



ANALOG  
PRODUCT  
CATALOG

**UNCOMPROMISED SECURITY**  
Powered by Human Connection

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Reliable communication  
where it's needed most.

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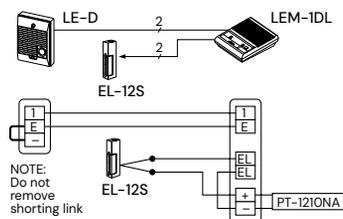
# C O N T E N T S

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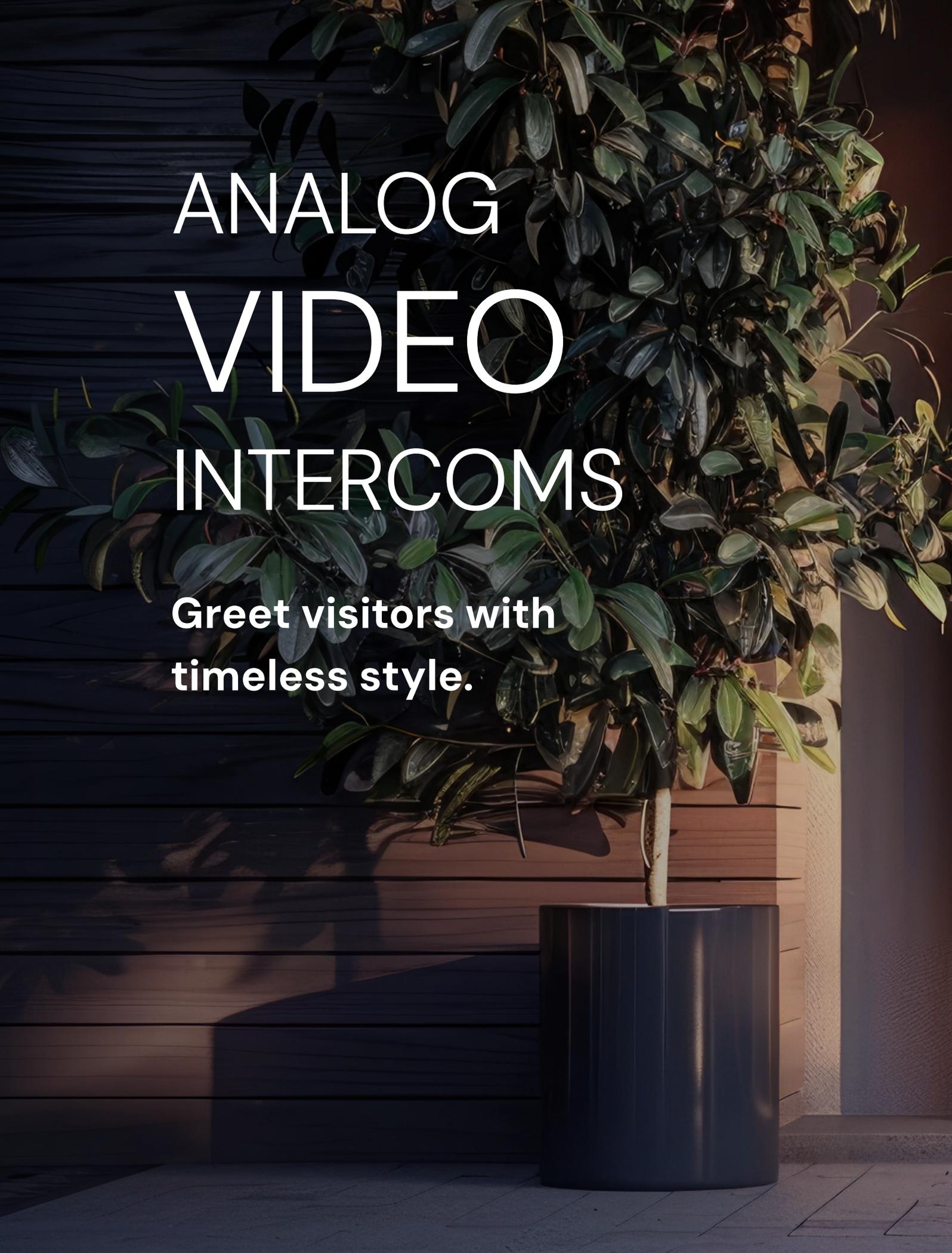
## ANALOG AUDIO INTERCOMS

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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.



A large, leafy plant in a dark cylindrical pot against a dark wood-paneled wall. The plant has thick, dark green leaves and is positioned in the foreground. The background is a wall with horizontal wood slats. The lighting is dramatic, with strong shadows and highlights.

# ANALOG VIDEO INTERCOMMS

**Greet visitors with  
timeless style.**



103



DOOR MSTR/SUB

4 x 8

# JP Series Video Intercom with Call Partitioning

**BOX SETS:** select 1 (up to 3 door stations and 7 sub answering stations can be added)



START WITH  
A BOX SET

### JPS-4AED

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

### JPS-4AEDV

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

### JPS-4AEDF

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

**DOOR STATIONS:** mix and match up to 4  
(only up to 3 if a box set is selected)



**JP-DA**  
p.9



**JP-DV**  
p.9



**JP-DVF**  
p.9



**JP-DVF-PR**  
p.9



**GT-D**  
p.9

## ANSWERING STATION



**JP-4MED**  
p.8

Cat-5e/6 wire  
N/A from  
Aiphone  
650' between  
answering station  
and adaptor

2 wires  
Aiphone  
#871802  
330'

2 wires  
Aiphone  
#871802  
33'

2  
wires

Door Strike  
and Power



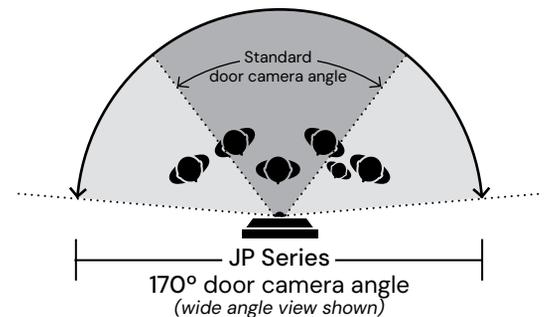
**PS-2420UL**  
p.55

- Camera position and zoom can be set for call-in
- Camera can be adjusted to compensate for bright illumination
- Built-in memory records up to 20 calls which can be expanded to 1,000 calls with a removable SD/SDHC card (not included)
- Entry can be monitored via the answering station and sub answering 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)

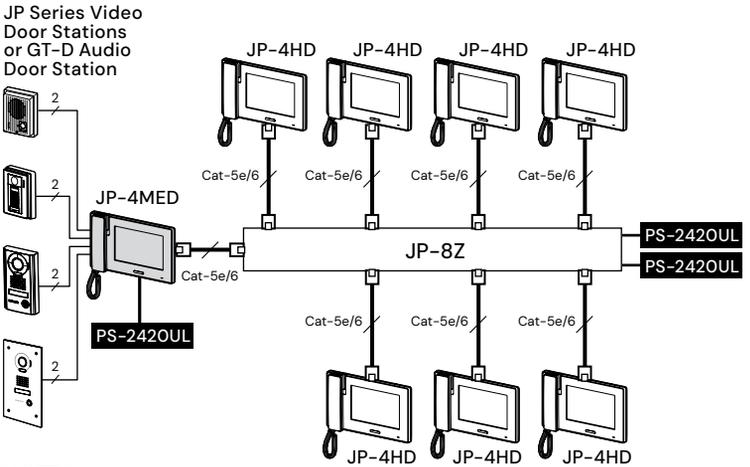
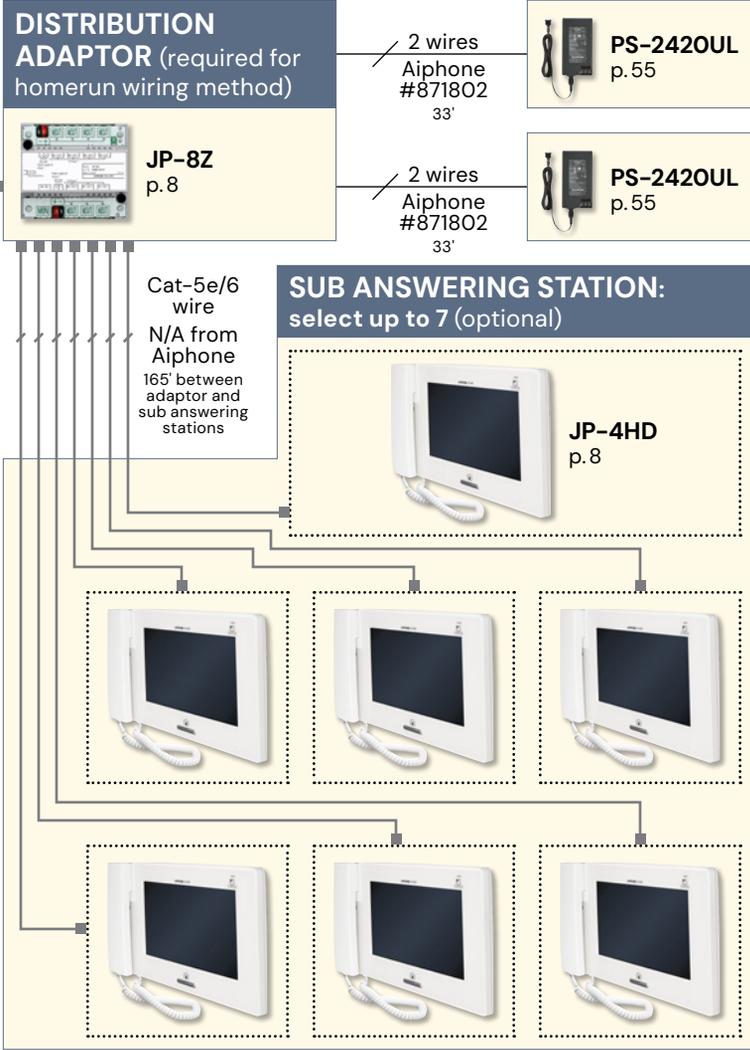
- Convenient 1x1 box sets are complete with a answering station, door station, and power supply
- Up to three more door stations and seven sub answering stations can be added for a full 4x8 system

## Camera View Area



GET MORE  
INFORMATION  
ON THIS SYSTEM





- NOTES:**
1. Total cumulative wiring distance between JP-4MED and farthest JP-4HD is 980' (300m)
  2. JP-4MED requires one power supply
  3. Up to four JP-4HDs can use one power supply (use two power supplies for five or more)

**ACCESSORIES**

 <b>SBX-CON1</b> Conduit Box for GT-D, JP-DA, and JP-DV p. 50	 <b>KAW-D</b> 30° Angle Box for JP-DA p. 52	 <b>MKW-P</b> 1-Gang Mounting Plate for JP-DV p. 53
 <b>KMB-45</b> 45° Mullion Mounting Bracket for GT-D or JP-DA p. 52	 <b>JK-MB</b> Mullion Mounting Bracket for JP-DV p. 52	 <b>SBX-DV30</b> 30° Angle Box for JP-DV p. 52
 <b>SBX-DVF</b> Surface Mount Box for JP-DVF p. 50	 <b>SBX-IDVFRA</b> Surface Mount Box for JP-DVF-PR p. 50	 <b>SBX-ACE</b> Surface Mount Box for GT-D or JP-DA and one Access Control Device p. 50
 <b>JPW-BA</b> Long Distance/CCTV Adaptor for Door Stations p. 9	 <b>EL-12S</b> Electric Door Strike for Door Frames (requires PT-1210NA) p. 48	 <b>RY-1824L</b> Form C Door Release Relay (one per door—up to two per system) p. 49
 <b>RY-3DL</b> Selective Door Release Adaptor (for three or four doors—three require one RY-3DL and one RY-1824L) p. 49	 <b>IER-2</b> Call Extension Speaker p. 49	 <b>MCW-S/B</b> Desk Stand for JP-4MED or JP-4HD p. 53
 <b>RY-ES</b> External Signaling Relay p. 48		

# JP Series Features and Specifications



**JP-4MED**  
Video Answering 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
- Camera position and zoom can be set for call-in
- Video out via supplied connector
- Built-in memory records up to 20 calls
- Removable media storage expands memory to 1,000 calls (card not included)
- Security inputs for alerting stations



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

**Power Source** 24V DC—use PS-2420UL

**Power Draw** JP-4MED: 340mA  
JP-4HD: 200mA

**Communication** Hands-free (VOX) or handset (full-duplex)

**Video Display** 7" LCD touchscreen

**Picture Memory** Internal/Built-In: record up to 20 calls (6 images per call) with up to 5 calls protected from overwriting  
SD/SDHC card: record up to 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** To door station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802

To power supply: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802

To adaptor or sub answering station: Cat-5e or Cat-6

**Distance** To door station: 165' (22 AWG) 330' (18 AWG)

To distribution adaptor: 650'

To long distance/CCTV adaptor: 330' (18 AWG)

To power supply: 16' (22 AWG) 33' (18 AWG)

Total cumulative distance between answering stations: 980'

**Dimensions** 5-11/16" H 10-1/16" W 1-7/8" D



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

**Power Source** 24V DC—use PS-2420UL

**Capacity** Up to seven video sub answering stations

**Mounting** DIN rail (included)

**Wire Type** Cat-5e

**Distance** To answering station: 650'  
To sub answering station: 165'  
To power supply: 16' (22 AWG) 33' (18 AWG)

**Dimensions** 4-5/16" H 4-13/16" W 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 a built-in 125 kHz Wiegand proximity reader

**Power Source** Supplied by answering station

**Communication** Hands-free

**Camera** Type: 1/4" CMOS  
View Area: 100° vertical x 170° horizontal

**Operating Temp** JP-DA: -40°~140°F (-40°~60°C)  
JP-DV, JP-DVF: -4°~140°F (-20°~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** To answering station: 2-cond., low cap, non-shielded—use Aiphone #871802

**Distance** To answering station: 330'  
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 3-13/16"W 1-3/16"D  
JP-DV: 6-13/16"H 3-7/8"W 1"D  
JP-DVF: 8-1/4"H 5-5/16"W  
JP-DVF-PR: 11-11/16"H 7"W 2-1/16"D

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



**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)



**GT-D**  
Audio 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 directly to wall

**Wire Type** 2-cond., low cap, PE, solid, non-shielded—use Aiphone #871802

**Distance** To answering station: 330'

**Dimensions** 5-1/8"H 3-7/8"W 1-1/8"D



**JPW-BA**  
Long Distance/  
CCTV Adaptor

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

**Power Source** 24V DC—use PS-2420UL

**Capacity** One adaptor unit for each video door/sub 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** To door station: 650'  
To answering station: 330'

**Dimensions** 4-5/16"H 4-13/16"W 2-3/8"D

# JO Series Video Intercom with Mobile App

**BOX SETS:** select 1 (a JO-DV, a JO-1FD, and up to 8 mobile apps can be added to any box set)



**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**

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



**JO-DA**  
p.13



**JO-DV**  
p.13



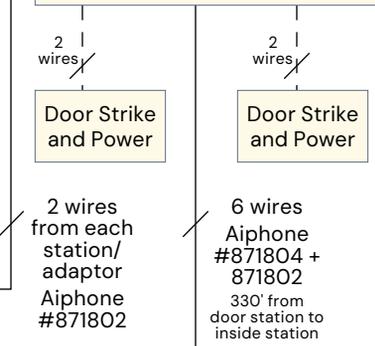
**JO-DVF**  
p.13

**TWO-DOOR STATION ADAPTOR** (required for 2 door stations)



**JOW-2D**  
p.13

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



- 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 a standalone 2.4Ghz WiFi connection that cannot be dual-band)
- Simple daisy chain wiring
- Convenient 1x1 box sets are complete with a answering station, door station, and power supply
- One expansion answering station and a second door station can be added for a 2x2 system



**PS-1820UL**  
p.55

2 wires  
Aiphone #871802  
33'

**EXPANSION STATION** (optional)

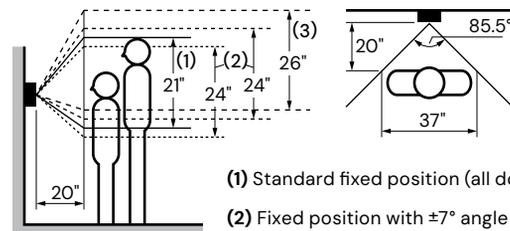


**JO-1FD**  
p.12

**WIRING NOTICE:**

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

**Camera View Area**



GET MORE INFORMATION ON THIS SYSTEM

**ANSWERING STATION: select 1**  
(none if a box set is selected)



**JO-1MDW**  
p.12

**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  
330'

2 wires\*  
Aiphone  
#871802  
330'

\*Two additional wires are required for door release

**MOBILE APP**



**Intercom App Type B**  
p.12

**ACCESSORIES**



**SBX-CON1**  
Conduit Box for JO-DA or JO-DV  
p.50



**KAW-D**  
30° Angle Box for JO-DA  
p.52



**MKW-P**  
1-Gang Mounting Plate for JO-DV  
p.53



**KMB-45**  
45° Mullion Mounting Bracket for JO-DA  
p.52



**JK-MB**  
Mullion Mounting Bracket for JO-DV  
p.52



**SBX-DV30**  
30° Angle Box for JO-DV  
p.52



**SBX-DVF**  
Surface Mount Box for JO-DVF  
p.50



**SBX-ACE**  
Surface Mount Box for JO-DA and one Access Control Device  
p.50



**EL-12S**  
Electric Door Strike for Wood Frames (requires PT-1210NA)  
p.48



**RY-1824L**  
Form C Door Release Relay  
p.49



**IER-2**  
Call Extension Speaker  
p.49

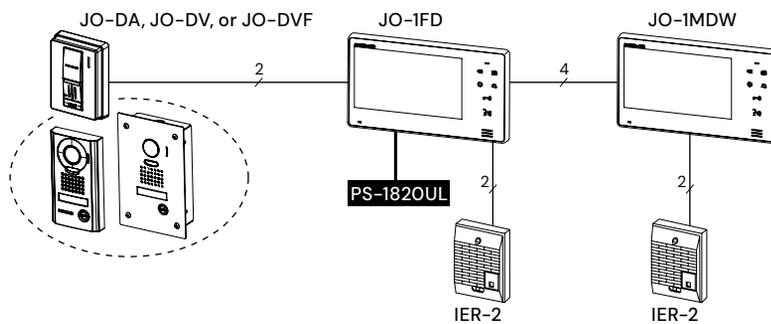


**RY-ES**  
External Signaling Relay  
p.48

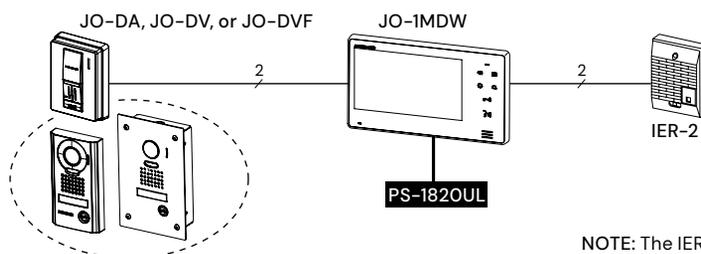


**MCW-S/B**  
Desk Stand for JO-1MDW or JO-1FD  
p.53

**Example WITH JO-1FD**



**Example WITHOUT JO-1FD**



NOTE: The IER-2 is optional.

# JO Series Features and Specifications



**JO-1MDW**  
Video Answering Station  
(included with JOS-1AW, JOS-1VW, and JOS-1FW box sets—also sold separately)



**JO-1FD**  
Video Expansion Station

- 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** To door station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802  
To expansion station: 4-cond., mid cap, solid, non-shielded—use Aiphone #871804  
To expansion station with door release: 6-cond., mid cap, solid, non-shielded—use Aiphone #871804 + #871802

**Distance** To door station or to expansion station: 165' (22 AWG) 330' (18 AWG)  
To power supply: 16' (22 AWG) 33' (18 AWG)

**Dimensions** JO-1MDW: 6-1/8"H 8-1/4"W 1-1/16"D  
JO-1FD: 5-1/8"H 9-1/16"W 13/16"D



**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 monitor the video door station remotely
- 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
- Download from Google Play™ or App Store™



**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 unlocks the door currently being called or monitored

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

**Power Draw** 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 4-13/16" W 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 an 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 answering 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** To answering station or expansion station: 2-cond., low cap, non-shielded—use Aiphone #871802

**Distance** To answering station or expansion station: 330' (18AWG)

**Dimensions** JO-DA: 5-1/16" H 3-13/16" W 1-3/8" D  
JO-DV: 6-13/16" H 3-7/8" W 1-1/16" D  
JO-DVF: 8-1/4" H 5-5/16" W

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



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



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

DOOR 1 x ANSWER 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**

**DOOR STATIONS: select a box set**



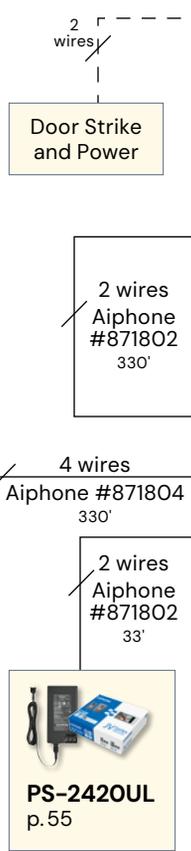
**JV-DV**      **JV-DVF**

**ANSWERING 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.



**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 answering station.

## ACCESSORIES



**SBX-CON1**  
Conduit Box for JV-DV  
p. 50



**MKW-P**  
1-Gang Mounting Plate for JV-DV  
p. 53



**JK-MB**  
Mullion Mounting Bracket for JV-DV  
p. 52



**SBX-DV30**  
30° Angle Box for JV-DV  
p. 52



**SBX-DVF**  
Surface Mount Box for JV-DVF  
p. 50



**IER-2**  
Call Extension Speaker  
p. 49



**EL-12S**  
Electric Door Strike for Wood Frames  
(requires PT-1210NA)  
p. 48



**RY-1824L**  
Form C Door Release Relay  
p. 49



**RY-ES**  
External Signaling Relay  
p. 48



**MCW-S/B**  
Desk Stand for JV-1MD or JV-1FD  
p. 53



GET MORE INFORMATION ON THIS SYSTEM



# JV Series Features and Specifications



**JV-1MD**  
Video Answering Station  
(included with JVS-1V 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** JV-1MD: internal memory records up to 30 images, 1 image per recording  
JV-1FD: N/A

**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** To door station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802  
To expansion station: 4-cond., mid cap, solid, non-shielded—use Aiphone #871804  
To expansion station with door release: 6-cond., mid cap, solid, non-shielded—use Aiphone #871804 + #871802

**Distance** To door station or to expansion station: 165' (22 AWG) 330' (18 AWG)  
To power supply: 16' (22 AWG) 33' (18 AWG)

**Dimensions** 5-1/8"H 9-1/16"W 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 answering 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** To answering station or expansion station: 2-cond., low cap, non-shielded—use Aiphone #871802

**Distance** To answering station or expansion station: 330' (18 AWG)

**Dimensions** JV-DV: 6-11/16"H 3-3/16"W 15/16"D  
JV-DVF: 8-1/4"H 5-5/16"W

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

# GT Series Standard Multi-Tenant Video Intercom

VIDEO INTERCOMS

## ENTRANCE STATIONS: mix and match up to 16

Ready-to-Install Single Panel



**GT-DMB-N**  
p.20

Ready-to-Assemble Modular Kits



**GTV-DES104B**  
p.20



**GTV-DES202B**  
p.20



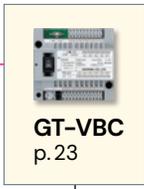
**GTA-DESB**  
p.20

*NOTE: To build custom entrance stations, see modular components and mounting accessories on pages 24-25.*



**PS-2420UL**  
p.55

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



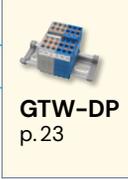
**GT-VBC**  
p.23



**PS-2420UL**  
p.55



**GT-BC**  
p.23



**GTW-DP**  
p.23



**PS-2420UL**  
p.55

## TENANT STATIONS: mix and match up to 48\*

\*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 (48 stations total per system)



**GT-1C7W**  
p.22



**GT-1C7**  
p.22



**GT-1M3**  
p.22



**GT-1A**  
p.22



**GT-1D**  
p.22

## VIDEO GUARD STATION: select up to 2



**GT-MKB-N**  
p.22



**GT-MKB-N**  
p.22

GET MORE INFORMATION ON THIS SYSTEM

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

**TENANT STATIONS: mix and match up to 48\***

\*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 (48 stations total per system)



**GT-1C7W**  
p.22



**GT-1C7**  
p.22



**GT-1M3**  
p.22



**GT-1A**  
p.22



**GT-1D**  
p.22

2 wires

2 wires

- Analog camera input (GT-DMB-N, GT-VB)
- Both video and audio entrance panels can be combined in the same system
- Calls can be answered and entrances can be unlocked using any tenant station
- Mobile app option with the GT-1C7W tenant station
- Optional doorbell input for tenant stations
- Panic call switch for emergency calling to guard or concierge
- Tenant can monitor the entryway in a video system
- Tenant directory can quickly be updated with NFC-compatible stations
- Link data allows easy programming of multiple entrance and video guard stations
- Setting via dip switch for digital systems (GT-1C7, GT-1C7W, GT-1M3)
- Simple wiring with two common wires for audio and two additional wires for video
- Video guard station(s) can be included to provide communication between office/lobby and tenants

**ACCESSORIES**



**SBX-GTDMB**  
Surface Mount Box for GT-DMB-N p.25



**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.25



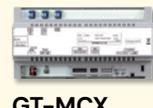
**MCW-S/B**  
Desk Stand for GT-1C7, GT-1C7W, GT-1M3, and GT-1A p.53



**GFK-PS**  
Urgent Call Pull Cord p.23



**GT-RY**  
External Signaling Relay p.23



**GT-MCX**  
Network Adaptor for Remote Programming (includes mounting rail) p.23



**GT-4Z**  
4-Way Video Distribution Adaptor p.23



**GT-4ZP**  
4-Way Video/Power Distribution Adaptor for GT-1C7W p.23

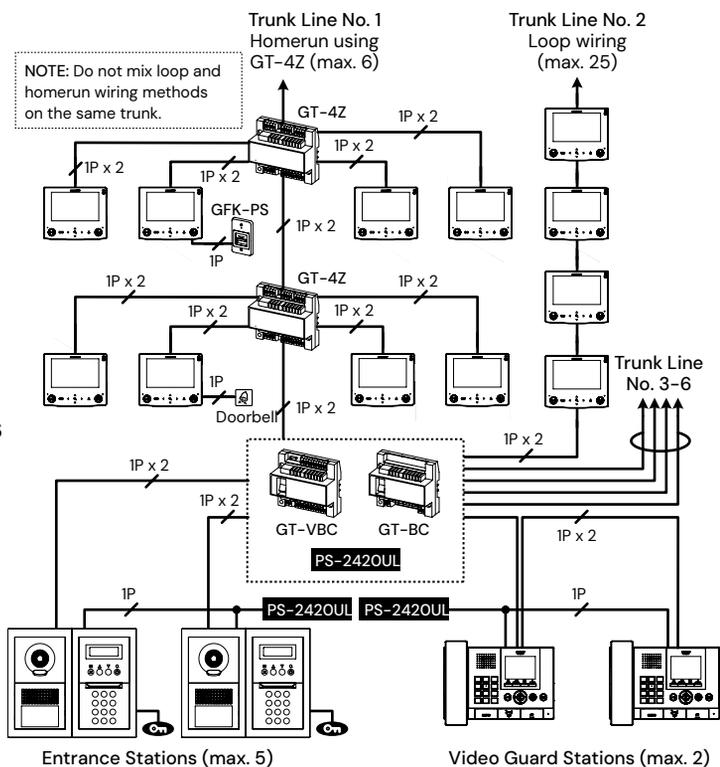


**W-DIN11**  
DIN Mounting Rail for Control Units p.25

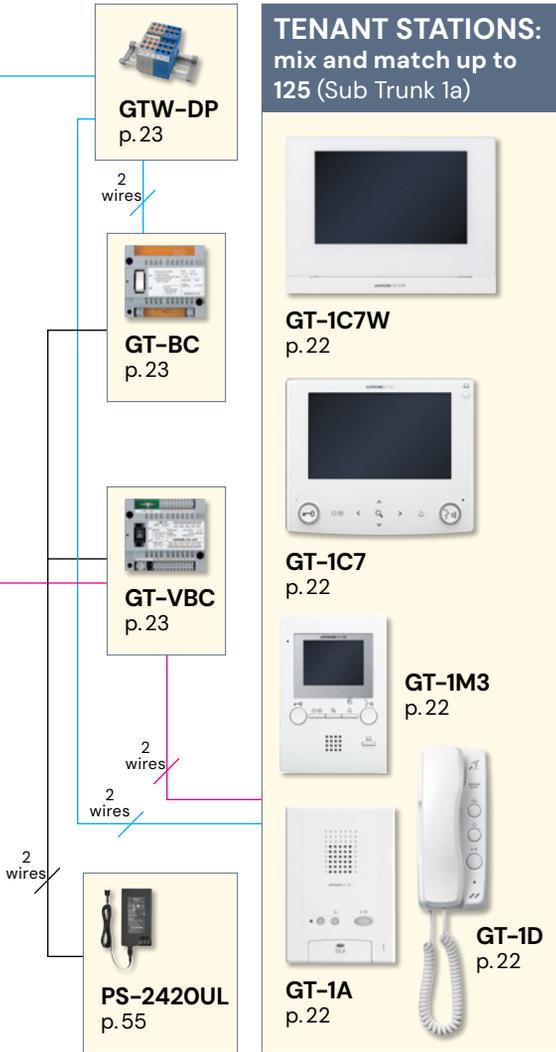
**NFC-CARD** (not shown)  
Access Card for GT-DB-VN and GT-DMB-N p.20

**NFC-FOB** (not shown)  
Access Fob for GT-DB-VN and GT-DMB-N p.20

**GT Standard Configuration Sample**



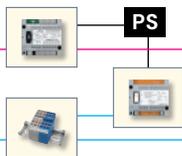




### ACCESSORIES

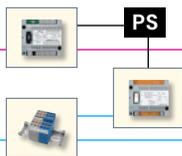
- GT-102HB**  
2-Module Hooded Surface Mount Box (GT-102HB, GT-103HB, GT-104HB, GT-202HB, GT-203HB, and GT-303HB are also available) p.25
- SBX-GTDMB**  
Surface Mount Box for GT-DMB-N p.25
- GFK-PS**  
Urgent Call Pull Cord p.23
- GT-RY**  
External Signaling Relay p.23
- GT-MCX**  
Network Adaptor for Remote Programming (includes mounting rail) p.23
- GTW-LC**  
Multi-Relay Control Unit (for use with Expanded System only—requires GT-BCXB-N) p.23
- GT-4Z**  
4-Way Video Distribution Adaptor p.23
- GT-4ZP**  
4-Way Video/Power Distribution Adaptor for GT-1C7W p.23
- W-DIN11**  
DIN Mounting Rail for Control Units p.25
- NFC-CARD** (not shown)  
Access Card for GT-DB-VN and GT-DMB-N p.20
- NFC-FOB** (not shown)  
Access Fob for GT-DB-VN and GT-DMB-N p.20
- MCW-S/B**  
Desk Stand for GT-1C7, GT-1C7W, GT-1M3, and GT-1A p.53

See Sub Trunk 1a above for details



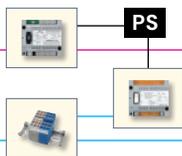
### TENANT STATIONS: mix and match up to 125 (Sub Trunk 1b)

See Sub Trunk 1a above for details



### TENANT STATIONS: mix and match up to 125 (Sub Trunk 2a)

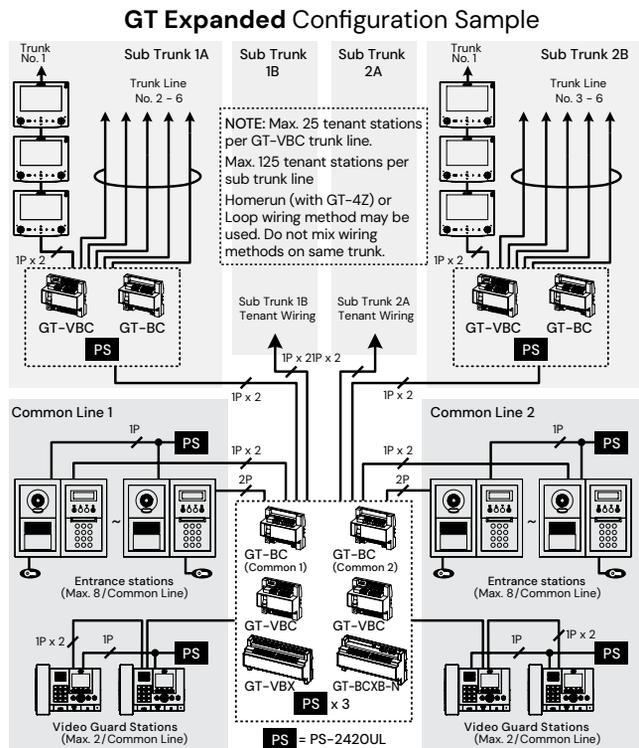
See Sub Trunk 1a above for details



### 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 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 or surface mount with SBX-GTDMB (both sold separately)  
GTA-DESB: semi-flush mount with the included GF-3B or surface mount with GT-103HB (sold separately)

GTV-DES104B: semi-flush mount with the included GT-4B or surface mount with GT-104HB (sold separately)

GTV-DES202B: semi-flush mount with the two included GF-2Bs or surface mount with GT-202HB (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.23

**Dimensions** GT-DMB-N: 12-5/8"H 5-7/8"W  
GTA-DESB: 12-5/8"H 5-5/16"W 5/8"D  
GTV-DES104B: 16-3/4"H 5-5/16"W 5/8"D  
GTV-DES202B: 8-7/8"H 10-5/8"W 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 24–25.



# 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 or handset communication
- 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

**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 9-13/16" W 1-1/2" D



**GT-1C7W**  
App-Compatible Video Tenant  
Station (requires PS-2420UL  
or GT-4ZP for power and WiFi  
connection for mobile app)

- Up to eight free mobile apps can be connected (requires GT-1C7W and 2.4GHz WiFi connection)
- Door release, 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.23

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



**GT-1C7**  
Video Tenant Station



**GT-1M3**  
Video Tenant Station



**GT-1A**  
Audio  
Tenant  
Station

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



**GT-1D**  
Audio Tenant  
Station with  
Handset

- Door release and 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

**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, GTW-DP: 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 2-3/8"D  
GT-BCXB-N, GT-MCX, GT-VBC, GTW-LC: 4-1/4"H 8-1/4"W 2-3/8"D



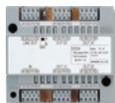
**GT-VBC**  
Video Bus Control Unit



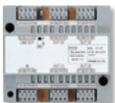
**GT-BCXB-N**  
Expanded Bus Control Unit  
(includes mounting rail)



**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)

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'



**GTW-DP**  
Distribution Point Terminal Strip  
(includes mounting rail)



**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 2-3/16"W 7/8"D



**GFK-PS**  
Urgent Call Switch with 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 2-3/4"W 1-1/4"D

# GT Series Features and Specifications

## Modular Components for Custom Entrance Stations

### Audio Module and Panel (required for custom entrance stations)



### Video Module and Panel



**Power Source** GT-10K, GT-DB, GT-DB-VN, GT-SW, GT-VB: supplied by system  
GT-NSB: 24V DC—use PS-2420UL

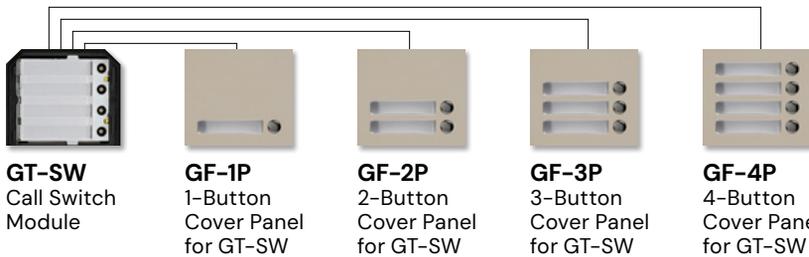
**Door Release** GT-DB, GT-DB-VN: Form C dry contact, 24V AC/DC, 4A

**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

### Direct Select Module and Panels



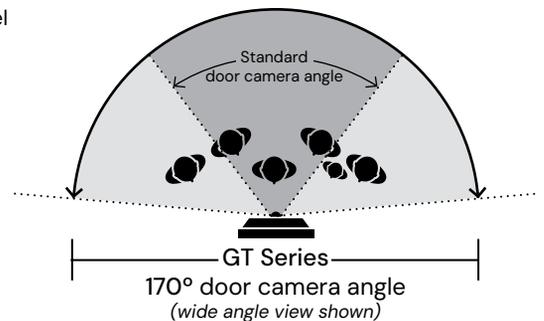
**Distance** Variable wiring distances—see table on p.23

**Dimensions** Panels: 3-3/4"H 4-5/16"W 5/16"D

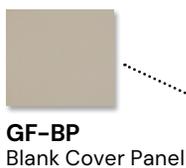
### Digital Scroll Modules and Panels



### Camera View Area



### Optional Placeholder



*Easily mix and match modular components to customize entrance stations.*



**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 station configuration

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

**Dimensions** GT-OP2: 8-7/8"H 5-5/16"W 5/8"D  
GT-OP3: 12-5/8"H 5-5/16"W 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

- Hooded boxes provide additional weather protection (GT-nHB)
- 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 bit)



**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)

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**



**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-DIN1**  
DIN Mounting Rail for Control Units

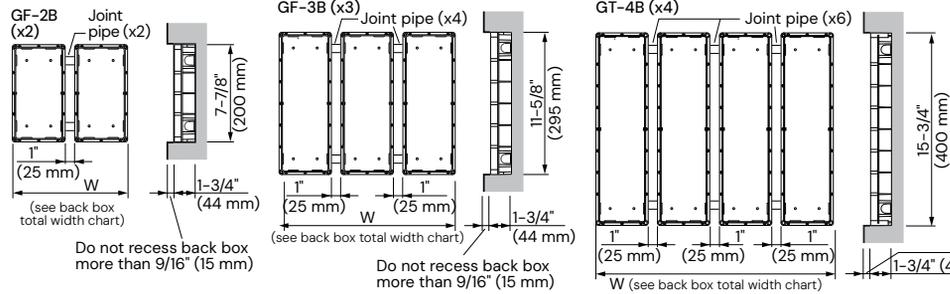
### Rain Hood & Hooded Surface Mount Box Dimensions

Component	Height (in / mm)	Width (in / mm)
SBX-GTDMB	12-11/16" / 323	6-1/8" / 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
GF/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" / 1055
9 back boxes	46-7/8" / 1190



ANALOG  
AUDIO  
INTERCOMS

**Add communication  
where it's needed most.**



**DOOR AND SUB STATIONS:** mix and match up to 10 (requires 1 answering station)



**LE-D**  
p.31



**LE-SS-1G**  
p.31



**LE-DA**  
p.31



**LE-SS/A**  
p.31



**LE-SSR**  
p.31



**LS-NVP/C**  
p.31



**LE-A**  
p.30



**LE-B**  
p.30

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

## ANSWERING STATIONS: mix and match up to 11



**LEF-3L**  
p.30



**LEF-3C**  
p.30



**LEF-10**  
p.30



**LEF-10C**  
p.30

**IMPORTANT VOLTAGE NOTICE:**  
Use 12V DC voltage only.  
Connecting AC voltage to an LEF answering station can damage the component.



**PS-1225UL**  
p.55



**PS-1208UL**  
p.55

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

## ACCESSORIES



**SBX-CON1**  
Conduit Box  
for LE-D  
p.50



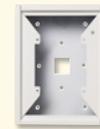
**KMB-45**  
45° Mullion  
Mounting  
Bracket  
for LE-D  
p.52



**SBX-1G**  
Surface  
Mount  
Box for  
LE-SS-1G  
p.51



**SBX-2G/A**  
Surface  
Mount Box  
for LE-DA,  
LE-SS/A,  
and LE-SSR  
p.51



**SBX-NVP/A**  
Surface  
Mount Box  
for LS-NVP/C  
p.51



**EL-12S**  
Electric Door  
Strike for Wood  
Frames (*requires  
PT-1210NA*)  
p.48



**RY-PA**  
Door Release  
Relay  
p.31



**BG-10C**  
All Call, Chime,  
and Music  
Adaptor  
(*requires  
PS-1225UL*)  
p.30



**LEW-10**  
Terminal Box  
p.30



**RY-AC/A**  
External  
Signaling  
Relay  
p.48

# LEF Series Features and Specifications



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



**LEF-3C**  
3-Call Audio Answering 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 calling
- LEF-3C and LEF-10C can call all stations at once (requires BG-10C)

**Power Source** LEF answering stations: 12V DC—use PS-1208UL (use PS-1225UL if installing BG-10C)  
LE-A, LE-B: supplied by answering station

**Power Draw** 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-3L, LEF-10, LE-A: surface mount directly to wall or desk mount  
LEF-3C, LEF-10C, LE-B: semi-flush mount into wall or desk mount

**Wire Type** Variable wire types—refer to installation manual

**Distance** To farthest sub answering station: 650' (22 AWG), 1,600' (18 AWG)

**Dimensions** LEF-3L: 7-1/16" H 5-5/8" W 2-1/8" D  
LEF-3C: 8-3/16" H 6" W 2" D (recessed 9/16")

LEF-10: 8-1/8" H 7-1/2" W 2-3/16" D

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

LE-A: 6-5/16" H 5-3/16" W 2" D

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



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



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



**LE-A**  
Audio Sub Station



**LE-B**  
Audio Sub Station

- Provides internal communication with answering stations



**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 system (All Call and music receiving)
- Provides All Call and door chime for LEF-C systems
- Background music input

**Power Source** 12V DC, 2.5A—use PS-1225UL  
Standby: 100mA

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

**All Call Receive** All LEF answering stations

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

**Controls** Music ON/OFF, 11 selector switches for 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 9-13/16" W 6-1/2" D



**LEW-10**  
Terminal Box

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

# LEF Series Features and Specifications



**LE-D**  
Audio Door Station

- Weather resistant
- Push button to call answering station(s)
- Hands-free communication when call is answered

**Power Source** Supplied by answering 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** To LEF answering station: 3-cond., overall shield—use Aiphone #822203  
To LEM answering station: 2-cond., overall shield—use Aiphone #822202 or #821802

**Distance** To answering station: 650' (22 AWG) 1,600' (18 AWG)

**Dimension** LE-D: 4-3/4"H 3-7/16"W 1-1/8"D  
LE-DA: 4-1/2"H 4-9/16"W  
LE-SS-1G: 4-1/2"H 2-3/4"W  
LE-SS/A, LE-SSR: 4-3/4"H 4-3/4"W  
LE-NVP/C: 7-1/2"H 5-1/2"W  
*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.*



**LE-DA**  
Audio Door Station



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

- Weather and vandal resistant
- Stainless steel, mechanical call button (LE-SS-1G, 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 call is answered
- Pigtail wires for connection to answering station
- Includes tamper proof mounting screws



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



**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 2-3/16"W 7/8"D

# LEM-1DL Series Access Sentry Intercom

## DOOR STATIONS: select 1

-  **LE-D**  
p.31
-  **LE-SS-1G**  
p.31
-  **LE-DA**  
p.31
-  **LE-SS/A**  
p.31
-  **LE-SSR**  
p.31
-  **LS-NVP/C**  
p.31

## ANSWERING STATIONS: select 1

-  **LEM-1DL**  
p.33
-  **LEM-1DLC**  
p.33

2 wires  
Aiphone  
#822202  
650' between  
door station  
and farthest  
answering  
station

-  **PT-1210NA**  
p.55

Door Strike  
and Power

**LEM-1DL**  
2 + 2 wires  
Aiphone  
#822202  
650' between door  
station and farthest  
answering station

-  **PT-1210NA**  
p.55

**LEM-1DLC**  
3 + 2 wires  
Aiphone  
#822203  
and #822202  
650' between door  
station and farthest  
answering station

## ANSWERING STATIONS: select 1 (optional)

-  **LEM-1DL**
-  **LEM-1DLC**

## BOX SET

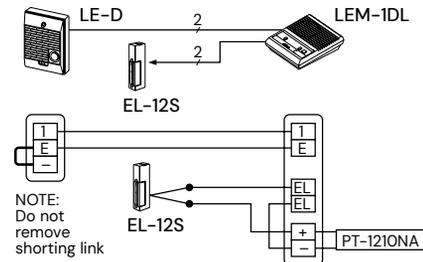


**LEM-1DLs:**  
LEM-1DL,  
LE-D, and  
PT-1210NA

## ACCESSORIES

-  **SBX-CON1**  
Conduit  
Box for  
LE-D  
p.50
-  **KMB-45**  
45° Mullion  
Mounting  
Bracket  
for LE-D  
p.52
-  **SBX-1G**  
Surface  
Mount  
Box for  
LE-SS-1G  
p.51
-  **SBX-2G/A**  
Surface Mount  
Box for LE-DA,  
LE-SS/A, and  
LE-SSR  
p.51
-  **SBX-NVP/A**  
Surface Mount  
Box for LS-NVP/C  
p.51
-  **DAK-2S**  
Dual Answering  
Adaptor Kit  
*(required per two  
LEM-1DL answering  
stations—not required  
for LEM-1DLC  
answering stations)*  
p.33
-  **EL-12S**  
Electric  
Door Strike  
*(requires  
PT-1210NA)*  
p.48
-  **RY-AC/A**  
External Signaling  
Relay *(requires  
shared PS-1208UL with  
LEM-1DL and DAK-2S  
or shared PS-1208UL  
with LEM-1DLC)*  
p.48

- Hands-free communication to a single door
- Door release capabilities
- Compact and quick to install with multi-conductor wire



GET MORE INFORMATION ON THIS SYSTEM

# LEM-1DL Series Features and Specifications



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

- Door release (N/O contact)
- Calling and two-way communication with door station
- Call tone and voice volume control
- Supports up to four answering stations with DAK-2S

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

**Power Draw** 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** To door station: 2-cond.,  
overall shield—use Aiphone  
#822202 or #821802

Between LEM-1DLCs: 3-cond.,  
overall shield—use Aiphone  
#822203 or #821803

**Distance** To door station from  
farthest answering station:  
650' (22 AWG) 1,570' (18 AWG)

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



**LEM-1DLC**  
Audio Answering Station  
(up to four)

- Supports up to four answering stations and one door station
- Provides communication to LE series door stations
- Voice volume control
- Push-to-talk communication
- Privacy LED to indicate when another answering station has answered the door



**DAK-2S**  
Dual Answering Adaptor Kit

- Allows second LEM-1DL answering station to be used
- Allows RY-AC/A to be used for external signaling
- Two component modules per kit

**ANSWERING STATION:** select up to 60



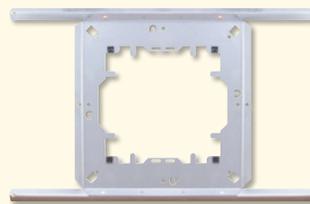
**MC-60/4A**



**MC-60/4A**

7 wires  
Aiphone  
#852207  
See wire distance  
on the next page

**ACCESSORIES**



**SSB-3**  
Ceiling Support Bracket for SP-2570N  
p. 54

7 wires  
Aiphone  
#852207  
See wire  
distance on  
the next page

**PAGING ADAPTOR**

(1 required for  
system paging)



**MC-A/A**

2 wires  
Aiphone  
#822202  
16'



**PS-2420UL**  
p. 55

**PAGING AMPLIFIERS**

(1 required for system paging)



**MD35M**  
p. 54



**MD60M**  
p. 54



**MD120M**  
p. 54

2 wires  
Aiphone  
#822202  
500'

2 wires  
Aiphone  
#821802

**PAGING SPEAKER:** install

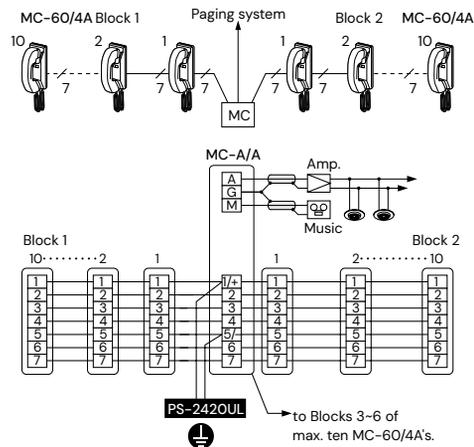
number of speakers needed  
(based on amplifier wattage)



**AH-16T**  
p. 53



**SP-2570N**  
p. 54



GET MORE  
INFORMATION  
ON THIS SYSTEM



# MC Series Features and Specifications



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

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

**Power Source** 24V DC—use PS-2420UL

**Power Draw** 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** To paging adaptor form farthest answering station on block:  
1,700' (22 AWG) 4,000' (18 AWG)

Total cumulative wiring between paging adaptor and answering station: 5,000' (22 AWG)

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



**MC-A/A**  
Paging Adaptor

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

**Power Source** 24V DC—use PS-2420UL

**Input** AUX 10kΩ, 0.3V–0.5V

**Music Output** Range 100mV–1.2V, 10kΩ or less

**Dimensions** 2" H 3-9/16" W 5-5/8" D

**NOTE:** Compatible speaker and paging amplifiers are located in the ACCESSORIES section (p.54).

# 25 TD-H Series Selective Call Intercom

**ANSWERING 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)



TD-1H/B



TD-12H/B



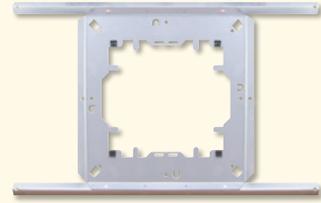
TD-24H/B

2 wires  
Aiphone  
#822202



PS-1225UL  
p.55

## ACCESSORIES



**SSB-3**  
Ceiling Support Bracket for SP-2570N  
p.54



**RY-AC/A**  
External Signaling Relay  
p.48

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



PD-2

3 wires  
Aiphone  
#822203

2 wires  
Aiphone  
#822202

2 wires  
Aiphone  
#822202

**PAGING SPEAKER:** install number of speakers needed (based on amplifier wattage)



**AH-16T**  
p.53



**SP-2570N**  
p.54

**PAGING AMPLIFIERS** (1 required per paging adaptor)



**MD35M**  
p.54



**MD60M**  
p.54



**MD120M**  
p.54

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



GET MORE  
INFORMATION  
ON THIS SYSTEM



# TD-H Series Features and Specifications



**TD-1H/B**  
1-Call Audio  
Answering Station  
with Handset



**TD-12H/B**  
12-Call Audio  
Answering Station  
with Handset



**TD-24H/B**  
24-Call Audio  
Answering Station  
with Handset

**Power Source** 12V DC—use PS-1225UL

**Power Draw** 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-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 answering stations:  
2,000' (22 AWG) 4,800' (18 AWG)

**Dimensions** TD-1H/B, TD-12H/B: 8-1/4"H 3-15/16"W 2-7/8"D  
TD-24H/B: 8-1/4"H 3-15/16"W 3-1/4"D

- Up to 25 answering 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



**PD-2**  
Zone Paging/  
Talkback Adaptor

**NOTE:** Compatible speaker  
and paging amplifiers are  
located in the ACCESSORIES  
section (p.54).

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

**Power Source** 12V DC, 48mA (talkback)—  
supplied by answering 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 answering station: 3-cond.  
overall shield—use Aiphone #822203

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

## BOX SET

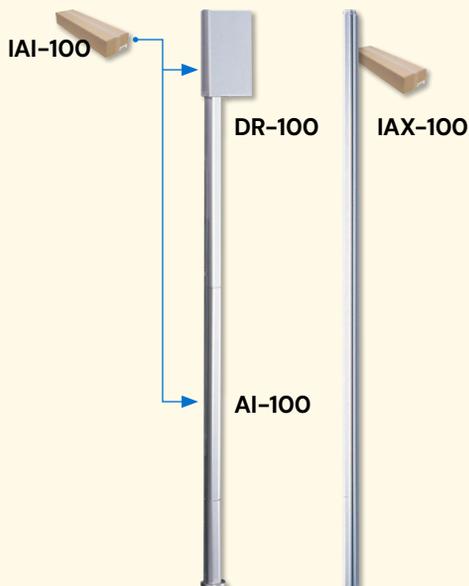
### IM-1

Box Set with IMU-100, IAI-100, IAX-100, IME-100, ISE-100, and PS-242OUL

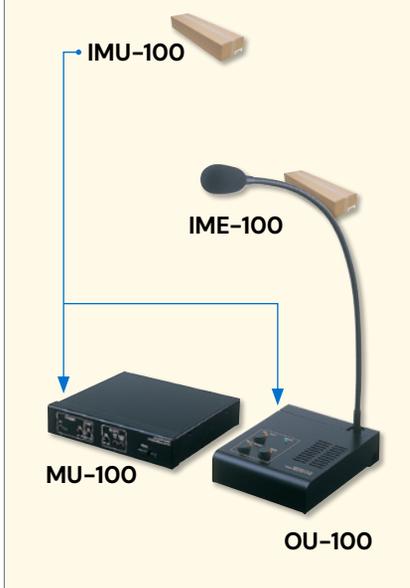


START WITH A BOX SET

## SPEAKER DRIVER, ACOUSTIC I/O TUBE, AND TUBE EXTENSION



## CONTROL UNIT AND OPERATION UNIT



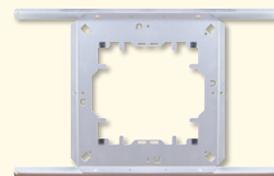
2 wires  
Aiphone  
#822202  
66'

2 wires  
Aiphone  
#821802  
66'

2 wires  
Aiphone  
#821802  
66'

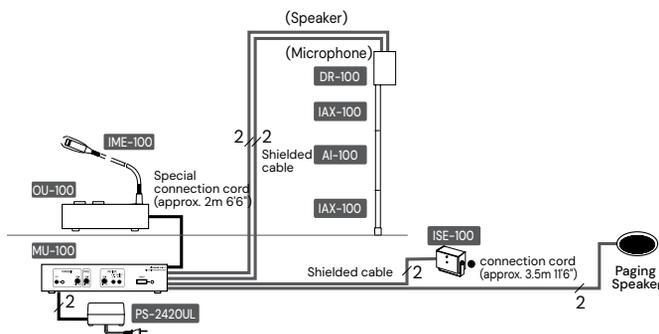


## ACCESSORIES



- Inconspicuous unit allows for a clear view of visitors at 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

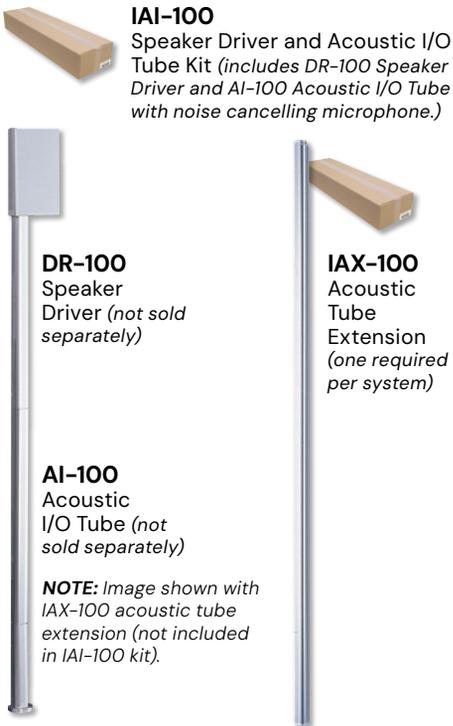
- When the TALK switch is off, the Operation Unit is put on standby, but sound from public side is still heard at reduced volume
- By linking the system to a motion sensor, communication mode is automatically activated when a customer is present



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' (22 AWG/18 AWG)

**Dimensions** AI-100: 15-1/4" H 1-1/16" W 15/16" D  
DR-100: 5-7/8" H 3-5/16" W 1-7/16" D  
IAX-100: 39-3/8" H 1-1/16" W 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 (included with IM-1 box set—also sold separately)

**MU-100**  
Control Unit (not sold separately)

**NOTE:** Compatible ceiling speaker is located in the ACCESSORIES section (p. 54).

**OU-100**  
Operation Unit (not sold separately)

**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' (22 AWG/18 AWG)

**Dimensions** IME-100: 20-1/16" H 9/16" diameter  
MU-100: 1-3/4" H 8-1/4" W 8-1/8" D  
OU-100: 1-15/16" H 5-1/8" W 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 2-7/8" W 1-3/16" D

# NHX Series Nurse Call Intercom (UL 1069 Listed)

## SUB STATIONS: mix and match up to 10 per trunk with up to 8 trunks



**One bedside call button is required per sub station jack**



## CENTRAL CONTROL UNIT

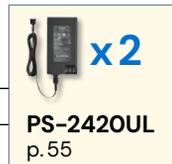


4P  
Aiphone #862208  
330' per trunk line

5P  
Aiphone #862210  
65'

4P  
Aiphone #862208  
65'

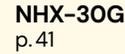
2 wires  
Aiphone #821802



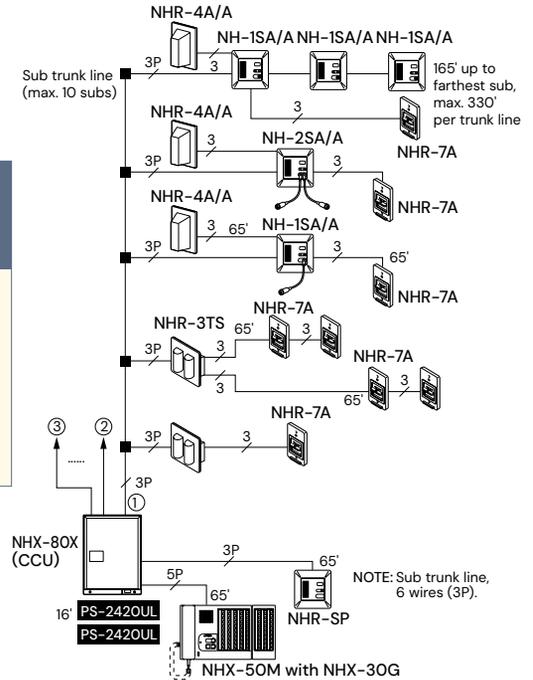
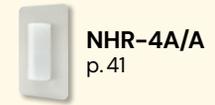
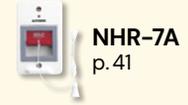
## DUTY STATION (optional)



## ANSWERING STATION



## ACCESSORIES



## 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-242OULs

**Wire Type** Sub or duty station to central control unit: 4 twisted pair, low cap, PE, overall shield—use Aiphone #862208

Answering station to central control unit: 5 twisted pair, low cap, PE, overall shield—use Aiphone #862210

**Distance** To sub station: 165' (22AWG)

To duty station: 65' (22AWG)

To answering station: 65' (22AWG)

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



GET MORE INFORMATION ON THIS SYSTEM



# NHX Series Features and Specifications



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



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

- NHX-50M:**
- Distinct tone and light indicators for routine, urgent, and cord-out calls
  - Auto-connects to the next priority call without needing to select station
  - Alert tone sounds if power or data wire is interrupted, or if handset is off-hook for more than 90 seconds
  - Tone off button

**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** Answering station to central control unit: 5 twisted pair, low cap, PE, overall shield–use Aiphone #862210

**Distance** To central control unit: 65' (22 AWG)

**Dimensions** NHX-50M: 8-1/4" H 11" W 3-11/16" D  
NHX-30G: 8-1/4" H 3-9/16" W 2-5/16" D

- NHX-30G:**
- Plugs into NHX-50M with supplied connectors
  - Expands NHX-50M to an 80-call answering station



**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-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

**Power Source** Supplied by central control unit (NHX-80X)

**Wire Type** To central control unit: 4 twisted pair, low cap, PE, overall shield–use Aiphone #862208

**Distance** Sub station to central control unit: 165' (22 AWG)  
Duty station to central control unit: 65' (22 AWG)

**Dimensions** NH-1SA/A, NH-2SA/A, NHR-SP: 4-3/4" H 4-9/16" W 1-13/16" D  
NHR-3TS: 4-3/4" H 4-9/16" W 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-SP:**
- Alerts staff when an answering 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 an answering station
  - Flush mount with standard 2-gang box

- Two corridor lights indicate call location
- Wires the same as a bedside sub station
- Flush mount with standard 2-gang box
- Stainless steel cover



**NHR-8C®**  
Bedside Call Button



**NHR-8A-L**  
Latching Bedside Call Button  
*(not UL 1069 Listed)*

- Button activates routine call at answering station
- Cord-out activates urgent call at answering station



**NHR-7A®**  
Urgent Call Pull Cord

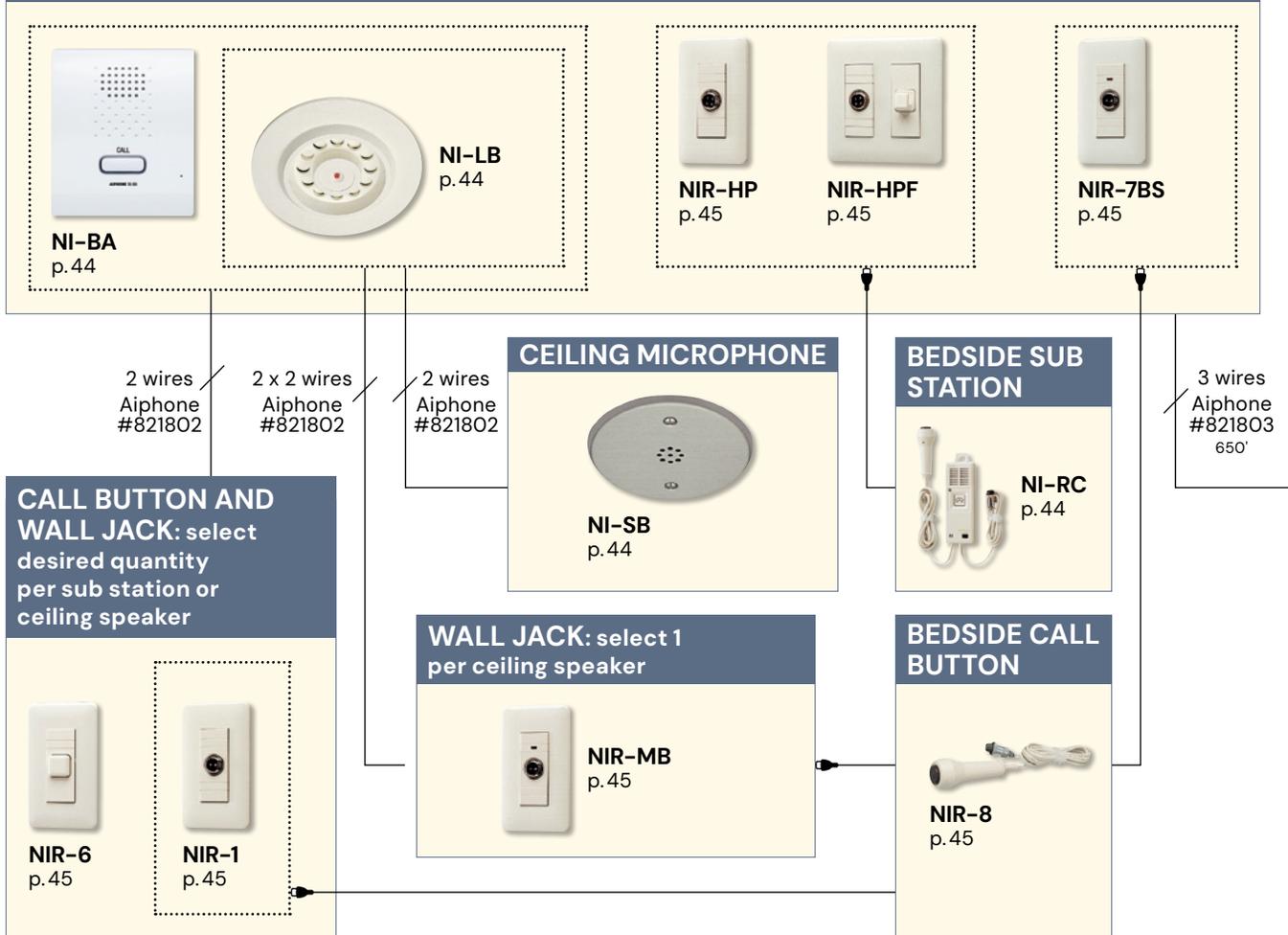


**NHR-4A/A®**  
LED Corridor Light  
*(red and amber LEDs)*

- 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 answering station selection)



- Answering stations available in 20 and 40-call sizes
- Built-in All Call, Selective Call, and Group Call
- Push-to-talk at answering station or use handset
- Group Call up to five subs at a time
- Indicator lights on answering station remain lit until calls are answered (up to 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.40.



GET MORE  
INFORMATION  
ON THIS SYSTEM



**ANSWERING STATIONS: select 1**

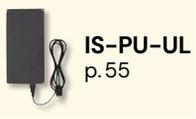


**NIM-20B**  
p.44



**NIM-40B**  
p.44

2 wires  
Aiphone  
#821802  
33'



**IS-PU-UL**  
p.55

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.45



**NIR-4**  
Single Room  
Corridor Call Light  
p.45



**NIR-4S**  
Multi-Room  
Corridor  
Call Light  
p.45



**NIR-4BZ**  
Corridor Light with  
Tone Indicator  
p.45



**NIR-42**  
Corridor Light with  
Call Reset Button  
p.45



**NIR-31**  
Corridor Light with  
One Magnetic  
Nameplate  
p.45



**NIR-32**  
Corridor Light  
with Two Magnetic  
Nameplates  
p.45



**NIR-34**  
Corridor Light with Four  
Magnetic Nameplates  
p.45



**NIR-7HW**  
Bathroom Call  
Button with  
Pull Cord  
p.45



**NI-SOFT**  
Call Event Log  
PC Software  
(includes RS-232  
cable, approx. 40")  
p.45



**IER-2**  
Call Extension  
Speaker  
p.49



**RY-ES**  
External Signaling Relay  
p.48

# NIM Series Features and Specifications



**NIM-20B**  
20-Call Audio Answering Station with Handset

- Supports up to 20 or 40 door stations, sub stations, ceiling speakers, and wall jacks
- Selective Call, Group Call, and All Call
- Volume controls
- Handset for privacy



**NIM-40B**  
40-Call Audio Answering Station with Handset

**Power Source** 48V DC—use IS-PU-UL

**Communication** Handset (VOX) or push-to-talk (simplex)

**Door Release** N/A

**Material** Panel: fire resistant ABS plastic  
Chassis: SPCC

**Wire Type** 3 cond. overall shield—use Aiphone #821803

**Distance** To door station or sub station: 650' (18 AWG)  
To power supply: 33' (18 AWG)

**Dimensions** NIM-20B: 9-1/16"H 13"W 5-1/2"D  
NIM-40B: 9-1/16"H 18-7/8"W 5-1/2"D



**NI-BA**  
Audio Sub Station



**NI-RC**  
Bedside Sub Station

**Power Source** Supplied by answering 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** To answering station: 3 cond. overall shield—use Aiphone #821803

**Distance** To answering station: 650' (18 AWG)

**Dimensions** NI-BA: 5-7/8"H 5-1/8"W 1-5/16"D  
NI-RC: 6-3/4"H 2-3/16"W 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 answering 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** To answering station: 3 cond. overall shield—use Aiphone #821803  
To NIR-MB: 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 answering 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

**Dimensions** NIR-1: 4-3/4" H 2-3/4" W 1-5/8" D  
NIR-6: 4-3/4" H 2-3/4" W 1-7/8" D  
NIR-7BS, NIR-MB: 4-3/4" H 2-3/4" W 2-7/16" D  
NIR-8: 3-3/4" H 1-7/16" diameter  
NIR-HP: 4-3/4" H 2-3/4" W 1-5/8" D  
NIR-HPF: 4-3/4" H 4-9/16" W 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



**NIR-32**  
Corridor Light with Two Magnetic Nameplates



**NIR-34**  
Corridor Light with Four Magnetic Nameplates



**NIR-7HW**  
Bathroom Call Button with Pull Cord

**Power Source** Supplied by answering 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 2-3/4" W 1-1/2" D  
NIR-4, NIR-4S: 4-3/4" H 2-3/4" W 1-1/8" D  
NIR-4BZ: 4-3/4" H 4-9/16" W 3-5/16" D  
NIR-42: 4-3/4" H 4-9/16" W 2-1/16" D  
NIR-31, NIR-32: 5-11/16" H 7-1/2" W 1-9/16" D  
NIR-34: 5-11/16" H 12-1/16" W 1-9/16" D  
NIR-2: 4-3/4" H 2-3/4" W 1" D



**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

Support various system requirements  
with optional components.



# Accessories Features and Specifications



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

- 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** 60Ω DC

**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 13/16"W 1-1/8"D



**RY-AC/A**  
External Signaling  
Relay for LEF Series,  
LEM-1DL Series,  
and TD-H Series  
(requires DAK-2S  
when used with  
LEM-1DL Series)

- Triggers an external device when the intercom is called
- External device remains on when the call button is activated

**Power Source** 12V DC—supplied by answering station

**Contact Rating** 240V AC, 0.3A, 24V DC, 1A (bell, buzzer, or chime must be AC operated or DC mechanical type only)

**Dimensions** 4-1/8"H 2-7/16"W 1-5/8"D



**RY-ES**  
External Signaling  
Relay for JO Series,  
JP Series, JV Series,  
and NIM Series

- Triggers an external device when the intercom is called
- External device remains on during chime at connected station

**Power Source** 12–24V DC, 12–16V AC—  
supplied by answering station

**Contact Rating** 125V AC, 1.0A 30V DC, 1.0A

**Dimensions** 4-1/8"H 2-7/16"W 1-5/8"D

# Accessories Features and Specifications



**IER-2**  
Call Extension Speaker  
for JO Series, JP Series,  
JV Series, and 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 3-7/16"W 1-1/8"D



**RY-3DL**  
Selective Door  
Release Adaptor  
for JP Series

- Selective door release with one button
- Triggers door release where communication is established
- Normally open (N/O) contacts for electric strike
- Normally closed (N/C) contacts for magnetic locks

**Power Source** Shared with answering station—PS-2420UL

**Contact Rating** Three Form C dry contacts, 50V AC, 1A 30V DC, 1A

**Distance** Answering station to door release adaptor:  
165' (22AWG) 330' (18AWG)

**Dimensions** 5-1/2"H 3"W 1-1/2"D



**RY-1824L**  
Form C Door  
Release Relay  
for JO Series,  
JP Series, and  
JV 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 answering station

**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 13/16"W 7/16"D  
(wires extend approximately 7-1/2")

# Accessories Features and Specifications



**SBX-CON1**  
Conduit Box for JO-DA,  
JO-DV, JP-DA, JP-DV,  
JV-DV, and 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 6"W 2"D



**SBX-ACE**  
Surface Mount Box for  
GT-D, JO-DA, or JP-DA 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-IDVFRA: 18GA stainless steel  
SBX-DVF: 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 bit)

**Dimensions** SBX-ACE: 7-1/16"H 9-1/8"W 4-1/4"D  
SBX-DVF: 8-5/16"H 5-1/2"W 3-3/16"D  
SBX-IDVFRA: 11-11/16"H 7"W 3-5/16"D



**SBX-DVF**  
Surface Mount  
Box for JO-DVF,  
JP-DVF, or JV-DVF

- Hood provides weather resistance
- Includes space inside for wiring
- Mounts directly to wall
- Openings at bottom allow for moisture drainage



**SBX-IDVFRA**  
Surface Mount Box  
for JP-DVF-PR

# Accessories Features and Specifications



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

- Weather resistant
- Includes space inside for wiring
- Mounts directly to wall surface

**Material** SBX-1G, SBX-2G/A: 18GA stainless steel  
SBX-NVP/A: 1/8" rolled steel

**Mounting** Surface mount directly to wall or  
1-gang box with included hardware  
(8 x 32 with T-15 Torx bit)

**Dimensions** SBX-1G: 4-9/16"H 2-15/16"W 2-15/16"D  
SBX-2G/A: 4-13/16"H 4-7/8"W 4"D  
SBX-NVP/A: 8-5/5"H 6-5/8"W 2-3/4"D



**SBX-2G/A**  
Surface Mount Box  
for LE-DA, LE-SS/A,  
and 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 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  
JO-DA and JP-DA

- 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 left or right 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 4-1/8" W 2-3/8" D



**KMB-45**  
45° Mullion  
Mounting Bracket  
for GT-D, JO-DA,  
JP-DA, and LE-D

- Compatible with Aiphone 1-gang surface mount door stations
- Mounts door stations to mullion with a 45° angle
- Can mount to either left or right 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 5-1/2" W 1-3/4" D



**SBX-DV30**  
30° Angle Box for  
JO-DV, JP-DV,  
and JV-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** 18GA stainless steel

**Mounting** Surface mount directly to wall or 1-gang box

**Dimensions** 6-13/16" H 3-5/8" W 2-7/8" D



**JK-MB**  
Mullion Mounting  
Bracket for JO-DV,  
JP-DV, and JV-DV

- Mounts compatible station to a door frame or mullion
- Designed to fit station precisely and conceals wiring inside
- Can mount to either left or right of door

**Material** Aluminum

**Mounting** Surface mount directly to mullion or 1-gang box

**Dimensions** 6-13/16" H 3-7/8" W 3/16" D

# Accessories Features and Specifications



**MKW-P**  
1-Gang Mounting Plate  
for JO-DV or JP-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 4"W 3/8"D



**MCW-S/B**  
Desk Stand for GT-1A, GT-1C7, GT-1C7-L, GT-1M3, JO-1FD, JO-1MDW, JP-4HD, JP-4MED, JV-1FD, and JV-1MD

- Desktop or countertop installations
- 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 6-1/2"W 8"D



**AH-16T**  
Horn Speaker

- Compression type, double re-entrant loud horn speaker
- Integrated 16W, 25/70V rotary select transformer
- 121dB volume rating
- Built-in transformer for 25/70/100V systems
- Horizontal or vertical mount
- Adjustable mounting base

**Average Sensitivity** 110dB SPL, 1W/1M

**Power Rating** 16W RMS, EIA 426A standard

**Calculated Output** 121dB SPL, 16W, 1M

**Frequency Response** 450Hz–15kHz EIA, 426A standard

**Nominal Coverage Angle** 110° included angle, -6dB/2kHz, half space

**Audio Connection** Screw terminals

**Transformer** 25/70V 16W–5 tap, rotary select (16W, 8W, 4W, 2W, 1W)

**Finish** Tan enamel

**Weight** 5 lbs.

**Dimensions** Horn: 7-5/8" diameter 9-3/16"D

Base: 3-1/8" diameter; adjustable dual axis

# 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
- Dual cone
- Excellent sound and voice reproduction
- Easy installation in a drop tile ceiling using the SSB-3 support bracket

**Power Rating** 8W RMS

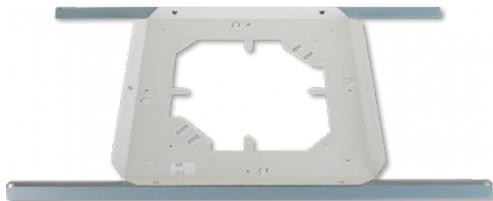
**Impedance** 8Ω direct or 25/70V transformer

**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

**Material** SP-2570N: 22 gauge steel zincrometal with white semi-gloss powdered epoxy finish  
SSB-3: rust-resistant steel

**Dimensions** SP-2570N: 8" speaker diameter; 12-7/8" baffle diameter  
SSB-3: 14-5/8"H 23-3/4"W 9/16"D



**SSB-3**  
Ceiling Support Bracket for SP-2570N



**MD35M®**  
35W Paging Amplifier

- Can be used with any Aiphone system with paging ability (see specifications for requirements)
- Three channel inputs
- Wide frequency response with very low distortion
- Balanced microphone input

**Power Source** 120V AC, 50–60Hz

**Output** 35/60/120W RMS

**Input** Microphone: 250Ω balanced  
Telephone: 600Ω balanced  
Auxiliary: 47kΩ  
VoIP: 50kΩ unbalanced

**Distortion** Less than 0.5% THD

**Frequency Response** 20Hz–20kHz ± 2dB

**Dimensions** 1-3/4"H 8-1/2"W 12-1/2"D



**MD60M®**  
60W Paging Amplifier

- 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



**MD120M®**  
120W Paging Amplifier

# Accessories Features and Specifications



**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

**Power Draw** 37W, 65–82VA

**Dimensions** 6–9/16" H 3–9/16" W 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

**Power Draw** 45W, 75–95VA

**Dimensions** 6–9/16" H 3–9/16" W 2–1/16" D



**PS-2420UL**®  
24V DC, 2A Power Supply for  
GT Series, IM Series, JP Series,  
JV Series, MC Series, and NHX Series

**Cord Length** 6'2"

**Input** 100–240V AC, 50/60Hz

**Output** 24V DC, 2A

**Power Draw** 60W, 100–125VA

**Dimensions** 6–9/16" H 3–9/16" W 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

**Power Draw** 120W

**Dimensions** 10–7/16" H 5–1/8" W 3–1/16" D



**PT-1210NA**  
12V AC Transformer for  
EL-12S or LEM-1DL Series

**Input** 120V AC, 60Hz

**Output** 12V AC, 10VA, 830mA

**Power Draw** 15W

**Dimensions** 2–7/8" H 1–15/16" W 1–11/16" D



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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:** Copper Wire

8

2

22

02

10

C

## WIRE INFORMATION

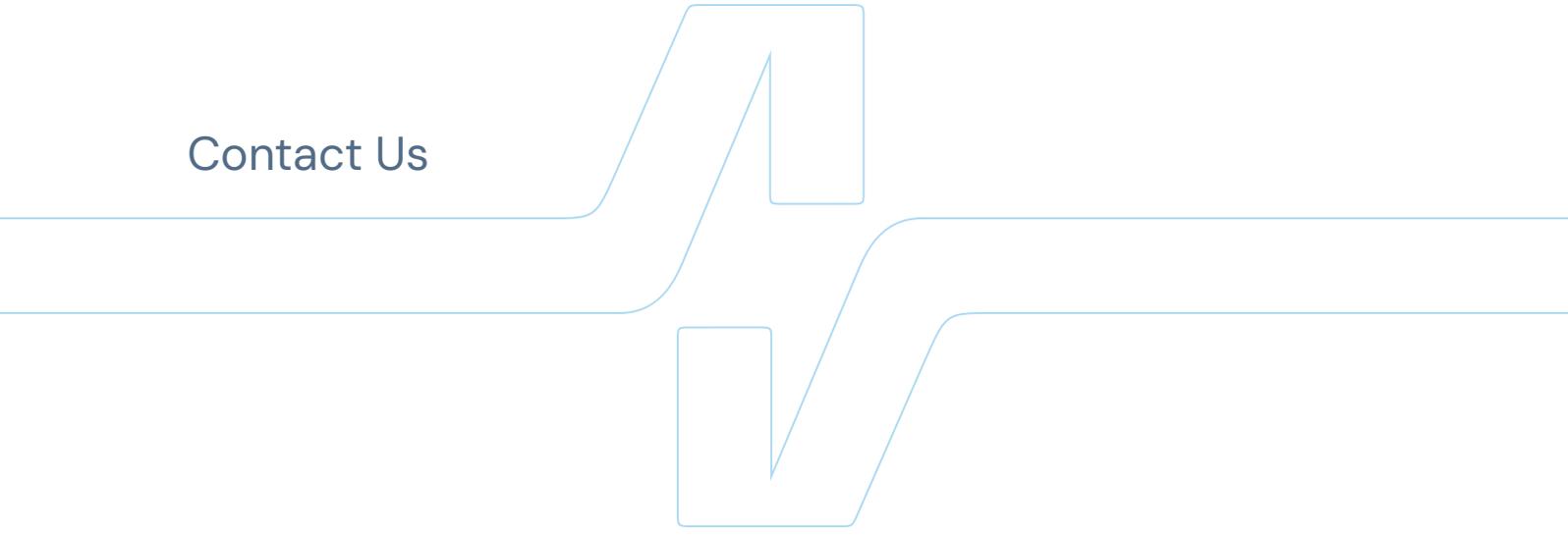
All wire is stranded unless indicated.

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

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