX-DVF, IX-DVF-4A, IX-DVF-6, IX-DVF-L: -40°~140°F (-40°~60°C) IX-DVF-HW: -4°~131°F (-20°~55°C) IX-DVF-10KP, IX-DVF-PR: -31°~140°F (-35°~60°C)</p> <p><b>Material</b> IX-EA: self-extinguishing ABS resin IX-DV, IX-DVM: aluminum die cast cover IX-DVF, IX-DVF-10KP, IX-DVF-4A, IX-DVF-6, IX-DVF-HW, IX-DVF-L, IX-DVF-PR: stainless steel</p> <p><b>Door Release</b> IX-DVM, IX-EA: Form C dry contact, 24V AC/DC, 1A IX-DV, IX-DVF, IX-DVF-10KP, IX-DVF-4A, IX-DVF-6, IX-DVF-L, IX-DVF-HW, IX-DVF-PR: two Form C dry contacts, 24V AC/DC, 1A</p> <p><b>Dimensions</b> IX-EA: 6-5/16" H x 3-15/16" W x 1-3/4" D IX-DV: 8-1/16" H x 4-1/2" W x 2-1/16" D IX-DVM: 6-7/8" H x 1-7/8" W x 1-5/16" D IX-DVF: 10-7/16" H x 5-7/8" W IX-DVF-L: 11-11/16" H x 7" W IX-DVF-10KP, IX-DVF-4A, IX-DVF-6: 13-11/16" H x 7-3/16" W IX-DVF-HW: 11-11/16" H x 7" W x 3-3/16" D IX-DVF-PR: 11-11/16" H x 7" W x 2-1/16" D</p> <p><b>Wire Type</b> Cat-5e or Cat-6</p> <p><b>Distance</b> Door Station to Network Node: 330' Door Station to Power Supply: 50'</p> <p><b>Card Reader</b> 5-14V DC power input 45mA power draw 125kHz frequency CSA, FCC, CE, C-Tick certifications</p> <p><b>Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.</b></p>
			
<b>IX-DVF-4A</b> IP Video Door Station with Four Call Buttons	<b>IX-DVF-L</b> IP Video Door Station with T-Coil Compatibility (requires PoE and 24V DC)	<b>IX-DVF-6</b> IP Video Door Station with Six Call Buttons	
			<p><b>NEW</b></p> <p><b>IX-DVF-HW</b> IP Video Door Station with Hand Wave Call Sensor and Surface Mount Box (requires PoE+)</p> <p><b>IX-DVF-PR</b> IP Video Door Station with 125 kHz Wiegand Proximity Reader</p> <p><b>IX-DVF-10KP</b> IP Video Door Station with 125 kHz Wiegand Proximity Reader and Access Keypad</p>

# IX | IXG Series Features and Specifications



**IX-SS-2G®**  
IP Audio  
Door Station



**IX-SSA®**  
IP Audio  
Door Station



**IX-NVP**  
IP Audio  
Door Station



**IX-NVP2**  
IP Audio Door  
Station with  
Two Call Buttons

- SIP compliant
- Weather and vandal resistant
- Indoor or outdoor use
- PoE passthrough can power additional device with IX-SSA (requires PoE+)
- On-board recording with a microSD™ card (IX-SSA only)

**Power Source** IX-SS-2G, IX-NVP, IX-NVP2:  
PoE (802.3af)

IX-SSA: PoE (802.3af), PoE+ (802.3at)  
or 24V DC—use PS-2420UL

**Communication** Hands-free

**Operating Temp** -40°~140°F (-40°~60°C)

**Material** IX-SS-2G, IX-SSA: stainless steel

IX-NVP, IX-NVP2: powder-coated steel

**Door Release** IX-SSA: two Form C dry contacts, 24V AC/DC, 1A

IX-SS-2G, IX-NVP, IX-NVP2: Form C dry contact, 24V AC/DC, 1A

**Mounting** IX-SS-2G: flush mount with 2-gang box or surface mount with SBX-2G/A

IX-SSA: flush mount with included back box or surface mount with SBX-IDVF

IX-NVP, IX-NVP2: flush mount with 3-gang back box or surface mount with SBX-NVP/A

**Wire Type** Cat-5e or Cat-6

**Distance** Door Station to Network Node: 330'  
| Door Station to Power Supply: 50'

**Dimensions** IX-SS-2G: 4-3/4" H x 4-3/4" W

IX-SSA: 10-7/16" H x 5-7/8" W

IX-NVP, IX-NVP2: 5-1/2" H x 7-1/2" W

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



**IX-DVF-2RA®**  
ADA Compliant IP  
Video Emergency  
Station with Two  
Call Buttons



**IX-DVF-RA®**  
ADA Compliant IP Video  
Emergency  
Station

- Passthrough can power additional device (requires PoE+)
- SIP compliant
- On-board recording with a microSD™ card
- Lettering and braille signage
- LED call status indicator
- Two Form C relay outputs
- Weather and vandal resistant
- Fixed camera provides clear video (IX-DVF-2RA, IX-DVF-RA)
- Indoor or outdoor use
- Tamper resistant screws
- Can be mounted into emergency wall boxes or towers

**Power Source** PoE (802.3af) or 24V DC—use PS-2420UL

**Communication** Hands-free

**Camera** Type: 1/3" color CMOS 1.2 megapixel  
Area View: 2'1" vertical x 3'1" Horizontal at 20"

**Operating Temp** -40°~140°F (-40°~60°C)

**Material** Stainless steel

**Door Release** Two Form C dry contacts, 24V AC/DC, 1A

**Mounting** Flush mount with included back box or surface mount with SBX-IDVFRA

**Wire Type** Cat-5e or Cat-6

**Distance** Emergency Station to Network Node: 330'  
Door Station to Power Supply: 50'

**Dimensions** 11-11/16" H x 7" W

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



**IX-SSA-2RA®**  
ADA Compliant IP  
Audio Emergency  
Station with Two  
Call Buttons



**IX-SSA-RA®**  
ADA Compliant IP Audio  
Emergency  
Station

Stations are also available with French labels:

**IX-DVF-2RA-FR®**

**IX-DVF-RA-FR®**

**IX-SSA-2RA-FR**

**IX-SSA-RA-FR**

# IX | IXG Series Features and Specifications



TWS-Z4

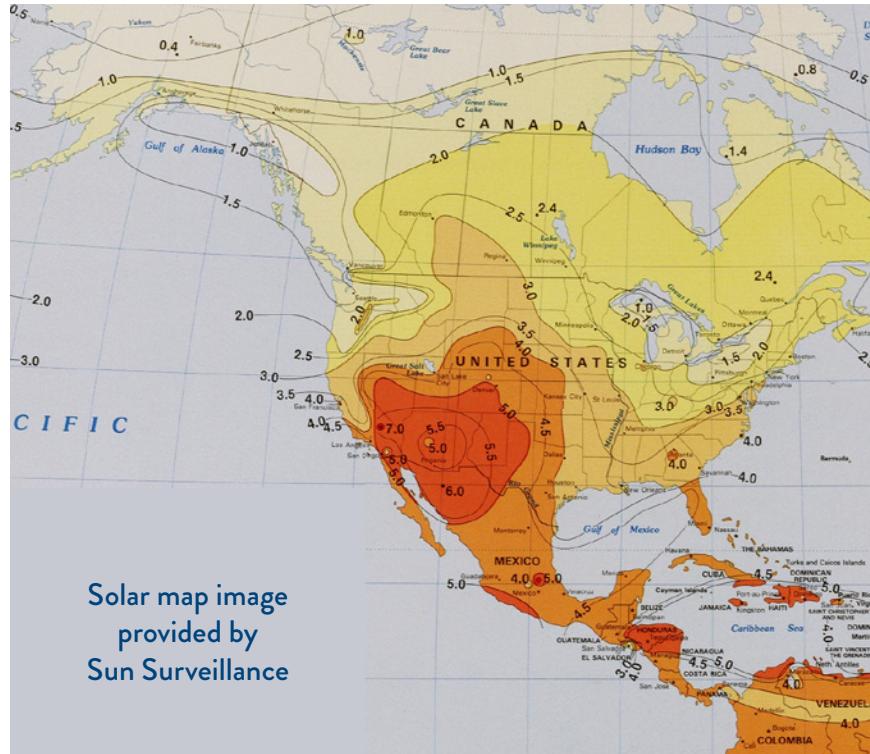
## Zone 4 Solar Tower Set (includes one solar panel)

**TWS-Z2** (not shown)

## Zone 2 Solar Tower Set (includes two solar panels)

**TWS-Z1** (not shown)

## Zone 1 Solar Tower Set (includes three solar panels)



Solar map image  
provided by  
Sun Surveillance



## PS-POE PoE Splitter

- Powers beacon, eliminating the need for a separate power supply
- Avoid added wire—only one cable is needed from the PoE+ switch when wired with an IX Series emergency station
- Mounts directly to the back of an IX Series emergency call station or 1-gang box
- Can withstand temperatures ranging from -40 to 140° F

Power Source	24V DC supplied from batteries
Solar Panel	160W 12V
Wireless	Ubiquiti Loco5AC 5GHz, 450+Mbps (requires line of sight for connectivity)
Battery Bank	12V DC 220AH
Operating Temp	-40°~140°F (-40°~60°C)
Material	Aluminum tower with 5052 aircraft grade aluminum electrical enclosure
Dimensions	Tower: 11'H x 6"W Solar Panel: 26-1/2"H x 58-1/3"W x 1-3/8"D

## UL LISTED Electrical Box



**WB-CA** (cage)  
**WB-HA** (hood)  
ADA Compliant Wall Box with ASSISTANCE Lettering

**WB-CE** (cage)  
**WB-HE** (hood)  
ADA Compliant Wall Box with EMERGENCY Lettering

- Includes UL Listed electrical box
- Made of 12-gauge stainless steel
- Beacon is always lit and strobos during emergency call-in
- Compatible with IX Series emergency stations
- ASSISTANCE or EMERGENCY lettering on two sides
- 4" Depth and proper signage meet ADA requirements
- Interior bracket (right side) has 1-gang mounting pattern
- Built-in accessory mounting hardware with internal threads (female: M3 x .05, 1-gang spacing pattern)

<b>Voltage</b>	24V DC
<b>Current</b>	200mA
<b>Wiring</b>	Black: Ground Red: +24V DC White: Trigger
<b>Operating Temp</b>	-40°F~149°F
<b>Material</b>	12-gauge stainless steel
<b>Mounting</b>	Surface mount directly to wall
<b>Mounting Height</b>	48" AFF for camera to be at 60" 44" AFF for call button to be at 48"
<b>Dimensions</b>	WB-CA, WB-CE: 26" H x 10-9/16" W x 3-7/8" WB-HA, WB-HE: 27" H x 10-13/16" W x 4" D

**NOTE:** Power required for the beacon—use PS-POE splitter to draw power from PoE+ network switch.

## UL LISTED Electrical Box



**TW-SA, TW-SE**  
Short Tower with ASSISTANCE or EMERGENCY Lettering

**TW-TA, TW-TE**  
Tower with ASSISTANCE or EMERGENCY Lettering

**TW-TA-ARM, TW-TE-ARM**  
Tower with Camera Arm and ASSISTANCE or EMERGENCY Lettering

- Includes UL Listed electrical box
- Constructed with lightweight, durable aluminum
- Large access panel at the rear base of the tower
- ASSISTANCE or EMERGENCY lettering on three sides
- Beacon is always lit and strobos during emergency call-in (requires 24V DC)
- LED illumination above call station (requires 24V DC)
- Call button mounting height and signage meet ADA regulations

<b>Material</b>	Aluminum 6061-T6
<b>Dimensions</b>	TW-SA, TW-SE: 73" H x 8" W x 8" D TW-TA, TW-TE: 112" H x 8" W x 8" D TW-SA-ARM, TW-SE-ARM: 174" H x 8" W x 15-3/4" D
<b>Weight</b>	TW-SA, TW-SE: 43 lbs TW-TA, TW-TE: 68 lbs TW-TA-ARM, TW-TE-ARM: 80 lbs

NEW

**TW-TA-SP, TW-TE-SP** (not shown)  
Tower with Speaker and ASSISTANCE or EMERGENCY Lettering

NEW

**TW-TA-ARM-SP, TW-TE-ARM-SP** (not shown)  
Tower with Camera Arm, Speaker, and ASSISTANCE or EMERGENCY Lettering



**TW-MKL**

L-Bolt Mounting Kit for Towers

**Contents** 4 L-bolts, 4 nuts, 4 washers  
**Dimensions** 24" long, 3/4" diameter



# ANALOG VIDEO INTERCOMS

Greet visitors with timeless style.



DOOR  
4 x 8  
MSTR/SUB

# JP Series Video Intercom w/ Call Partitioning

**Box Sets:** select 1 (up to 3 door stations and 7 sub master stations can be added)**START with a  
BOX SET****JPS-4AED**

Box Set with JP-DA, JP-4MED, and PS-2420UL

**JPS-4AEDV**

Box Set with JP-DV, JP-4MED, and PS-2420UL

**JPS-4AEDF**

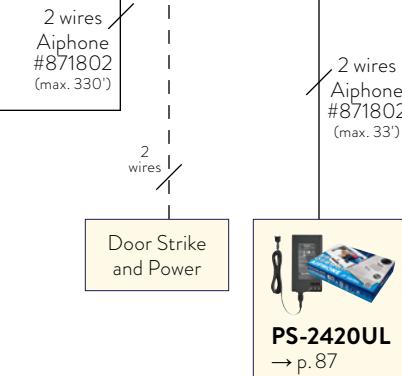
Box Set with JP-DVF, JP-4MED, and PS-2420UL

**Door Stations: mix and match up to 4 (only up to 3 if a box set is selected)****JP-DA**  
→ p.35**JP-DV**  
→ p.35**JP-DVF**  
→ p.35**JP-DVF-PR**  
→ p.35**GT-D**  
→ p.35**Master Station****JP-4MED**

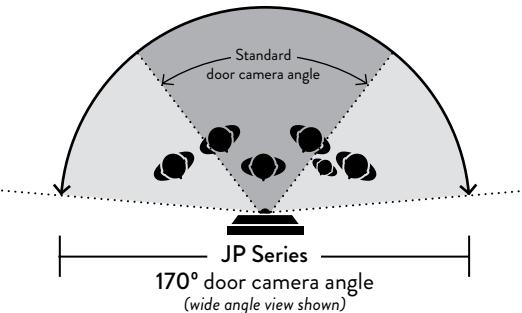
→ p.34

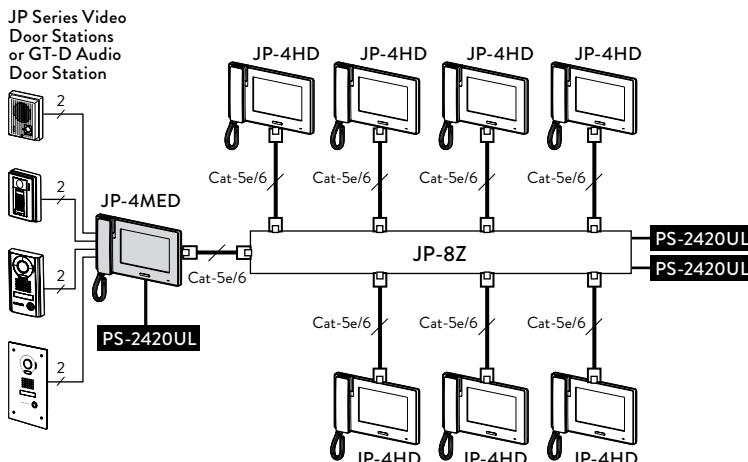
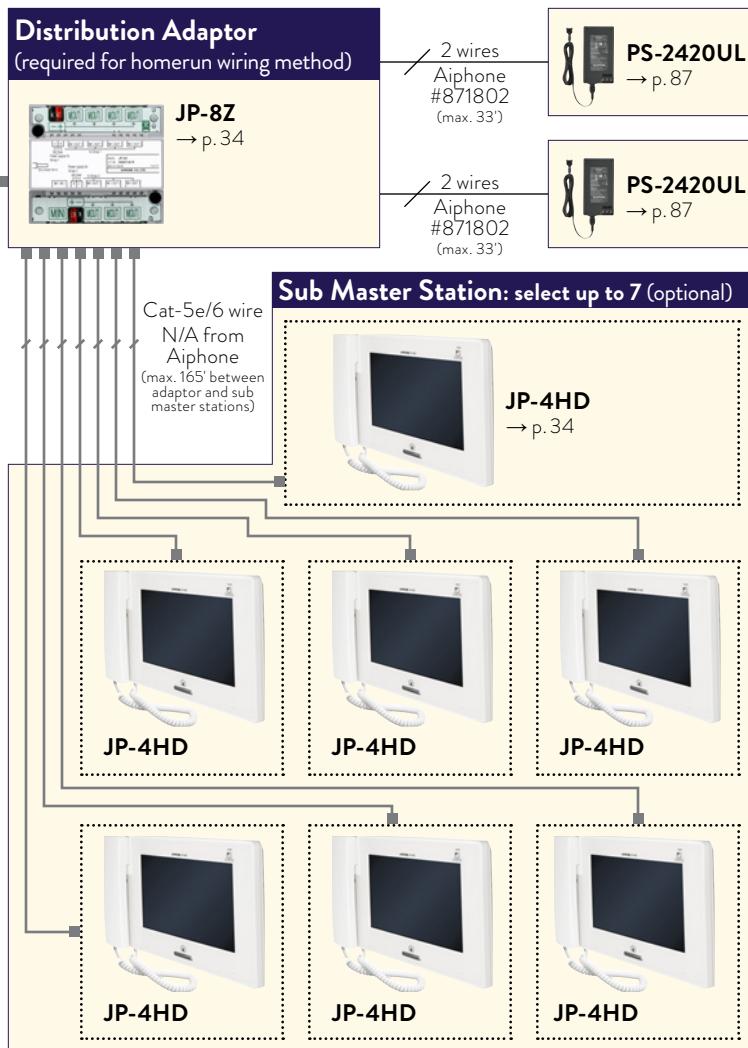
**Removable media storage**

SD or SDHC card can store up to 1,000 calls (card not included)

**PS-2420UL**  
→ p.87Cat-5e/6 wire  
N/A from Aiphone  
(max. 650' between master station and adaptor)

- Camera position and zoom can be set for call-in
- Camera can be adjusted to compensate for bright illumination
- Picture memory records up to 20 calls to internal memory and a maximum of 1,000 calls to removable SD/SDHC card (not included)
- Entry can be monitored via the master station and sub master stations
- One output to control a secondary device like a light, gate, or additional door
- Analog video output via supplied connector
- Homerun or daisy chain wiring options (see installation manual for details)
- Convenient 1x1 box sets are complete with a master station, door station, and power supply
- Up to three more door stations and seven sub master stations can be added for a full 4x8 system

**Camera View Area**GET MORE  
INFORMATION  
ON THIS SYSTEM

**NOTES:**

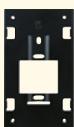
1. Total cumulative wiring distance between master and sub master stations is 980' (300m)
2. Master station (JP-4MED) requires one power supply
3. Up to four sub master stations (JP-4HD) can use one power supply (use two power supplies for additional sub master stations)

**Accessories****SBX-CON1**

Conduit Box for GT-D, JP-DA, or JP-DV  
→ p.84

**KAW-D**

30° Angle Box for JP-DA  
→ p.84

**MKW-P**

1-Gang Mounting Plate for JP-DV  
→ p.85

**KMB-45**

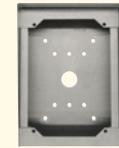
45° Mullion Mounting Bracket for GT-D or JP-DA  
→ p.84

**JK-MB**

Mullion Mounting Bracket for JP-DV  
→ p.84

**SBX-DV30**

30° Angle Box for JP-DV  
→ p.84

**SBX-DVF**

Surface Mount Box for GT-D or JP-DA and one Access Control Device  
→ p.82

**SBX-ACE**

Surface Mount Box for GT-D or JP-DA and one Access Control Device  
→ p.82

**JPW-BA**

Long Distance/ CCTV Adaptor for Door Stations  
→ p.34

**EL-12S**

Electric Door Strike for Wood Frames (requires PT-1210NA)  
→ p.81

**RY-1824L**

Form C Door Release Relay (one per door-up to two per system)  
→ p.81

**RY-3DL**

Selective Door Release Adaptor (for three or four doors-four doors require one RY-3DL and one RY-1824L)  
→ p.81

**IER-2**

Call Extension Speaker  
→ p.81

**RY-ES**

External Signaling Relay  
→ p.81

**MCW-S/B**

Desk Stand for JP-4MED or JP-4HD  
→ p.85



**JP-4MED**  
Video Master Station  
with Handset (included  
with all JPS box sets)

- Video identification and monitoring with 7" touchscreen
- Hands-free communication with handset for privacy
- Door release button
- Optional service button
- PTZ and brightness control
- Eight selectable call tones
- Station partitioning with security code
- All Call to inside stations
- Door monitoring
- Continuous room monitoring



**JP-4HD**  
Video Sub  
Master Station  
with Handset

- Camera position and zoom can be set for call-in
- Video out via supplied connector
- Picture Memory
- Security inputs for alerting stations
- Removable media storage (memory card not included)



**JPW-BA**  
Long Distance/CCTV  
Adaptor for Door Stations

- Extends wiring distance from door stations to master stations up to 980' max.
- Allows for analog camera integration



**JP-8Z**  
Distribution Adaptor for Video Sub Master Stations (only required for homerun wiring methods)

- Allows for homerun wiring method

Power Source	24V DC—use PS-2420UL
Consumption	Max. 340mA
Communication	Hands-free (VOX) or handset (full-duplex)
Video Display	7" LCD touchscreen
Picture Memory	Internal/Built-In: record max. 20 calls (6 images per call) with up to 5 calls protected from overwriting SD/SDHC card: record max. 1,000 calls (40 images per call) with up to 100 calls protected from overwriting
Door Release	Two N/O or N/C dry contacts, 24V AC/DC, 500mA (use RY-1824L or RY-3DL for larger contact rating)
Mounting	Surface mount directly to wall or 1-gang box or desk mount using MCW-S/B
Wire Type	Door Station to Master Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802 Power Supply to Master Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802 Master Station to Adaptor: Cat-5e or Cat-6 Adaptor to Sub Master Station: Cat-5e or Cat-6
Distance	Door Station to Master Station: 165'(22AWG) 330'(18AWG) Master Station to Distribution Adaptor: 650' Distribution Adaptor to Sub Master Station: 165' Long Distance/CCTV Adaptor to Master Station: 330'(18AWG) Total Cumulative Between Inside Stations: 980' Power Supply to Master Station: 16'(22AWG) 33'(18AWG) Power Supply to Distribution Adaptor: 16'(22AWG) 33'(18AWG)
Dimensions	5-11/16" H x 10-1/16" W x 1-7/8" D

Power Source	24V DC—use PS-2420UL
Capacity	One adaptor unit for each video door/ sub master station located beyond the standard specified wire distance
Mounting	DIN rail (included)
Wire Type	2-cond., low cap, PE, solid, non-shielded—use Aiphone #871802
Distance	JPW-BA to Door Station: 650' JPW-BA to Master Station: 330'
Dimensions	4-5/16" H x 4-13/16" W x 2-3/8" D

Power Source	24V DC—use PS-2420UL
Capacity	Up to seven video sub master stations
Mounting	DIN rail (included)
Wire Type	Cat-5e
Distance	JP-8Z to Master Station: 650' JP-8Z to Sub Master Station: 165'
Dimensions	4-5/16" H x 4-13/16" W x 2-3/8" D

# JP Series Features and Specifications



**JP-DA**  
Video Door Station  
(included with JPS-4AED box set)



**JP-DV**  
Video Door Station  
(included with JPS-4AEDV box set)



**JP-DVF-PR**  
Video Door Station (included with JPS-4AEDF box set)

- Digital PTZ camera provides clear video
- LED illumination automatically turns on in low light conditions
- Weather resistant
- JP-DA, JP-DV, JP-DVF, and JP-DVF-PR are vandal resistant
- JP-DA has an LED backlit call button
- JP-DV, JP-DVF, and JP-DVF-PR have an LED backlit nameplate
- JP-DVF-PR has built-in 125 kHz Wiegand proximity reader designed for single-gang and mullion mounting

Power Source	Supplied by Master Station
Communication	Hands-free
Camera	Type: 1/4" CMOS View Area: 100° vertical x 170° horizontal
Operating Temp	JP-DA, JP-DV, JP-DVF: -14°~140°F (-10°~60°C) JP-DVF-PR: -4°~140°F (-10°~60°C)
Material	JP-DA: fire resistant PC + ABS plastic JP-DV: zinc die cast JP-DVF, JP-DVF-PR: stainless steel
Mounting	JP-DA: surface mount directly to wall or 1-gang box JP-DV: surface mount directly to wall JP-DVF: flush mount with included back box or surface mount with SBX-DVF JP-DVF-PR: flush mount with included back box or surface mount with SBX-IDVFRA
Wire Type	Door Station to Master Station: 2-cond., low cap, non-shielded—use Aiphone #871802
Distance	Door Station to Master Station: 330' Door Station to Long Distance/ CCTV Adaptor: 650'
JP-DVF-PR	5-14V DC power input Card Reader: 45mA power draw 125kHz frequency CSA, FCC, CE, C-Tick certifications
Dimensions	JP-DA: 5-1/16" H x 3-13/16" W x 1-3/16" D JP-DV: 6-13/16" H x 3-7/8" W x 1" D JP-DVF: 8-1/4" H x 5-5/16" W JP-DVF-PR: 11-11/16" H x 7" W x 2-1/16" D

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



**GT-D**  
Audio Tenant  
Door Station

- Audio only door station option
- Hands-free communication
- Weather resistant

Power Source	Supplied by JP-4MED
Communication	Hands-free (VOX)
Operating Temp	14°~140°F (-10°~60°C)
Material	Plastic
Mounting	Surface mount
Wire Type	2-cond., low cap, PE, solid, non-shielded—use Aiphone #871802
Dimensions	5-1/8" H x 3-7/8" W x 1-1/8" D

DOOR 2 x 2 x 8 MSTR/EXP APP

# JO Series Video Intercom with Mobile App

**Box Sets:** select 1 (a JO-DV and a JO-1FD can be added to any box set-up to 8 apps can be added to the app-compatible sets)

**JOS-1AW**

Box Set with JO-DA, JO-1MDW, and PS-1820UL

**JOS-1VW**

Box Set with JO-DV, JO-1MDW, and PS-1820UL

**JOS-1FW**

Box Set with JO-DVF, JO-1MDW, and PS-1820UL

**START with a  
BOX SET**

- Compact, attractive design complements most interiors
- Video monitoring
- One output to control a secondary device like a light or gate
- Up to eight mobile apps can be connected (requires JO-1MDW and 2.4Ghz WiFi connection)
- Simple daisy chain wiring
- Convenient 1x1 box sets are complete with a master station, door station, and power supply
- One expansion master station and a second door station can be added for a 2x2 system

**Door Stations:** select a box set and a single JO-DV for the second door station option



**JO-DA**  
→ p.39



**JO-DV**  
→ p.39



**JO-DVF**  
→ p.39

**Two-Door Station Adaptor**

(required for 2 door stations)



**JOW-2D**  
→ p.39

**NOTE:** Use JO-DV for the second door station, which is sold separately.

2 wires

Door Strike and Power

2 wires

from each station/adaptor

Aiphone  
#871802

2 wires

Door Strike and Power

6 wires

Aiphone  
#871804 +  
871802  
(max. 330' from door station to inside station)

**Expansion Station (optional)**

**PS-1820UL**  
→ p.87

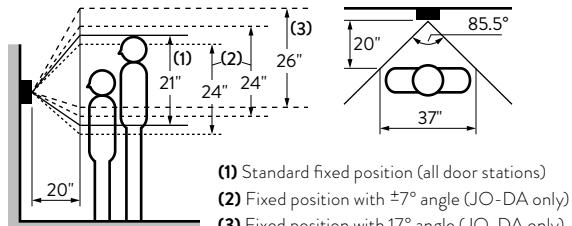
2 wires  
Aiphone  
#871802  
(max. 33')

**JO-1FD**

→ p.38

**WIRING NOTICE:**

When the optional JO-1FD is part of the system, it must be wired in between the door station and master station (as shown in the wiring example with JO-1FD).

**Camera View Area**

GET MORE  
INFORMATION  
ON THIS SYSTEM



**Master Station: select 1 (none if a box set is selected)**

**JO-1MDW**  
→ p.38

**WIRING NOTICE:**

When the optional JO-1FD is not part of the system, the door station, power supply, and door strike all wire directly to the JO-1MDW (as shown in the wiring example without JO-1FD).

4 wires  
Aiphone  
#871804  
(max. 330')  
  
2 wires\*  
Aiphone  
#871802  
(max. 330')  
  
\*Two additional  
wires are  
required for  
door release

**Mobile App**

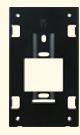
**Intercom App Type B**  
→ p.38

**Accessories**

**SBX-CON1**  
Conduit Box for  
JO-DA or JO-DV  
→ p.82



**KAW-D**  
30° Angle Box  
for JO-DA  
→ p.84



**MKW-P**  
1-Gang  
Mounting Plate  
for JO-DV  
→ p.85



**KMB-45**  
45° Mullion  
Mounting  
Bracket for  
JO-DA  
→ p.84



**SBX-DVF**  
Surface  
Mount Box  
for JO-DVF  
→ p.82



**SBX-ACE**  
Surface Mount  
Box for JO-DA  
and one Access  
Control Device  
→ p.82



**EL-12S**  
Electric Door Strike  
for Wood Frames  
(requires PT-1210NA)  
→ p.81



**RY-1824L**  
Form C Door Release Relay  
→ p.81



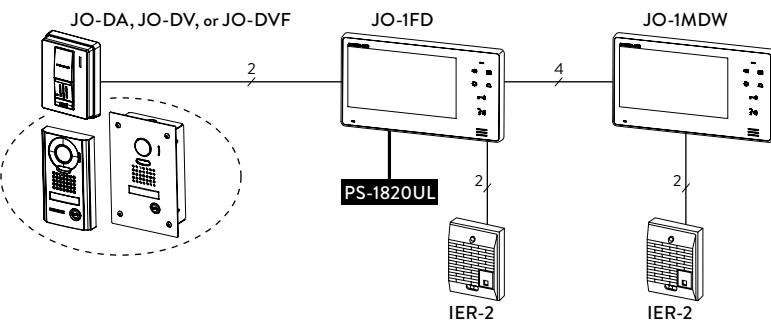
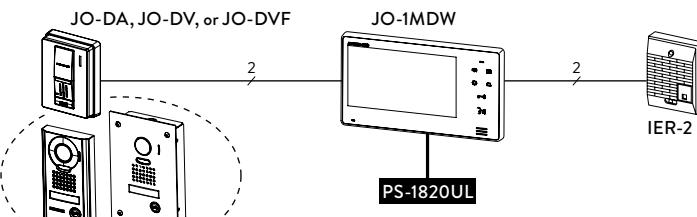
**IER-2**  
Call Extension  
Speaker  
→ p.81



**RY-ES**  
External  
Signaling  
Relay  
→ p.81



**MCW-S/B**  
Desk Stand  
for JO-1MDW  
or JO-1FD  
→ p.85

**Example WITH JO-1FD****Example WITHOUT JO-1FD**

NOTE: The IER-2 is optional.

# JO Series Features and Specifications



## JO-1MDW

App-Compatible Video Master Station (included with JOS-1AW, JOS-1VW, and JOS-1FW box sets—also sold separately)

- Video identification and monitoring
- Slim design
- Hands-free communication or push-to-talk
- JO-1MDW allows up to eight free mobile apps

**Power Source** 18V DC—use PS-1820UL

**Communication** Hands-free (VOX) or push-to-talk (simplex)

**Video Display** JO-1MDW: 7" LCD touchscreen

JO-1FD: 7" LCD screen

**Picture Memory** Internal/Built-In: record up to ten calls (ten seconds per call) with up to five calls protected from overwriting

SD/SDHC card: record up to 1,000 calls (10 seconds per call) with up to 100 calls protected from overwriting

**Door Release** JO-1MDW: N/O dry contact, 24V AC/DC, 1A

JO-1FD: N/O dry contact, 24V AC/DC, 500mA (use RY-1824L for larger contact rating)

**Network Interface** WiFi

**Wireless Frequency** 2.4GHz

**Wireless Protocols** 802.11b/g/n

**Mounting** Surface mount directly to wall or desk mount using MCW-S/B

**Wire Type** Door Station to Master Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802

Door Station to Expansion Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802

Expansion Station to Master Station: 4-cond., mid cap, solid, non-shielded—use Aiphone #871804

Expansion Station to Master Station with door release: 6-cond., mid cap, solid, non-shielded—use Aiphone #871804 + #871802

**Distance** Door Station to Master Station: 165'(22AWG) 330'(18AWG)

Door Station to Expansion Station: 165'(22AWG) 330'(18AWG)

Expansion Station to Master Station: 165'(22AWG) 330'(18AWG)

**Power Supply to Master Station:** 16'(22AWG) 33'(18AWG)

**Dimensions** JO-1MDW: 6-1/8" H x 8-1/4" W x 1-1/16" D

JO-1FD: 5-1/8" H x 9-1/16" W x 13/16" D



## JO-1FD

Video Expansion Station



## Intercom App Type B

JO Series Mobile App (requires JO-1MDW and 2.4GHz WiFi connection)

- Calls can be answered and doors can be unlocked from virtually anywhere
- Up to eight free mobile apps can be downloaded per system
- Provides ability to activate the video door station camera to monitor entry from a remote location
- Recorded calls can be viewed directly from a smartphone or tablet
- In-app door release slider prevents accidental unlocking
- Hands-free or push-to-talk communication
- Works with a variety of smartphones and tablets
- Available on Google Play™ (Google Play is a trademark of Google LLC.)
- Available on the App Store™ (App Store is a service mark of Apple Inc.)

**Capacity** Up to eight mobile apps per JO Series system

**Door Release** In-app slider activates dry contacts on JO-1MDW

**Requirements** One JO-1MDW

**Network Protocols** IPv4, TCP, UDP, SIP, RTP, RTCP, IGMP, DHCP

**Bandwidth Usage** 1.3MBs upload and download minimum

**Operating System** Android™

Apple® iOS

**Communication** Hands-free (VOX), push-to-talk (simplex)

# JO Series Features and Specifications



**JO-2D**  
Two-Door Station Adaptor

- Allows a second door station to be connected to any JO Series system
- Can be added to existing systems for upgrade opportunities
- Selective door release is routed to the door station where communication is established

**Power Source** 18V DC (supplied by JO Series master station)

**Consumption** 18mA standby, 100mA max.

**Relay Outputs** JO-1MDW: 24V DC, 1A

JO-1FD: 24V DC, 500mA

**Operating Temp** 32°~104°F (0°~40°C)

**Dimensions** 4-1/4" H x 4-13/16" W x 2-3/8" D



**JO-DA**  
Video Door Station  
(included with JOS-1AW  
box set—not sold separately)

- Fixed camera provides clear video
- LED illumination automatically turns on in low light conditions
- Weather resistant
- JO-DA has LED backlit call button
- JO-DV and JO-DVF have an LED backlit nameplate
- JO-DV and JO-DVF are vandal resistant
- JO-DV is compatible with GT-MKB-N video guard station

**Power Source** Supplied by Master Station or Expansion Station

**Communication** Hands-free

**Camera** Type: 1/4" CMOS

View Area: 2'1" vertical x 3'1" Horizontal at 20"

**Operating Temp** -4°~140°F (-20°~60°C)

**Material** JO-DA: fire resistant PC + ABS plastic

JO-DV: zinc die cast

JO-DVF: stainless steel

**Mounting** JO-DA: surface mount directly to wall or 1-gang box

JO-DV: surface mount directly to wall

JO-DVF: flush mount with included back box or surface mount with SBX-DVF

**Wire Type** Door Station to Master Station or Expansion Station: 2-cond., low cap, non-shielded—use Aiphone #871802

**Distance** Door Station to Master Station or Expansion Station: 330'(18 AWG)

**Dimensions** JO-DA: 5-1/16" H x 3-13/16" W x 1-3/8" D

JO-DV: 6-13/16" H x 3-7/8" W x 1-1/16" D

JO-DVF: 8-1/4" H x 5-5/16" W

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



**JO-DV**  
Video Door Station  
(included with JOS-1VW  
box set—also sold separately)



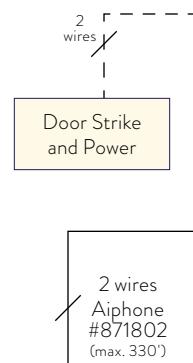
**JO-DVF**  
Video Door Station  
(included with JOS-1FW  
box set—not sold separately)

DOOR  
1 x 2**JV Series** Video Intercom**Box Sets: select 1**

(a JV-1FD can be added to any box set)

**START with a  
BOX SET****JVS-1V**  
Box Set with JV-DV,  
JV-1MD, and PS-2420UL**JVS-1F**  
Box Set with JV-DVF,  
JV-1MD, and PS-2420UL**Master Station: select a box set****JV-1MD****WIRING NOTICE:**

When the optional JV-1FD is not part of the system, the door station, power supply, and door strike all wire directly to the JV-1MD.

4 wires  
Aiphone #871804  
(max. 330')2 wires  
Aiphone #871802  
(max. 33')PS-2420UL  
→ p.87**Door Stations: select a box set****JV-DV****JV-DVF****Expansion Station (optional)****JV-1FD****WIRING NOTICE:**

When the optional JV-1FD is part of the system, it must be wired in between the door station and master station.

**Accessories****SBX-CON1**  
Conduit Box  
for JV-DV  
→ p.82**MKW-P**  
1-Gang Mounting  
Plate for JV-DV  
→ p.85**JK-MB**  
Mullion Mounting  
Bracket for JV-DV  
→ p.84**SBX-DV30**  
30° Angle  
Box for  
JV-DV  
→ p.84**SBX-DVF**  
Surface Mount  
Box for JV-DVF  
→ p.82**IER-2**  
Call Extension  
Speaker  
→ p.81**EL-12S**  
Electric Door Strike  
for Wood Frames  
(requires PT-1210NA)  
→ p.81**RY-1824L**  
Form C Door  
Release Relay  
→ p.81**RY-ES**  
External  
Signaling Relay  
→ p.81**MCW-S/B**  
Desk Stand for  
JV-1MD or JV-1FD  
→ p.85GET MORE  
INFORMATION  
ON THIS SYSTEM

# JV Series Features and Specifications



**JV-1MD**  
Video Master Station  
(Included with JVS-1A  
and JVS-1F box sets—  
not sold separately)

- Video identification and monitoring
- Slim design
- Hands-free communication or push-to-talk
- One output to control a secondary device like a light or gate
- Simple daisy chain wiring



**JV-1FD**  
Video Expansion Station

Power Source	24V DC—use PS-2420UL
Communication	Hands-free (VOX) or push-to-talk (simplex)
Video Display	7" LCD screen
Picture Memory	Internal/Built-In: record ten calls max. (ten seconds per call) with up to five calls protected from overwriting SD/SDHC card: record max. 1,000 calls (10 seconds per call) with up to 100 calls protected from overwriting
Door Release	N/O dry contact, 24V AC/ DC, 1A
Mounting	Surface mount directly to wall or desk mount using MCW-S/B
Wire Type	Door Station to Master Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802 Door Station to Expansion Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802 Expansion Station to Master Station: 4-cond., mid cap, solid, non-shielded—use Aiphone #871804 Expansion Station to Master Station with door release: 6-cond., mid cap, solid, non-shielded—use Aiphone #871804 + #871802
Distance	Door Station to Master Station: 165'(22AWG) 330'(18AWG) Door Station to Expansion Station: 165'(22AWG) 330'(18AWG) Expansion Station to Master Station: 165'(22AWG) 330'(18AWG) Power Supply to Master Station: 16'(22AWG) 33'(18AWG)
Dimensions	5-1/8" H x 9-1/16" W x 13/16" D



**JV-DV**  
Video Door Station  
(Included with JVS-1V box  
set—not sold separately)

- Fixed camera provides clear video
- LED illumination automatically turns on in low light conditions
- Weather and vandal resistant
- Backlit call button
- LED backlit nameplate

Power Source	Supplied by Master Station or Expansion Station
Communication	Hands-free
Camera	Type: 1/4" CMOS View Area: 2'1" vertical x 3'1" Horizontal at 20"
Door Release	Door Station Output: N/O dry contact, 24V AC/ DC, 1A Second Door Station Output: N/O wet contact, 500mA or less, 12V DC
Door Station Input	request to exit, N/O dry contact
Operating Temp	-4°~140°F (-20°~60°C)
Material	JV-DV: aluminum die cast JV-DVF: stainless steel
Mounting	JV-DV: surface mount directly to wall JV-DVF: flush mount with included back box or surface mount with SBX-DVF
Wire Type	Door Station to Master Station or Expansion Station: 2-cond., low cap, non-shielded—use Aiphone #871802
Distance	Door Station to Master Station or Expansion Station: 330'(18AWG)
Dimensions	JV-DV: 6-11/16" H x 3-3/16" W x 15/16" D JV-DVF: 8-1/4" H x 5-5/16" W Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.



**JV-DVF**  
Video Door Station  
(Included with JVS-1F box  
set—not sold separately)

DOOR/SUB    MASTER  
120 x 8

# AX Series Video Intercom with Integration

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



**AX-DV**  
→ p.44



**AX-DVF**  
→ p.44



**AX-DV-P**  
→ p.44



**AX-DVF-P**  
→ p.44



**AX-DM**  
→ p.44



**IF-DA**  
→ p.67



**IE-JA**  
→ p.67



**IE-SS/A**  
→ p.67



**IE-SSR**  
→ p.67



**AX-A**  
→ p.45



**AX-AN**  
→ p.45



**AX-B**  
→ p.45



**AX-BN**  
→ p.45

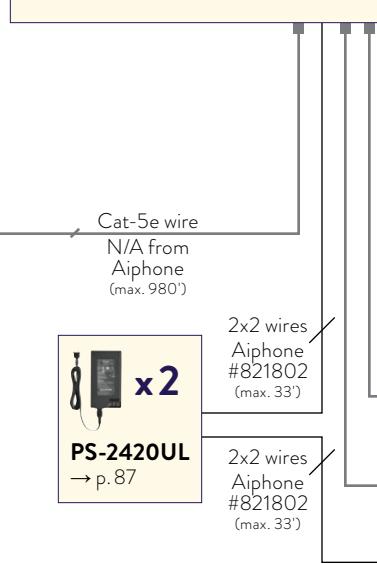
## Central Exchange Units: select 1



**AX-084C**  
→ p.45

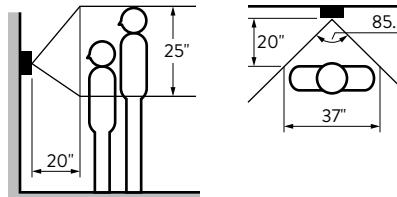


**AX-248C**  
→ p.45



- Two talk channels
- Composite video output from CEU/video masters
- Scan monitoring
- Cat-5e or Cat-6 wiring homerun from each station
- Selective calling between masters, and from masters to door/sub stations
- All Call or Group Call between master stations
- Normal or priority call levels
- PC programmable
- Transfer calls to an outside POTS line (requires Viking™ Model K-1900-5 programmable dialer)

## Camera View Area



GET MORE  
INFORMATION  
ON THIS SYSTEM



## Master Stations: mix and match up to 8



**AX-8MV**  
→ p.44



**AX-8MV-W**  
→ p.44



**AX-8M**  
→ p.44

Add-On Central Exchange Unit:  
select up to 3 (optional)

**AX-320C**  
→ p.45

Cat-5e wire  
N/A from Aiphone  
(max. 980')

Cat-5e wire  
N/A from Aiphone  
(max. 16')

Cat-5e wire  
N/A from Aiphone  
(max. 980')

## Accessories



**AX-16SW**  
16-Call Add-On  
Selector for  
AX-8MV or  
AX-8M (up to seven  
per master station)  
→ p.44



**SBX-2G/A**  
Surface Mount  
Box for IE-JA,  
IE-SS/A, or  
IE-SSR  
→ p.83



**KMB-45**  
45° Mullion  
Mounting  
Bracket for  
IF-DA  
→ p.84



**SBX-AXDV30**  
30° Angle Box  
for AX-DV  
→ p.84



**SBX-AXDVF**  
Surface  
Mount Box  
for AX-DVF  
→ p.82



**SBX-DVF-P**  
Surface  
Mount Box  
for AX-DVF-P  
→ p.82



**EL-12S**  
Electric Door  
Strike for  
Wood Frames  
(requires PT-1210NA)  
→ p.81



**RY-1824L**  
Form C Door  
Release Relay  
(one per door)  
→ p.81



**MCW-S/B**  
Desk Stand  
for AX-8MV,  
AX-8MV-W,  
or AX-8M  
→ p.85



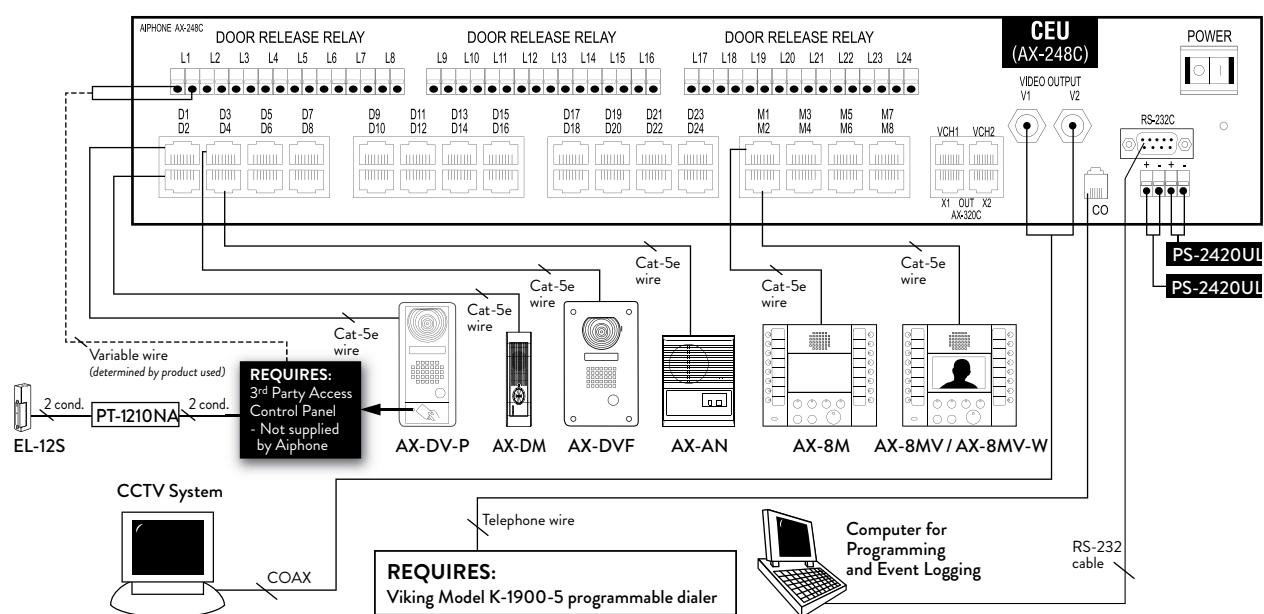
**AXW-PA1**  
Paging  
Adaptor  
→ p.45



**RY-ES**  
External  
Signaling  
Relay  
→ p.81



**IER-2**  
Call  
Extension  
Speaker  
→ p.81





**AX-8MV**  
Video Master Station



**AX-8MV-W**  
Video Master Station  
(recommended for an  
8 x 8 system only)



**AX-8M**  
Audio Master Station

- 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

Power Source	Supplied by Central Exchange Unit
Communication	Hands-free (VOX) or push-to-talk (simplex)
Video Display	AX-8M: N/A AX-8MV, AX-8MV-W: 3-1/2" LCD screen
Door Release	Programmable dry contact, 24V AC/DC, 500mA (use RY-1824L for larger contact rating)
Mounting	Surface mount directly to wall or desk mount—use MCW-S/B for an adjustable desk angle
Wire Type	Between Door/Sub Station, Master Station, and Central Exchange Unit: Cat-5e or Cat-6
Distance	Central Exchange Unit to Master Station: 980'
Dimensions	6-7/8" H x 7-5/8" W x 1-7/8" D



**AX-16SW**  
16-Call Add-On  
Selector for  
AX-8MV or  
AX-8M (up to  
seven per master)

- Provides ability to select/call 16 additional door stations
- Aesthetically matches AX-8M or AX-8MV

Power Source	Supplied by Master Station
Calling Capacity	16 door/sub stations
Unit Capacity	Max. 7 for up to 112 additional door/sub stations (max. 120 door/sub stations per system)
Mounting	Mounts directly to Master Station or other AX-16SW with supplied brackets
Wire Type	Add-On Selector to Master Station: Ribbon cable (included with AX-16SW)
Dimensions	6-7/8" H x 3-3/8" W x 1-7/8" D



**AX-DV**  
Video Door Station



**AX-DV-P**  
Video Door Station  
with HID®  
Card Reader  
(requires a  
third-party host and  
additional wire to  
power card reader)

- Polycarbonate lens cover
- Fixed camera provides clear video
- LED illumination automatically turns on in low light conditions
- Weather and vandal resistant

Power Source	Supplied by Central Exchange Unit
Communication	Hands-free
Camera	Type: 1/4" CCD Area View: 2'1" vertical x 3'1" Horizontal at 20°
Operating Temp	14°~140°F (-10°~60°C)
HID® Reader	ProxPoint® Plus
Material	AX-DV, AX-DV-P: aluminum die cast AX-DVF, AX-DVF-P: stainless steel
Mounting	AX-DV, AX-DV-P: surface mount directly to wall AX-DVF: flush mount with included back box or surface mount with SBX-AXDVF AX-DVF-P: flush mount with included back box or surface mount with SBX-DVF-P
Wire Type	Door Station to Central Exchange Unit: Cat-5e
Distance	Door Station to Central Exchange Unit: 980'
Dimensions	AX-DV: 7-11/16" H x 3-15/16" W x 1" D AX-DV-P: 9-5/8" H x 3-15/16" W x 1" D AX-DVF: 9-11/16" H x 5-3/4" W AX-DVF-P: 11-5/8" H x 5-3/4" W Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.



**AX-DVF**  
Video Door Station



**AX-DVF-P**  
Video Door Station  
with HID®  
Card Reader  
(requires a  
third-party host and  
additional wire to  
power card reader)

- Weather resistant
- Mullion surface mount
- Can be used with AX Series, IE-8 Series, KB Series, or TD-H Series



**AX-DM**  
Mullion-Mount  
Audio Door Station

Power Source	Supplied by Central Exchange Unit
Communication	Hands-free
Operating Temp	14°~140°F (-10°~60°C)
Material	ABS plastic
Mounting	Surface mount directly to wall or mullion
Wire Type	Door Station to Central Exchange Unit: Cat-5e or 2-cond.
Distance	Door Station to Central Exchange Unit: 980'
Dimensions	6-5/16" H x 1-11/16" W x 7/8" D

# AX Series Features and Specifications



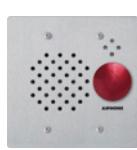
**IF-DA**  
Audio Door Station  
→ p.67



**IE-JA**  
Audio Door Station  
→ p.67



**IE-SS/A**  
Audio Door Station  
→ p.67



**IE-SSR**  
Audio Door Station  
→ p.67



**AX-A**  
Audio Sub Station



**AX-AN**  
Privacy Audio Sub Station



**AX-B**  
Audio Sub Station



**AX-BN**  
Privacy Audio Sub Station

- Hands-free communication when master answers
- Privacy feature blocks unwanted monitoring from master (AX-AN, AX-BN)

**Power Source** Supplied by Central Exchange Unit

**Communication** Hands-free

**Material** ABS plastic

**Mounting** AX-A, AX-AN: desk mount or surface mount directly to wall/1-gang box

AX-B, AX-BN: semi-flush mount

**Wire Type** Sub Station to Central Exchange Unit: Cat-5e or 2-cond.

**Distance** Sub Station to Central Exchange Unit: 980'

**Dimensions** AX-A, AX-AN: 7-1/16" H x 5-5/8" W x 2-3/16" D  
AX-B, AX-BN: 8-3/16" H x 6" W x 1-15/16" D



**AXW-PA1**  
Paging Adaptor

- Page from an intercom master station out to a PA system
- Takes the place of a separate microphone for paging where there is an intercom

**Power Source** Supplied by Master Station or Central Exchange Unit

**Input** Direct Central Exchange Unit connection

**Output** 600Ω

**Output to Adaptor** 0dB and -20dB, selectable

**Requirements** AUX input (10kΩ) or 100mV for rated output

**Wire Type** 2-cond., overall shield—use Aiphone #822202

**Dimensions** 4-1/8" H x 2-1/2" W x 1-1/2" D



**AX-084C**  
Central Exchange Unit (supports up to 4 master stations and 8 door/sub stations)

- Wiring hub uses Cat-5e
- Two 24V DC power supply input terminals
- Rack mountable
- Controls all system functionality
- Two BNC composite video outputs and video switching triggers
- CO line transfer (requires Viking™ K-1900-5 programmable auto-dialer and POTS line)
- Programmable functionality via supplied software

**Power Source** 24V DC—use two PS-2420ULs

**Consumption** Video: 0.62A max. Audio: 0.65A max.

**CO Line Port** RJ11 for Viking™ K-1900-5 programmable auto-dialer

**Door Release** Programmable dry contact, 24V AC/DC, 500mA (use RY-1824L for larger contact rating)

**Mounting** 19" EIA rack (2U) or wall mount

**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: 980'

Central Exchange Unit to Add-On Central Exchange Unit: 16'

**Power Supply** to Central Exchange Unit and Add-On Central Exchange Unit: 16'(22AWG) 33'(18AWG)

**Dimensions** 3-7/16" H x 16-9/16" W x 13-3/16" D



**AX-248C**  
Central Exchange Unit (supports up to 8 master stations and 24 door/subs stations)

- Wiring hub uses Cat-5e
- Two 24V DC power supply input terminals
- Rack mountable



**AX-320C**  
Add-On Central Exchange Unit (supports up to 32 door/sub stations)

**Power Supply** to Central Exchange Unit and Add-On Central Exchange Unit: 2-cond., overall shield—use Aiphone 821802

Central Exchange Unit to Master: 980'

Central Exchange Unit to Add-On Central Exchange Unit: 16'

**Power Supply** to Central Exchange Unit and Add-On Central Exchange Unit: 16'(22AWG) 33'(18AWG)

**Dimensions** 3-7/16" H x 16-9/16" W x 13-3/16" D

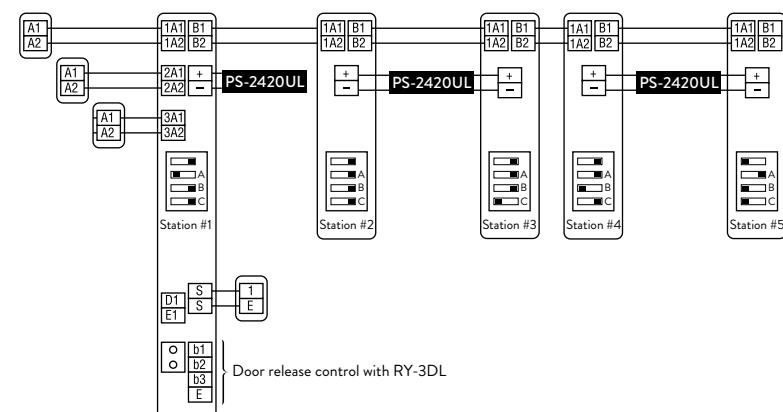
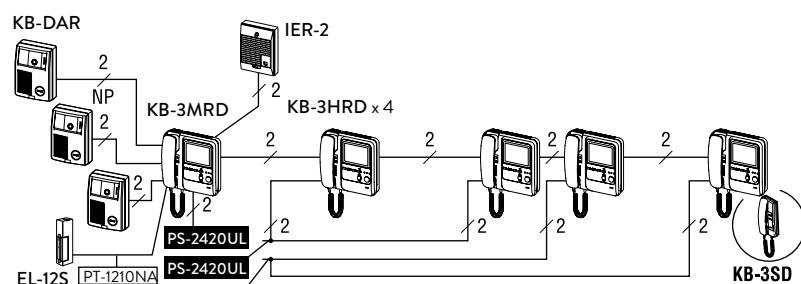
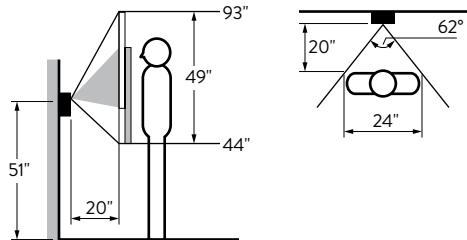
DOOR 3 x 5 MSTR/SUB

## KB Series Video Intercom with Handset

AiphoneCloud

**Door Stations:** mix and match up to 3 (max. 1 audio door station per system)**KB-DAR,**  
**KB-DAR-M**

Compatible with AX and IE Series audio door stations:

**AX-DM,**  
**IF-DA,**  
**IE-JA,**  
**IE-SS/A,**  
**IE-SSR****Master Station****KB-3MRD**2 wires  
Aiphone #871802  
(max. 650')**Sub Master Stations:** mix and match up to 4**KB-3HRD**2 wires  
Aiphone #871802  
(max. 330' between master station and farthest sub master station)Door Strike and Power  
2 wiresRY-3DL  
→ p.81Door Strike and Power  
2 wires6 wires  
Aiphone #871802  
(max. 33')PS-2420UL  
→ p.872 wires  
Aiphone #871802  
(max. 33')PS-2420UL  
→ p.87**Accessories****SBX-2G/A**  
Surface Mount Box for IE-JA, IE-SS/A, or IE-SSR  
→ p.83**SBX-CON1**  
Conduit Box for AX-DM, IF-DA, KB-DAR, or KB-DAR-M  
→ p.82**SBX-ACE**  
Surface Mount Box for AX-DM, IF-DA, KB-DAR, or KB-DAR-M and one Access Control Device  
→ p.82**KMB-45**  
Mullion Mounting Bracket for IF-DA, KB-DAR, or KB-DAR-M  
→ p.84**KAW-D**  
30° Angle Box for IF-DA, KB-DAR, or KB-DAR-M  
→ p.84**KA-DGR**  
Surface Mount Housing Panel for KB-DAR or KB-DAR-M (door station not included)**IER-2**  
Call Extension Speaker  
→ p.81**EL-12S**  
Electric Door Strike for Wood Frames (requires PT-1210NA)  
→ p.81**RY-1824L**  
Form C Door Release Relay (for one door)  
→ p.81**RY-3DL**  
Selective Door Release Adaptor (for two or three doors)  
→ p.81**RY-ES**  
External Signaling Relay  
→ p.81**MCW-S/B**  
Desk Stand for KB-3MRD or KB-3HRD  
→ p.85**Camera View Area**

NOTES: 1. D1 and E1 for IE Series door stations (audio only) instead of third KB-DAR  
2. Run audio/video wires in a separate jacketed cable from door release wires



GET MORE INFORMATION ON THIS SYSTEM



# KB Series Features and Specifications



**KB-3MRD**  
Video Master  
Station with Handset



**KB-3HRD**  
Video Sub Master  
Station with Handset

- Handset for privacy
- All call and selective call
- Chime and receiver volume control
- Optional selective door release with RY-3DL
- Two-way communication between inside stations
- Analog video out via supplied connector (KB-3MRD only)
- Video identification and monitoring with 4" screen
- Instant voice call-in with image
- Built-in illumination for low light conditions
- Video out to DVR via supplied connector
- 330' total distance looped between monitors

Power Source	24V DC—use PS-2420UL
Communication	Handset (full-duplex)
Video Display	4" LCD screen
Door Release	N/O dry contact, 12V AC, 400mA (use RY-1824L for larger contact rating or RY-3DL for two or three doors)
Mounting	Surface mount directly to wall or desk mount using MCW-S/B
Wire Type	2-cond., mid cap, solid, non-shielded—use Aiphone #871802
Distance	Master Station to Door Station: 330'(22AWG) 650'(18AWG) Master Station to farthest Sub Master Station: 165'(22AWG) 330'(18AWG) Power Supply to Master Station or Sub Master Station: 16'(22AWG) 33'(18AWG)
Dimensions	7-11/16" H x 7-5/16" W x 3-5/19" D



**KB-DAR**  
Video Door  
Station



**KB-DAR-M**  
Video Door  
Station

- Tilt controlled camera
- Locator LED backlit on CALL button
- LED illumination automatically turns on in low light conditions
- Weather resistant
- KB-DAR-M has a motion detector interface

Power Source	Supplied by Master Station
Communication	Hands-free
Camera	Type: 1/4" CCD View Area: 3'8"-7'1" vertical x 2' horizontal at 20"
Operating Temp	14°~140°F (-10°~60°C)
Material	Fire resistant ABS plastic
Mounting	Surface mount directly to wall or 1-gang box
Wire Type	Door Station to Master Station: 2-cond., low cap, non-shielded—use Aiphone #871802
Distance	Door Station to Master Station: 330'(22AWG) 650'(18AWG)
Dimensions	5-1/2" H x 4-1/8" W x 1-3/4" D



**KA-DGR**  
Surface Mount  
Housing Panel  
for KB-DAR or  
KB-DAR-M

- Stainless steel construction
- Weather resistant for outdoor use
- Can be added to any existing KB-DAR or KB-DAR-M video door station

Material	Stainless steel
Mounting	Surface mount directly to wall
Dimensions	5-15/16" H x 4-5/16" W x 1-11/16" D



**AX-DM**  
Mullion-Mount  
Audio Door Station  
→ p. 44



**IF-DA**  
Audio Door  
Station  
→ p. 67



**IE-JA**  
Audio Door  
Station  
→ p. 67



**IE-SS/A**  
Audio Door  
Station  
→ p. 67



**IE-SSR**  
Audio Door  
Station  
→ p. 67

5 x 2 x 48

## GT Series Standard Multi-Tenant Video Intercom

Entrance Stations: mix and match up to 16

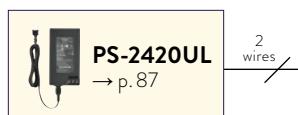
Ready-to-Install Single Panel

GT-DMB-N  
→ p. 52

Ready-to-Assemble Modular Kits

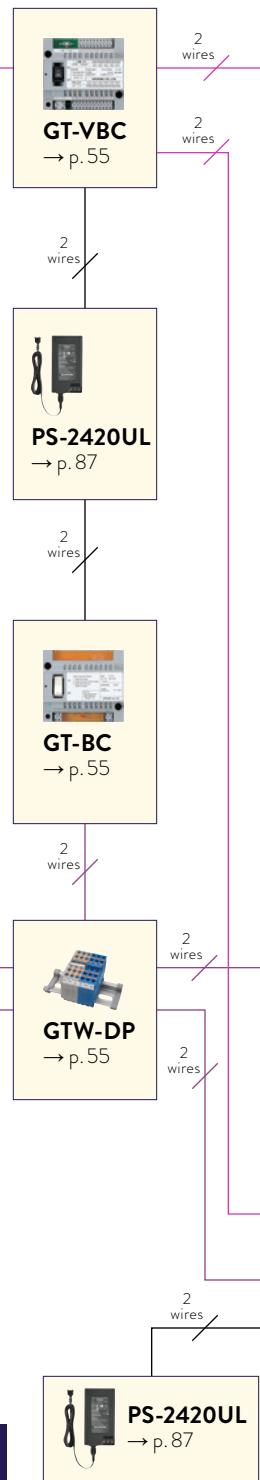
GTV-DES104B  
→ p. 52GTV-DES202B  
→ p. 52GTA-DESB  
→ p. 52

NOTE: To build custom entrance stations, see modular components and mounting accessories on pages 56-57.



2 wires

- VIDEO Wire  
Aiphone #871802
- AUDIO Wire  
Aiphone #872002
- POWER Wire  
Aiphone #871802



Tenant Stations: mix and match up to 48\*

\***Tenant Stations**—up to 4 stations per tenant with these parameters: 1 GT-1C7/W + 3 audio stations **OR** 2 GT-1M3s + 2 audio stations **OR** 4 audio stations (max. 48 stations or max. 100 stations if only using GT-1Ds)

GT-1C7W  
→ p. 54GT-1C7  
→ p. 54GT-1M3  
→ p. 54GT-1A  
→ p. 54GT-1D  
→ p. 54

Video Guard Station: select up to 2

GT-MKB-N  
→ p. 53GT-MKB-N  
→ p. 53

NOTE: Maximum cumulative audio wire distance is 8,200 ft. If exceeded, contact Technical Support for system configuration assistance.



GET MORE INFORMATION ON THIS SYSTEM



## Tenant Stations: mix and match up to 48\*

**\*Tenant Stations**—up to 4 stations per tenant with these parameters: 1 GT-1C7/W + 3 audio stations **OR** 2 GT-1M3s + 2 audio stations **OR** 4 audio stations (max. 48 stations or max. 100 stations if only using GT-1Ds)



**GT-1C7W**  
→ p. 54



**GT-1C7**  
→ p. 54



**GT-1M3**  
→ p. 54



**GT-1A**  
→ p. 54



**GT-1D**  
→ p. 54

## Accessories



**SBX-GTDMB**  
Surface Mount Box  
for GT-DMB-N  
→ p. 57



**GT-102HB**  
2-Module Hooded  
Surface Mount Box  
(GT-102HB, GT-103HB,  
GT-104HB, GT-202HB,  
GT-203HB, and GT-303HB  
are also available)  
→ p. 57



**MCW-S/B**  
Desk Stand for  
GT-1C7, GT-1C7W,  
GT-1M3, or GT-1A  
→ p. 85



**GFK-PS**  
Urgent Call  
Pull Cord  
→ p. 55



**GT-RY**  
External  
Signaling Relay  
→ p. 55



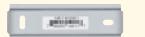
**GT-MCX**  
Network Adaptor for  
Remote Programming  
(includes mounting rail)  
→ p. 55



**GT-4Z**  
4-Way Video  
Distribution  
Adaptor  
→ p. 55



**GT-4ZP**  
4-Way Video/Power  
Distribution Adaptor  
for GT-1C7W  
→ p. 55



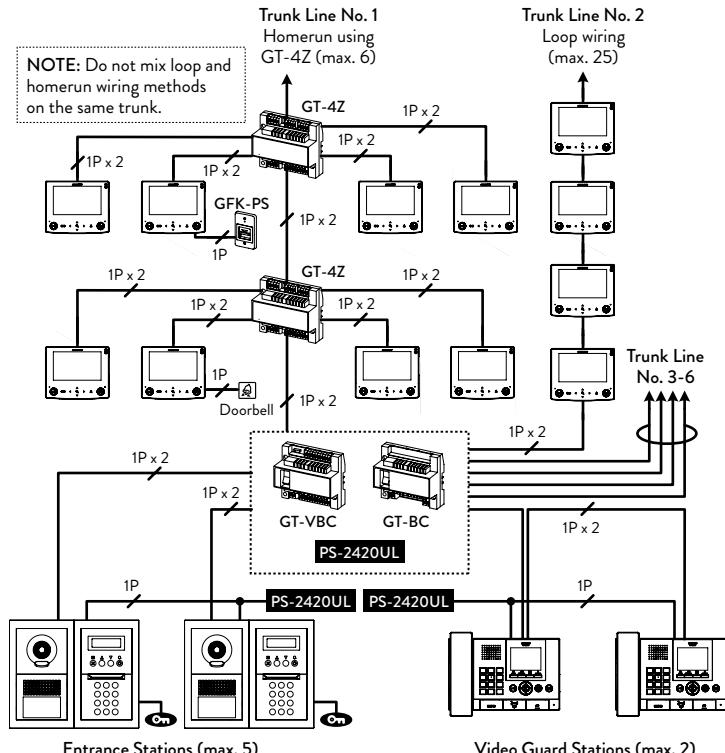
**W-DIN11**  
DIN Mounting Rail  
for Control Units  
→ p. 57

**NFC-CARD**  
(not shown)  
Access Card for  
GT-DB-VN and  
GT-DMB-N  
→ p. 52

**NFC-FOB**  
(not shown)  
Access Fob for  
GT-DB-VN and  
GT-DMB-N  
→ p. 52

- Analog camera input provides additional surveillance of entry area (GT-DMB-N, GT-VB)
- Both video and audio entrance panels can be combined in the same system
- Calls can be answered using the tenant station or mobile app (requires GT-1C7W)
- Unlock entrance from tenant station
- Optional individual doorbell to ring tenant stations
- Panic call switch for emergency calling to guard or concierge
- Tenant can monitor the entryway (video system)
- Tenant directory can quickly be updated with NFC-compatible stations (GT-DB-VN, GT-DMB-N, GT-MKB-N, GT-BCXB-N)
- Link data allows easy programming of multiple entrance and video guard stations
- Setting via dip switch for digital systems provides faster and easier installation (GT-1C7, GT-1C7W, GT-1M3)
- Simple wiring with only two common wires for audio and only two additional wires for video
- Video guard station(s) can be included to provide communication between office/lobby and tenants

## GT Standard Configuration Sample



**ENTRANCE**   **GUARD**   **TENANT**  
**16** x **4** x **500**

## GT Series Expanded Multi-Tenant Video Intercom

## Entrance Stations: mix and match up to 16

### Ready-to-Install Single Panel



GT-DMB-N  
→ p.52

## Ready-to-Assemble Modular Kits



GTV-DES104B  
→ p.52



GTV-DES202B  
→ p.52



GTA-DESB  
→ p. 52

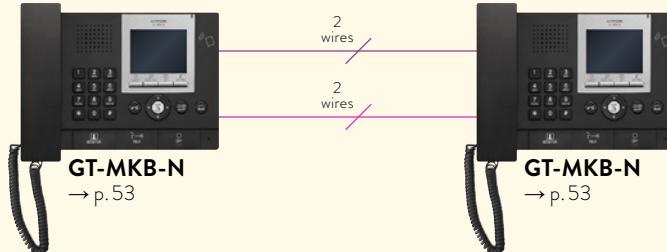
**NOTE:** To build custom entrance stations, see modular components and mounting accessories on pages 56–57.



GET MORE  
INFORMATION  
ON THIS SYSTEM

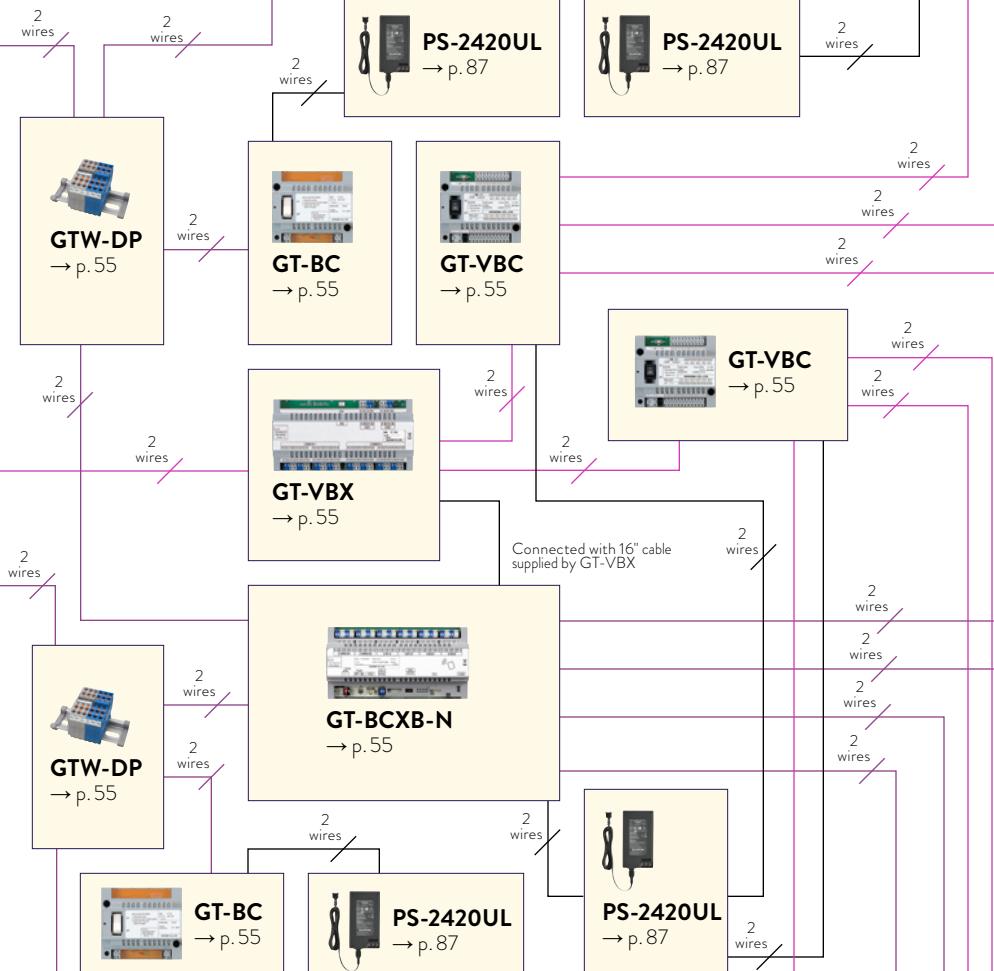


## Video Guard Station: select up to 2



→ p. 53

GT-MRB-1

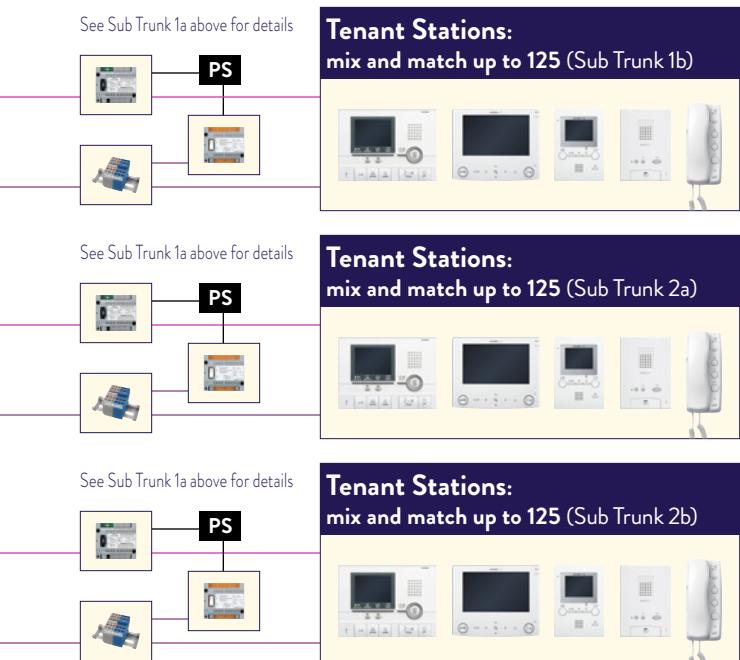
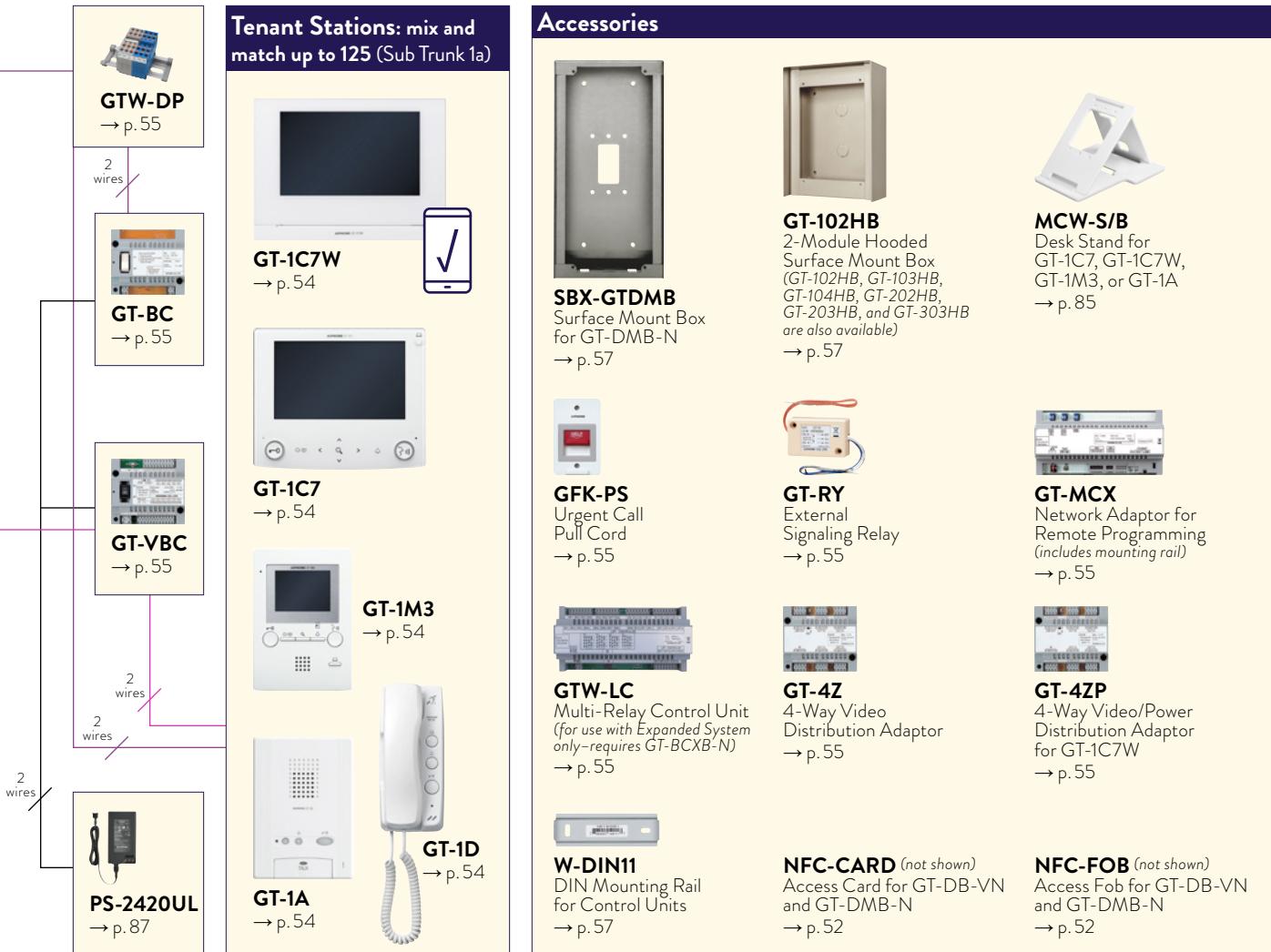


**Video Guard Station: select up to 2**



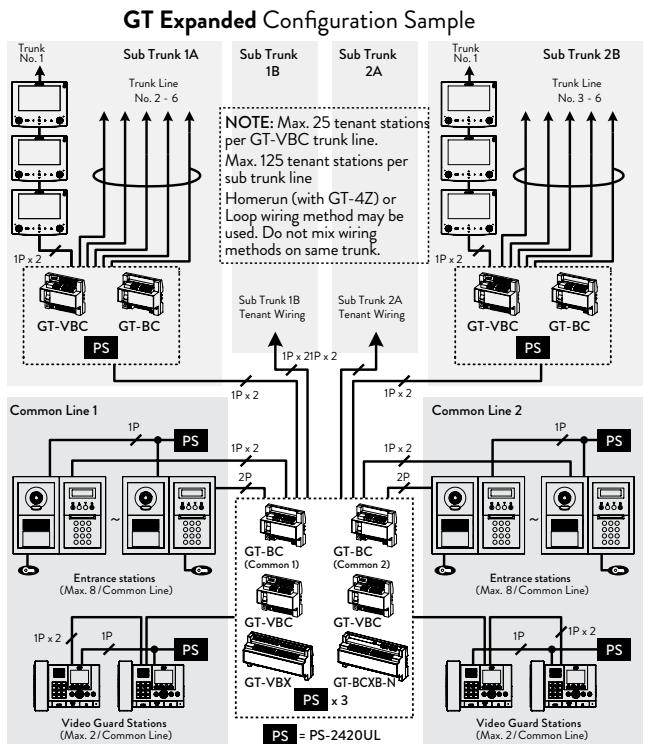
PS-2420UL  
→ p.87

## Specifications



## Features—same as Standard System, plus:

- Up to 16 entrance panels, 4 video guard stations, and 500 tenant stations



# GT Series Features and Specifications

## Ready-to-Install Single Panel



**GT-DMB-N**  
3-in-1 Video  
Entrance Station

- PTZ camera with 170° angle view (GT-DMB-N, GTV-DES104B, GTV-DES202B)
- Hands-free communication
- Direct dialing, alphabetical scrolling, or “jump” scrolling by letter to select tenant
- Digital panel stores up to 500 tenant names/number locations and 500 unique access codes to activate door release
- Voice annunciation in English, French, German, Spanish, Dutch, and Italian
- Alpha-numeric room numbers and/or names can be programmed with software
- Scrolling welcome message, up to 160 characters, adjustable scroll speed
- VFD displays calling unit name and number (GTA-DESB, GTV-DES104B, GTV-DES202B)
- Configuration can be customized
- Weather and vandal resistant

Additional features for GT-DMB-N:

- Tenant directory programming with NFC technology
- PC configuration via USB
- Mobile app configuration via NFC (Android™ only, requires Aiphone GT Setup Tool app)
- Motion activated 3-1/2" LCD screen can display a customized greeting, operation instructions, or standby image

**Power Source** 24V DC—use specified number of PS-2420ULs per system configuration

**Communication** Hands-free (VOX)

**Camera** Type: 1/4" CMOS (not GTA-DESB)

View Area: 100° vertical  
x 170° horizontal (not GTA-DESB)

**Door Release** Form C dry contact, 24V AC/DC, 4A

**Operating Temp** 14°~140°F (-10°~60°C)

**Material** GT-DMB-N: stainless steel

GTA-DESB, GTV-DES104B,  
GTV-DES202B: zinc die cast

**Mounting** GT-DMB-N: flush mount with GF-3B (sold separately) or surface mount with SBX-GTDMB (sold separately)

GTA-DESB, GTV-DES104B,  
GTV-DES202B: semi-flush mount with GF-3B (included), semi-flush mount with GT-nH (sold separately), or surface mount with GT-nHB (sold separately)

**Wire Type** 2-cond., solid, non-shielded, PE insulation—use Aiphone #872002 for audio and #871802 for video and power

**Distance** Variable wiring distances—see table on p.55

**Dimensions** GT-DMB-N: 12-5/8" H x 5-7/8" W  
GTA-DESB: 12-5/8" H x 5-5/16" W x 5/8" D

GTV-DES104B: 16-3/4" H x 5-5/16" W x 5/8" D

GTV-DES202B: 8-7/8" H x 10-5/8" W x 5/8" D

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

## Ready-to-Assemble Modular Kits



**GTV-DES104B**  
Modular Video  
Entrance Station Kit  
(includes GT-DB+GT-DBP,  
GT-VB+GT-VP,  
GT-NSB+GT-NSP-L,  
GT-10K+GF-10KP,  
GT-4B+GT-4F, and  
GT Operation Plate)



**GTV-DES202B**  
Modular Video Entrance Station Kit  
(includes GT-DB+GT-DBP,  
GT-VB+GT-VP,  
GT-NSB+GT-NSP-L,  
GT-10K+GF-10KP, and  
GF-2B+GF-2F x2)



**GTA-DESB**  
Modular Audio  
Entrance Station Kit  
(includes GT-DB+GT-DBP,  
GT-VB+GT-VP,  
GT-NSB+GT-NSP-L,  
GT-10K+GF-10KP, and  
GF-3B+GF-3F)

**NFC-CARD** (not shown)  
Access Card for  
GT-DB-VN and  
GT-DMB-N

**NFC-FOB** (not shown)  
Access Fob for  
GT-DB-VN and  
GT-DMB-N

**NOTE:** To build custom entrance stations, see modular components and mounting accessories on pages 56-57.

# GT Series Features and Specifications



**GT-MKB-N**  
Video Guard Station  
with Handset

- Tenant directory programming with NFC technology
- For audio or video systems
- Video identification and monitoring
- Calls entrance or tenant stations
- Reception Mode intercepts visitor calls for screening by guard or concierge
- Door release
- PC configuration via USB
- Mobile app configuration via NFC (Android™ only, requires Aiphone GT Setup Tool app)
- Hands-free communication with handset for privacy
- Includes desk stand
- Compatible with JO-DV for single-door video entry

**Power Source** 24V DC—use PS-2420UL  
**Communication** Handset  
**Video Display** 3-1/2" LCD screen  
**Operating Temp** 32°~104°F (0°~40°C)  
**Mounting** Wall or desk mount (stand included)  
**Wire Type** 2-cond., solid, non-shielded, PE insulation—use Aiphone #872002 for audio and #871802 for video and power  
**Dimensions** 6-3/8" H x 9-13/16" W x 1-1/2" D



**GT-1C7W**

App-Compatible Video Tenant Station  
(requires PS-2420UL or GT-4ZP for power  
and WiFi connection for mobile app)

**GT-1C7**

Video Tenant Station

**GT-1M3**

Video Tenant Station

**GT-1A**

Audio Tenant Station

**GT-1D**

Audio Tenant Station  
with Handset

- Up to eight free mobile apps can be connected (requires GT-1C7W and 2.4 GHz WiFi connection)
- Door release, video guard station call, and optional service buttons
- Call tone and communication volume control
- Simple station programming via dip switch setting
- Zoom and brightness control

**Power Source** GT-1C7, GT-1M3, GT-1A, GT-1D: 24V DC—supplied by GT-BC or GT-VBC

GT-1C7W: 24V DC—supplied by GT-4ZP or power supply

**Communication** GT-1C7W, GT-1C7, GT-1M3, GT-1A: hands-free (VOX) or push-to-talk (simplex)  
GT-1D: handset

**Video Display** GT-1C7: 7" LCD screen  
GT-1C7W: 7" LCD touchscreen  
GT-1M3: 3-1/2" LCD screen  
GT-1A, GT-1D: N/A

**Mounting** GT-1C7, GT-1C7W, GT-1M3, GT-1A: wall mount or desk mount with MCW-S/B  
GT-1D: wall mount

**Wire Type** 2-cond., solid, non-shielded, PE insulation—use Aiphone #872002 for audio and #871802 for video (GT-1A or GT-1D do not need video wire)

**Distance** Variable wiring distances—see table on p.55

**Dimensions** GT-1C7: 6-1/2" H x 7-7/8" W x 1" D  
GT-1C7W: 6-1/8" H x 8-1/4" W x 1-1/16" D  
GT-1M3: 7-1/16" H x 4-15/16" W x 1" D  
GT-1A: 6-7/8" H x 4-15/16" W x 1-1/4" D  
GT-1D: 7-7/8" H x 3-1/2" W x 2-1/2" D

- Door release, video guard station call, and optional service buttons
- Call tone and communication volume control

- Door release and video guard station call buttons
- Call tone volume control

# GT Series Features and Specifications



**GT-MCX**  
Network Adaptor for  
Remote Programming  
(includes mounting rail)



**GT-BC**  
Audio Bus  
Control Unit



**GT-VBC**  
Video Bus  
Control Unit



**GT-BCXB-N**  
Expanded Bus  
Control Unit  
(includes mounting rail)



**GT-VBX**  
Expanded Video  
Bus Control Unit  
(includes mounting rail)



**GT-4Z**  
4-Way Video  
Distribution Adaptor



**GT-4ZP**  
4-Way Video/Power  
Distribution Adaptor  
for GT-1C7W



**GTW-LC**  
Multi-Relay Control Unit  
(for use with GT Series Expanded  
System only and requires GT-BCXB-N -  
includes mounting rail)



**GTW-DP**  
Distribution  
Point Adaptor  
(includes mounting rail)



**GT-RY**  
External  
Signaling Relay



**GFK-PS**  
Urgent Call  
Pull Cord

**Power Source** GT-4ZP, GT-BC, GT-VBC, GT-BCXB-N,

GT-MCX: 24V DC—use PS-2420UL

GT-VBX: supplied by GT-BCXB-N

GTW-LC: supplied by GT-BC

GT-4Z: power not required

**Mounting** DIN rail (equipped with large units)—use W-DIN11 for small units

**Wire Type** 2-cond., solid, non-shielded, PE insulation—use Aiphone #872002 for audio and #871802 for video and power

**Distance** Variable wiring distances—see table below

**Dimensions** GT-4Z, GT-4ZP, GT-BC, GT-VBC: 4-1/4" H 4-13/16" W x 2-3/8" D  
GT-BCXB-N, GT-MCX, GT-VBC, GTW-LC: 4-1/4" H 8-1/4" W x 2-3/8" D

GT Wiring Distances	22 AWG	20 AWG	18 AWG
GT-BC to Distribution Point	10'	16'	16'
GTW-DP to Entrance Station	490'	980'	980'
GTW-DP to GT-MKB-N	490'	980'	980'
GTW-DP to farthest Tenant Station	490'	980'	980'
GT-VBC to farthest Tenant Station	330'	490'	490'
GT-VBC (standard) to GT-VBC (expanded)	330'	490'	490'
GT-BC or GT-VBC to Power Supply	10'	16'	16'
GT-NSB to Power Supply	980'	980'	980'
GT-MKB-N to Power Supply	490'	980'	980'
Total cumulative wiring per common line (up to two) and per sub trunk line (up to four)	5,400'	8,200'	8,200'

- N/O contact output
- Provides relay for entrance light control or an additional buzzer at residence

**Power Source** 24V DC—supplied by station

**Contact Rating** 24V AC/DC, 500mA

**Dimensions** 1-3/8" H x 2-3/16" W x 7/8" D

- Latching call switch
- Suitable for bathrooms and high-moisture areas
- Durable 7' nylon pull cord with pendant
- Easily resets by pushing back up

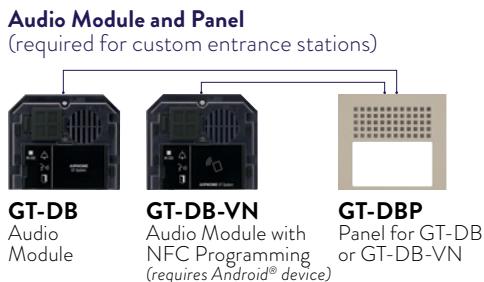
**Contact Rating** N/C 24V DC, 500mA

**Mounting** Flush mount with 1-gang box

**Dimensions** 4-1/2" H x 2-3/4" W x 1-1/4" D

# GT Series Features and Specifications

## Modular Components for Custom Entrance Stations



**Power Source** GT-10K, GT-DB, GT-DB-VN, GT-SW, GT-VB: supplied by system  
GT-NSB: PS-2420UL

**Door Release** GT-DB, GT-DB-VN: Form C dry contact, 24V AC/DC, 4A

**Operating Temp** 14°~140°F (-10°~60°C)

**Material** Panels: zinc die cast

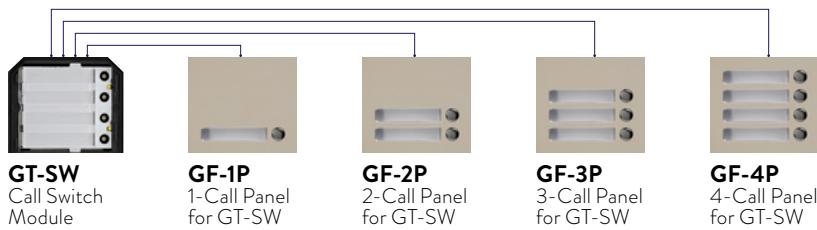
Modules: fire resistant ABS plastic

**Wire Type** 2-cond., solid, non-shielded, PE insulation—use Aiphone #872002 for audio and #871802 for video and power

**Distance** Variable wiring distances—see table on p. 55

**Dimensions** All GT and GT Panels: 3-3/4" x H 4-5/16" x W 5/16" D

## Direct Select Module and Panels



## Digital Scroll Modules and Panels

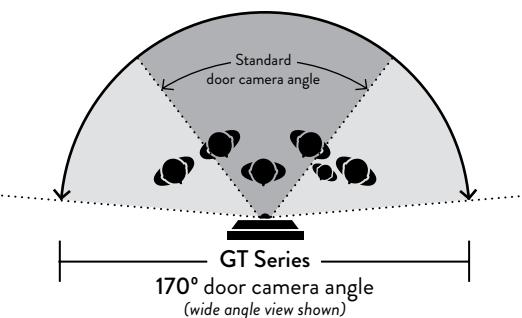


## Optional



**GF-BP**  
Blank Panel  
(can be used as a placeholder)

## Camera View Area



**Easily mix and match modular components for custom entrance stations**



**GT-OP2**  
2-Module  
Postal Lock



**GT-OP3**  
3-Module Postal Lock  
(top position open for additional module)

**Power Source** 24V DC—use PS-2420UL

**Output Rating** N/O: 30V DC, 5A  
125V AC, 10A  
250V AC, 3A

N/C: 30V DC or 125V AC, 3A

**Mounting** GT-OP2: surface mount\* or flush mount with GF-2B

GT-OP3: surface mount\* or flush mount with GF-3B

\*Surface mount box selection depends on entry panel layout

**Wire Type** 2-cond., non-shielded—use Aiphone #872002

**Dimensions** GT-OP2: 8-7/8" H x 5-5/16" W x 5/8" D

GT-OP3: 12-5/8" H x 5-5/16" W x 5/8" D

# GT Series Features and Specifications



**SBX-GTDMB**  
Surface  
Mount Box for  
GT-DMB-N



**GF-2B**  
2-Module  
Back Box



**GF-3B**  
3-Module  
Back Box



**GT-4B**  
4-Module  
Back Box

- Hood provides additional weather protection
- Includes space inside for wiring
- Can mount directly to wall surface
- Openings at bottom allow for moisture drainage

**Material** 16GA stainless steel

**Mounting** Surface mount directly to wall with included hardware (8 x 32 with T-15 Torx head)



**GT-202HB**  
4-Module Hooded  
Surface Mount Box  
(for 2x2 layout)



**GT-102HB**  
2-Module  
Hooded  
Surface  
Mount Box



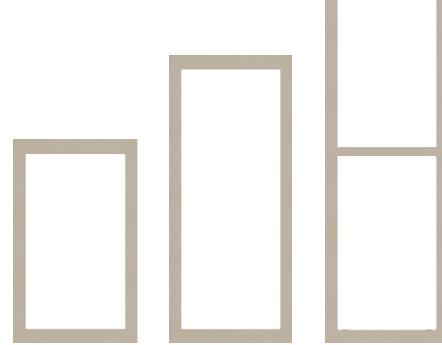
**GT-103HB**  
3-Module  
Hooded  
Surface  
Mount Box



**GT-104HB**  
4-Module Hooded  
Surface Mount Box  
(for 1x4 layout)



**GT-203HB**  
6-Module  
Hooded Surface  
Mount Box  
(for 2x3 layout)



**GT-2F** 2-Module  
**GT-3F** 3-Module  
**GT-4F** 4-Module  
Front Frame



**W-DIN11**  
DIN Mounting Rail  
for Control Units

There are many different entrance station and mounting configurations possible with the GT Series. For additional help, contact Aiphone's Technical Support.

**800.692.0200**

## Rain Hood & Hooded Surface Mount Box Dimensions

Component	Height (in / mm)	Width (in / mm)
SBX-GTDMB	12-11/16" / 323	6-1/16" / 154
GT-102HB	9-9/16" / 243	6-1/8" / 155
GT-202HB	9-9/16" / 243	11-7/16" / 290
GT-103HB	13-5/16" / 338	6-1/8" / 155
GT-203HB	13-5/16" / 338	11-7/16" / 290
GT-104HB	17-7/16" / 443	6-1/8" / 155
GT-303HB	13-5/16" / 338	16-3/4" / 425
GF-2F	8-7/8" / 225	5-5/16" / 135
GF-3F	12-5/8" / 320	5-5/16" / 135
GT-4F	16-3/4" / 425	5-5/16" / 135
Component	Depth (in / mm)	
SBX-GTDMB	2-1/2" / 64	
GT-nH	7/8" / 23	
GT-nHB	2-11/16" / 68	
GT-F-nF	5/8" / 16	

Back Box Dimensions			Back Box Total Width		
			<b>GF-2B / GF-3B / GT-4B</b> 1 back box: 4-5/16" / 110 2 back boxes: 9-5/8" / 245 3 back boxes: 15" / 380 4 back boxes: 20-1/4" / 515 5 back boxes: 25-9/16" / 650 6 back boxes: 30-7/8" / 785 7 back boxes: 36-1/4" / 920 8 back boxes: 41-9/16" / 1,055 9 back boxes: 46-7/8" / 1,190		
			Do not recess back box more than 9/16" (15 mm)		
			Do not recess back box more than 9/16" (15 mm)		



# ANALOG AUDIO INTERCOMS

Add communication where it's needed most.



FIRE DEPT. USE



FIRE  
FIGHTERS  
OPERATION  
TO RECALL  
ELEVATORS  
RIGHT  
PUSH IN  
AND TURN  
EXTERNAL  
OPERATION  
KEY TURN  
OFF

OFF  
ON  
FIRE



# LEF Series Selective Call and All Call Intercom

**Door and Sub Stations: mix and match up to 10** (requires 1 master station)



**LE-D**  
→ p. 63



**LE-SS-1G**  
→ p. 63



**LE-DA**  
→ p. 63



**LE-SS/A**  
→ p. 63



**LE-SSR**  
→ p. 63



**LS-NVP/C**  
→ p. 63



**LE-A**  
→ p. 62



**LE-AN**  
→ p. 62



**LE-B**  
→ p. 62



**LE-BN**  
→ p. 62

- Monitoring and Selective Call
- 3, 5, and 10-call master stations
- Push-to-talk at master, hands-free reply at called station
- Call tone and LED annunciation at master
- Selective door release (with 1 RY-PA per door) on LEF-3L, LEF-5, LEF-5C, LEF-10, LEF-10S, and LEF-10C master stations
- All Call with LEF-10S and all LEF-C masters (requires BG-10C)
- Mix and match doors, masters, subs, speakers, and paging adaptors to create desired communication (up to 11 total components)
- Wide variety of master and sub stations available

There are many different wiring configurations possible with the LEF Series. For additional help, contact Aiphone's Technical Support. **800.692.0200**

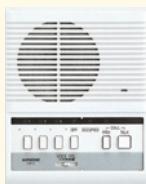


GET MORE  
INFORMATION  
ON THIS SYSTEM



# Mix and match up to 11 LEF components

## Master Stations: mix and match up to 11



**LEF-3**  
→ p. 62



**LEF-3L**  
→ p. 62



**LEF-3C**  
→ p. 62



**LEF-5**  
→ p. 62



**LEF-5C**  
→ p. 62



**LEF-10**  
→ p. 62



**LEF-10S**  
→ p. 62



**LEF-10C**  
→ p. 62

## Accessories



**SBX-CON1**  
Conduit Box  
for LE-D  
→ p. 82



**KMB-45**  
45° Mullion  
Mounting  
Bracket for  
LE-D  
→ p. 84



**SBX-1G**  
Surface  
Mount  
Box for  
LE-DA,  
LE-SS/A, or  
LE-SSR  
→ p. 83



**SBX-2G/A**  
Surface Mount  
Box for LE-DA,  
LE-SS/A, or  
LE-SSR  
→ p. 83



**SBX-NVP/A**  
Surface  
Mount Box for  
LS-NVP/C  
→ p. 83



**EL-12S**  
Electric Door Strike  
for Wood Frames  
(requires PT-1210NA)  
→ p. 81



**RY-PA**  
Door Release  
Relay  
→ p. 63



**BG-10C**  
All Call, Chime,  
and Music Adaptor  
(requires PS-1225UL)  
→ p. 63



**LEW-5,  
LEW-10,  
LEW-10S**  
Terminal Box  
→ p. 63



**RY-AC/A**  
External  
Signaling  
Relay  
→ p. 81

### IMPORTANT VOLTAGE NOTICE:

Use 12V DC voltage only.  
Connecting AC voltage to  
an LEF master station can  
damage the component.



**PS-1225UL**  
→ p. 87



**PS-1208UL**  
→ p. 87

LEF Series Wire Types	Wire #	Gauge	Conductor
<b>▼ LEF Standard Wiring</b>			
LEF-3	822210	22 AWG	10-conductor, overall shield
LEF-5	822212	22 AWG	12-conductor, overall shield
LEF-10, LEF-10S	822220	22 AWG	20-conductor, overall shield
<b>▼ LEF-C Wiring</b>			
LEF-3C	822212	22 AWG	12-conductor, overall shield
LEF-5C	822215	22 AWG	15-conductor, overall shield
LEF-10C	822220	22 AWG	20-conductor, overall shield
BG-10C to Master Station	822220	22 AWG	20-conductor, overall shield
<b>▼ Sub/Door Station Wiring</b>			
Homerun (22AWG)	822203	22 AWG	3-conductor, overall shield
Homerun (18AWG)	821803	18 AWG	3-conductor, overall shield
Looped (max. 4 stations)	822206	22 AWG	6-conductor, overall shield
Looped (max. 8 stations)	822210	22 AWG	10-conductor, overall shield
<b>▼ LEF + Door Release Wiring</b>			
LEF-3L	822212	22 AWG	12-conductor, overall shield
LEF-5, LEF-5C	822220	22 AWG	20-conductor, overall shield
LEF-10, LEF-10S, LEF-10C	822220 + 822210	22 AWG	20-conductor, overall shield + 10-conductor, overall shield

# LEF Series Features and Specifications



**LEF-3**  
3-Call Audio Master Station



**LEF-3L**  
3-Call Audio Master Station with Door Release



**LEF-3C**  
3-Call Audio Master Station with All Call (requires BG-10C)



**LEF-5**  
5-Call Audio Master Station with Door Release



**LEF-5C**  
5-Call Audio Master Station with Door Release and All Call (requires BG-10C)



**LEF-10**  
10-Call Audio Master Station with Door Release



**LEF-10S**  
10-Call Audio Master Station with Door Release and All Call (requires BG-10C)



**LEF-10C**  
10-Call Audio Master Station with Door Release and All Call (requires BG-10C)

- Mix and match a variety of stations
- Complements CCTV system
- Push-to-talk communication
- LED and call-tone indicators
- Selective Call and optional All Call

**Power Source** 12V DC—use PS-1208UL (use PS-1225UL if installing BG-10C)

**Consumption** 300mA

**Output** 800mW

**Communication** Push-to-talk (simplex)

**Door Release** N/O dry contact, 24V DC, 1A—use one RY-PA per door being released

**Mounting** LEF-3, LEF-3L, LEF-5, LEF-10, LEF-10S: surface mount directly to wall or desk mount

LEF-3C, LEF-5C, LEF-10C: semi-flush mount into wall or desk mount

**Wire Type** Variable wire types—see table on page 61

**Distance** Sub Station to farthest Master Station: 650'(22AWG) 1,600'(18AWG)

**Dimensions** LEF-3, LEF-3L: 7-1/16" H x 5-5/8" W x 2-1/8"

LEF-3C: 8-3/16" H x 6" W x 2" D (recessed 9/16")

LEF-5, LEF-10, LEF-10S: 8-1/8" H x 7-1/2" W x 2-3/16"

LEF-5C, LEF-10C: 9-3/8" H x 7-7/8" W x 3" (recessed 1-9/16")



**LE-A**  
Audio Sub Station



**LE-AN**  
Audio Sub Station with Privacy

- Provides internal communication to master stations

**Power Source** Supplied by Master Station

**Communication** Push-to-talk (simplex)

**Mounting** LE-A, LE-AN: surface mount directly to wall or desk mount

LE-B, LE-BN: semi-flush mount into wall or desk mount

**Wire Type** Variable wire types—see table on page 61

**Distance** Sub Station to farthest Master Station: 650'(22AWG) 1,600'(18AWG)

**Dimensions** LE-A, LE-AN: 6-5/16" H x 5-3/16" W x 2" D

LE-B, LE-BN: 8-3/16" H x 6" W x 2" D (recessed 9/16")



**LE-B**  
Audio Sub Station



**LE-BN**  
Audio Sub Station with Privacy

# LEF Series Features and Specifications



**LE-D**  
Audio Door Station



**LE-DA**  
Audio Door Station

- Weather resistant
- Push button to call master station(s)
- Hands-free communication when master answers



**LE-SS-1G**  
Audio Door Station



**LE-SS/A**  
Audio Door Station

- Weather and vandal resistant
- Stainless steel, mechanical call button (LE-SS/A, LS-NVP/C)
- Red mushroom call button (LE-SSR)
- Moisture and puncture resistant speaker
- Three-layer steel baffle protects speaker from tampering
- Hands-free communication when master answers
- Pigtail wires for connection to master station
- Includes tamper proof mounting screws



**LE-SSR**  
Audio Door Station



**LS-NVP/C**  
Audio Door Station

- Door release activation
- N/O contact output
- Camera call-up



**RY-PA**  
Door Release Relay



**BG-10C**  
All Call, Chime,  
and Music Adaptor  
(one BG-10C is required  
for up to 11 stations)

- Music ON/OFF switch plus music and chime selector switch for each station
- Chime volume control plus music, bass, and treble controls
- All Call pre-tone volume and speech volume controls
- Terminals for power supply, music and door station connection and LEF-C network (All Call and music receiving)
- Provides All Call and door chime for LEF-C and LEF-10S systems
- Background music input



**LEW-5**  
Terminal Box

- Remote terminal box for wire organization to masters mounted on a table or desk



**LEW-10**  
Terminal Box

**Power Source** Supplied by Master Station

**Communication** Hands-free

**Operating Temp** 14°~140°F (-10°~60°C)

**Material** LE-D: fire resistant ABS plastic

LE-DA: ABS plastic with stainless steel cover

LE-SS-1G, LE-SS/A, LE-SSR: stainless steel

LS-NVP/C: carbon steel with powder-coated white baked epoxy finish

**Mounting** LE-D: surface mount directly to wall or 1-gang box/ring

LE-SS-1G: flush mount with 1-gang box/ring or surface mount with SBX-1G

LE-DA, LE-SS/A, LE-SSR: flush mount with 2-gang box/ring or surface mount with SBX-2G/A

LS-NVP/C: flush mount with 3-gang box/ring or surface mount with SBX-NVP/A

**Wire Type** Door Station to LEF Master Station: 3-cond., overall shield—use Aiphone #822203

Door Station to LEM Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802

**Distance** Door Station to Master Station: 650'(22AWG) 1,600'(18AWG)

**Dimension** LE-D: 4-3/4" H x 3-7/16" W x 1-1/8" D

LE-DA: 4-1/2" H x 4-9/16" W

LE-SS-1G: 4-1/2" H x 2-3/4" W

LE-SS/A, LE-SSR: 4-3/4" H x 4-3/4" W

LE-NVP/C: 7-1/2" H x 5-1/2" W

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

**Power Source** 12V DC

**Contact Rating** 24V DC, 1A or 240V AC, 300mA

**Dimensions** 1-3/8" H x 2-3/16" W x 7/8" D

**Power Source** 12V DC, 2.5A—use PS-1225UL

Standby: 100mA

**All Call Transmit** From LEF-3C, LEF-5C, LEF-10C, LEF-10S

**All Call Receive** All LEF Master Stations

**BGM Input** AUX R, E and AUX L, E

**Controls** Music ON/OFF, 11 selector switches of music and chime (off or chime only)

**Wire Type** BG-10C to LEF-10C: 19 wires max.—use Aiphone #822220

To each LE-D or LE-DA: 3 wires—use Aiphone #822203

**Dimensions** 3-1/16" H x 9-13/16" W x 6-1/2" D



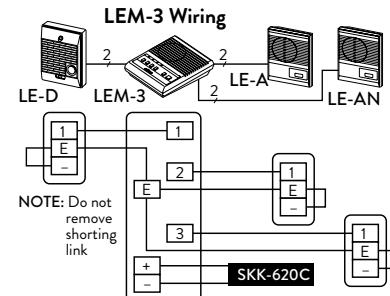
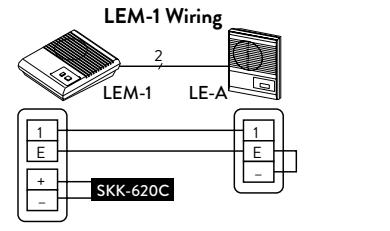
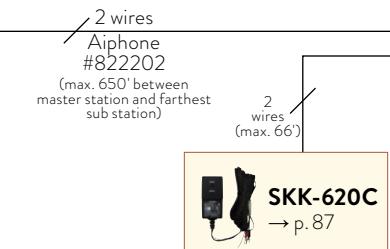
**LEW-10**  
Terminal Box

- Remote terminal box for wire organization to masters mounted on a table or desk

DOOR/SUB 3 x 1 MASTER

# LEM Series Open Voice Intercom

## Door and Sub Stations: mix and match up to 3

LE-D  
→ p. 63LE-SS-1G  
→ p. 63LE-DA  
→ p. 63LE-SS/A  
→ p. 63LE-SSR  
→ p. 63LS-NVP/C  
→ p. 63LE-A  
→ p. 62LE-AN  
→ p. 62LE-B  
→ p. 62LE-BN  
→ p. 62

## Master Stations: select 1



LEM-1



LEM-3

## Accessories

SBX-CON1  
Conduit Box  
for LE-D  
→ p. 82KMB-45  
45° Mullion  
Mounting  
Bracket  
for LE-D  
→ p. 84SBX-1G  
Surface Mount Box  
for LE-SS-1G  
→ p. 83SBX-2G/A  
Surface Mount  
Box for LE-DA,  
LE-SS/A, or LE-SSR  
→ p. 83SBX-NVP/A  
Surface  
Mount Box  
for LS-NVP/C  
→ p. 83

## LEM Series Features and Specifications

LEM-1  
1-Call Audio  
Master Station  
(for applications using  
one door/sub station)LEM-3  
3-Call Audio  
Master Station  
(for applications using two  
or three door/sub stations)

- Voice volume control
- Push-to-talk communication, hands-free at remote station

Power Source 6V DC—use SKK-620C

Consumption 200mA

Output 350mW

Communication Push-to-talk (simplex)

Door Release N/A

Mounting Surface mount directly to wall or desk mount

Wire Type Door Station or Sub Station to Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802

Distance Door Station or Sub Station to Master Station: 650'(22AWG), 1,570'(18AWG)

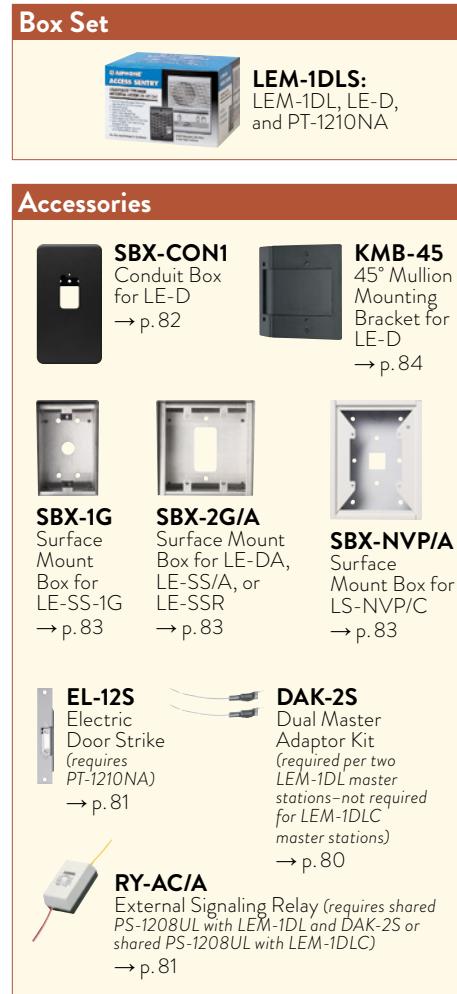
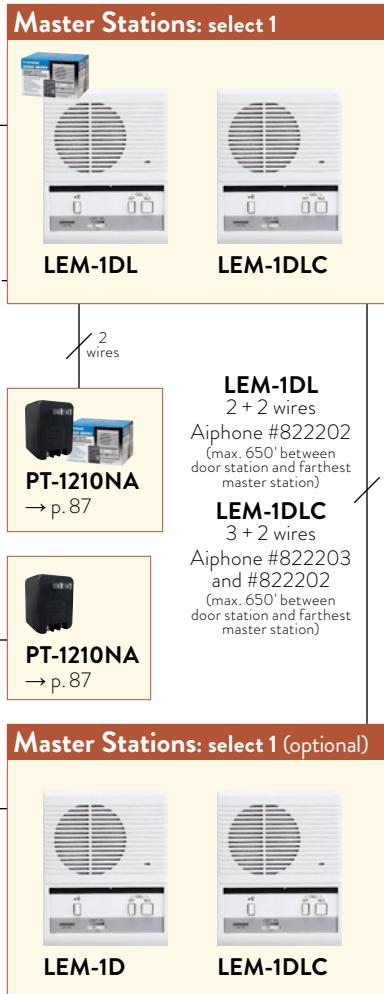
Dimensions LEM-1: 6-5/16" H x 5-3/16" W x 2" D

LEM-3: 7-1/16" H x 5-5/8" W x 2-1/8" D

GET MORE  
INFORMATION  
ON THIS SYSTEM

DOOR  
1 x 4

## LEM-1DL Series Access Sentry Intercom



## LEM-1DL Series Features and Specifications



**LEM-1DL**  
Audio Master Station  
(requires one DAK-2S  
per every two master  
stations in the system)



**DAK-2S**  
Dual Master Adaptor Kit  
→ p. 80

- Door release (N/O contact)
- Calling and two-way communication with door station
- Call tone and voice volume control

**Power Source** 12-16V AC—use PT-1210NA or 12-24V DC—use PS-1208UL

**Consumption** 4W (16V AC) max., 200mA (24V DC) max.

**Output** 100mW

**Communication** Push-to-talk (simplex)

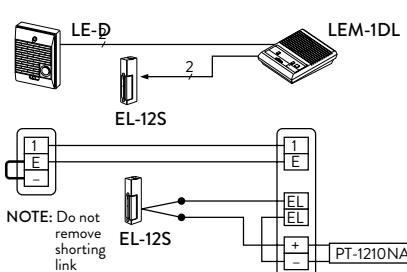
**Door Release** N/O dry contact, 30V AC/DC, 1A

**Mounting** Wall or desk mount

**Wire Type** Door Station to Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802  
Between LEM-1DLCs: 3-cond., overall shield—use Aiphone #822203 or #821803

**Distance** Door Station to farthest Master Station: 650' (22AWG), 1,570' (18AWG)

**Dimensions** 7-1/16" H x 5-5/8" W x 2-1/8" D



GET MORE  
INFORMATION  
ON THIS SYSTEM



DOOR  
2 x 6 MSTR/SUB

## IE-8 Series Chime Tone Intercom



## Door Stations: mix and match up to 2

AX-DM  
→ p.44

IF-DA



IE-JA



IE-SS/A



IE-SSR

## Master Station



IE-8MD

2 wires  
Aiphone  
#822202  
(max. 500')

2 wires

Door Strike  
and Power2 wires  
Aiphone  
#822202  
(max. 33')PT-1210NA  
→ p. 874 wires  
Aiphone  
#822206  
(max. 245' between  
master station  
and farthest sub  
master station)

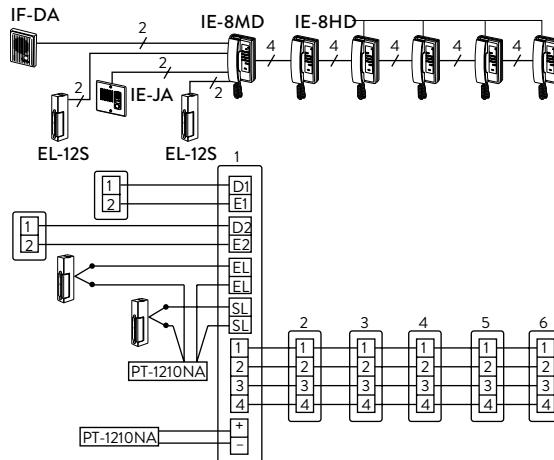
## Sub Master Station: select up to 5 (optional)



IE-8HD

SBX-2G/A  
Surface Mount  
Box for IE-JA,  
IE-SS/A, or IE-SSR  
→ p. 83EL-12S  
Electric Door Strike  
for Wood Frames  
(requires PT-1210NA)  
→ p. 81RY-AC/A  
External  
Signaling  
Relay  
→ p. 81

- Two wires to door stations
- Selective call or all call between handsets
- Simple 4-conductor wiring between handsets
- Two doors with selective door release
- External doorbell can be added
- 12-16V AC or 12-18V DC powered

GET MORE  
INFORMATION  
ON THIS SYSTEM

# IE-8 Series Features and Specifications



**IE-8MD**  
6-Call Audio Master Station with Handset

- Selective Call or All Call between handsets
- Simple 4-conductor wiring between handsets
- Handset for privacy

**Power Source** 12-16V AC—use PT-1210NA or 12-18V DC—use PS-1225UL

**Communication** Handset (full-duplex)

**Door Release** N/O dry contact, 24V AC/DC, 350mA

**Wire Type** Door Station to Master Station: 2-cond., overall shield—use Aiphone #822202

Master Station to Sub Stations: 4-cond., overall shield—use Aiphone #822206

**Distance** Door Station to Master Station: 500'(22AWG) 1,180'(18AWG)

Master Station to farthest Sub Master Station: 245'(22AWG) 580'(18AWG)

**Dimensions** 8-1/4" H x 4-5/16"D x 3-1/8" D



**IE-8HD**  
6-Call Audio Sub Master Station with Handset

- Weather resistant
- Can be used with AX Series, IE-8 Series, or KB Series
- Locator LED beside call button (IF-DA)
- Locator LED above call button (IE-JA)

**Power Source** Supplied by Master Station

**Communication** Hands-free

**Operating Temp** 14°~140°F (-10°~60°C)

**Material** IF-DA: ABS plastic

IE-JA: ABS plastic with stainless steel cover

IE-SS/A, IE-SSR: stainless steel

**Mounting** IF-DA: surface mount directly to wall or 1-gang box/ring

IE-JA, IE-SS/A, IE-SSR: flush mount with 2-gang box/ring or surface mount with SBX-2G/A

**Wire Type** Door Station to Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802

**Distance** Door Station to Master Station: varies by system

**Dimensions** IF-DA: 5-1/8" H x 3-7/8" W x 1-1/8" D

IE-JA: 4-1/2" H x 4-9/16" W x 1-3/16" D

IE-SS/A, IE-SSR: 4-3/4" H x 4-3/4" W

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



**IF-DA**  
Audio Door Station



**IE-JA**  
Audio Door Station

- Weather resistant
- Can be used with AX Series, IE-8 Series, or KB Series
- Vandal resistant
- Moisture and puncture resistant speaker
- 3-layer steel baffle protects speaker from tampering
- Pigtail wires for connection to master station
- Includes tamper proof mounting screws
- Stainless steel, mechanical call button (IE-SS/A)
- Red mushroom call button (IE-SSR)



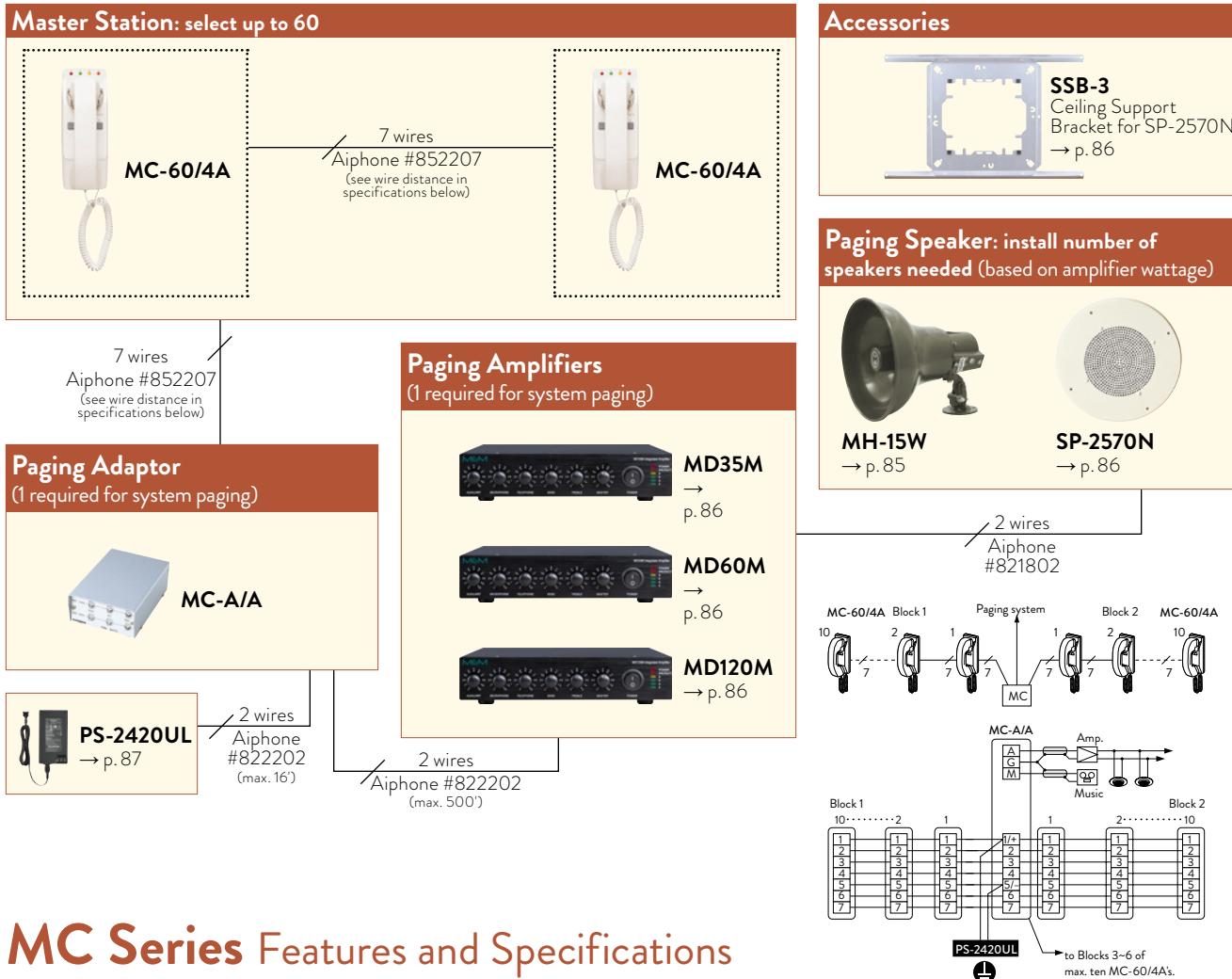
**IE-SS/A**  
Audio Door Station



**IE-SSR**  
Audio Door Station

MASTER x SPEAKER  
60 x 8

## MC Series MarketCom



## MC Series Features and Specifications



**MC-60/4A**  
Audio MarketCom  
Master Station  
with Handset

- Four selective communication channels with LED indicators
- Conference call among three stations
- Easy access page button, music mutes while paging
- Crosstalk reduction circuit
- Reinforced modular coil cord
- Handset for privacy

**NOTE:** Compatible speaker and paging amplifiers are located in the **ACCESSORIES** section (p. 86).



**MC-A/A**  
Paging  
Adaptor

- Separate music and paging controls: bass, treble and volume
- Paging pre-tone volume control
- Connects to standard paging amplifier
- Background music can be included and automatically mutes during page

**Power Source** 24V DC—use PS-2420UL  
**Consumption** 70mA (paging mode)

**Communication** Handset (full-duplex)

**Door Release** N/A

**Mounting** Surface mount  
directly to wall

**Wire Type** 7 wires in loop, non-twisted,  
low capacitance,  
PE insulation—use  
Aiphone #852207

**Distance** Paging Adaptor to  
farthest Master Station on  
block: 1,700' (22AWG)  
4,000' (18AWG)

**Total cumulative wiring**  
between Paging Adaptor  
and Master Station:  
5,000' (22AWG)

**Dimensions** 9-3/16" H x 3-9/16" W  
x 3-11/16" D



GET MORE  
INFORMATION  
ON THIS SYSTEM



# TD-H Series Selective Call Intercom

**Master Stations:** mix and match up to 25 (mix and match up to 25 or mix and match up to 13 if using the maximum of 12 paging adaptors)



**Paging Adaptor:** mix and match up to 12 (counts toward total capacity of 25 stations and requires 1 paging amplifier per paging adaptor)



PD-2

3 wires  
Aiphone #822203

2 wires  
Aiphone #822202

PS-1225UL → p. 87

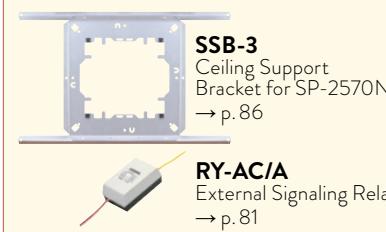
2 wires  
Aiphone #822202

2 wires  
Aiphone #822202

**Paging Amplifiers** (1 required per paging adaptor)

MD35M  
→ p. 86MD60M  
→ p. 86MD120M  
→ p. 86

## Accessories

SSB-3  
Ceiling Support  
Bracket for SP-2570N  
→ p. 86RY-AC/A  
External Signaling Relay  
→ p. 81

**Paging Speaker:** install number of speakers needed (based on amplifier wattage)

MH-15W  
→ p. 85SP-2570N  
→ p. 86

There are many different wiring configurations possible with the TD-H Series. For additional help, contact Aiphone's Technical Support. **800.692.0200**

## TD-H Series Features and Specifications

TD-1H/B  
1-Call  
Audio  
Master  
Station  
with  
HandsetTD-3H/B  
3-Call  
Audio  
Master  
Station  
with  
HandsetTD-6H/B  
6-Call  
Audio  
Master  
Station  
with  
HandsetTD-12H/B  
12-Call  
Audio  
Master  
Station  
with  
HandsetTD-24H/B  
24-Call  
Audio  
Master  
Station  
with  
Handset

- Up to 25 master stations can be installed
- Paging zone(s) with optional talkback
- External signaling device when calling a handset (requires RY-AC/A)

- Multiple talk paths for communication and paging
- Handset cradle for wall mounting can be reversed for desk use
- Station-select break-in call

Power Source 12V DC—use PS-1225UL

Consumption 70mA per station

Communication Handset (full-duplex)

Mounting Desk mount or surface mount directly to wall or 1-gang box

Wire Type TD-1H/B: 6-cond., overall shield—use Aiphone #822206

TD-3H/B, TD-6H/B: 10 cond., overall shield—use Aiphone #822210

TD-12H/B, TD-24H/B: 16 cond., overall shield—use Aiphone #812216 (two runs of 812216 are required for full functionality of the TD-24H/B)

Distance Between Master Stations: 2,000'(22AWG) 4,800'(18AWG)

Dimensions TD-1H/B, TD-3H/B, TD-6H/B, TD-12H/B: 8-1/4" H x 3-15/16" W x 2-7/8"

TD-24H/B: 8-1/4" H x 3-15/16" W x 3-1/4"

PD-2  
Zone Paging/  
Talkback Adaptor

- Provides paging from TD-H handsets to an overhead PA system
- Single or multi-zones, one station capacity per zone
- PAGE button located on TD-H handsets
- Music source connection, automatically mutes when paging

Power Source 12V DC, 48mA (talkback)—supplied by Master Station

Output 5kΩ, 1.5V max.

Paging and Music Controls Treble: 12dB at 10kHz  
Bass: 12dB at 100kHz

Amp. Input AUX or PHONO  
100K-500kΩ, 0.12V-0.5V

Music Input 17kΩ, 0.3V, 1kHz for full output

Tuner Output Audio output range:  
100mV-1.2V, 10kΩ or less

Talkback Gain 40dB, 1kHz at max. volume

Environmental Noise Less than 80dB (phono)

Wire Type Adaptor to Amplifier: 2-cond., overall shield—use Aiphone #822202

Adaptor to Master Station: 3-cond., overall shield—use Aiphone #822203

Dimensions 2" H x 3-9/16" W x 5-7/16" D



GET MORE  
INFORMATION  
ON THIS SYSTEM



**NOTE:** Compatible speaker and paging amplifiers are located in the ACCESSORIES section (p. 86).

1 x 1

## IM Series Security Window Intercom

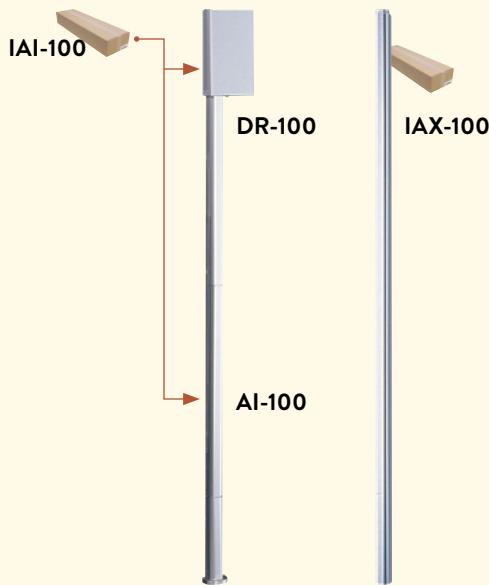
## Box Set

**IM-1**  
Box Set with  
IMU-100, IAI-100,  
IAX-100, IME-100,  
ISE-100, and PS-2420UL



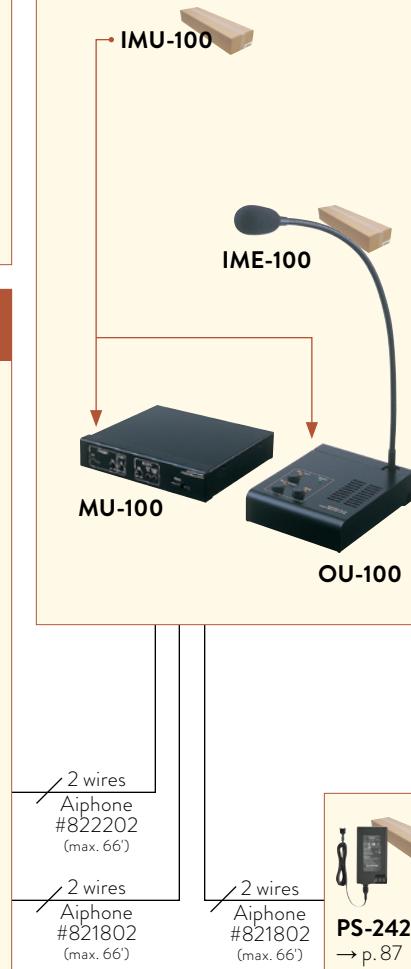
**START with a  
BOX SET**

## Speaker Driver, Acoustic I/O Tube, and Tube Extension



- Inconspicuous unit allows for a clear view of visitors to the ticket/customer window for added visibility and security
- Flexible gooseneck microphone can be adjusted to virtually any position
- 3.5mm headset can be used (not supplied by Aiphone)
- Uses voice-activated communication (VOX) system, requiring no additional operations during conversation
- When the TALK switch is off, the Operation Unit is put on standby, but sound from public side is still heard at reduced volume
- By linking the system to a motion sensor, communication mode is automatically activated when a customer is present

## Control Unit and Operation Unit



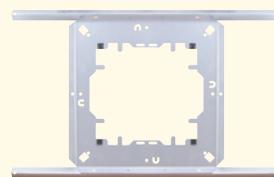
## Accessories



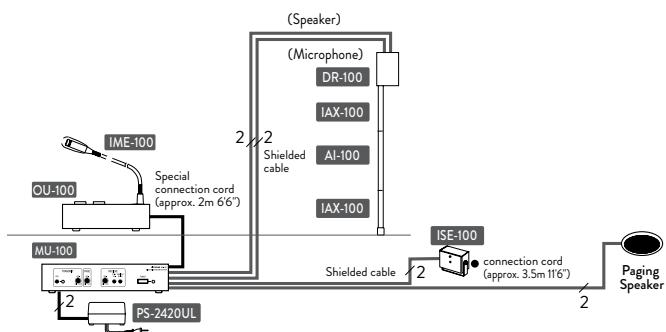
**ISE-100**



**SP-2570N**  
8Ω, 25/70V, 5W  
Ceiling Speaker  
→ p. 86



**SSB-3**  
Ceiling Support  
Bracket for  
SP-2570N  
→ p. 86



GET MORE  
INFORMATION  
ON THIS SYSTEM



# IM Series Features and Specifications



## IAI-100

Speaker Driver and Acoustic I/O Tube Kit (includes DR-100 Speaker Driver and AI-100 Acoustic I/O Tube with noise cancelling microphone.)



## DR-100

Speaker Driver (not sold separately)



## IAX-100

Acoustic Tube Extension (one required per system)

## DR-100:

- Window or ceiling mount
- Indoor or outdoor use
- Access panel for future maintenance

AI-100:

- Optimum acoustic tube location is 12" to 16" from the center of the ticket passthrough
- For smaller windows, acoustic tube may be mounted at the junction of the window and frame
- Noise cancelling microphone
- Mounting rails included

**Power Source** Supplied by Control Unit

**Operating Temp** 14°~140°F (-10°~60°C)

**Acoustic Output** Impedance: 4Ω

Rated Input: 4.5W

Max. Input: 6W

**Microphone** Type: condenser microphone

Directivity: non-directional

Input Sensitivity: -41dB

**Material** IAX-100: aluminum

**Wire Type** Speaker Driver to Control Unit: 2 x 2-cond., overall shield—use Aiphone #822202 or #821802

**Distance** Speaker Driver to Control Unit: 66'(22AWG/18AWG)

**Dimensions** AI-100: 15-1/4" H x 1-1/16" W x 15/16" D

DR-100: 5-7/8" H x 3-5/16" W x 1-7/16" D

IAX-100: 39-3/8" H x 1-1/16" W x 15/16" D

## AI-100

Acoustic I/O Tube (not sold separately)

**NOTE:** Image shown with IAX-100 acoustic tube extension (not included in IAI-100 kit).

## IMU-100

Control and Operation Unit Kit (includes MU-100 Control Unit and OU-100 Operation Unit with supplied connector. IME-100 Gooseneck Microphone sold separately.)



## IME-100

Gooseneck Microphone (sold separately)



## MU-100

Control Unit (not sold separately)



## OU-100

Operation Unit (not sold separately)

**NOTE:** Compatible ceiling speaker is located in the ACCESSORIES section (p. 86).

## MU-100:

- VOX sensitivity adjustment
- VOX operation LED
- Transmit, speaker, receive, and standby volume control
- Ambient noise cancelling control
- Can be desk mounted or mounted under the counter with the supplied bracket
- Rubber feet prevent slipping

## OU-100:

- Volume control switch (hi/lo)
- Socket for optional gooseneck microphone
- Designed for desk mounting
- Can mount up to 6' away from the MU-100 via the supplied connector
- Rubber feet prevent slipping

## IME-100:

- Flexible neck
- Hands-free communication

**Power Source** 24V DC, 120mA standby, 780mA max.—use PS-2420UL

**Operating Temp** 14°~140°F (-10°~60°C)

**Communication** Hands-free (VOX) or push-to-talk (simplex)

Transmit output: 3W 4Ω

Receive output: 1.5W 16Ω

**Headset** Φ3.5mm plug

Rated input: 40mW or more

Max. input: 100mW or more

Impedance: 32Ω

**External Speaker** Rated input: 3W or more—use SP-2570N

Max. input: 6W or more

Impedance: 4 to 8Ω

**IME-100 Mic and Input Sensitivity** Condenser microphone, unidirectional, -46dB

**Wire Type** Speaker Driver to Control Unit: 2 x 2-cond., overall shield—use Aiphone #822202 or #821802

**Distance** Speaker Driver to Control Unit: 66'(22AWG/18AWG)

**Dimensions** IME-100: 20-1/16" H x 9/16" Diameter

MU-100: 1-3/4" H x 8-1/4" W x 8-1/8" D

OU-100: 1-15/16" H x 5-1/8" W x 6-5/16" D



## ISE-100

Proximity Sensor

**Power Source** 24V DC—supplied by MU-100

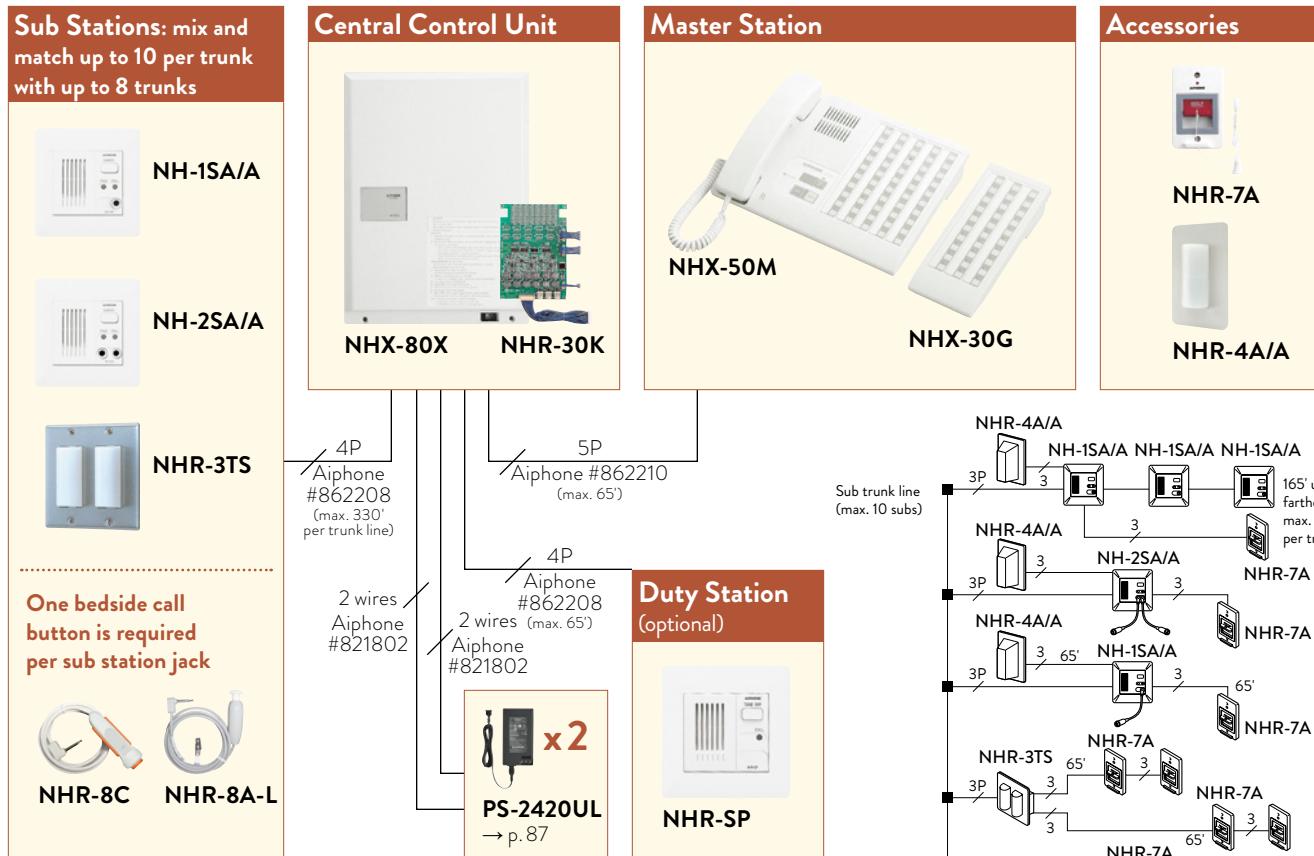
**Material** Aluminum

**Wire** Aiphone #821802

**Dimensions** 2-3/8" H x 2-7/8" W x 1-3/16" D

SUB 80 x 1 x 1

# NHX Series Nurse Call Intercom (UL 1069 Listed)



## NHX Series Features and Specifications



**NHX-80X®**  
Central Control Unit



**NHR-30K®**  
30-Call Add-On Truck Card  
(required for NHX-30G)

### NHX-80X:

- UL 1069 Listed
- Controls system functions with microprocessor
- All wire terminations are made inside with easy "screwless" wire connections

### NHR-30K:

- Provides additional capacity for NHX-30G add-on selector

**Power Source:** 24V DC—use two PS-2420ULs

**Wire Type:** Sub/Duty Station to Central Control Unit: 4 twisted pair, low cap, PE, overall shield—use Aiphone #862208

Master Station to Central Control Unit: 5 twisted pair, low cap, PE, overall shield—use Aiphone #862210

**Distance:** Sub Station to Central Control Unit: 165' (22AWG)

Duty Station to Central Control Unit: 65' (22AWG)

Master Station to Central Control Unit: 65' (22AWG)

**Dimensions:** 18-1/8" H x 13-3/8" W x 3-7/8" D



GET MORE  
INFORMATION  
ON THIS SYSTEM



# NHX Series Features and Specifications



**NHX-50M®**  
50-Call Audio Master Station with Handset

**NHX-30G®**  
30-Call Add-On Selector (requires NHR-30K to be installed into NHX-80X)

## NHX-50M:

- 3 call levels with distinct tone and light signalling for routine, urgent, and cord-out trouble calls
- Auto-connect to next call-in priority (no need to select station)
- Alert tone sounds if power or data wire is interrupted, or if handset is off-hook for more than 90 sec.
- Tone off button

**NHX-30G:**

- Plugs into NHX-50M with supplied connectors
- Expands NHX-50M to an 80-call master station

**Power Source** Supplied by Central Control Unit (NHX-80X)

**Communication** Handset (VOX) or push-to-talk (simplex)

**Call-In Priority** 1) Cord-out trouble call

2) Urgent bathroom call and NHR-3TS common area bathroom/staff call

3) Routine call (sub station call-ins on standby connected according to urgency level and time of call)

**Warning Tones** 1) Line-off trouble alert when station is unplugged (buzzer activated at NHX-50M)–to silence, plug in CN1047 shorting connector inside NHX-80X and call for service

2) 90 sec. elapse timer–call tone goes up to HIGH level

3) 90 sec. off-hook timer–steady tone will notify handset is off-hook

**Wire Type** Master Station to Central Control Unit: 5 twisted pair, low cap, PE, overall shield—use Aiphone #862210

**Distance** Master Station to Central Control Unit: 65'(22AWG)

**Dimensions** NHX-50M: 8-1/4" H x 11" W x 3-11/16" D  
NHX-30G: 8-1/4" H x 3-9/16" W x 2-5/16" D



**NH-1SA/A®**  
Single-Jack Bedside Audio Sub Station



**NH-2SA/A®**  
Dual-Jack Bedside Audio Sub Station

## NH-1SA/A, NH-2SA/A:

- Bedside sub station for calling and communication
- Single-jack (NH-1SA/A) and dual-jack (NH-2SA/A) for NHR-8C bedside call button(s)
- Hands-free communication
- Flush mount with standard 2-gang box

## NHR-SP:

- Alerts staff when a master station receives a call (urgent calls override routine calls)
- Acknowledges any station call with tone and blinking LED (use NHX-50M to identify caller or to answer call)
- Ideal for break rooms, hallways, or locations without a master station
- Flush mount with standard 2-gang box

## NHR-3TS:

- Provides call from common area, restrooms, or staff location
- Allows NHR-7A pull cord to be used without the need for a bedside sub station
- Two corridor lights indicate call location
- Wires the same as a bedside sub station
- Flush mount with standard 2-gang box
- Stainless steel cover

**Power Source** Supplied by Central Control Unit (NHX-80X)

**Wire Type** Sub Station or Duty Station to Central Control Unit: 4 twisted pair, low cap, PE, overall shield—use Aiphone #862208

**Distance** Sub Station to Central Control Unit: 165'(22AWG)

Duty Station to Central Control Unit: 65'(22AWG)

**Dimensions** NH-1SA/A, NH-2SA/A, NHR-SP: 4-3/4" H x 4-9/16" W x 1-13/16" D

NHR-3TS: 4-3/4" H x 4-9/16" W x 2-7/8" D



**NHR-SP®**  
Audio Duty Station



**NHR-3TS®**  
Dual Corridor Light Sub Station (Required for NHR-7A if NH-1SA/A or NH-2SA/A are not used)



**NHR-8C®**  
Bedside Call Button



**NHR-8A-L**  
Latching Bedside Call Button (not UL 1069 Listed)

- Button activates routine call at master
- Cord-out activates urgent call at master



**NHR-7A®**  
Urgent Call Pull Cord



**NHR-4A/A®**  
LED Corridor Light (red and amber LEDs)

## NHR-7A:

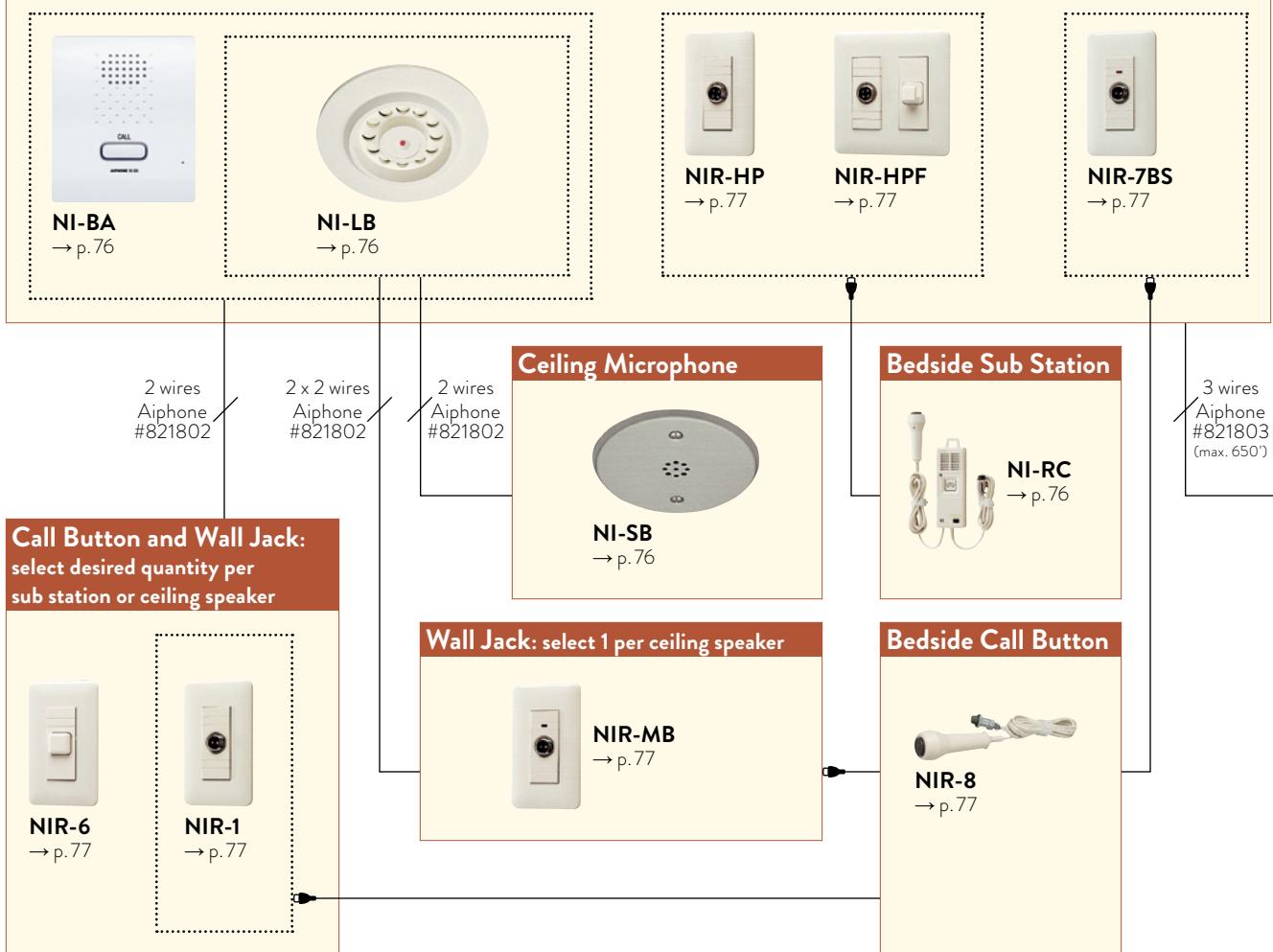
- Latching call switch
- Waterproof for bathroom areas
- Durable and strong nylon pull cord with pendant
- Can be used without cord as urgent call station (with NHR-3TS)
- LED “call placed” indicator
- Flush mount with standard 1-gang box

## NHR-4A/A:

- Amber lamp for bedside call, red lamp for bathroom call
- Easy wiring to bedside sub station
- Flush mount with standard 1-gang box

DOOR/SUB/SPEAKER/JACK  
20 or 40 x 1MASTER  
**NIM Series** Lamp Tone Intercom

Sub Station, Ceiling Speaker, and Wall Jacks: mix and match up to 20 or 40 (based on master station selection)



- Master stations available in 20 and 40-call sizes
- Built-in All Call, Selective Call, and Group Call
- Push-to-talk at master or use handset
- Group Call up to five subs at a time
- Incoming calls remain lit until answered (max. 10)
- Separate transmit and receive volume controls
- Adjustable ring tone (melody or chime)
- Automatic ringtone volume level (increases after 90 seconds)
- Optional software for call event logging (NI-SOFT)

**NOTE:** If your application requires product to be UL 1069  
Listed for hospital signaling and skilled nursing  
facilities, please see the NHX Series on p. 72.

GET MORE  
INFORMATION  
ON THIS SYSTEM

**Master Stations: select 1**

**NIM-20B**  
→ p. 76



**NIM-40B**  
→ p. 76

2 wires  
Aiphone  
#821802  
(max. 33')



**IS-PU-UL**  
→ p. 87

There are many different wiring configurations possible with the NIM Series. For additional help, contact Aiphone's Technical Support.

**800.692.0200**

**Accessories**

**NIR-2**  
Call Reset  
Button  
→ p. 77



**NIR-4**  
Single Room  
Corridor Call Light  
→ p. 77



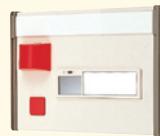
**NIR-4S**  
Multi-Room  
Corridor  
Call Light  
→ p. 77



**NIR-4BZ**  
Corridor Light with  
Tone Indicator  
→ p. 77



**NIR-42**  
Corridor Light with  
Call Reset Button  
→ p. 77



**NIR-31**  
Corridor Light with One  
Magnetic Nameplate  
→ p. 77



**NIR-32**  
Corridor Light with Two  
Magnetic Nameplates  
→ p. 77



**NIR-34**  
Corridor Light with Four  
Magnetic Nameplates  
→ p. 77



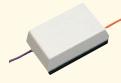
**NI-SOFT**  
Call Event Log  
PC Software  
(includes RS-232  
cable, approx. 40")  
→ p. 77



**IER-2**  
Call Extension  
Speaker  
→ p. 81



**NIR-7HW**  
Bathroom Call  
Button with  
Pull Cord  
→ p. 77



**RY-ES**  
External Signaling Relay  
→ p. 81



**NIM-20B**  
20-Call Audio Master  
Station with Handset

- Supports up to 20 or 40 door stations, sub stations, ceiling speakers, and wall jacks
- Selective Call, Group Call, and All Call
- Volume controls
- Handset for privacy



**NIM-40B**  
40-Call Audio Master  
Station with Handset

**Power Source** 48V DC—use IS-PU-UL  
**Communication** Handset (VOX) or push-to-talk (simplex)

**Door Release** N/A

**Material** Panel: fire resistant ABS plastic  
Chassis: SPCC

**Wire Type** Door Station, Sub Station, Ceiling Speaker, or Wall Jack to Master Station: 3 cond. overall shield—use Aiphone #821803

**Distance** Door Station or Sub Station to Master Station: 650'(18AWG)

**Power Supply to Master Station:** 33'(18AWG)  
**Dimensions** NIM-20B: 9-1/16" H x 13" W x 5-1/2" D  
NIM-40B: 9-1/16" H x 18-7/8" W x 5-1/2" D



**NI-BA**  
Audio Sub Station



**NI-RC**  
Bedside Sub Station

**Power Source** Supplied by Master Station

**Communication** Hands-free

**Material** Plastic

**Mounting** NI-BA: surface mount directly to wall or desk mount

NI-RC: hang from hook on NIR-HPF

**Wire Type** Sub Station to Master Station: 3 cond. overall shield—use Aiphone #821803

**Distance** Sub Station to Master Station: 650'(18AWG)

**Dimensions** NI-BA: 5-7/8" H x 5-1/8" W x 1-5/16" D  
NI-RC: 6-3/4" H x 2-3/16" W x 1-1/8" D



**NI-LB**  
Ceiling Speaker with  
LED Call Indicator  
(use NI-SB or NIR-MB  
for hands-free reply)



**NI-SB**  
Ceiling Microphone  
(for use with NI-LB)

**Power Source** Supplied by Master Station

**Communication** NI-LB: hands-free (receive)

NI-SB: hands-free (transmit)

**Material** NI-LB: ABS plastic

NI-SB: stainless steel

**Mounting** Ceiling flush mount

**Wire Type** Ceiling Speaker to Master Station: 3 cond. overall shield—use Aiphone #821803

NIR-MB to Ceiling Speaker: 4-cond. overall shield—use two runs of #821802

**Dimensions** NI-LB: 7-1/16" Diameter (9/16" Depth projection from surface)

NI-SB: 4-18" Diameter (3/16" Depth projection from surface)

# NIM Series Features and Specifications



**NIR-6**  
Call Button  
(use with NI-BA or NI-LB only)



**NIR-1**  
Wall Jack  
for NIR-8  
(use with NI-BA or NI-LB only)



**NIR-MB**  
Wall Jack with  
Mic for NIR-8  
(can be used in  
place of NI-SB)



**NIR-7BS**  
Wall Jack  
with LED  
Call Indicator  
for NIR-8



**NIR-8**  
Bedside Call Button  
(requires NIR-1, NIR-MB, or NIR-7BS)



**NIR-HP**  
Wall Jack for  
NI-RC



**NIR-HPF**  
Wall Jack with  
Hook for NI-RC

**Power Source** Supplied by Master Station

**Material** Fire resistant ABS plastic

**Mounting** NIR-1, NIR-6, NIR-MB, NIR-7BS, NIR-HP: flush mount with 1-gang box  
NIR-HPF: flush mount with 2-gang box

**Wire Type** Variable wire types—refer to installation manual

NIR-1: 4-3/4" H x 2-3/4" W x 1-5/8" D

NIR-6: 4-3/4" x 2-3/4" W x 1-7/8" D

NIR-7BS, NIR-MB: 4-3/4" H x 2-3/4" W x 2-7/16" D

NIR-8: 3-3/4" H x 1-7/16" Diameter

NIR-HP: 4-3/4" H x 2-3/4" W x 1-5/8" D

NIR-HPF: 4-3/4" H x 4-9/16" W x 2-1/16" D



**NIR-2**  
Call Reset Button



**NIR-4**  
Single Room  
Corridor Call Light



**NIR-4S**  
Multi-Room  
Corridor Call Light



**NIR-4BZ**  
Corridor Light  
with Tone  
Indicator



**NIR-42**  
Corridor Light  
with Call Reset  
Button



**NIR-31**  
Corridor Light with  
One Magnetic  
Nameplate

**Power Source** Supplied by Master Station

**Material** Fire resistant ABS plastic

**Mounting** NIR-2, NIR-4, NIR-4S, NIR-7HW: flush mount with 1-gang box  
NIR-4BZ, NIR-42: flush mount with 2-gang box  
NIR-31, NIR-32, NIR-34: surface mount directly to wall

**Wire Type** Variable wire types—refer to installation manual

**Dimensions** NIR-2: 4-3/4" H x 2-3/4" W x 1-1/2" D

NIR-4, NIR-4S: 4-3/4" H x 2-3/4" W x 1-1/8" D

NIR-4BZ: 4-3/4" H x 4-9/16" W x 3-5/16" D

NIR-42: 4-3/4" H x 4-9/16" W x 2-1/16" D

NIR-31, NIR-32: 5-11/16" H x 7-1/2" W x 1-9/16" D

NIR-34: 5-11/16" H x 12-1/16" W x 1-9/16" D

NIR-2: 4-3/4" H x 2-3/4" W x 1" D



**NIR-32**  
Corridor Light  
with Two Magnetic  
Nameplates



**NIR-34**  
Corridor Light with Four  
Magnetic Nameplates



**NIR-7HW**  
Bathroom Call Button  
with Pull Cord



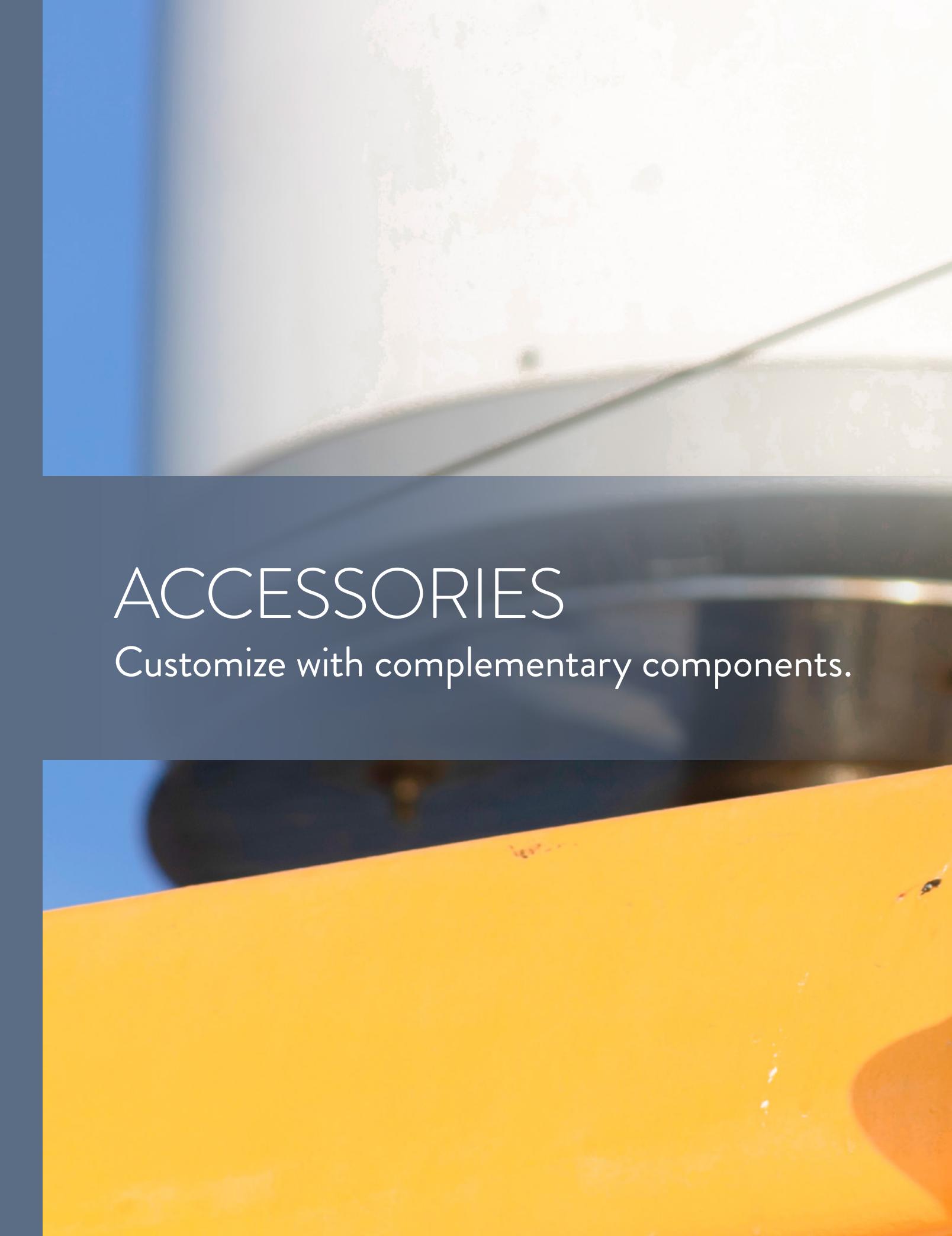
**NI-SOFT**  
Call Event Log PC Software  
(includes RS-232 cable, approx. 40")

**Software** OS: Windows® 7 (32/64 bit), Windows® 8 (32/64 bit), Windows® 10

Processor: 3GHz or faster

Memory: 2GB of RAM

Hard Drive: 100MB or more



# ACCESSORIES

Customize with complementary components.



# Accessories Features and Specifications



## IPW-1VC

2-Wire Network Adaptor Kit  
(includes one transmitter, one receiver, and power supply)

- Upgrade 2-wire analog systems to an IP video intercom
- Use existing wire—up to 1,000' (18–22AWG shielded or unshielded)
- Compact design is small enough to fit behind most door or sub stations
- LED status indicators



## IPW-10VC

Rack Mount 2-Wire Network Adaptor Kit

Power Source IPW-1VC: 48V DC, 1A—use included power supply  
IPW-10VC: supplied by IPW-1VC

Consumption <2 Watts

Operating Temp -4°~140°F (-20°~60°C)

Mounting Supplied mounting bracket

Wire Type Network Adaptor to Network Node: Cat-5e or Cat-6  
Between Network Adaptors: existing 2 cond., shielded or non-shielded

Distance Network Adaptor to Network Node: 15

Between Network Adaptors: 1,000' (22AWG, 18AWG)

Dimensions IPW-1VC: 1-7/16" H x 3" W x 1-1/8" D  
IPW-10VC: 1-3/4" H x 19" W x 11" D



## IPW-POE8

8-Port PoE+ Switch

- Eight 10/100/1000 BASE-T PoE ports
- 64W PoE power budget
- Supports both IEEE 802.3af and 802.3at PoE on all eight ports
- Quiet, fanless design
- Web interface for management

Power Source 100–240V AC, 54V, 1.574A DC

Consumption 4.6W (PoE off), 77.9W (PoE on)

PoE Ports 8

PoE Power Budget 64W

Auto MDI/MDIX Yes

Switching Capacity 16Gbps

Packet Forwarding Rate 11.9Mbps

Packet Buffer Size 1.5Mbits

Operating Temp 32°~104°F (0°~40°C)

Dimensions 1-1/8" H x 6-3/4" W x 3-7/8" D



## DAK-2S

Dual Master Adaptor Kit for C-123L/A and LEM-1DL Systems

- Allows second master station to be used in C-123L/A and LEM-1DL systems
- Allows RY-AC/A to be used for external signaling in C-123L/A and LEM-1DL systems
- Two component modules per kit
- Included with the C-123LW set and C-ML/A master station

# Accessories Features and Specifications



## RY-AC/A

External Signaling Relay for C-123L/A Set, C-123LW Set, IE-8 Series, LEF Series, LEM Series, LEM-1DL Series, or TD-H Series (requires DAK-2S when used with C-123L/A Set, C-123LW Set, LEM Series, or LEM-1DL Series)

- Allows an external device to be triggered when the intercom is called
- External device will be activated momentarily as long as the call button on the door station is activated

Power Source RY-AC/A: 12V DC—supplied by Master Station

RY-ES: 12-24V DC, 12-16V AC—supplied by Master Station

Contact Rating RY-AC/A: 240V AC, 0.3A, 24V DC, 1A (bell, buzzer, or chime must be AC operated or DC mechanical type only)

RY-ES: 125V AC, 1.0A 30V DC, 1.0A

Dimensions 4-1/8" H x 2-7/16" W x 1-5/8" D



## RY-ES

External Signaling Relay for AX Series, DB Series, JF Series, JO Series, JP Series, JV Series, KB Series, or NIM Series

- Allows an external device to be triggered when the intercom is called
- External device will be activated when the door station calls in



## IER-2

Call Extension Speaker for AX Series, DB Series, JO Series, JP Series, JV Series, KB Series, or NIM Series

- Announces chime tone only
- Adjustable volume (three positions)
- Indoor mounting

Material ABS plastic

Mounting Surface mount directly to wall or 1-gang box

Wire Type Single pair of wires, non-polarized

Dimensions 4-3/4" H x 3-7/16" W x 1-1/8" D



## EL-12S

Electric Door Strike for Wood Frames (requires PT-1210NA unless used with DA or DB Series)

- Controlled by N/O contact or voltage output
- Includes both flush mount plate (comes attached) and surface mount plate

Power Source 12V AC/DC, 125mA (AC) 200mA (DC)—use PT-1210NA

Rated Resistance DC 60Ω

Break-In Resistance 4,000 N

Operating Temp 5°~140°F (-15°~60°C)

Material Jaw/Body: zinc die cast

Plate: steel

Dimensions 4-1/8" H x 13/16" W x 1-1/8" D



## RY-3DL

Selective Door Release Adaptor for JP Series or KB Series

- Selective door release with one button
- Door release contacts release the door where communication is established
- Normally open (N/O) contacts for electric strike
- Normally closed (N/C) contacts for magnetic locks

Power Source Shared with Master Station—PS-2420UL

Contact Rating Three Form C dry contacts, 50V AC, 1A 30V DC, 1A

Distance Master Station to Door Release Adaptor: 165'(22AWG) 330'(18AWG)

Dimensions 5-1/2" H x 3" W x 1-1/2" D



## RY-1824L

Form C Door Release Relay for AX Series, JO Series, JP Series, JV Series, or KB Series

- Normally open (N/O) contact with high current rating for door strikes
- Normally closed (N/C) contact with high current for magnetic locks
- Use with any 18-24V system that requires door release

Power Source Supplied by Master Station or CEU

Relay Input 18-24V DC, red and black wires, 22AWG

Relay Output Brown, yellow, and orange wires, 18AWG

Output Rating 30V DC, 5A 250V AC, 8A

Wire Type 2-cond. to door release and 2-cond. to strike with power for strike wired in system

Dimensions 1-7/16" H x 13/16" W x 7/16" D (with wires extending approximately 7-1/2")

# Accessories Features and Specifications



## SBX-CON1

Conduit Box for IF-DA, IX-EA, IX-DV, IX-DVM, JO-DA, JO-DV, JP-DA, JP-DV, JV-DV, KB-DAR, KB-DAR-M, or LE-D

- Compatible with most Aiphone surface mounted door stations
- Drilled attachment holes for different standard mounting boxes, including 1- and 2-gang
- Conduit knockout at the base
- Tamper-resistant screw at the top
- Matte black coloring

Material Front box: mild steel

Back plate: stainless steel

Mounting Surface mount to 1- or 2-gang box

Dimensions 11" H x 6" W x 2" D



## SBX-ACE

Surface Mount Box for AX-DM, GT-D, IF-DA, JO-DA, JP-DA, KB-DAR, or KB-DAR-M and one Access Control Device

- Vandal resistant
- Hood provides weather resistance
- Includes blank stainless steel cover for wide range of mounting options
- Openings at bottom allow for moisture drainage

Material SBX-ACE, SBX-DVF-P, SBX-IDVF, SBX-IDVFRA: 18GA stainless steel

SBX-DVF, SBX-AXDVF: 16GA stainless steel (outer layer), 18GA stainless steel (inner layer)

Mounting Surface mount directly to wall, 1-gang box, or 2-gang box with included hardware (8 x 32 with T-15 Torx head)

Dimensions SBX-ACE: 7-1/16" H x 9-1/8" W x 4-1/4" D (top); 1-5/8" D (bottom)  
SBX-DVF: 8-5/16" H x 5-1/2" W x 3-3/16" D (top); 2-5/16" D (bottom)  
SBX-AXDVF: 9-3/4" H x 5-7/8" W x 2-13/16" D (top); 1-15/16" D (bottom)

SBX-DVF-P: 11-11/16" H x 5-15/16" W x 2-13/16" D (top); 1-13/16" D (bottom)

SBX-IDVF: 10-7/16" H x 5-15/16" W x 3-5/16" D (top); 2-5/16" D (bottom)

SBX-IDVFRA: 11-11/16" H x 7" W x 3-5/16" D (top); 2-5/16" D (bottom)



## SBX-DVF

Surface Mount Box for JO-DVF or JP-DVF

- Hood provides weather resistance
- Includes space inside for wiring
- Mounts directly to wall
- Openings at bottom allow for moisture drainage



## SBX-DVF-P

Surface Mount Box for AX-DVF-P

## SBX-IDVF

Surface Mount Box for IX-DVF or IX-SSA



## SBX-IDVFRA

Surface Mount Box for IX-DVF-2RA, IX-DVF-2RA-FR, IX-DVF-L, IX-DVF-PR, IX-DVF-RA, IX-DVF-RA-FR, IX-SSA-2RA, IX-SSA-2RA-FR, IX-SSA-RA, or IX-SSA-RA-FR

# Accessories Features and Specifications



## SBX-IXGDM7

Surface Mount Back Box for IX-DVF-4A, IX-DVF-6, or IXG-DM7-HIDA

- 1-gang and 2-gang mounting hole patterns
- One conduit knockout at bottom
- Built-in rain hood

Material SBX-IXGDM7, SBX-1G, SBX-2G/A: 18GA stainless steel

SBX-NVP/A: 1/8" rolled steel

Mounting SBX-IXGDM7: surface mount directly to wall, 1-gang box, or 2-gang box with included hardware (8 x 32 with T-15 Torx head)

SBX-1G, SBX-2G/A, SBX-NVP/A: surface mount directly to wall or 1-gang box with included hardware (8 x 32 with T-15 Torx head)

Dimensions SBX-IXGDM7: 13-3/4" H x 7-5/16" W x 3-1/16" D (top); 2-1/4" D (bottom)

SBX-1G: 4-9/16" H x 2-15/16" W x 2-15/16" D (top); 2" D (bottom)

SBX-2G/A: 4-13/16" H x 4-7/8" W x 4" D (top); 3-9/16" D (bottom)

SBX-NVP/A: 8-5/5" H x 6-5/8" W x 2-3/4" D



## SBX-1G

Surface Mount Box for LE-SS-1G

- Weather resistant
- Includes space inside for wiring
- Mounts directly to wall surface



## SBX-2G/A

Surface Mount Box for IE-JA, IE-SS/A, IE-SSR, IX-SS-2G, LE-DA, LE-SS/A, or LE-SSR

- Weather resistant
- Includes space inside for wiring
- Mounts to 1-gang box or ring
- Can mount directly to wall surface
- Includes hardware for mounting intercom



## SBX-NVP/A

Surface Mount Box for IX-NVP, IX-NVP2, or LS-NVP/C

- Weather resistant
- Includes space inside for wiring
- Mounts to 1-gang box or ring
- Can mount directly to wall surface
- Powder-coated white baked epoxy finish

# Accessories Features and Specifications

**KAW-D**

30° Angle Box for  
IF-DA, JO-DA, JP-DA,  
KB-DAR, or KB-DAR-M

- Provides a better viewing angle for the camera
- Compatible with Aiphone 1-gang surface mount door stations
- Angles 1-gang door stations outward by 30°
- Can mount to either right or left of door
- Hinged cover for mounting door station

Material ABS plastic

Mounting Surface mount directly to wall or 1-gang box

Dimensions 5-9/16" H x 4-1/8" W x 2-3/8" D

**SBX-AXDV30**  
30° Angle Box for AX-DV**SBX-DV30**  
30° Angle Box for  
JO-DV, JP-DV,  
or JP-DV

- Provides a better viewing angle for the camera
- Designed for angle mounting door stations outward by 30°
- Applicable for wide or double door entrances

Material SBX-IXDV30: 16GA stainless steel

SBX-DV30, SBX-AXDV30: 18GA stainless steel

Mounting Surface mount directly to wall or 1-gang box

Dimensions SBX-AXDV30: 7-11/16" H x 3-7/8" x 2-7/8" D

SBX-DV30: 6-13/16" H x 3-5/8" x 2-7/8" D

SBX-IXDV30: 8-1/4" H x 4-1/8" x 2-15/16" D

**SBX-IXDV30**  
30° Angle Box for IX-DV**IX-MB**  
Mullion Mounting  
Bracket for IX-DV**JK-MB**  
Mullion Mounting  
Bracket for  
JO-DV, JP-DV,  
JK-DV

- Mounts compatible station to a door frame or mullion
- Designed to fit station precisely and conceals wiring inside
- Can mount to either right or left of door

Material Aluminum

Mounting Surface mount directly to mullion or 1-gang box

Dimensions IX-MV: 8-1/8" H x 4-1/2" W x 1/2" D

JK-MB: 6-13/16" H x 3-7/8" W x 3/16" D

**KMB-45**  
45° Mullion Mounting Bracket for  
C-D, GT-D, IF-DA, JO-DA, JP-DA,  
KB-DAR, KB-DAR-M, or LE-D

- Compatible with Aiphone 1-gang surface mount door stations
- Mounts door stations to mullion with a 45° angle
- Can mount to either right or left of door
- Provides a better viewing angle for the camera

Material Aluminum

Mounting Surface mount directly to side of mullion

Dimensions 5-1/2" H x 5-1/2" W x 1-3/4" D

# Accessories Features and Specifications



## MB-RF1

Retrofit Mounting Bracket for IX-DVF-2RA, IX-DVF-4A, IX-DVF-6, IX-DVF-HW, IX-DVF-L, IX-DVF-RA, IX-SSA-2RA, or IX-SSA-RA  
(adapts station to an existing Code Blue® or Talk-A-Phone® tower or wall box)

- Adapts IX Series emergency stations to existing Code Blue® or Talk-A-Phone® towers or wall boxes
- Powder-coated exterior

Material 18GA CRS

Mounting Surface mount directly to tower or wall box

Dimensions 11-3/4" H x 8-1/2" W x 1-1/4" D



## MCW-S/B

Desk Stand for AX-8M, AX-8MV, AX-8MV-W, DB-1MD, DB-1SD, GT-1A, GT-1C7, GT-1C7-L, GT-1M3, IXG-2C7, IXG-2C7-L, JO-1FD, JO-1MDW, JV-1FD, JV-1MD, JP-4HD, JP-4MED, KB-3HRD, or KB-3MRD

- Allows desk mounting of master and/or handset station
- Mounting hardware included
- Station is propped up for easier viewing
- Pre-drilled mounting holes
- Constructed with sturdy ABS plastic
- Adjustable to 45° or 60° angles

Material ABS plastic

Dimensions 6-1/2" H x 6-1/2" W x 8" D



## MKW-P

1-Gang Mounting Plate for JO-DV, JP-DV, or JK-DV

- Hardware included
- Adapts the JO-DV and JP-DV surface mount door stations to a standard 1-gang box or ring

Dimensions 7" H x 4" W x 3/8" D



## MH-15W

Multi-Tap Horn Speaker

- Weatherproof and waterproof paging horn speaker for indoor and outdoor use
- Lightweight all-aluminum construction
- Wide frequency response
- External adjustable power taps
- Can be used with intercom systems for two-way communication that require an 8Ω direct tap
- Built-in transformer for 25/70/100V systems
- Mounts directly to a flat surface and can be adjusted to the desired angle

Power Capacity 15W max.

Impedance 5.0K, 2.5K, 1.3K, 670, 330, 90, 8Ω

Sensitivity 120dB (measured at 1 meter on axis with 15W input)

Frequency Response 375Hz-14kHz

Materials Body: spun aluminum

Driver Housing: die-cast aluminum

Dimensions 9" H x 9" W x 9-3/8" D

# Accessories Features and Specifications



**SP-2570N**  
Ceiling Speaker

- Indoor use
- Can be used with any Aiphone system that has paging ability (see specifications for requirements)
- Ceiling flush mount
- 8" Dual cone speaker with 12-7/8" White baffle
- Excellent sound and voice reproduction
- Easy installation in a drop tile ceiling using the SSB-3

Power Capacity	8W RMS
Impedance	8Ω direct or 25/70V transformer
Frequency Response	65Hz-17kHz
Wattage Taps	25V: 0.325W, 0.625W, 1.25W, 2.5W, and 5W 70V: 0.312W, 0.625W, 1.25W, 2.5W, and 5W
Dimensions	8" Diameter (speaker); 12-7/8" diameter (baffle)



**SSB-3**  
Ceiling Support Bracket for SP-2570N

- Optional ceiling support bracket for installations in drop tile ceilings

Material Rust resistant steel  
Dimensions 14-5/8" H x 23-3/4" W x 9/16" D



**MD35M®**  
35W Paging Amplifier

- Can be used with any Aiphone system with paging ability (see specifications for requirements)
- Three channel inputs
- Wide frequency response with very low distortion
- Balanced microphone input
- Phantom power on mic input with selector
- Balanced telephone paging input
- VoIP telephone paging input
- Tel and mic VOX sensitivity control
- Auxiliary input with stereo summing
- Auxiliary input gain
- Independent input controls (bass and treble)
- Direct muting or unmuting
- 12V accessory power output
- 600Ω or 10K (VoIP) MOH output with separate output level control
- 8Ω, 25V, and 70V output impedance
- Rack mounting with optional kits

Power Source	120V AC, 50-60Hz
Output	35/60/120W RMS
Input	Microphone: 250Ω balanced Telephone: 600Ω balanced Auxiliary: 47kΩ VoIP: 50kΩ unbalanced
Distortion	Less than 0.5% THD
Frequency Response	20Hz-20kHz ± 2dB
Dimensions	1-3/4" H x 8-1/2" W x 12-1/2" D



**MD60M®**  
60W Paging Amplifier



**MD120M®**  
120W Paging Amplifier

# Accessories Features and Specifications



**SKK-620C®**  
6V DC, 200mA Power Supply  
for AT-406 Series, C-123L/A Set,  
C-123LW Set, or LEM Series

Cord Length 12'  
Ground Wire Length 1'  
Input 120V AC, 60Hz  
Output 6V DC, 200mA  
Dimensions 2-3/4" H x 2-1/8" W x 1-5/16" D



**PS-1225UL®**  
12V DC, 2.5A Power Supply for  
LEF Series with All Call or TD-H Series  
(required for the LEF Series if using  
BG-10C, otherwise use PS-1208UL)



**PS-1208UL®**  
12V DC, 800mA  
Power Supply for LEF  
Series without All Call

Cord Length 6'2"  
Input 100-240V AC, 50/60Hz  
Output PS-1225UL: 12V DC, 2.5A  
PS-1208UL: 12V DC, 800mA  
Consumption 37W, 65-82VA  
Dimensions 6-9/16" H x 3-9/16" W x 2-1/16" D



**PS-1820UL®**  
18V DC, 2A  
Power Supply  
for JO Series

Cord Length 6'2"  
Input 100-240V AC, 50/60Hz  
Output 18V DC, 2A  
Consumption 45W, 75-95VA  
Dimensions 6-9/16" H x 3-9/16" W x 2-1/16" D



**PS-2420UL®**  
24V DC, 2A Power Supply for  
AX Series, GT Series, IM Series, IX  
Series, JP Series, JV Series, KB Series,  
MC Series, NHX Series, or the Beacon  
for Emergency Wall Boxes and Towers

Cord Length 6'2"  
Input 100-240V AC, 50/60Hz  
Output 24V DC, 2A  
Consumption 60W, 100-125VA  
Dimensions 6-9/16" H x 3-9/16" W x 2-1/16" D



**IS-PU-UL®**  
48V DC, 2A  
Power Supply  
for NIM Series

Cord Length 5'10"  
Input 100-240V AC, 50/60Hz  
Output 48V DC, 2.1A  
Consumption 120W  
Dimensions 10-7/16" H x 5-1/8" W x 3-1/16" D



**PT-1210NA**  
12V AC Transformer for CCS-1A  
Set, EL-12S, IE-8 Series,  
or LEM-1DL Series

Input 120V AC, 60Hz  
Output 12V AC, 10VA, 830mA  
Consumption 15W  
Dimensions 2-7/8" H x 1-15/16" W x 1-11/16" D



**PT-1211CA**  
15V AC Transformer  
for DA-1DS, DA-4DS,  
or DB Series

Input 120V AC, 60Hz  
Output 15V AC, 10VA, 700mA  
Consumption 10.5W  
Dimensions 2-15/16" H x 2-3/8" W x 1-7/8" D

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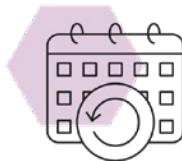
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