

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

**AX-DV**

Video Door Station

- Fixed camera
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount

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**AX-DVF**

Video Door Station

- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (back box included)

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**AX-DV-P**

Card Access Video Door Station

- HID® ProxPoint® Plus Proximity Card Reader
- Fixed camera
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount

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**AX-DVF-P**

Card Access Video Door Station

- HID® ProxPoint® Plus Proximity Card Reader
- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (back box included)

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**AX-DM**

Audio Door Station

- Plastic chassis
- Weather resistant
- Mullion surface mount

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**IF-DA**

Audio Door Station

- Plastic chassis
- Weather resistant
- Surface mount

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**IE-JA**

Audio Door Station

- Stainless steel cover
- Weather resistant
- Flush mount (fits 2-gang box)

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**IE-SS/A**

Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

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**IE-SSR**

Audio Door Station

- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

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**AX-A**

Audio Sub Station

- Surface mount

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**AX-AN**

Privacy Audio Sub Station

- Privacy button
- Surface mount

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**AX-B**

Audio Sub Station

- Semi-flush mount

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**AX-BN**

Privacy Audio Sub Station

- Privacy button
- Semi-flush mount

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Central Exchange Units: select 1

**AX-084C**

Central Exchange Unit

- Supports up to 4 master stations and 8 door/sub stations

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**AX-248C**

Central Exchange Unit

- Supports up to 8 master stations and 24 door/sub stations

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

x2
PS-2420UL
24V DC, 2A
Power Supply
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2x2 wires
Aiphone
#821802
(max. 33')

2x2 wires
Aiphone
#821802
(max. 33')

Door Station Features

- Fixed camera provides clear visitor identification (video door stations)
- Card access door stations available

Master Station Features

- 3-1/2" LCD screen (AX-8MV, AX-8MV-W)
- Hands-free or push-to-talk communication
- Two talk channels
- Composite video output from CEU/video masters
- All Call or Group Call to master stations
- Scan monitoring

System Features

- Cat-5e wiring homerun from each station
- Selective calling between masters, and from masters to door/sub stations
- Normal or priority call levels
- Data output on CEU provides custom integration capability with CCTV and access control systems*
- PC programmable with a large variety of settings
- Transfer calls to an outside phone line (requires Viking Model K-1900-5 programmable dialer)
- Optional features: headset, footswitch, call transfer to telephone, and PC remote control*

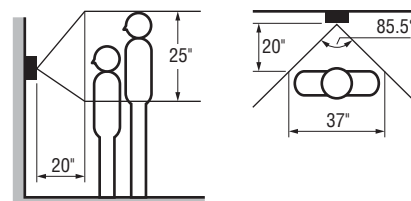
*Interface requires custom software (not supplied by Aiphone)

Dimensions

	INCHES			Recessed	MILLIMETERS			
	Height	Width	Depth		Height	Width	Depth	Recessed
AX-084C, AX-248C, AX-320C	3-7/16"	16-9/16"	13-3/16"	-	88	420	335	-
AX-8MV, AX-8M, AX-8MV-W	6-7/8"	7-5/8"	2-9/16"	-	175	194	65	-
AX-A, AX-AN	7-1/16"	5-5/8"	2-1/8"	-	180	143	53.5	-
AX-B, AX-BN	8-3/16"	6"	2"	9/16"	208	153	50.5	15
AX-DM	6-5/16"	1-11/16"	7/8"	-	160	43	22.5	-
AX-DV	7-11/16"	3-15/16"	1"	-	195	100	25	-
AX-DVF	9-11/16"	5-3/4"	*	-	246	146	*	-
AX-DVF-P	11-5/8"	5-3/4"	*	-	295	146	*	-
AX-DV-P	9-5/8"	3-15/16"	1"	-	245	100	25	-
IE-JA	4-1/2"	4-9/16"	*	-	115	116	*	-
IE-SS/A, IE-SSR	4-3/4"	4-3/4"	*	-	121	121	*	-
IF-DA	5-1/8"	3-7/8"	1-1/8"	-	130	98	28.5	-

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

Camera View Area



IE-8 Series Components

Audio Master & Sub Master Stations



IE-8MD
6-Call Audio Master Station

- Handset for privacy



IE-8HD
6-Call Audio Sub Master Station

- Handset for privacy

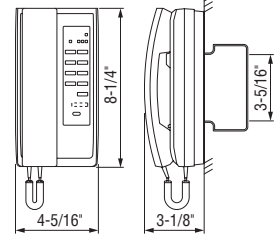
Features

- Selective Call or All Call between handsets
- Simple 4 conductor wiring between handsets

Specifications

Power Source	12-16V AC – use PT-1210N or 12-18V DC – use PS-1225UL
Communication	Handset (full-duplex)
Door Release	N/O dry contact, 24V AC/DC, 350mA – use EL-12S
Wire Type	Door Station to Master Station: 2-cond., overall shield – use Aiphone #822202 Master Station to Sub Stations: 4-cond., overall shield – use Aiphone #822206
Distance	Door Station to Master Station: 500'(22AWG) 1,180'(18AWG) Master Station to farthest Sub Master Station: 245'(22AWG) 580'(18AWG)

IE-8MD, IE-8HD



Audio Door Stations



AX-DM
Audio Door Station

- Plastic chassis
- Weather resistant
- Mullion surface mount

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IF-DA
Audio Door Station

- Plastic chassis
- Weather resistant
- Surface mount



IE-JA
Audio Door Station

- Stainless steel cover
- Weather resistant
- Flush mount (fits 2-gang box)



IE-SS/A
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)



IE-SSR
Audio Door Station

- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)



Surface mount boxes available for flush mount door stations! See p. 106

Features (All)

- Can be used with AX Series, IE-8 Series, IPW-1A Adaptor, KB Series, or TD-H Series

Features (AX-DM)

For AX-DM, see page 66

- Compact surface mount design
- Mounts to 1-gang box or ring
- Locator LED beside call button

Features (IE-DA)

- Slim flush mount design with stainless steel cover
- Mounts to 2-gang box or ring
- Locator LED above call button

Features (IE-JA)

- Moisture and puncture resistant speaker
- 3-layer steel baffle protects speaker from tampering
- Pigtail wires for connection to master station
- Includes tamper proof mounting screws
- Stainless steel, mechanical call button (IE-SS/A)
- Red mushroom call button (IE-SSR)

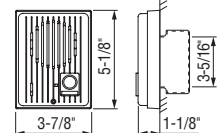
Specifications (AX-DM)

For AX-DM specifications, see page 66

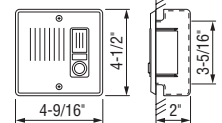
Specifications

Power Source	Supplied by Master Station
Communication	Hands-free
Temp. Rating	14° ~ 140°F (-10° ~ 60°C)
Material	IF-DA: ABS plastic IE-JA: ABS plastic with stainless steel cover IE-SS/A, IE-SSR: stainless steel
Mounting	IF-DA: surface mount directly to wall IE-JA, IE-SS/A, IE-SSR: flush mount with 2-gang box / ring or surface mount with SBX-2G
Wire Type	Door Station to Master Station: 2-cond., overall shield – use Aiphone #822202 or #821802
Distance	Door Station to Master Station: varies by system

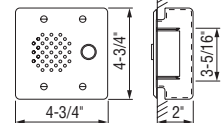
IF-DA



IE-JA



IE-SS/A, IE-SSR

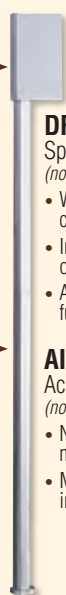


IM Series Components

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

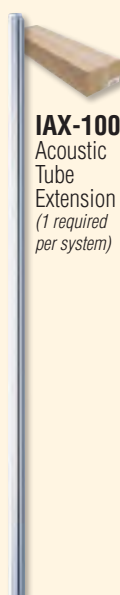


IAI-100
Speaker Driver and Acoustic I/O Tube Kit (includes DR-100 Speaker Driver and AI-100 Acoustic I/O Tube with noise cancelling microphone.)



DR-100
Speaker Driver (not sold separately)

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



IAX-100
Acoustic Tube Extension (1 required per system)

AI-100
Acoustic I/O Tube (not sold separately)

- Noise cancelling microphone
- Mounting rails included

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

Features (DR-100)

- Driver access panel
- Speaker driver can be mounted directly to, or inside, ceiling above ticket window

Features (AI-100)

- Optimum acoustic tube location is 12" ~ 16" from the center of the ticket pass-through
- For smaller windows, acoustic tube may be mounted at the junction of the window and frame

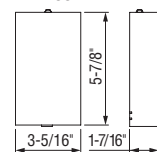
Specifications (IAI-100)

Power Source	Supplied by Control Unit
Temp. Rating	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
Wire Type	Speaker Driver to Control Unit: 2 x 2-cond., overall shield – use Aiphone #822202 or #821802
Distance	Speaker Driver to Control Unit: 66'(22AWG/18AWG)

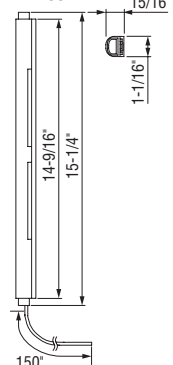
Specifications (IAX-100)

Material Aluminum

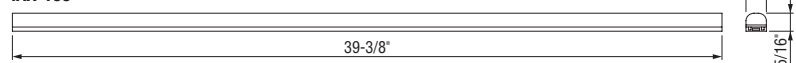
DR-100



AI-100



IAX-100



KB Series Components

Video & Audio Master Stations



KB-3MRD
Video Master Station

- 4" LCD screen
- Handset for privacy



KB-3HRD
Video Sub Master Station

- 4" LCD screen
- Handset for privacy



KB-3SD
Audio Sub Master Station

- Handset for privacy

Features

- All Call
- Chime and receiver volume control
- Optional selective door release with RY-3DL
- Two-way communication between inside stations

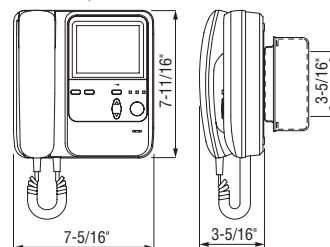
Features

- (additional for KB-3MRD, KB-3HRD)
- Video identification and monitoring with 4" screen
 - Instant voice call-in with image
 - Built-in illumination for low light conditions
 - Selective Call
 - Video out to DVR via supplied connector (KB-3MRD only)

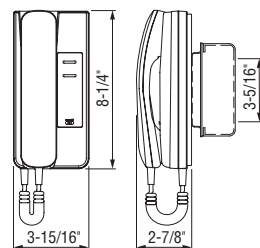
Specifications

Power Source	24V DC – use PS-2420UL
Communication	Handset (full-duplex)
Video Display	KB-3MRD, KB-3HRD: 4" LCD screen KB-3SD: N/A
Door Release	N/O dry contact, 12V AC, 400mA – use EL-12S (use RY-24L for larger contact rating or RY-3DL for 2 or 3 doors)
Mounting	Surface mount directly to wall or desk mount using MCW-S/A
Wire Type	2-cond., mid cap, solid, non-shielded – use Aiphone #871802
Distance	Master Station to Door Station: 330'(22AWG) 650'(18AWG) Master Station to farthest Sub Master Station: 165'(22AWG) 330'(18AWG) Power Supply to Master Station: 16'(22AWG) 33'(18AWG) Power Supply to Sub Master Station: 16'(22AWG) 33'(18AWG)

KB-3MRD, KB-3HRD



KB-3SD



Video Door Stations



KB-DAR
Video Door Station

- Tilt camera
- Plastic chassis
- Weather resistant
- Surface mount
- Fits 1-gang box



KB-DAR-M
Video Door Station

- Motion detector interface
- Tilt camera
- Plastic chassis
- Weather resistant
- Surface mount
- Fits 1-gang box

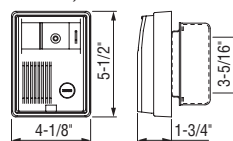
Features

- Tilt controlled camera
- Mounts directly to wall or 1-gang box
- Locator LED backlit on CALL button
- LED illumination automatically turns on in low light conditions

Specifications

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

KB-DAR, KB-DAR-M



Housing Panel for KB-DAR & KB-DAR-M



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

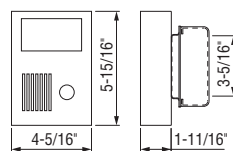
Features

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

Specifications

Material	Stainless steel
Mounting	Surface mount directly to wall

KA-DGR



Audio Door Stations



AX-DM
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IF-DA
→ p. 75



IE-JA
→ p. 75



IE-SS/A
→ p. 75



IE-SSR
→ p. 75

Features (AX-DM)
See page 66

Specifications (AX-DM)
See page 66

Features (IE Series Door Stations)
See page 75

Specifications (IE Series Door Stations)
See page 75

Auxiliary Light Control Relay



MAW-B
Auxiliary Light Control Relay

Features

- Used for turning on an auxiliary light to spotlight a caller at the entrance
- Light is illuminated when the door call button is pushed and during visual monitoring mode

Specifications

Power Source	Supplied by Master Station
Contact Rating	Dry closure contact for general lighting of less than 100W

MAW-B

