



ANALOG
PRODUCT
CATALOG

UNCOMPROMISED SECURITY
Powered by Human Connection

Reliable communication
where it's needed most.

OFFICE | SCHOOL | HOME



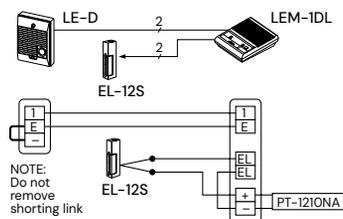
C O N T E N T S

ANALOG VIDEO INTERCOMS

DOOR 4	MSTR/SUB 8	JP Series	Video Intercom with Call Partitioning	6	
DOOR 2	ANS/EXP 2	APP 8	JO Series	Video Intercom with Mobile App	10
DOOR 1	ANSWER 2		JV Series	Video Intercom	14
ENTRANCE 5	GUARD 2	TENANT 48	GT Series (Standard)	Multi-Tenant Video Intercom	16
ENTRANCE 16	GUARD 4	TENANT 500	GT Series (Expanded)	Multi-Tenant Video Intercom	18

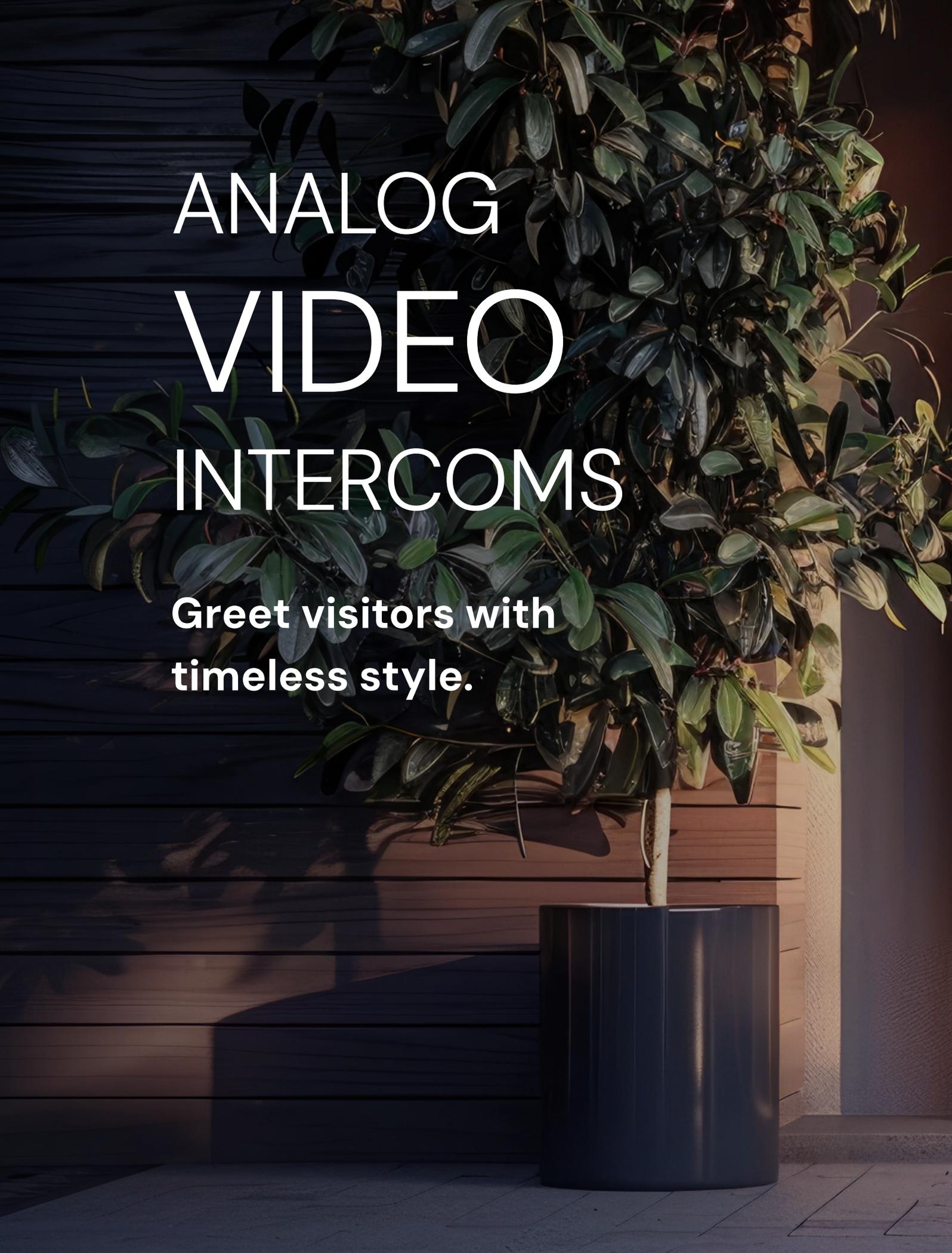
ANALOG AUDIO INTERCOMS

	STATIONS 11	LEF Series	Selective Call and All Call Intercom	28	
DOOR 1	ANSWER 4	LEM-1DL Series	Access Sentry Intercom	32	
ANSWER 60	SPEAKER ∞	MC Series	MarketCom	34	
	STATIONS 25	TD-H Series	Selective Call Intercom	36	
SPEAKER KIT 1	CONTROL KIT 1	IM Series	Security Window Intercom	38	
SUB 80	ANSWER 1	DUTY 1	NHX Series	Nurse Call Intercom	40
DOOR/SUB/SPEAKER/JACK 20 or 40	ANSWER 1	NIM Series	Lamp Tone Intercom	42	
Accessories				46	
Index				57	
Wire by Stock Number				58	



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





ANALOG VIDEO INTERCOMS

**Greet visitors with
timeless style.**



JP Series Video Intercom with Call Partitioning

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



JPS-4AED

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

JPS-4AEDV

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

JPS-4AEDF

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

START WITH
A BOX SET

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



JP-DA
p.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



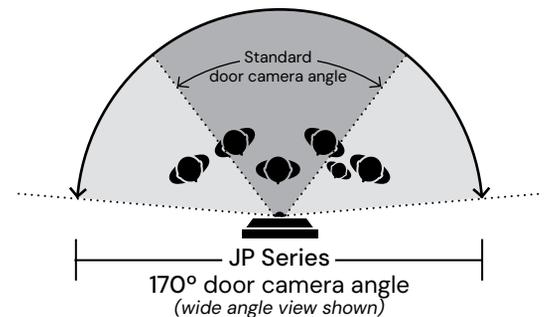
PS-2420UL
p.55

- 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)

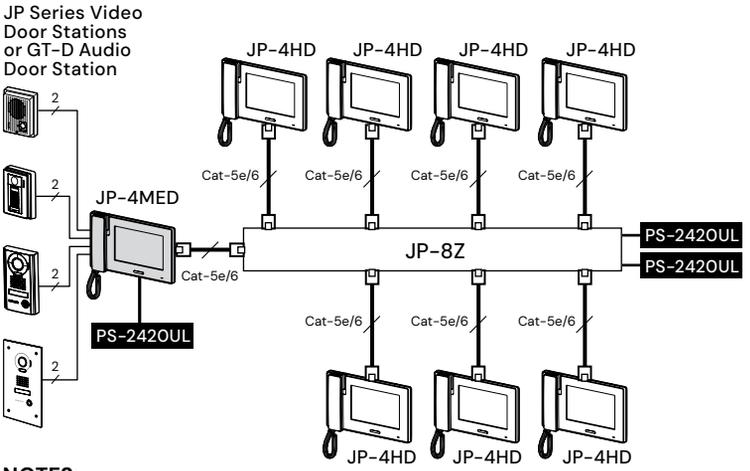
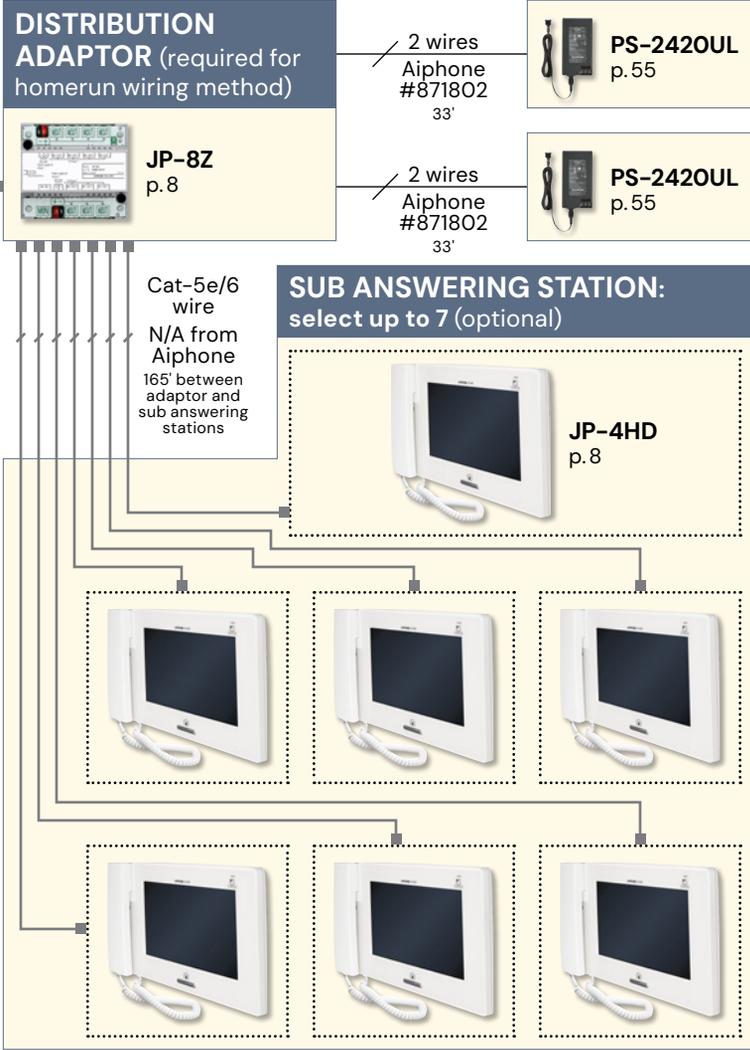
- Convenient 1x1 box sets are complete with a answering station, door station, and power supply
- Up to three more door stations and seven sub answering stations can be added for a full 4x8 system

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



SBX-CON1
Conduit Box for GT-D, JP-DA, and JP-DV p. 50



KAW-D
30° Angle Box for JP-DA p. 52



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



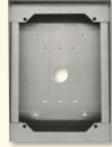
KMB-45
45° Mullion Mounting Bracket for GT-D or JP-DA p. 52



JK-MB
Mullion Mounting Bracket for JP-DV p. 52



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



SBX-DVF
Surface Mount Box for JP-DVF p. 50



SBX-IDVFRA
Surface Mount Box for JP-DVF-PR p. 50



SBX-ACE
Surface Mount Box for GT-D or JP-DA and one Access Control Device p. 50



JPW-BA
Long Distance/CCTV Adaptor for Door Stations p. 9



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



RY-1824L
Form C Door Release Relay (one per door—up to two per system) p. 49



RY-3DL
Selective Door Release Adaptor (for three or four doors—three or four doors require one RY-3DL and one RY-1824L) p. 49



IER-2
Call Extension Speaker p. 49



RY-ES
External Signaling Relay p. 48



MCW-S/B
Desk Stand for JP-4MED or JP-4HD p. 53

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

VIDEO INTERCOMS

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



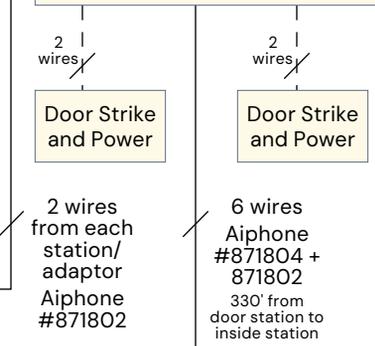
JO-DVF
p.13

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)

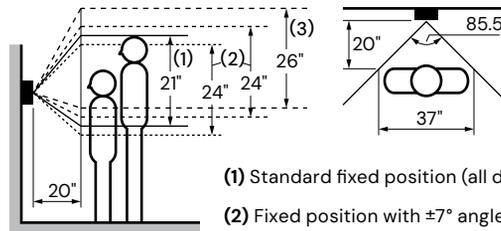


JO-1FD
p.12

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

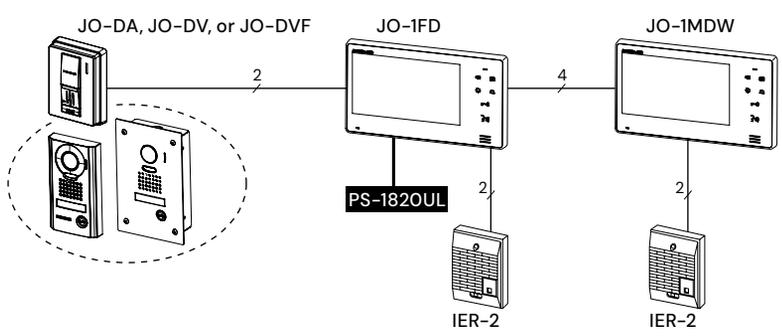


RY-ES
External Signaling Relay
p.48

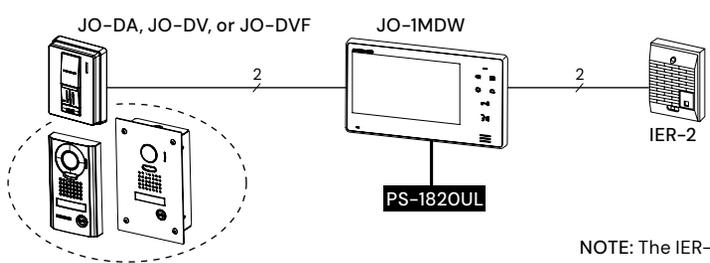


MCW-S/B
Desk Stand for JO-1MDW or JO-1FD
p.53

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

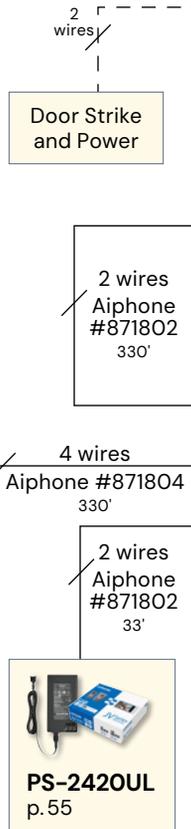
WIRING NOTICE:
When the optional JV-1FD is not
part of the system, the door station,
power supply, and door strike all wire
directly to the JV-1MD.

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



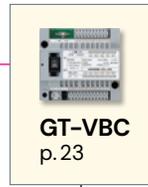
GTA-DESB
p.20

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



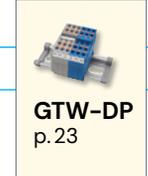
GT-VBC
p.23



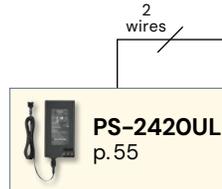
PS-2420UL
p.55



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



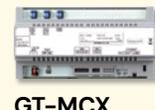
MCW-S/B
Desk Stand for GT-1C7, GT-1C7W, GT-1M3, and GT-1A p.53



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

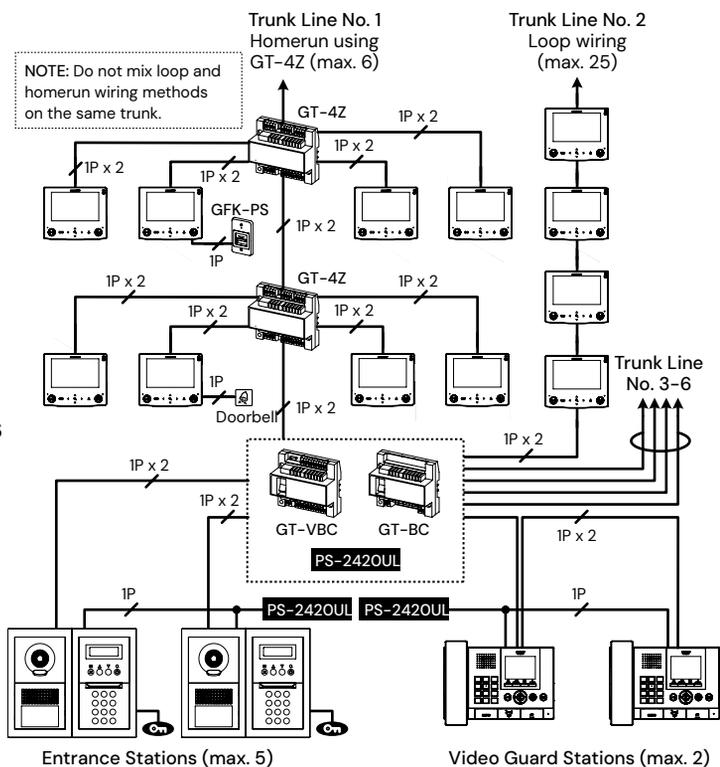


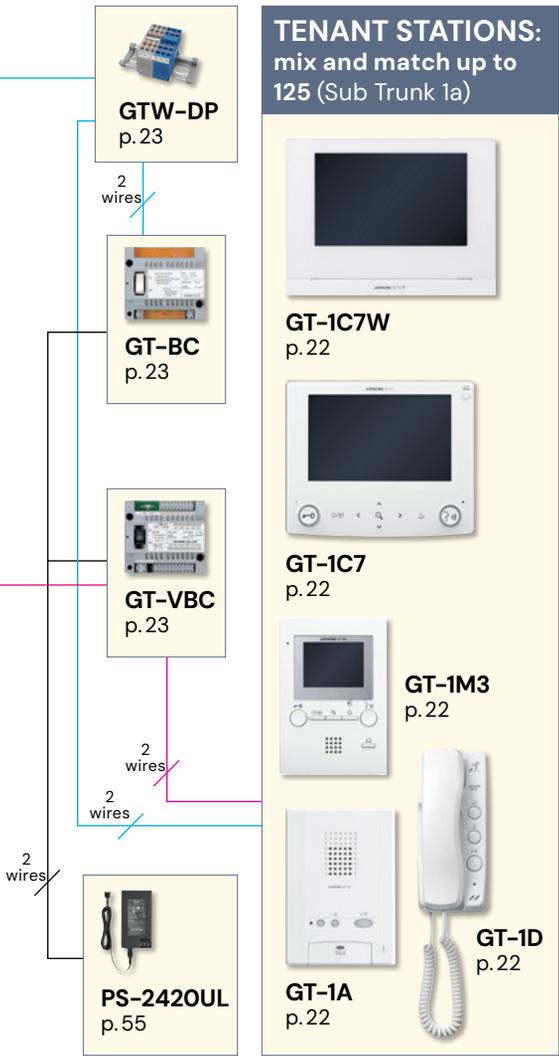
W-DIN11
DIN Mounting Rail for Control Units p.25

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

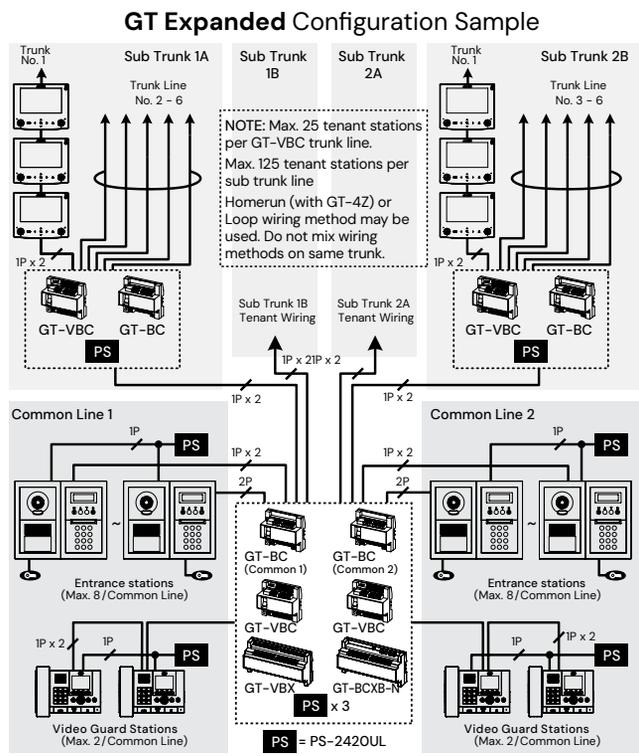
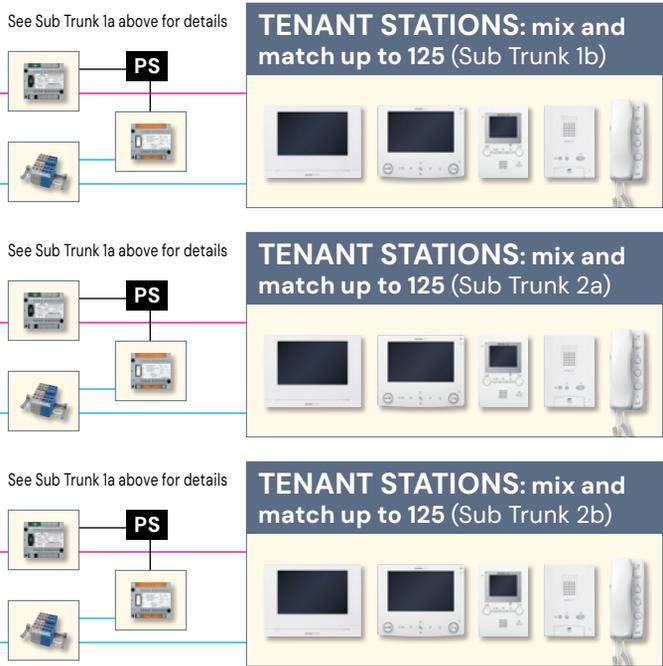
GT Standard Configuration Sample





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



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



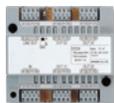
GT-VBC
Video Bus Control Unit



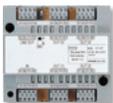
GT-BCXB-N
Expanded Bus Control Unit
(includes mounting rail)



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

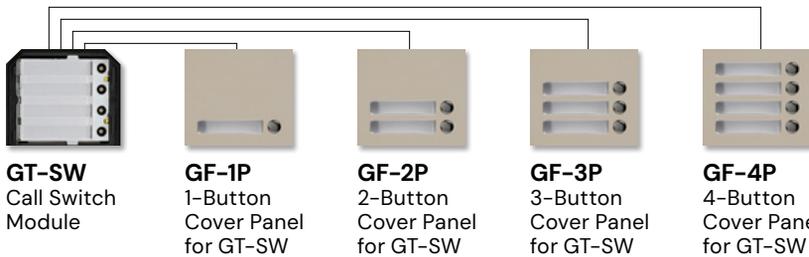
Door Release GT-DB, GT-DB-VN: Form C dry contact, 24V AC/DC, 4A

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



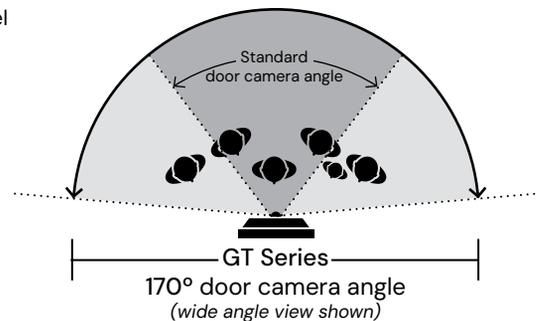
Distance Variable wiring distances—see table on p.23

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

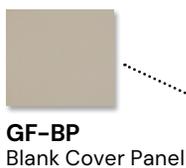
Digital Scroll Modules and Panels



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



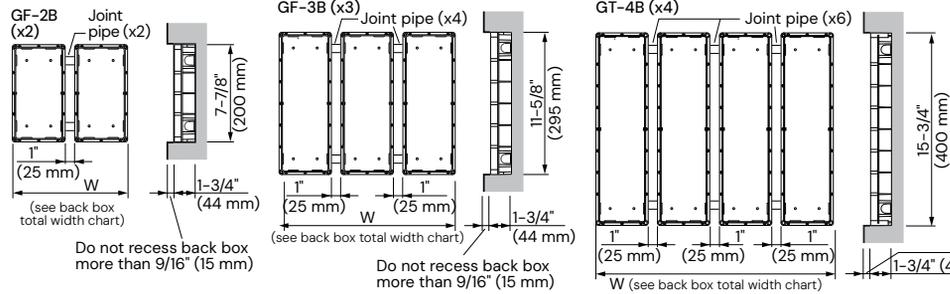
W-DIN1
DIN Mounting Rail for Control Units

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
▼ LEF Standard Wiring			
LEF-10	822220	22 AWG	20-conductor, overall shield
▼ LEF-C Wiring			
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
▼ Sub/Door Station Wiring			
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
▼ LEF + Door Release Wiring			
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



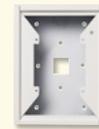
KMB-45
45° Mullion Mounting Bracket for LE-D
p.52



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

DOOR ANSWER
1 x 4

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

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

ANSWERING STATIONS: select 1



LEM-1DL



LEM-1DLC



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



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

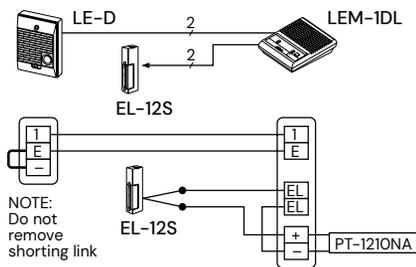


RY-AC/A
External Signaling
Relay (requires
shared PS-1208UL with
LEM-1DL and DAK-2S
or shared PS-1208UL
with LEM-1DLC)
p.48



DAK-2S
Dual Answering
Adaptor Kit (required
per two LEM-1DL
answering stations—not
required for LEM-1DLC
answering stations)

- 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



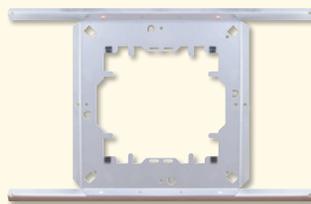
MC-60/4A



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

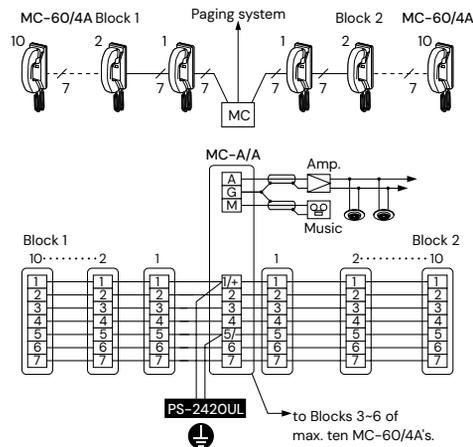
number of speakers needed
(based on amplifier wattage)



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



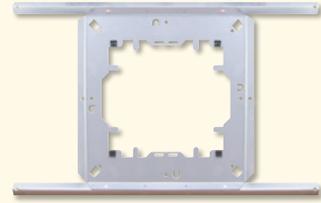
TD-24H/B

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

IM Series Security Window Intercom

BOX SET

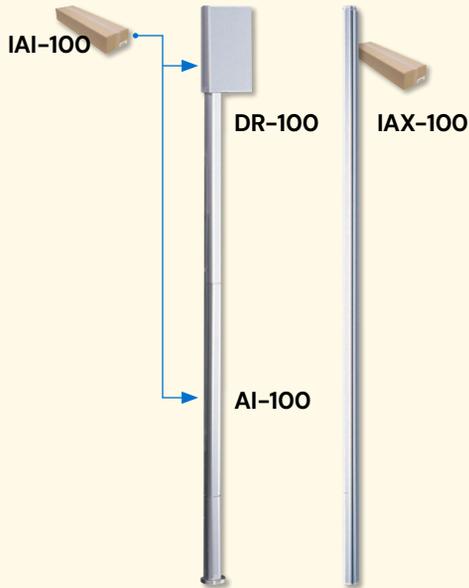
IM-1

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

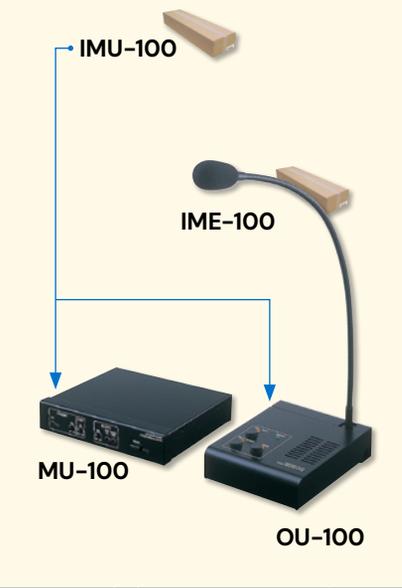


START WITH A BOX SET

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



CONTROL UNIT AND OPERATION UNIT



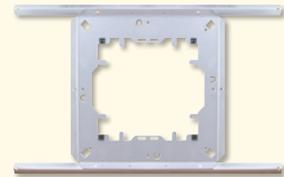
2 wires
Aiphone
#822202
66'

2 wires
Aiphone
#821802
66'

2 wires
Aiphone
#821802
66'

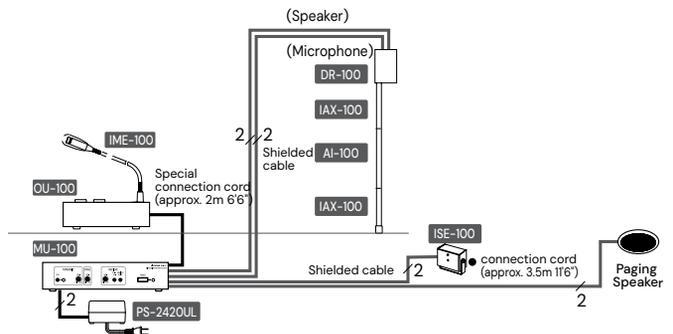


ACCESSORIES



- 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

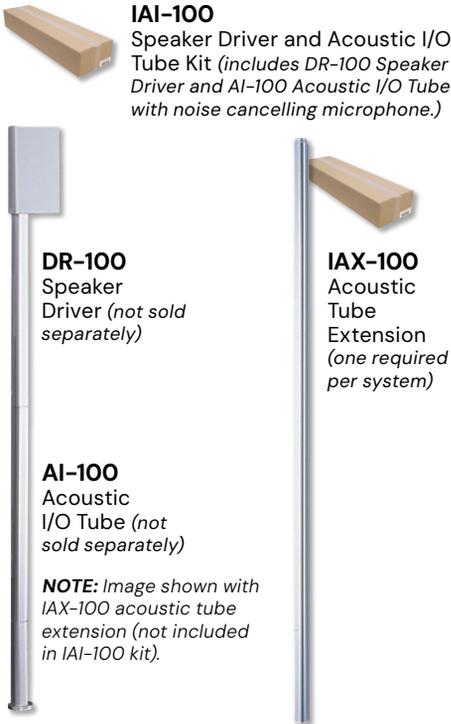
- When the TALK switch is off, the Operation Unit is put on standby, but sound from public side is still heard at reduced volume
- By linking the system to a motion sensor, communication mode is automatically activated when a customer is present



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

2 wires
Aiphone #821802

5P
Aiphone #862210
65'

4P
Aiphone #862208
65'



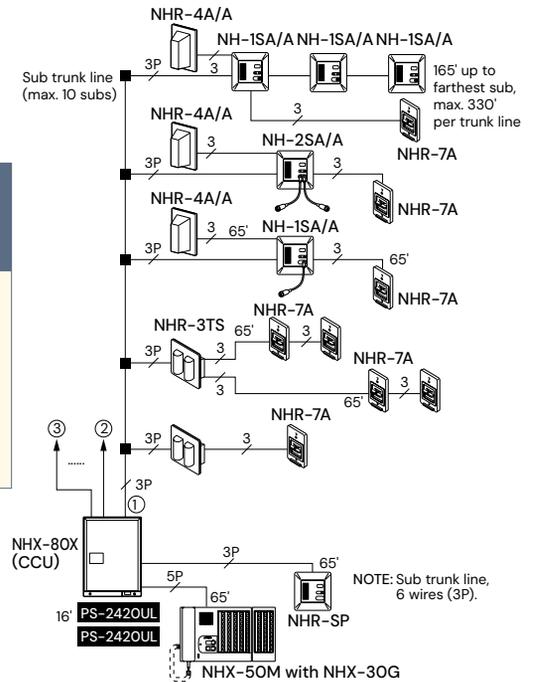
DUTY STATION (optional)



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:**
- 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-SP®
Audio Duty Station



NHR-3TS®
Dual Corridor Light Sub Station
(required for NHR-7A if NH-1SA/A or NH-2SA/A are not used)



NHR-8C®
Bedside Call Button



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

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



NHR-7A®
Urgent Call Pull Cord

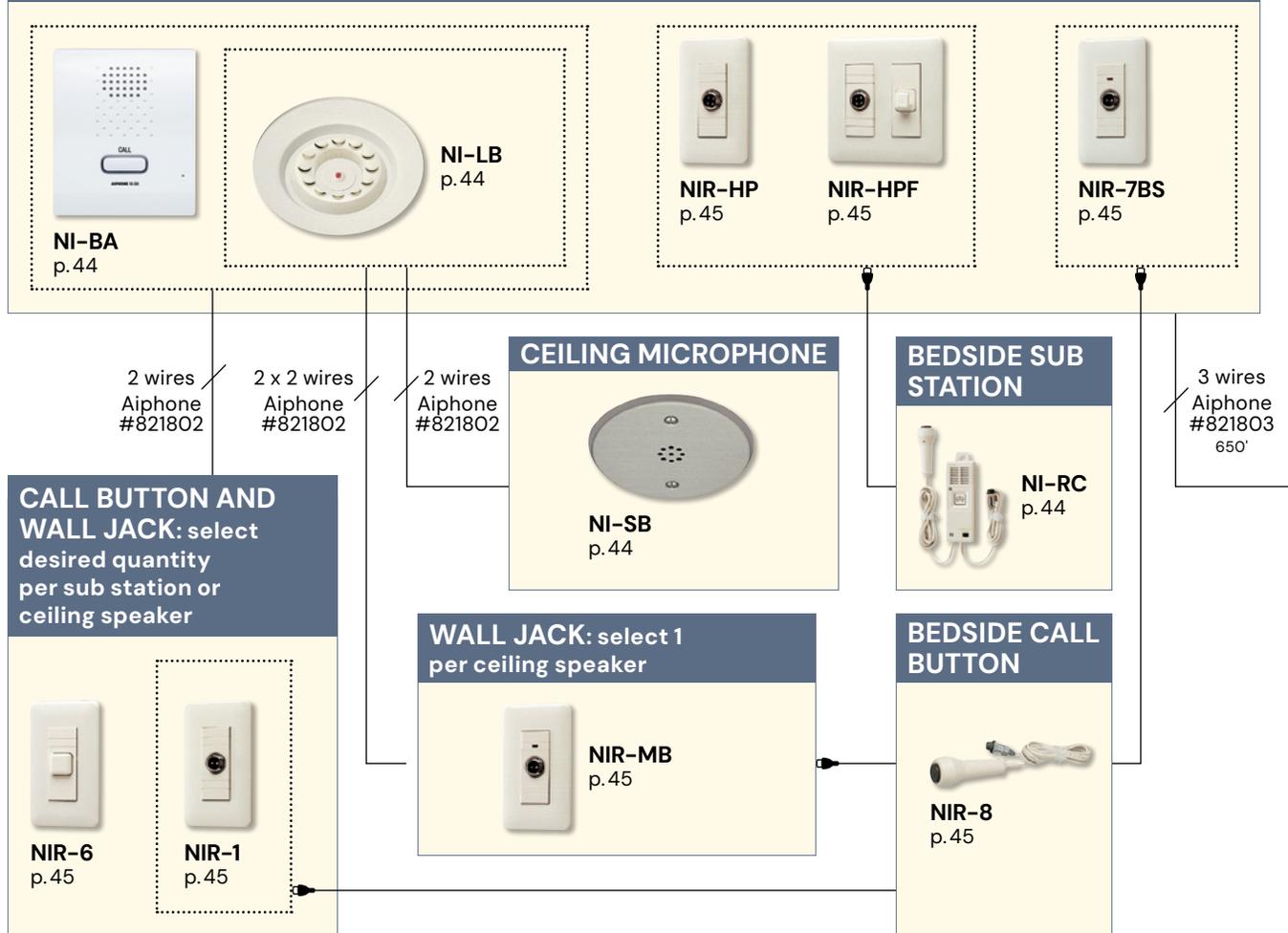


NHR-4A/A®
LED Corridor Light
(red and amber LEDs)

- 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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Align with modern
expectations and provide
long-term value.



Learn about the IX/IXG Series



Index

AH-16T	53	GT-D	9	JOS-1FW	10	MC-60/4A	35	NIR-7BS	45
AI-100	39	GT-DB	24	JOS-1VW	10	MC-A/A	35	NIR-7HW	45
BG-10C	30	GT-DBP	24	JOW-2D	13	MCW-S/B	53	NIR-8	45
DAK-2S	33	GT-DB-VN	24	JP-4HD	8	MD120M	54	NI-RC	44
DR-100	39	GT-DMB-N	20	JP-4MED	8	MD35M	54	NIR-HP	45
EL-12S	48	GT-MCX	23	JP-8Z	8	MD60M	54	NIR-HPF	45
GF-10KP	24	GT-MKB-N	22	JP-DA	9	MKW-P	53	NIR-MB	45
GF-1P	24	GT-NSB	24	JP-DV	9	MU-100	39	NI-SB	44
GF-2B	25	GT-NSP-L	24	JP-DVF	9	NFC-CARD	20	NI-SOFT	45
GF-2F	25	GT-OP2	24	JP-DVF-PR	9	NFC-FOB	20	OU-100	39
GF-2P	24	GT-OP3	24	JPS-4AED	6	NH-1SA/A	41	PD-2	37
GF-3B	25	GT-RY	23	JPS-4AEDF	6	NH-2SA/A	41	PS-1208UL	55
GF-3F	25	GT-SW	24	JPS-4AEDV	6	NHR-30K	40	PS-1225UL	55
GF-3P	24	GT-VB	24	JPW-BA	9	NHR-3TS	41	PS-1820UL	55
GF-4P	24	GT-VBC	23	JV-1FD	15	NHR-4A/A	41	PS-2420UL	55
GF-BP	24	GT-VBX	23	JV-1MD	15	NHR-7A	41	PT-1210NA	55
GFK-PS	23	GTV-DES104B	20	JV-DV	15	NHR-8A-L	41	RY-1824L	49
GT-102HB	25	GTV-DES202B	20	JV-DVF	15	NHR-8C	41	RY-3DL	49
GT-103HB	25	GT-VP	24	JVS-1F	14	NHR-SP	41	RY-AC/A	48
GT-104HB	25	GTW-DP	23	JVS-1V	14	NHX-30G	41	RY-ES	48
GT-10K	24	GTW-LC	23	LE-A	30	NHX-50M	41	RY-PA	31
GT-1A	22	IAI-100	39	LE-B	30	NHX-80X	40	SBX-1G	51
GT-1C7	22	IAX-100	39	LE-D	31	NI-BA	44	SBX-2G/A	51
GT-1C7W	22	IER-2	49	LE-DA	31	NI-LB	44	SBX-ACE	50
GT-1D	22	IM-1	38	LEF-10	30	NIM-20B	44	SBX-CON1	50
GT-1M3	22	IME-100	39	LEF-10C	30	NIM-40B	44	SBX-DV30	52
GT-202HB	25	IMU-100	39	LEF-3C	30	NIR-1	45	SBX-DVF	50
GT-203HB	25	ISE-100	39	LEF-3L	30	NIR-2	45	SBX-GTDMB	25
GT-303HB	25	IS-PU-UL	55	LEM-1DL	33	NIR-31	45	SBX-IDVFRA	50
GT-4B	25	JK-MB	52	LEM-1DLC	33	NIR-32	45	SBX-NVP/A	51
GT-4F	25	JO-1FD	12	LEM-1DLS	32	NIR-34	45	SP-2570N	54
GT-4Z	23	JO-1MDW	12	LE-SS/A	31	NIR-4	45	SSB-3	54
GT-4ZP	23	JO-DA	13	LE-SS-1G	31	NIR-42	45	TD-1H/B	37
GTA-DESB	20	JO-DV	13	LE-SSR	31	NIR-4BZ	45	TD-12H/B	37
GT-BC	23	JO-DVF	13	LEW-10	30	NIR-4S	45	TD-24H/B	37
GT-BCXB-N	23	JOS-1AW	10	LS-NVP/C	31	NIR-6	45	W-DIN11	25

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

Contact Aiphone for current pricing.

UNCOMPROMISED SECURITY

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