



2025 CATALOG



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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.

C O N T E N T S

■ ACCESS CONTROL

AC Series

Access Control System with Intercom Integration 6

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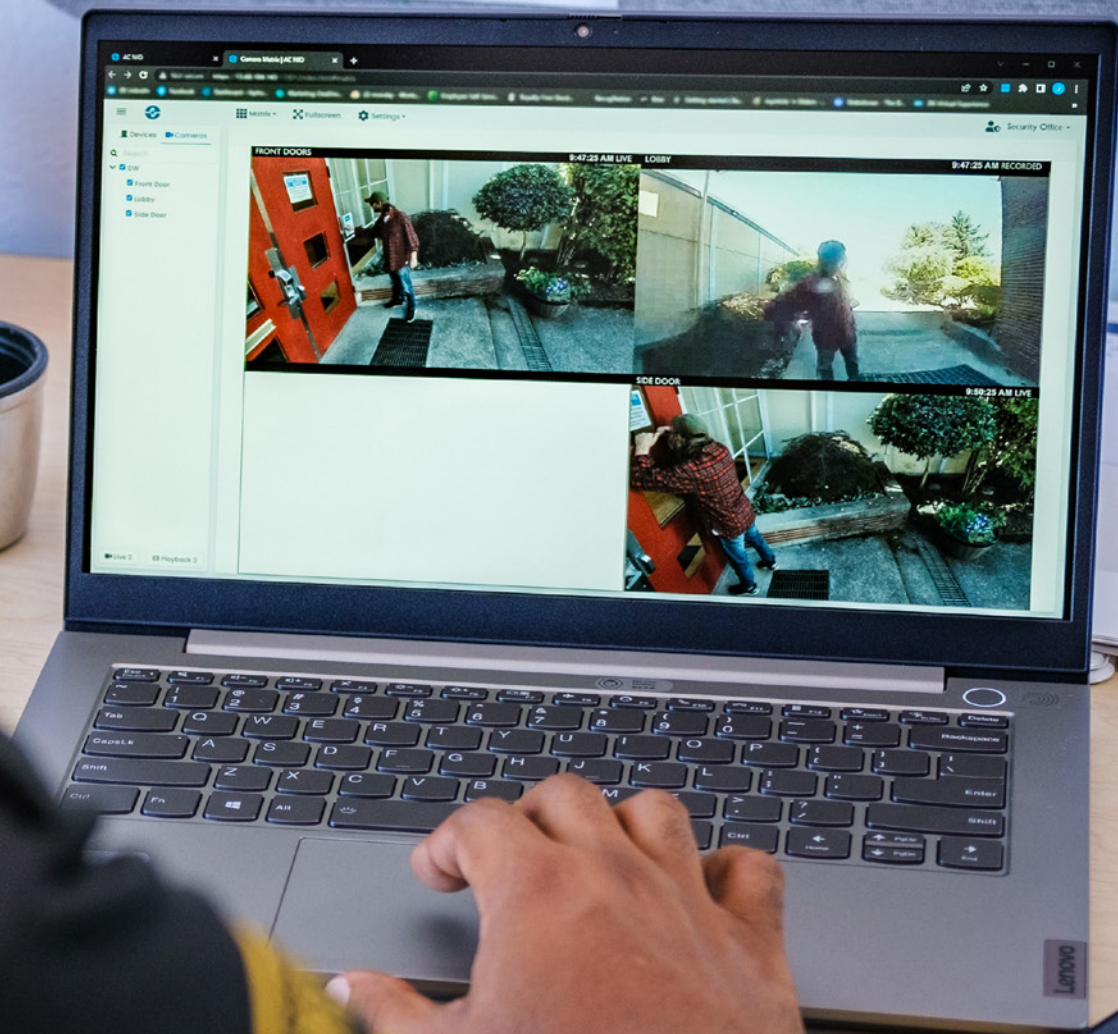
Wire by Stock Number 91



ACCESS CONTROL

Elevate your security with a modern, simple user interface.

SECURITY



Calendar for September 2023:

Day	Event
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Sunday
8	Monday
9	Tuesday
10	Wednesday
11	Thursday
12	Friday
13	Saturday
14	Sunday
15	Monday
16	Tuesday
17	Wednesday
18	Thursday
19	Friday
20	Saturday
21	Sunday
22	Monday
23	Tuesday
24	Wednesday
25	Thursday
26	Friday
27	Saturday
28	Sunday
29	Monday
30	Tuesday

Calendar for October 2023:

Day	Event
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Sunday
8	Monday
9	Tuesday
10	Wednesday
11	Thursday
12	Friday
13	Saturday
14	Sunday
15	Monday
16	Tuesday
17	Wednesday
18	Thursday
19	Friday
20	Saturday
21	Sunday
22	Monday
23	Tuesday
24	Wednesday
25	Thursday
26	Friday
27	Saturday
28	Sunday
29	Monday
30	Tuesday

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)

Compact two-door controller modules easily mount above interior doorways



AC-2DM-B
→ p. 11



AC-2DM-W
→ p. 11

PoE



ACS-2DR-C
→ p. 11



ACS-ELV
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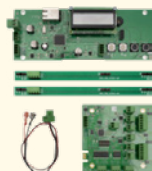


ACS-IO
→ p. 12



AC-CA1
→ p. 13

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



ACS-2DR
→ p. 11

2 wires

Aiphone #871802
(max. 33')



AC-PS1250
→ p. 13

Controller Accessories



AC-PS1250
→ p. 13



AC-2DE
→ p. 13



AC-IOE
→ p. 13



AC-C
→ p. 13

2 wires
Aiphone
#871802
(max. 33')

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

Multi-Purpose Adaptor



PoE

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

IP Door Station



IP Master Station



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	1 GB (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-PC-H26
HID® 26-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 1-3/16" 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)



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)

- 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

AC Series Features and Specifications



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
a i p h o n e . c l o u d



Entry Stations

Multi-Tenant Applications



IXG-DM7-HIDA
→ p. 24



IX-DVF-4A
→ p. 26



IX-DVF-6
→ p. 26



IX-EA
→ p. 26



IX-DVM
→ p. 26



IX-DV
→ p. 26



IX-DVF
→ p. 26



IX-DVF-L
→ p. 26



IX-DVF-HW
→ p. 26



IX-DVF-PR
→ p. 26



IX-DVF-10KP
→ p. 26



IX-SS-2G
→ p. 27



IX-SSA
→ p. 27



IX-NVP
→ p. 27



IX-NVP2
→ p. 27

NEW

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
→ p. 24



IXG-2C7-L
→ p. 25



IXG-2C7
→ p. 25



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
→ p. 22



IX-MV7-HW-JP
→ p. 22

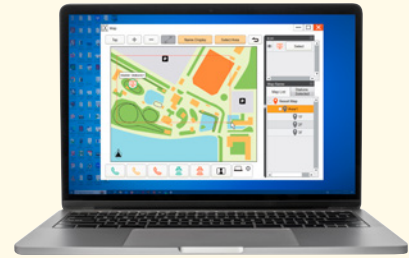


IX-MV7-W
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IX-RS-W
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Software and Mobile Answering Stations



IX-SOFT
IX-SOFT-3
IX-SOFT-5
IX-SOFT-10
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IXW-MAA-SOFT
IXW-MAA-SOFT-5
IXW-MAA-SOFT-10
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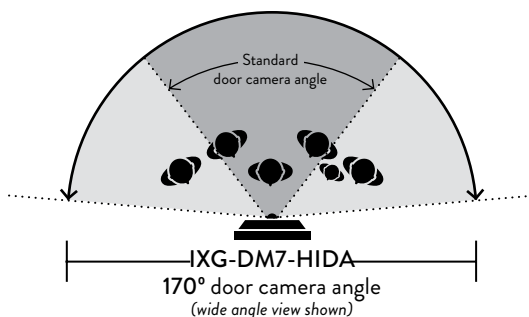
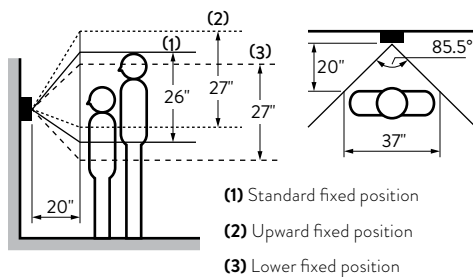
Mobile App



IXGW-TGW
→ p. 25

Camera View Area

IX Series Stations (not IXG-DM7-HIDA)

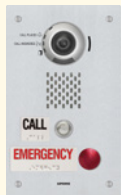


Calling Capacities

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.

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

Emergency Stations



IX-DVF-2RA
→ p. 27



IX-DVF-RA
→ p. 27



IX-SSA-2RA
→ p. 27



IX-SSA-RA
→ p. 27

Stations are also available with French labels:

IX-DVF-2RA-FR
→ p. 27

IX-DVF-RA-FR
→ p. 27

IX-SSA-2RA-FR
→ p. 27

IX-SSA-RA-FR
→ p. 27

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



WB-CA
→ p. 29



WB-CE
→ p. 29



WB-HA
→ p. 29



WB-HE
→ p. 29

NOTE: Power is required for the beacon on wall boxes and towers—use PS-POE splitter to draw power from an IX Series station's PoE+ passthrough or use a PS-2420UL power supply.



TW-SA
→ p. 29



TW-SE
→ p. 29



TW-TA
→ p. 29



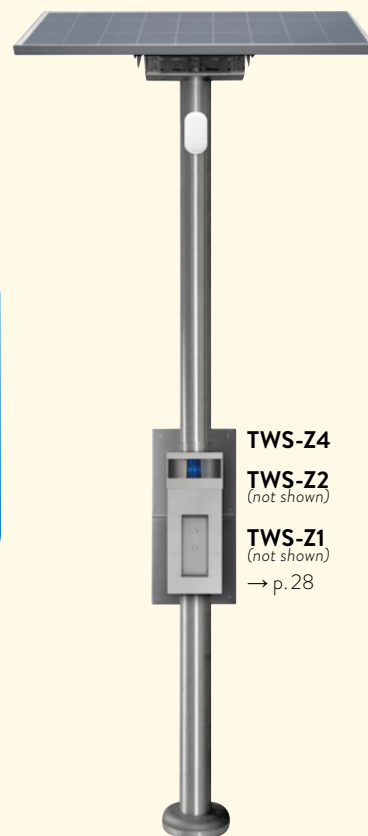
TW-TE
→ p. 29



TW-TA-ARM
→ p. 29



TW-TE-ARM
→ p. 29



TWS-Z4

TWS-Z2
(not shown)

TWS-Z1
(not shown)
→ p. 28

NEW

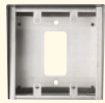
TW-TA-SP (not shown)

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



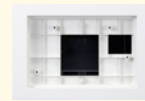
IXG-DM7-BOX
Flush Mount Back Box
for IXG-DM7-HIDA
→ p.24



SBX-IXGDM7
Surface Mount
Back Box for
IX-DVF-4A,
IX-DVF-6, or
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



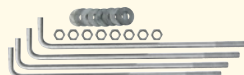
IPW-POE8
8-Port PoE+ Switch
→ p.80



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*



VIDEO ANSWERING STATION

Supports two-way communication, call transferring, and recording.



VIDEO DOOR STATION

Streamlines visitor access with video identification and touchless calling in a mullion-mount style chassis.



MOBILE APP

Empowers tenants the convenience to see and speak with visitors using their mobile devices.



PC ANSWERING STATION SOFTWARE

Centralizes visitor management and monitoring on laptop or desktop computers.



VIDEO TENANT STATION

Allows tenants inside their building to screen visitors before unlocking the entrance.



COMPACT EMERGENCY WALL BOX

Provides tenants with emergency communication in parking garages, stairwells, and other confined areas.



VIDEO ENTRANCE STATION

Welcomes visitors with a secure, modern video entry experience, built to withstand harsh weather.



CAMPUS EMERGENCY TOWER

Helps deter criminal intent while being an immediate means to call for help in an emergency.

INTERCOMS STRENGTHEN
YOUR SECURITY



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

Power Source PoE (802.3af)

Network Interface 10 BASE-T/100 BASE-TX Ethernet (RJ-45)

Network Protocols IPv4, IPv6, TCP, UDP, SIP

Bandwidth Usage Audio (G.722): 64Kbps x 2 for communication, 64Kbps for monitoring
Video (H.264): 32Kbps- 2,048Kbps

Video Stream ONVIF® Profile S

Communication 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)

Video Display IX-MV7-HB, IX-MV7-HB-L, IX-MV7-HW-JP, IX-MV7-B, IX-MV7-W: 7" LCD touchscreen

Door Release 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

Mounting Wall or desk mount (stand included)

Wire Type Cat-5e or Cat-6

Distance Master Station to Network Node: 330'

Dimensions 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

Power Source PoE (802.3af)

Audio Codec G.722 (μ-law, A law), G.722

Network Protocols IPv4, IPv6, TCP, UDP, SIP

Operating Temp 32°~104°F (0°~40°C)

Mounting Wall mount

Wire Type Cat-5e or Cat-6

Distance Master Station to Network Node: 330'

Dimensions 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	TLS 1.2 (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-PBX

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

IX | IXG Series Features and Specifications



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)

Power Source	PoE (IEEE 802.3af Class 0)
Consumption	4.2W standby, 12.7W max.
Video Display	7" TFT LCD touchscreen (800x400 resolution)
Communication	Hands-free (Full-duplex)
Camera	720p HD
Audio Codec	G.711 (μ-law, A-law)
Video Codec	H.264
Network Protocols	IPv4/v6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP/RTCP, IGMP, MLD, SMTP, SFTP, DHCP, NTP, DNS, TLS
Operating Temp	-22°~140°F (-30°~60°C)
HID® Reader	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
Material	Stainless steel
Door Release	Two programmable Form C dry contacts, 24V AC/DC Relay 1: 3A Relay 2: 500mA
Mounting	Flush mount with IXG-DM7-BOX or surface mount with SBX-IXGDM7
Wire Type	Cat-5e or Cat-6
Distance	Entrance Station, Tenant Station, or Guard Station to Network Node: 330'
Dimensions	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>



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

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

Material	Steel
Dimensions	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

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

- 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

Power Source	PoE
Consumption	1.9W standby, 5.9W max.
Video Display	7" TFT LCD touchscreen (800x400 resolution)
Communication	Hands-free (Full-duplex)
Audio Codec	G.711 (μ-law, A-law)
Video Codec	H.264, MJPEG
Network Protocols	IPv4, IPv6, TCP, UDP, SIP
Encryption	TLS 1.2
Operating Temp	32°~104°F (0°~40°C)
Material	Stainless steel
Door Release	Two Form C dry contacts, 24V AC/DC, 1A
Mounting	Flush mount with IXG-FMK-2C7 or surface mount to wall
Wire Type	Cat-5e or Cat-6
Distance	Tenant Station to Network Node: 330'
Dimensions	5-13/16" H x 8-15/16" W x 1" D

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

Mounting	Flush mount
Materials	Panel: self-extinguishing resin Frame and back box: self-extinguishing plastic



IXGW-TGW
AiphoneCloud
Gateway with
SIM Card

- 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



Power Source	PoE
Consumption	2.8W standby, 5.8W max
LAN	Ethernet (10BASE-T, 100BASE-TX)
Wireless Network	LTE, WCDMA
Included SIM card	AT&T™ nano SIM
Packet Delivery	Unicast, Multicast
Network Protocols	IPv4/v6, TCP, UDP, SIP, HTTPS, RTP, RTCP, SRTP, SRTPC, IGMP, MLD, SFTP, DHCP, NTP, DNS, MQTT, ICE, DTLS, SDP
Channel	Intercom: 8 Phone: 1
Encryption	TLS 1.2
Operating Temp	14°~122°F (-10°~50°C)
Wire Type	Cat-5e or Cat-6
Distance	Adaptor to Network Node: 330'
Dimensions	4-1/4" H x 8-1/4" W x 2-3/8" D Antenna length: 5-9/16"



IXGW-LC®
Elevator Lift
Control Adaptor



IXGW-LC-RY20
Relay Adaptor

- 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)

Power Source	PoE
Consumption	2.1W standby, 4.4W max.
Relay Rating	24V AC/DC, 500mA
LAN	Ethernet (10BASE-T, 100BASE-TX)
Packet Delivery	Unicast, Multicast
Network Protocols	IPv4/v6, TCP, UDP, HTTPS, IGMP, MLD, SFTP, DHCP, NTP, DNS, TLS
Encryption	TLS 1.2
Operating Temp	14°~122°F (-10°~50°C)
Distance	Adaptor to Network Node: 330'
Dimensions	4-1/4" H x 8-1/4" W x 2-3/8" D

IX | IXG Series Features and Specifications



IX-EA
IP Video Door Station



IX-DVM®
Mullion-Mount IP Video Door Station with Built-in Touchless Call Sensor



IX-DV®
IP Video Door Station
(included with IXS-HBDV box set)



IX-DVF®
IP Video Door Station



IX-DVF-L
IP Video Door Station with T-Coil Compatibility
(requires PoE and 24V DC)



IX-DVF-4A
IP Video Door Station with Four Call Buttons



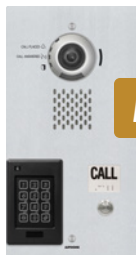
IX-DVF-6
IP Video Door Station with Six Call Buttons



IX-DVF-HW
IP Video Door Station with Hand Wave Call Sensor and Surface Mount Box
(requires PoE+)



IX-DVF-PR
IP Video Door Station with 125 kHz Wiegand Proximity Reader



IX-DVF-10KP
IP Video Door Station with 125 kHz Wiegand Proximity Reader and Access Keypad

- SIP compliant
- On-board recording with a microSD™ card
- Camera provides clear video
- Weather and vandal resistant (IX-EA, IX-DVF-4A, and IX-DVF-6 are weather resistant only)
- Indoor or outdoor use
- 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+)

Power Source IX-EA, IX-DVM: PoE (802.3af)
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

Communication Hands-free
Camera 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

Operating Temp 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)

Material 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

Door Release 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

Mounting IX-DV, IX-DVM, IX-EA, IX-DVF-HW: surface mount
IX-DVF: flush mount with included back box or surface mount with SBX-IDVF

IX-DVF-L, IX-DVF-PR: flush mount with included back box or surface mount with SBX-IDVFRA
IX-DVF-10KP, IX-DVF-4A, IX-DVF-6: flush mount with included back box or surface mount with SBX-IXGDM7

Wire Type Cat-5e or Cat-6

Distance Door Station to Network Node: 330'

Door Station to Power Supply: 50'

Card Reader 5-14V DC power input
45mA power draw
125kHz frequency
CSA, FCC, CE, C-Tick certifications

Dimensions 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

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

NEW

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



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



IX-SSA-RA®
ADA Compliant
IP Audio
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.

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



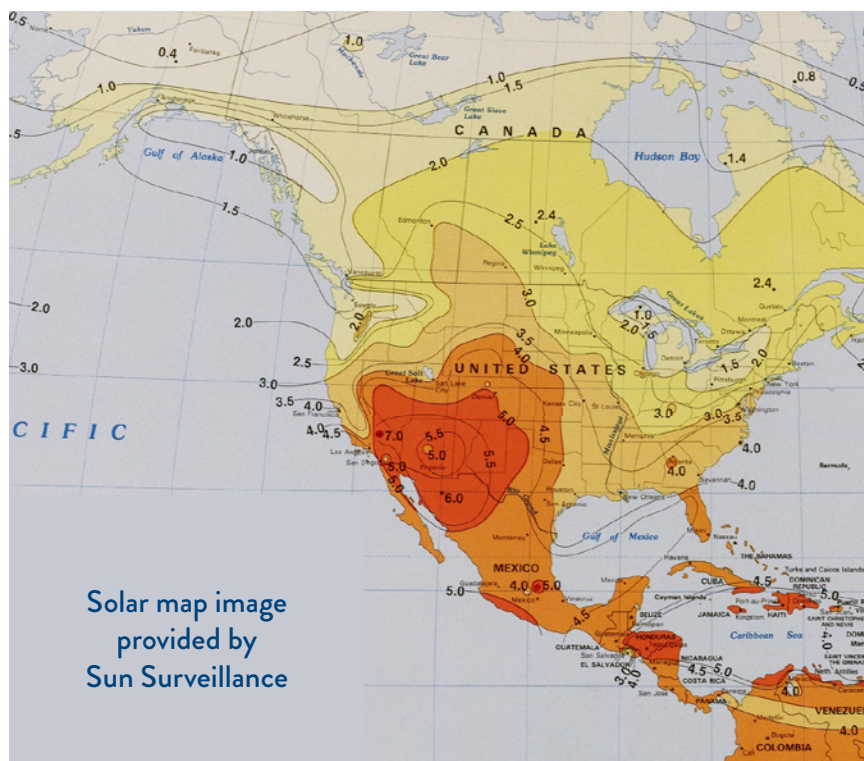
TWS-Z4
Zone 4 Solar Tower Set
(includes one solar panel)

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)

- Wireless solar solution uses the sun to power all components
- Pre-assembled sets include WB-HE wall box with mounting pole, battery and electrical enclosure, WiFi device, and one, two, or three solar panels (see solar map as a guideline to determine the model best suitable for a region based on its sun rating zone)
- TWS-Z1 with three panels is recommended for zones rated 1.0 to 1.9
- TWS-Z2 with two panels is recommended for zones rated 2.0 to 3.9
- TWS-Z4 with one panel is recommended for zones rated 4.0+
- TWS-Z4 and TWS-Z2 can be mounted above ground (TWS-Z1 requires underground mounting due to weight)

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



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	PoE (803.2af)
Consumption	8.4W
Output	24V DC, 350mA
Operating Temp	-40°~140°F (-40°~60°C)
Dimensions	3-1/4" H x 2-1/2" W x 1" D

IX | IXG Series Features and Specifications

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

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

- Includes UL Listed electrical box
- Made of 12-gauge stainless steel
- Beacon is always lit and strobes 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)

Voltage 24V DC

Current 200mA

Wiring Black: Ground

Red: +24V DC

White: Trigger

Operating Temp -40°F~149°F

Material 12-gauge stainless steel

Mounting Surface mount directly to wall

Mounting Height 48" AFF for camera to be at 60"

44" AFF for call button to be at 48"

Dimensions 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

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

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

TW-TA-ARM-SP, TW-TE-ARM-SP (not shown)
Tower with Camera Arm, Speaker, 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 strobes during emergency call-in (requires 24V DC)
- LED illumination above call station (requires 24V DC)
- Call button mounting height and signage meet ADA regulations

Material Aluminum 6061-T6

Dimensions 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

Weight TW-SA, TW-SE: 43 lbs

TW-TA, TW-TE: 68 lbs

TW-TA-ARM, TW-TE-ARM: 80 lbs

NEW

NEW



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 MSTR/SUB
8

JP Series Video Intercom w/ Call Partitioning

Box Sets: select 1 (up to 3 door stations and 7 sub master stations can be added)



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

START with a BOX SET

Door Stations: mix and match up to 4 (only up to 3 if a box set is selected)



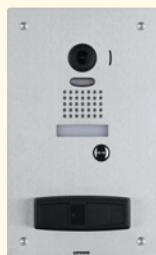
JP-DA
→ p. 35



JP-DV
→ p. 35



JP-DVF
→ p. 35



JP-DVF-PR
→ p. 35



GT-D
→ p. 35

- 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

Master Station



JP-4MED
→ p. 34



Removable media storage

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

Cat-5e/6 wire
N/A from
Aiphone
(max. 650' between
master station
and adaptor)

2 wires
Aiphone
#871802
(max. 330')

2
wires

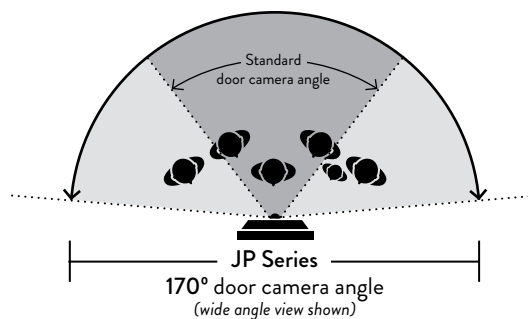
Door Strike
and Power

2 wires
Aiphone
#871802
(max. 33')



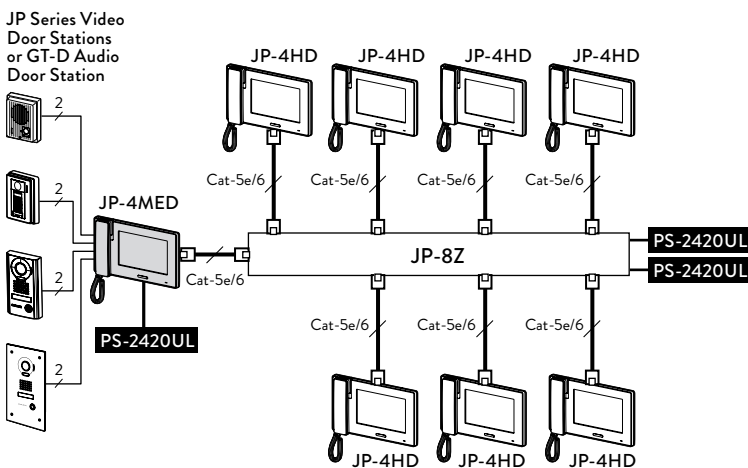
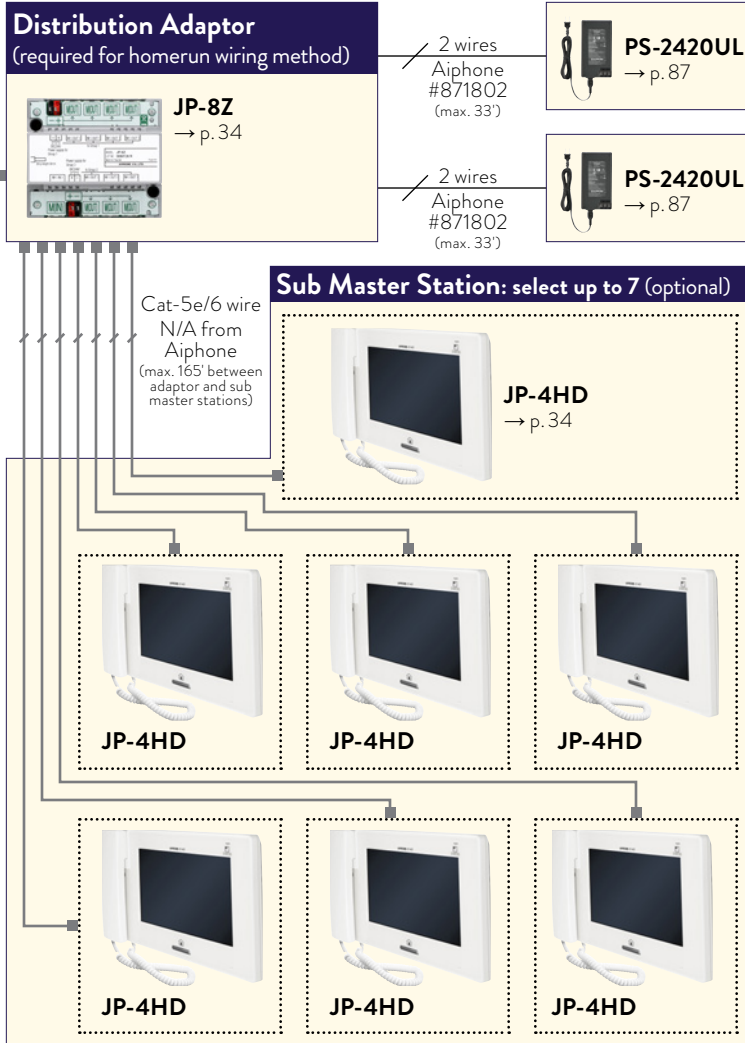
PS-2420UL
→ p. 87

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. 82



KAW-D
30° Angle Box for JP-DA
→ p. 84



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



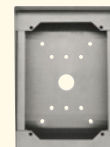
KMB-45
45° Mullion Mounting Bracket for GT-D or JP-DA
→ p. 84



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 JP-DVF
→ 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 Series Features and Specifications



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

- 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



JP-4HD
Video Sub
Master Station
with Handset

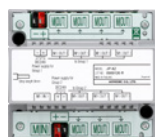
- Camera position and zoom can be set for call-in
- Video out via supplied connector
- Picture Memory
- Security inputs for alerting stations
- Removable media storage (memory card not included)



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

- 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



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
- 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)

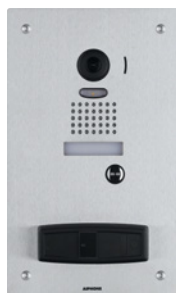
- Digital PTZ camera provides clear video
- LED illumination automatically turns on in low light conditions
- Weather resistant
- JP-DV, JP-DVF, and JP-DVF-PR are vandal resistant
- JP-DA has an LED backlit call button
- JP-DV, JP-DVF, and JP-DVF-PR have an LED backlit nameplate
- JP-DVF-PR has built-in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



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



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



JP-DVF-PR
Card Access Video Door Station (includes built-in 125 kHz Wiegand proximity reader)

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 Card Reader	5-14V DC power input 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
<i>Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.</i>	



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

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



PS-1820UL

→ p. 87

2 wires
Aiphone
#871802
(max. 33')

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

Door Strike
and Power

2 wires
from each
station/adaptor
Aiphone
#871802

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

Expansion Station (optional)



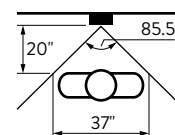
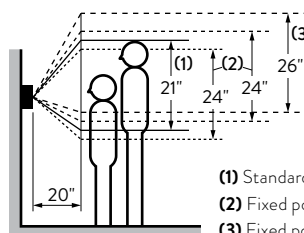
JO-1FD

→ 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



- (1) Standard fixed position (all door stations)
- (2) Fixed position with $\pm 7^\circ$ angle (JO-DA only)
- (3) Fixed position with 17° angle (JO-DA only)



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



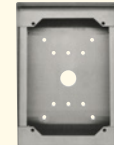
KMB-45
45° Mullion
Mounting
Bracket for
JO-DA
→ p. 84



JK-MB
Mullion Mounting
Bracket for JO-DV
→ p. 84



SBX-DV30
30° Angle Box
for JO-DV
→ 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



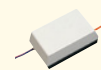
EL-12S
Electric Door Strike
for Wood Frames
(requires PT-1210NA)
→ p. 81



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



IER-2
Call Extension
Speaker
→ p. 81

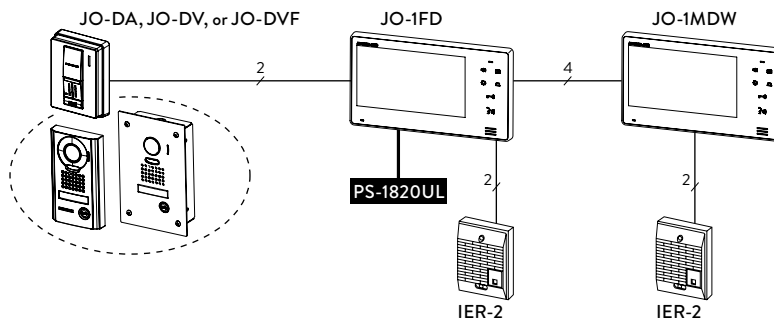


RY-ES
External
Signaling
Relay
→ p. 81

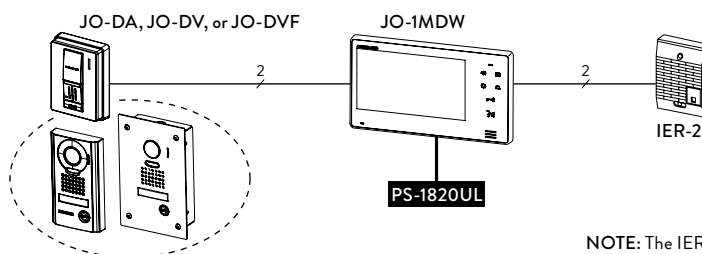


MCW-S/B
Desk Stand
for JO-1MDW
or JO-1FD
→ p. 85

Example WITH JO-1FD



Example WITHOUT JO-1FD



NOTE: The IER-2 is optional.

JO Series Features and Specifications

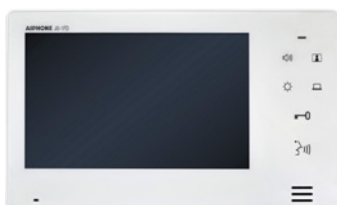


JO-1MDW

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



JOW-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



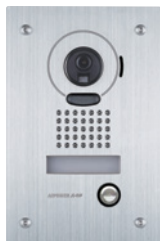
JO-DA
Video Door Station
(included with JOS-1AW
box set—not sold separately)

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



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 MASTER
2

JV Series Video Intercom

Box Sets: select 1

(a JV-1FD can be added to any 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

**START with a
BOX SET**

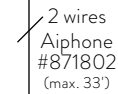
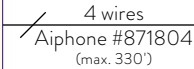
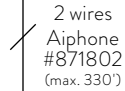
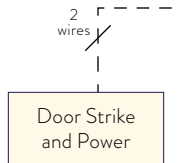
Master Station: select a box set



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.



PS-2420UL
→ p. 87

Door Stations: select a box set

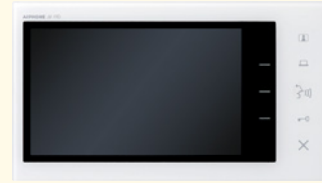


JV-DV



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



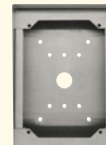
MKW-P
1-Gang Mounting
Plate for JV-DV
→ p. 85



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. 85



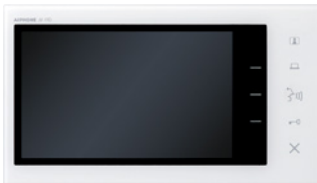
GET MORE
INFORMATION
ON THIS SYSTEM



JV Series Features and Specifications



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



JV-1FD
Video Expansion Station

- 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

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)



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

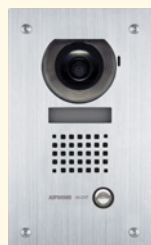
- Fixed camera provides clear video
- LED illumination automatically turns on in low light conditions
- Weather and vandal resistant
- Backlit call button
- LED backlit nameplate

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

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



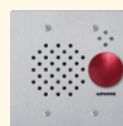
IF-DA
→ p. 67



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

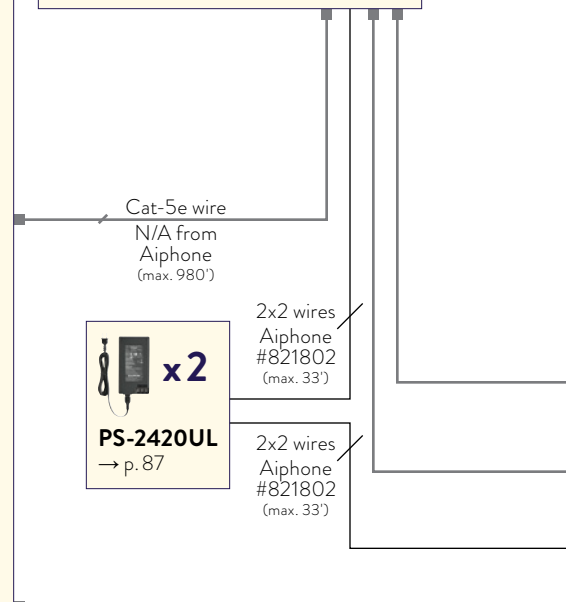
Central Exchange Units: select 1



AX-084C
→ p. 45

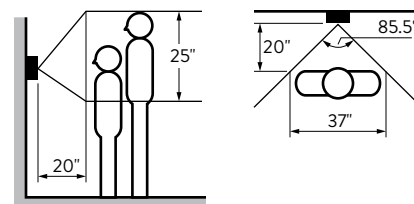


AX-248C
→ p. 45



- 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)



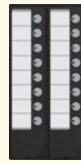
AX-320C
→ p. 45

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

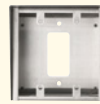
Cat-5e wire
N/A from Aiphone
(max. 16')

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

Accessories



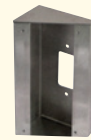
AX-16SW
16-Call Add-On
Selector for
AX-8MV or
AX-8M (up to seven
per master station)
→ p. 44



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



AXW-PA1
Paging
Adaptor
→ p. 45



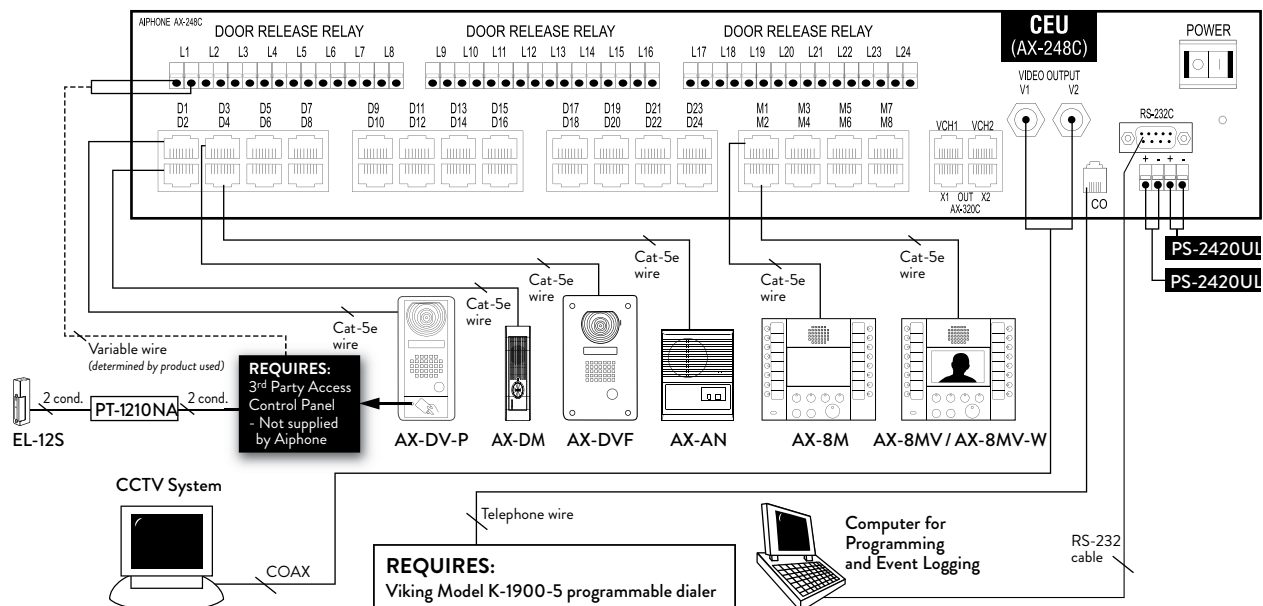
RY-ES
External
Signaling
Relay
→ p. 81



IER-2
Call
Extension
Speaker
→ p. 81



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



AX Series Features and Specifications



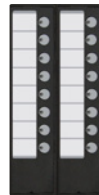
AX-8MV
Video Master Station



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



AX-8M
Audio Master Station



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

- 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-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)



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)

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



AX-DM
Mullion-Mount
Audio Door
Station

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

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



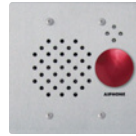
IF-DA
Audio Door Station
→ p. 67



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)



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



AX-320C
Add-On Central Exchange Unit (supports up to 32 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

KB Series Video Intercom with Handset

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**

2 wires
Aiphone
#871802
(max. 650')

Door Strike
and Power

2 wires

RY-3DL
→ p. 81

Door Strike
and Power

2 wires

Master Station



KB-3MRD

2 wires
Aiphone
#871802
(max. 330'
between
master station
and farthest sub
master station)

2 wires
Aiphone
#871802
(max. 33')

PS-2420UL
→ p. 87

**Sub Master Stations:
mix and match up to 4**

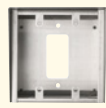


KB-3HRD

2 wires
Aiphone
#871802
(max. 33')

PS-2420UL
→ p. 87

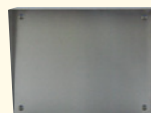
Accessories



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)
→ p. 81



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

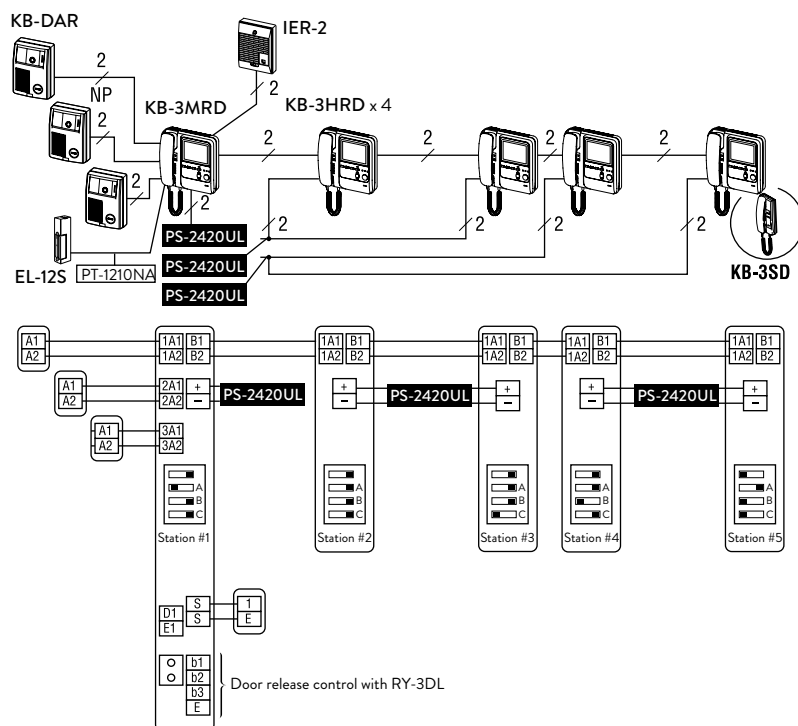
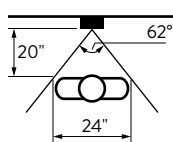
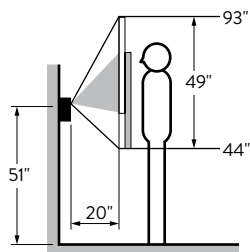


RY-ES
External
Signaling
Relay
→ p. 81



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 backlight 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)

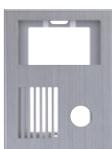
Material Fire resistant ABS plastic

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



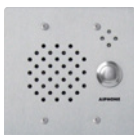
AX-DM
Mullion-Mount
Audio Door Station
→ p.44



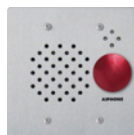
IF-DA
Audio Door
Station
→ p.67



IE-JA
Audio Door
Station
→ p.67



IE-SS/A
Audio Door
Station
→ p.67



IE-SSR
Audio Door
Station
→ p.67

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

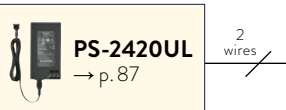


GTV-DES202B
→ p. 52



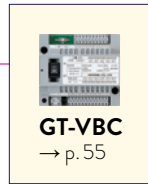
GTA-DESB
→ p. 52

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



PS-2420UL
→ p. 87

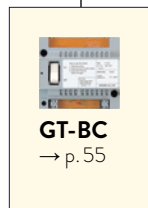
- VIDEO Wire
Aiphone #871802
- AUDIO Wire
Aiphone #872002
- POWER Wire
Aiphone #871802



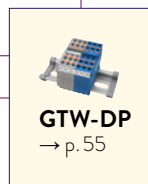
GT-VBC
→ p. 55



PS-2420UL
→ p. 87



GT-BC
→ p. 55



GTW-DP
→ p. 55



PS-2420UL
→ p. 87

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

Video Guard Station: select up to 2



GT-MKB-N
→ p. 53



GT-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



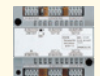
GT-RY
External
Signaling Relay
→ p. 55



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



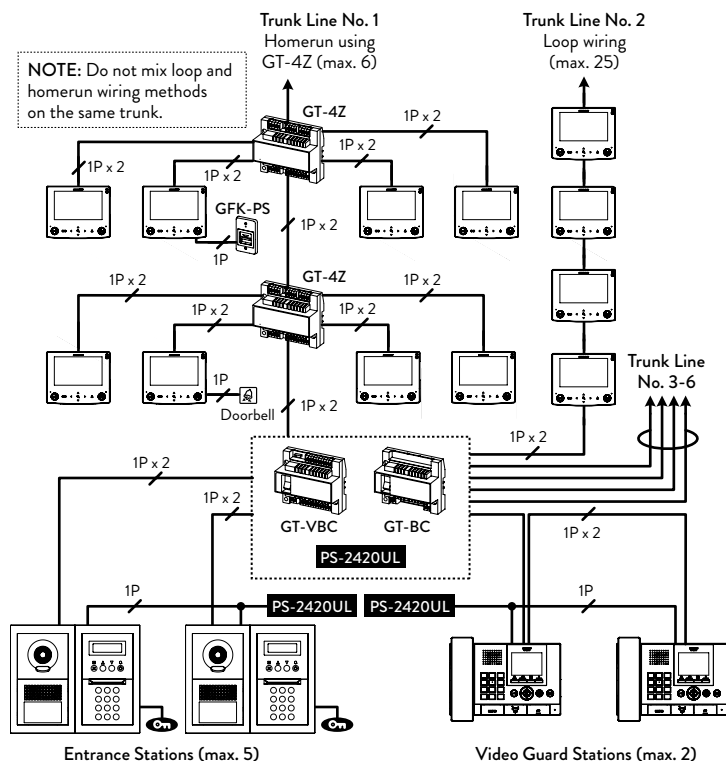
NFC-CARD
(not shown)
Access Card for
GT-DB-VN and
GT-DMB-N
→ p. 52



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 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.



PS-2420UL
→ p. 87

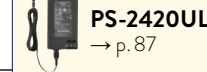
Video Guard Station: select up to 2



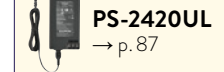
GT-MKB-N
→ p. 53



GT-MKB-N
→ p. 53



PS-2420UL
→ p. 87



PS-2420UL
→ p. 87



GTW-DP
→ p. 55



GT-BC
→ p. 55



GT-VBC
→ p. 55



GT-VBX
→ p. 55



GT-VBC
→ p. 55



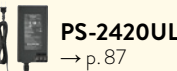
GT-BCXB-N
→ p. 55



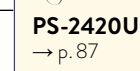
GTW-DP
→ p. 55



GT-BC
→ p. 55



PS-2420UL
→ p. 87



PS-2420UL
→ p. 87

Video Guard Station: select up to 2



GT-MKB-N
→ p. 53



GT-MKB-N
→ p. 53



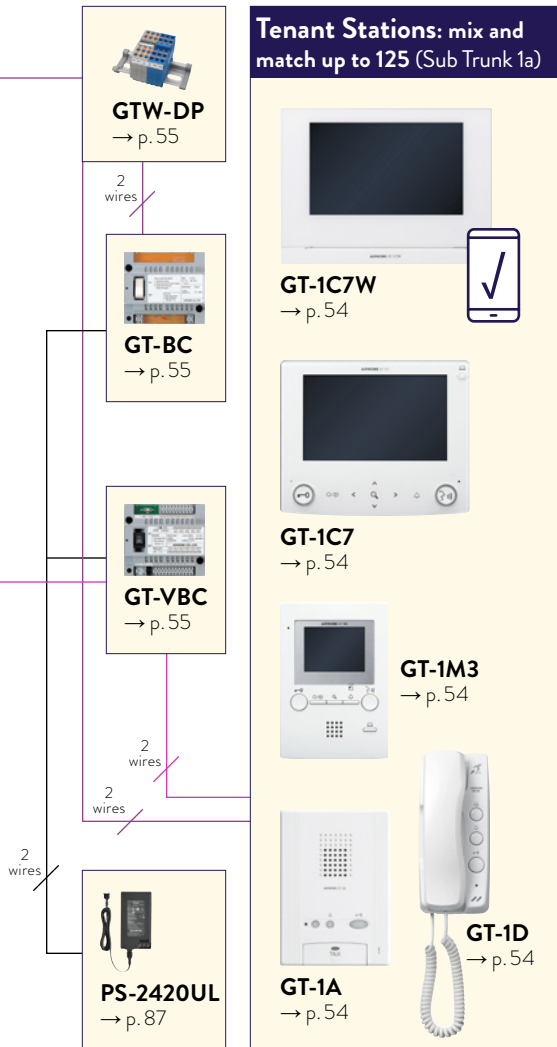
PS-2420UL
→ p. 87

Specifications
→ p. 56–57



GET MORE
INFORMATION
ON THIS SYSTEM





Accessories



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



GFK-PS
Urgent Call
Pull Cord
→ p. 55



GTW-LC
Multi-Relay Control Unit
(for use with Expanded System
only—requires GT-BCXB-N)
→ p. 55



W-DIN11
DIN Mounting Rail
for Control Units
→ 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



GT-RY
External
Signaling Relay
→ p. 55



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



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



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



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

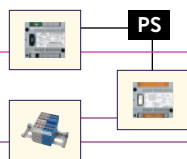


GT-4ZP
4-Way Video/Power
Distribution Adaptor
for GT-1C7W
→ p. 55



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

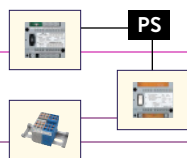
See Sub Trunk 1a above for details



Tenant Stations: mix and match up to 125 (Sub Trunk 1b)



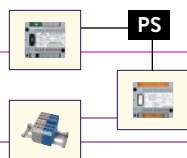
See Sub Trunk 1a above for details



Tenant Stations: mix and match up to 125 (Sub Trunk 2a)



See Sub Trunk 1a above for details



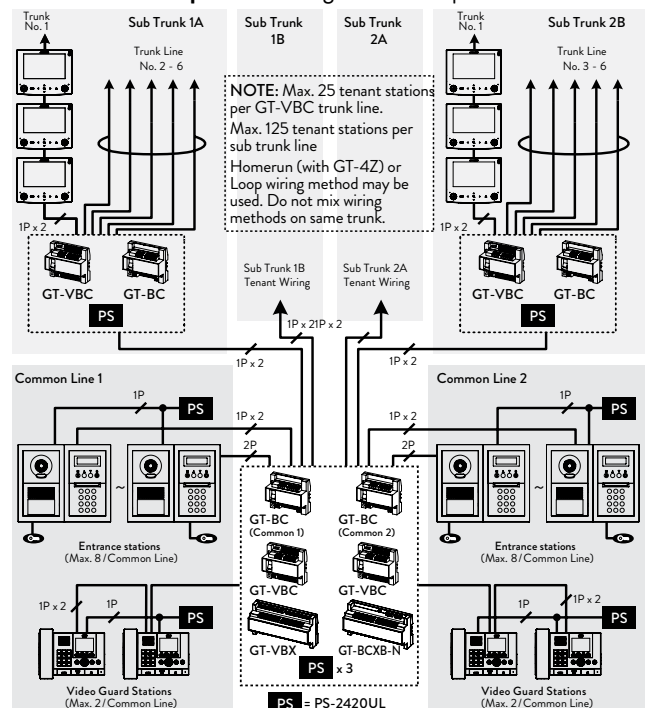
Tenant Stations: mix and match up to 125 (Sub Trunk 2b)



Features—same as Standard System, plus:

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

GT Expanded Configuration Sample



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-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 Series Features and Specifications



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

- 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



GT-1A
Audio Tenant Station

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



GT-1D
Audio Tenant Station
with Handset

- 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)

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'



GT-RY
External
Signaling Relay

- 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



GFK-PS
Urgent Call
Pull Cord

- 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

Audio Module and Panel

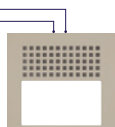
(required for custom entrance stations)



GT-DB
Audio
Module



GT-DB-VN
Audio Module with
NFC Programming
(requires Android® device)

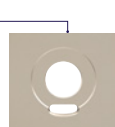


GT-DBP
Panel for GT-DB
or GT-DB-VN

Video Module and Panel



GT-VB
Video Module
with PTZ Camera



GT-VP
Camera
Panel for
GT-VB

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

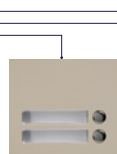
Direct Select Module and Panels



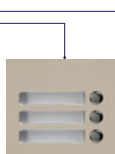
GT-SW
Call Switch
Module



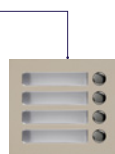
GF-1P
1-Call Panel
for GT-SW



GF-2P
2-Call Panel
for GT-SW



GF-3P
3-Call Panel
for GT-SW

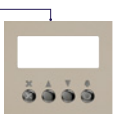


GF-4P
4-Call Panel
for GT-SW

Digital Scroll Modules and Panels



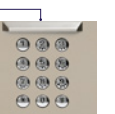
GT-NSB
Display
Module



GT-NSP-L
Panel for
GT-NSB

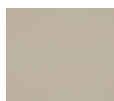


GT-10K
Keypad
Module



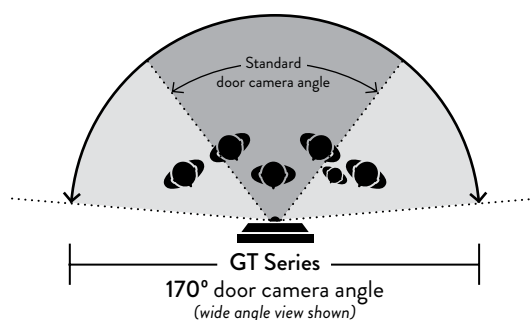
GF-10KP
Panel for
GT-10K

Optional



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

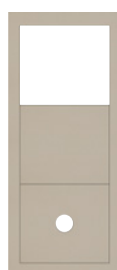
Camera View Area



*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



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

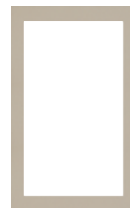


GT-104HB
4-Module Hooded
Surface Mount Box
(for 1x4 layout)



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

GT-303HB
9-Module Hooded
Surface Mount Box
(for 3x3 layout)



GF-2F
2-Module
Front Frame



GF-3F
3-Module
Front Frame



GT-4F
4-Module
Front Frame



W-DIN11
DIN Mounting Rail
for Control Units

- 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

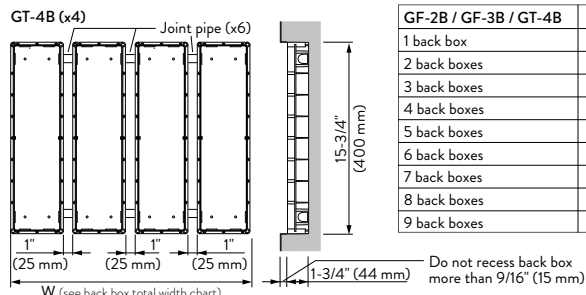
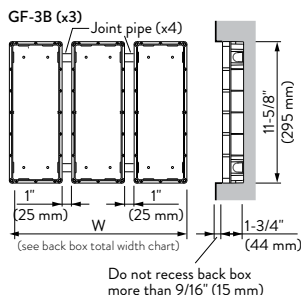
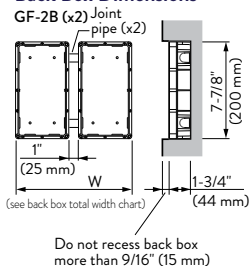
Mounting Surface mount directly to wall with included hardware (8 x 32 with T-15 Torx head)

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/T-nF	5/8" / 16	

Back Box Dimensions



Back Box Total Width

GF-2B / GF-3B / GT-4B	Width (in / mm)
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

A healthcare professional with curly brown hair, wearing a white lab coat and a stethoscope, is shown in profile. She is looking at a small monitor mounted on a wall. The monitor displays some text and a small image. The background is a clinical setting with light-colored walls and a wooden chair visible in the lower left. The text "ANALOG AUDIO INTERCOMS" is overlaid in white on a semi-transparent orange background.

ANALOG AUDIO INTERCOMS

Add communication where it's needed most.



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



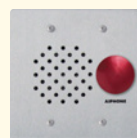
LE-SS-1G
→ p. 63



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

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
▼ LEF Standard Wiring			
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
▼ LEF-C Wiring			
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
▼ Sub/Door Station Wiring			
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
▼ LEF + Door Release Wiring			
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

Accessories



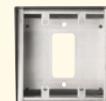
SBX-CON1
Conduit Box
for LE-D
→ p. 82



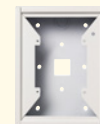
KMB-45
45° Mullion
Mounting
Bracket for
LE-D
→ p. 84



SBX-1G
Surface
Mount
Box for
LE-SS-1G
→ 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

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)

- 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



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)

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

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.



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)

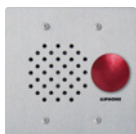
- Moisture and puncture resistant speaker

- 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



RY-PA
Door Release Relay

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

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



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

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-5
Terminal Box

LEW-10
Terminal Box

LEW-10S
Terminal Box

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

LEM Series Open Voice Intercom

Door and Sub Stations: mix and match up to 3



LE-D
→ p. 63



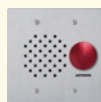
LE-SS-1G
→ p. 63



LE-DA
→ p. 63



LE-SS/A
→ p. 63



LE-SSR
→ p. 63



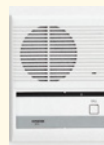
LS-NVP/C
→ p. 63



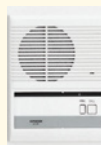
LE-A
→ p. 62



LE-AN
→ p. 62



LE-B
→ p. 62

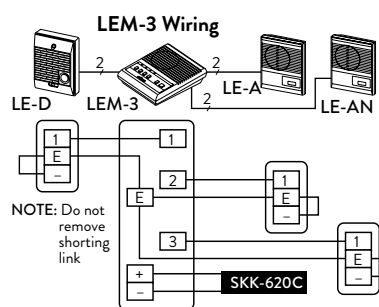
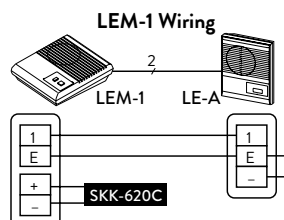


LE-BN
→ p. 62

2 wires
Aiphone
#822202
(max. 650' between
master station and farthest
sub station)



SKK-620C
→ p. 87



Master Stations: select 1



LEM-1



LEM-3

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-SS-1G
→ 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

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 Stations: select 1

- 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

Master Stations: select 1

- LEM-1DL** **LEM-1DLC**
- LEM-1DL** 2 + 2 wires
Aiphone #822202 (max. 650' between door station and farthest master station)
- LEM-1DLC** 3 + 2 wires
Aiphone #822203 and #822202 (max. 650' between door station and farthest master station)
- PT-1210NA** → p. 87
- PT-1210NA** → p. 87

Master Stations: select 1 (optional)

- LEM-1D** **LEM-1DLC**

Box Set

LEM-1DLS: LEM-1DL, LE-D, and PT-1210NA

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-SS-1G → 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 (requires PT-1210NA) → p. 81
- DAK-2S** Dual Master Adaptor Kit (required per two LEM-1DL master stations—not required for LEM-1DLC master stations) → p. 80
- RY-AC/A** External Signaling Relay (requires shared PS-1208UL with LEM-1DL and DAK-2S or shared PS-1208UL with LEM-1DLC) → p. 81

LEM-1DL Series Features and Specifications



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

LEM-1DLC
Audio Master Station (max. four)



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

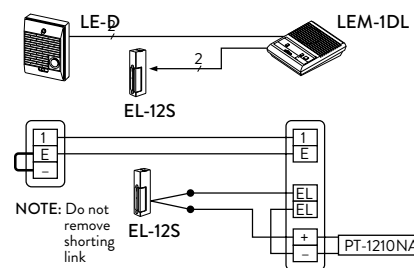
Mounting Wall or desk mount

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



IE-8 Series Chime Tone Intercom

Door Stations: mix and match up to 2



AX-DM
→ p. 44



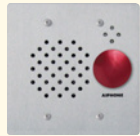
IF-DA



IE-JA



IE-SS/A



IE-SSR

2 wires
Aiphone
#822202
(max. 500')

2 wires

Door Strike
and Power



PT-1210NA
→ p. 87

Master Station



IE-8MD

2 wires
Aiphone
#822202
(max. 33')

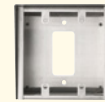
4 wires
Aiphone
#822206
(max. 245' between
master station
and farthest sub
master station)

Sub Master Station: select up to 5 (optional)



IE-8HD

Accessories



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

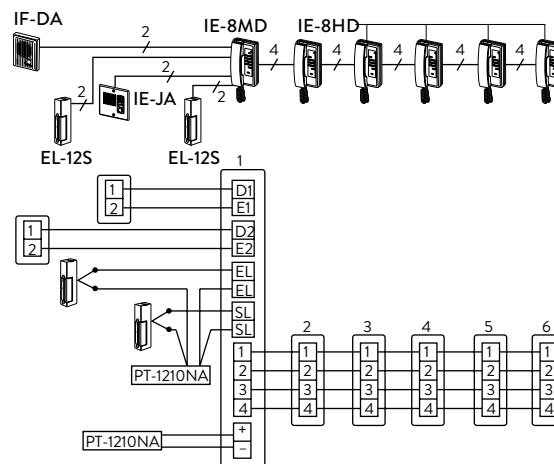


EL-12S
Electric Door Strike
for Wood Frames
(requires PT-1210NA)
→ p. 81



RY-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



IF-DA
Audio Door Station



IE-JA
Audio Door Station

- 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.



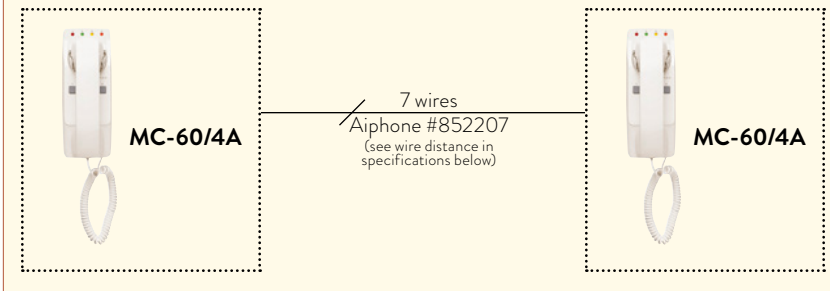
IE-SS/A
Audio Door Station



IE-SSR
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)

Master Station: select up to 60



7 wires
Aiphone #852207
(see wire distance in specifications below)

Paging Adaptor (1 required for system paging)



PS-2420UL
→ p. 87

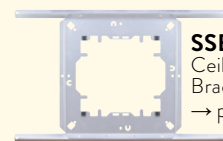
2 wires
Aiphone #822202
(max. 16')

Paging Amplifiers (1 required for system paging)

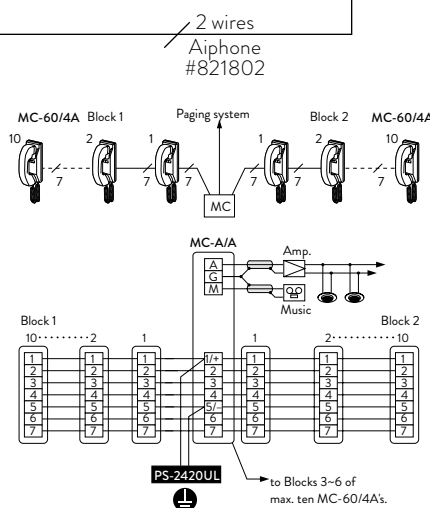


2 wires
Aiphone #822202
(max. 500')

Accessories



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



MC Series Features and Specifications



- 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

- 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' (22 AWG)
4,000' (18 AWG)
- Total cumulative wiring between Paging Adaptor and Master Station: 5,000' (22 AWG)
- Dimensions** 9-3/16" H x 3-9/16" W x 3-11/16" D

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



- 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
- Input** AUX 10kΩ, 0.3V–0.5V
- Music Output** Range 100mV–1.2V, 10kΩ or less
- Dimensions** 2" H x 3-9/16" W x 5-5/8" D

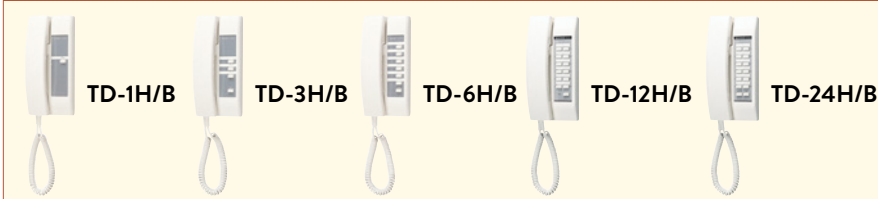


GET MORE
INFORMATION
ON THIS SYSTEM



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)



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. 86

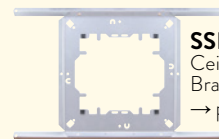


MD60M
→ p. 86



MD120M
→ p. 86

Accessories



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



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

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



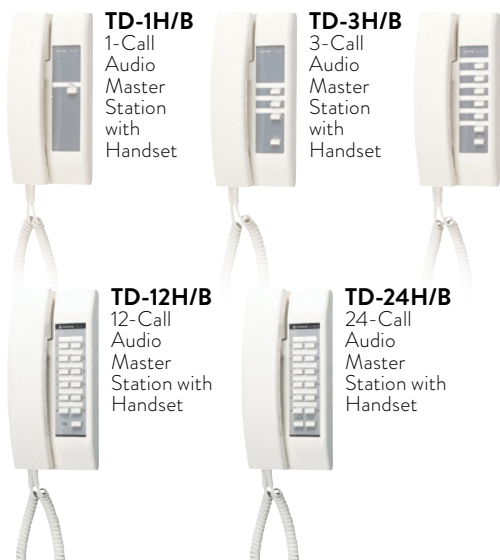
MH-15W
→ p. 85



SP-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
Handset

TD-3H/B
3-Call
Audio
Master
Station
with
Handset

TD-6H/B
6-Call
Audio
Master
Station
with
Handset

TD-12H/B
12-Call
Audio
Master
Station
with
Handset

TD-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

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



GET MORE
INFORMATION
ON THIS SYSTEM



SPEAKER KIT

1

CONTROL KIT

1

IM Series Security Window Intercom

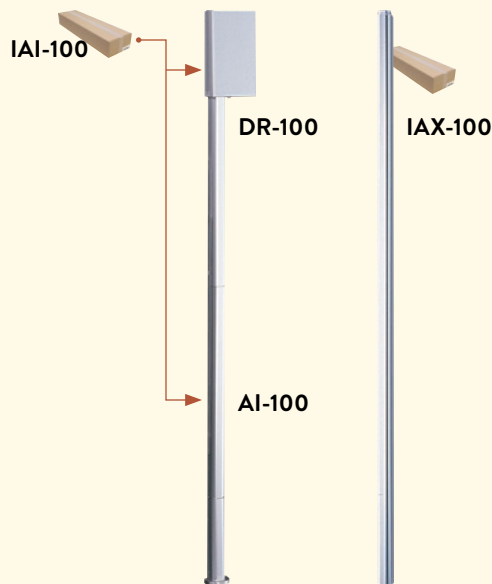
Box Set

IM-1

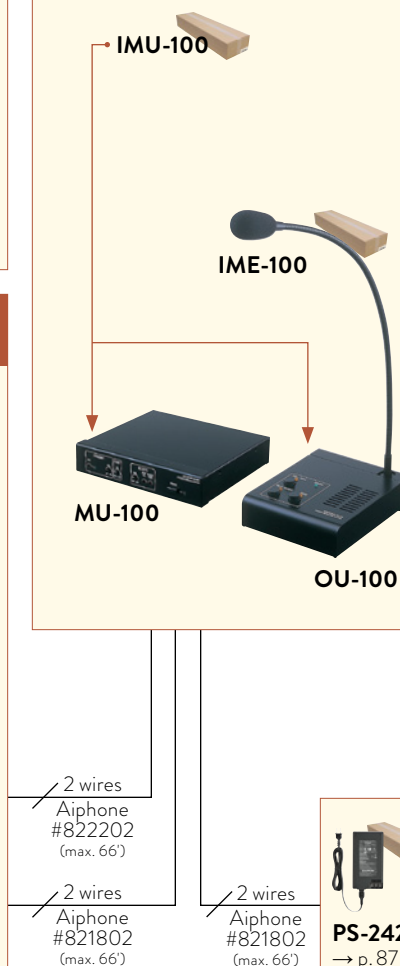
Box Set with
IMU-100, IAI-100,
IAX-100, IME-100,
ISE-100, and PS-2420UL

START with a
BOX SET

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



Control Unit and Operation Unit



Accessories

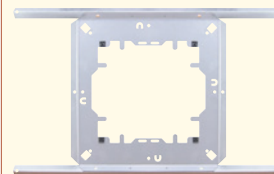


ISE-100



SP-2570N

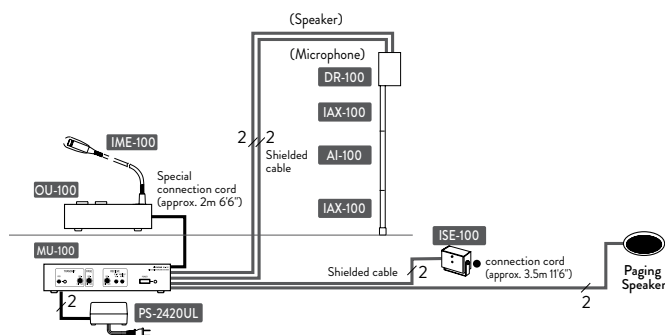
8Ω, 25/70V, 5W
Ceiling Speaker
→ p. 86



SSB-3

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

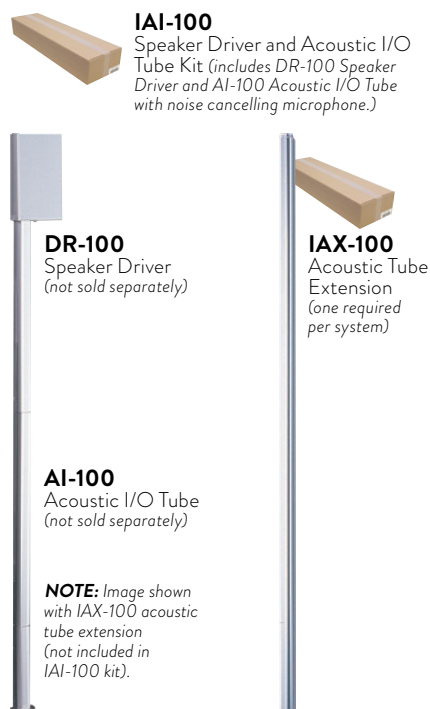
- Inconspicuous unit allows for a clear view of visitors to the ticket/customer window for added visibility and security
- Flexible gooseneck microphone can be adjusted to virtually any position
- 3.5mm headset can be used (not supplied by Aiphone)
- Uses voice-actuated communication (VOX) system, requiring 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



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)

AI-100

Acoustic I/O Tube
(not sold separately)

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

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



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	MASTER	DUTY
80	1	1

NHX Series Nurse Call Intercom (UL 1069 Listed)



Sub Stations: mix and match up to 10 per trunk with up to 8 trunks



NH-1SA/A



NH-2SA/A



NHR-3TS

One bedside call button is required per sub station jack



NHR-8C



NHR-8A-L

Central Control Unit



NHX-80X



NHR-30K

Master Station



NHX-50M

NHX-30G

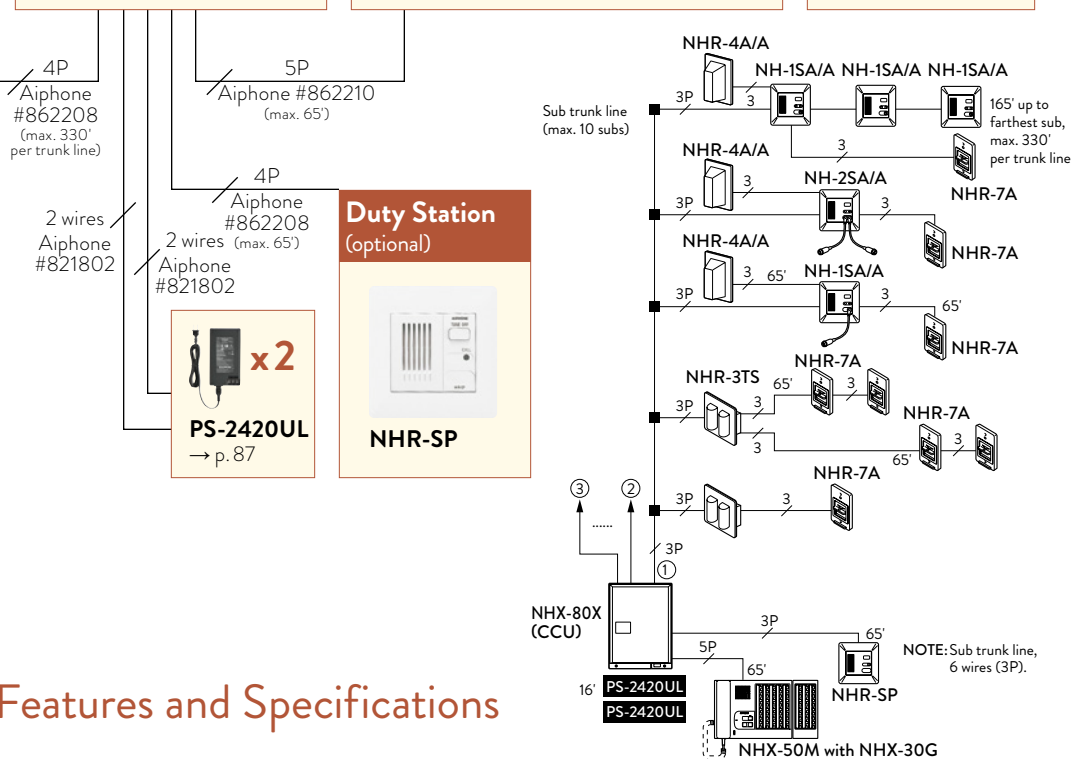
Accessories



NHR-7A



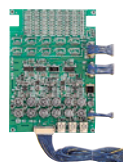
NHR-4A/A



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)

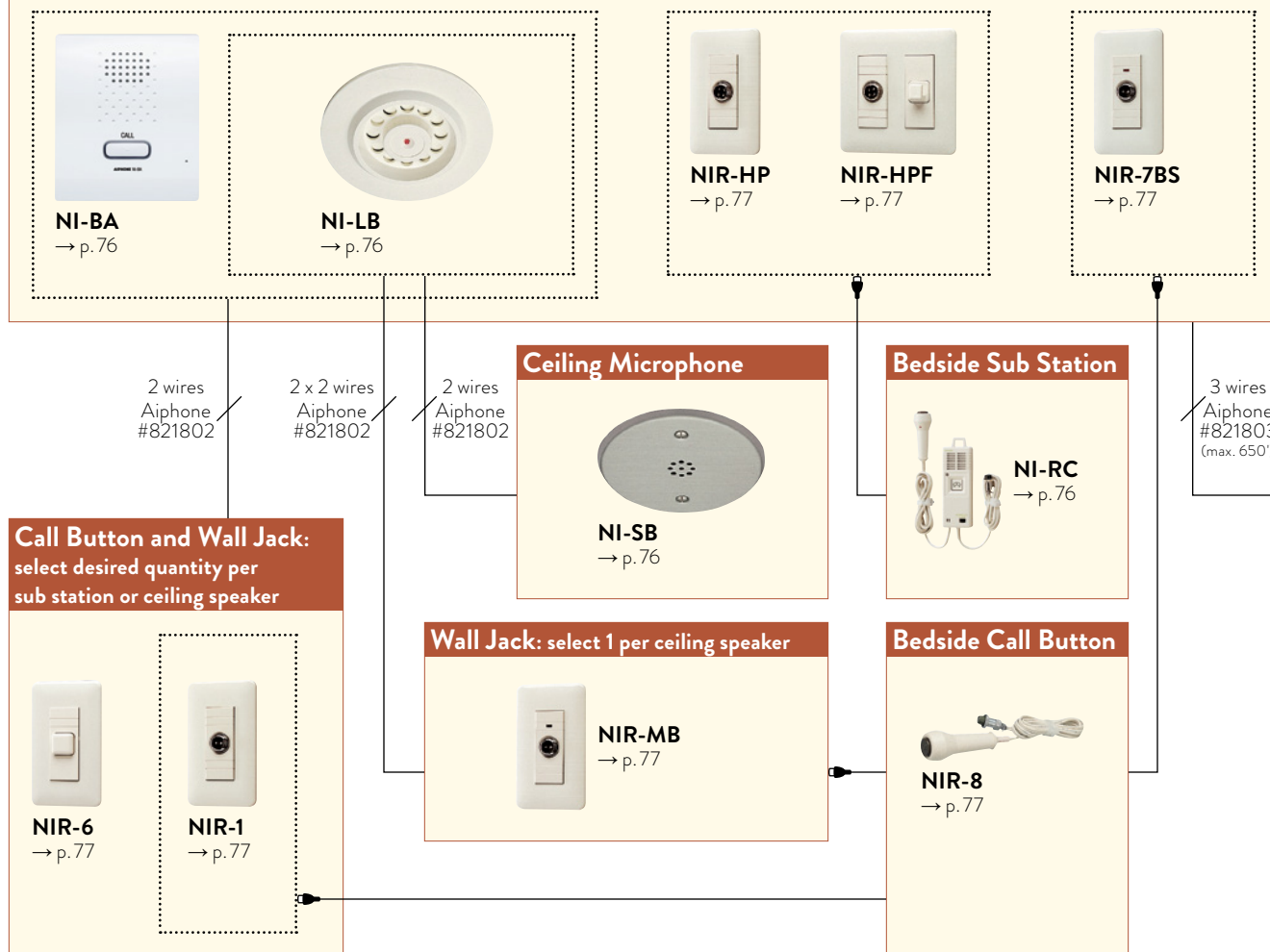
NHR-7A:

- 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

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.

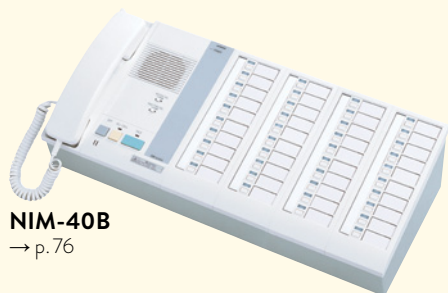


GET MORE
INFORMATION
ON THIS SYSTEM



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

**NIR-7HW**

Bathroom Call
Button with
Pull Cord
→ p. 77

**NI-SOFT**

Call Event Log
PC Software
(includes RS-232
cable, approx. 40")
→ p. 77

**IER-2**

Call Extension
Speaker
→ p. 81

**RY-ES**

External Signaling Relay
→ p. 81

NIM Series Features and Specifications



NIM-20B
20-Call Audio Master
Station with Handset



NIM-40B
40-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

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

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-10VC
Rack Mount 2-Wire Network Adaptor Kit



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

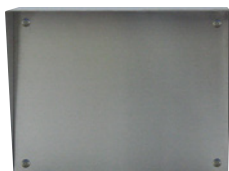
- Compatible with most Aiphone surface mounted door stations
- Drilled attachment holes for different standard mounting boxes, including 1- and 2-gang
- Conduit knockout at the base
- Tamper-resistant screw at the top
- Matte black coloring

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)

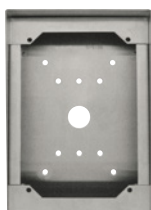
SBX-DVF: 8-5/16" H x 5-1/2" W x 3-3/16" D (top); 2-5/16" D (bottom)

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



SBX-AXDVF

Surface Mount Box for AX-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)

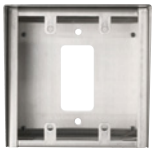
SBX-NVP/A: 8-5/5" H x 6-5/8" W x 2-3/4" D



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

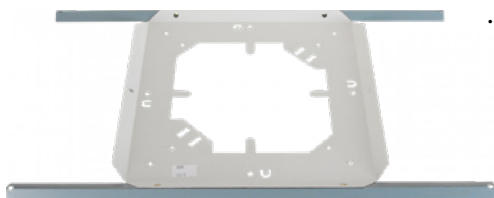
Accessories Features and Specifications



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)

Power Source	120V AC, 50-60Hz
Output	35/60/120W RMS
Input	Microphone: 250Ω balanced Telephone: 600Ω balanced Auxiliary: 47kΩ VoIP: 50kΩ unbalanced



MD60M®
60W Paging Amplifier

- 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

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



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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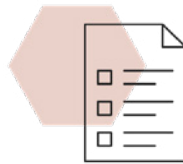
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IXW-PBXA	23	LEF-10C	62	NHX-80X	72	SBX-AXDVF	82
JK-MB	84	LEF-10S	62	NI-BA	76	SBX-CON1	82
JO-1FD	38	LEF-3	62	NI-LB	76	SBX-DV30	84
JO-1MDW	38	LEF-3C	62	NIM-20B	76	SBX-DVF	82
JO-DA	39	LEF-3L	62	NIM-40B	76	SBX-DVF-P	82
JO-DV	39	LEF-5	62	NIR-1	77	SBX-GTDMB	57
JO-DVF	39	LEF-5C	62	NIR-2	77	SBX-IDVF	82
JOS-1AW	36	LEM-1	64	NIR-31	77	SBX-IDVFRA	82
JOS-1FW	36	LEM-1DL	65	NIR-32	77	SBX-IXDV30	84
JOS-1VW	36	LEM-1DLC	65	NIR-34	77	SBX-IXGDM7	83
JOW-2D	39	LEM-1DLS	65	NIR-4	77	SBX-NVP/A	83
JP-4HD	34	LEM-3	64	NIR-42	77	SKK-620C	87
JP-4MED	34	LE-SS/A	63	NIR-4BZ	77	SP-2570N	86
JP-8Z	34	LE-SS-1G	63	NIR-4S	77	SSB-3	86
JP-DA	35	LE-SSR	63	NIR-6	77	TD-12H/B	69
JP-DV	35	LEW-10	63	NIR-7BS	77	TD-1H/B	69
JP-DVF	35	LEW-10S	63	NIR-7HW	77	TD-24H/B	69
JP-DVF-PR	35	LEW-5	63	NIR-8	77	TD-3H/B	69
JPS-4AED	32	LS-NVP/C	63	NI-RC	76	TD-6H/B	69
JPS-4AEDF	32	MB-RF1	85	NIR-HP	77	TW-MKL	29
JPS-4AEDV	32	MC-60/4A	68	NIR-HPF	77	TW-SA	29
JPW-BA	34	MC-A/A	68	NIR-MB	77	TW-SE	29
JV-1FD	41	MCW-S/B	85	NI-SB	76	TWS-Z1	28
JV-1MD	41	MD120M	86	NI-SOFT	77	TWS-Z2	28
JV-DV	41	MD35M	86	OU-100	71	TWS-Z4	28
JV-DVF	41	MD60M	86	PD-2	69	TW-TA	29
JVS-1F	40	MH-15W	85	PS-1208UL	87	TW-TA-ARM	29
JVS-1V	40	MKW-P	85	PS-1225UL	87	TW-TA-ARM-SP	29
KA-DGR	47	MU-100	71	PS-1820UL	87	TW-TA-SP	29
KAW-D	84	NFC-CARD	52	PS-2420UL	87	TW-TE	28
KB-3HRD	47	NFC-FOB	52	PS-POE	28	TW-TE-ARM	29
KB-3MRD	47	NH-1SA/A	73	PT-1210NA	87	TW-TE-ARM-SP	29
KB-DAR	47	NH-2SA/A	73	PT-1211CA	87	TW-TE-SP	28
KB-DAR-M	47	NHR-30K	72	RY-1824L	81	WB-CA	29
KMB-45	84	NHR-3TS	73	RY-3DL	81	WB-CE	29
LE-A	62	NHR-4A/A	73	RY-AC/A	81	WB-HA	29
LE-AN	62	NHR-7A	73	RY-ES	81	WB-HE	29
LE-B	62	NHR-8A-L	73	RY-PA	63	W-DIN11	57
LE-BN	62	NHR-8C	73	SBX-1G	83		
LE-D	63	NHR-SP	73	SBX-2G/A	83		



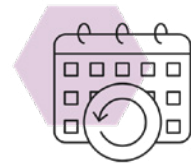
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AIPHONE WIRE BY STOCK NUMBER

STOCK #	LENGTH	AWG	DESCRIPTION	INSULATION	CAPACITANCE	DC RES/1000
81221650C	500'	22	16-conductor, non-shielded	PVC	23.60 pf/ft	17.50 ohm
82180210C	1,000'	18	2-conductor, overall shield	PVC	47.00 pf/ft	6.92 ohm
82180310C	1,000'	18	3-conductor, overall shield	PVC	47.00 pf/ft	6.92 ohm
82220250C	500'	22	2-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82220210C	1,000'	22	2-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82220350C	500'	22	3-conductor, overall shield	PVC	44.62 pf/ft	17.50 ohm
82220650C	500'	22	6-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82221050C	500'	22	10-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82221250C	500'	22	12-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82221550C	500'	22	15-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82222050C	500'	22	20-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
85160210C	1,000'	16	2-conductor, low cap, PE, solid, non-shielded	PE	12.50 pf/ft	4.02 ohm
851602DBW10C	1,000'	16	2-conductor, low cap, PE, solid, non-shielded, direct burial	PE	12.50 pf/ft	4.16 ohm
85220710C	1,000'	22	7-conductor, low cap, PE, non-shielded	PE	16.50 pf/ft	17.50 ohm
86220810C	1,000'	22	4 twisted pair, low cap, PE, overall shield	PE	15.28 pf/ft	10.15 ohm
86221025C	250'	22	5 twisted pair, low cap, PE, overall shield	PE	15.28 pf/ft	10.15 ohm
87180250C	500'	18	2-conductor, low cap, PE, solid, non-shielded	PE	11.05 pf/ft	6.39 ohm
87180210C	1,000'	18	2-conductor, low cap, PE, solid, non-shielded	PE	11.05 pf/ft	6.39 ohm
871802P10C	1,000'	18	2-conductor, low cap, PVC, solid, non-shielded, plenum rated	FEP	13.00 pf/ft	6.52 ohm
87180450C	500'	18	4-conductor, low cap, PE, solid, non-shielded	PE	13.60 pf/ft	6.39 ohm
871804P50C	500'	18	4-conductor, low cap, PE, solid, non-shielded, plenum rated	FEP	23.60 pf/ft	6.80 ohm
87200250C	500'	20	2-conductor, mid cap, PE, solid, non-shielded	PE	20.96 pf/ft	10.15 ohm
87200210C	1,000'	20	2-conductor, mid cap, PE, solid, non-shielded	PE	20.96 pf/ft	10.15 ohm
872002P10C	1,000'	20	2-conductor, mid cap, PE, solid, non-shielded, plenum rated	FEP	18 pf/ft	10.15 ohm

WIRE NUMBER CODING

1st digit: 8 = Aiphone approved wire

2nd digit: Type of wire → 1 = non-shielded 5 = low capacitance
 2 = shielded 6 = twisted pair / shielded
 3 = twisted pair 7 = solid PE, low / mid capacitance

3rd & 4th digits: Gauge → 22 = 22 AWG 20 = 20 AWG 18 = 18 AWG 16 = 16 AWG

5th & 6th digits: Number of-conductors → 02 = 2-conductors 12 = 12-conductors

7th & 8th digits: Length of wire → 10 = 1,000' box 50 = 500' box 25 = 250' box

9th digit: "C" indicates new wire

DB = Direct Burial

P = Plenum

WIRE NUMBER CODING EXAMPLE

1st: Aiphone Approved
2nd: TYPE - Shielded
3rd & 4th: GAUGE - 22 AWG
5th & 6th: CONDUCTORS 02=2 Conductors
7th & 8th: WIRE LENGTH 10=1,000' Box
9th: "C" is New Wire

8

2

22

02

10

C

WIRE INFORMATION

All wire is stranded unless otherwise indicated.

Non-plenum wires have a gray jacket. Plenum wires have a natural jacket.

All wire meets the following standards: UL, C(UL), UL 444, CA Fire Marshal

Contact Aiphone for current pricing.

Using Aiphone wire extends your product warranty by one year.

2025 CATALOG



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