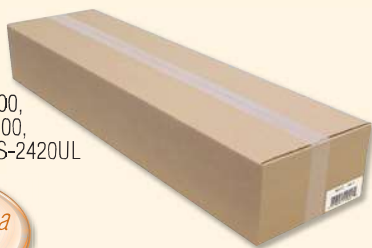


IM Series Security Window Intercom

Box Set

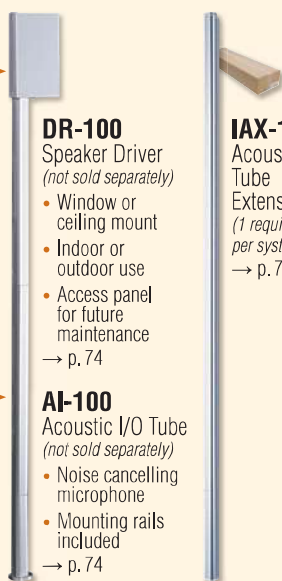
IM-1
Box Set with
IMU-100, IAI-100,
IAX-100, IME-100,
ISE-100, and PS-2420UL



START with a BOX SET

Speaker Driver, Acoustic I/O Tube, & 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.)
→ p. 74



DR-100
Speaker Driver
(not sold separately)
• Window or ceiling mount
• Indoor or outdoor use
• Access panel for future maintenance
→ p. 74

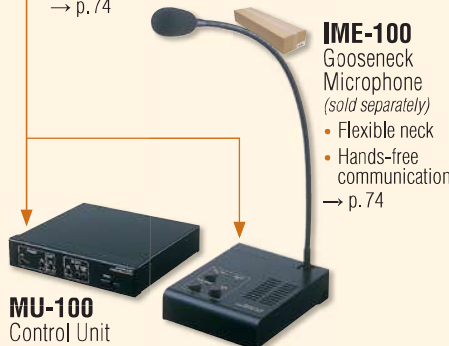
IAX-100
Acoustic Tube Extension
(1 required per system)
→ p. 74

AI-100
Acoustic I/O Tube
(not sold separately)
• Noise cancelling microphone
• Mounting rails included
→ p. 74

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

Control Unit & Operation Unit

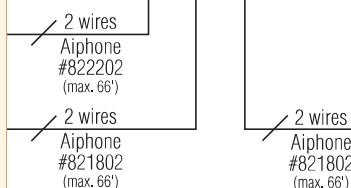
IMU-100
Control and Operation Unit Kit
(includes MU-100 Control Unit and OU-100 Operation Unit with supplied connector.
IME-100 Gooseneck Microphone sold separately.)
→ p. 74



MU-100
Control Unit
(not sold separately)
• Operation, sensitivity, volume, and power controls
• Rubber feet prevent slipping
• Desk mount or mount under the counter with supplied bracket
→ p. 74

IME-100
Gooseneck Microphone
(sold separately)
• Flexible neck
• Hands-free communication
→ p. 74

OU-100
Operation Unit
(not sold separately)
• Supplied connector
• Rubber feet prevent slipping
• Desk mount
→ p. 74



PS-2420UL
24V DC, 2A Power Supply
→ p. 111

Accessories

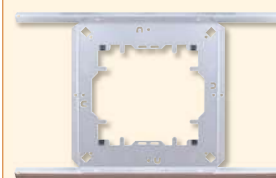
ISE-100
Proximity Sensor
→ p. 74



IME-150
Optional Microphone
→ p. 74



SP-2570N
8Ω, 25/70V, 5W Ceiling Speaker
→ p. 109



SSB-2
Ceiling Support Bracket for SP-2570N
→ p. 109

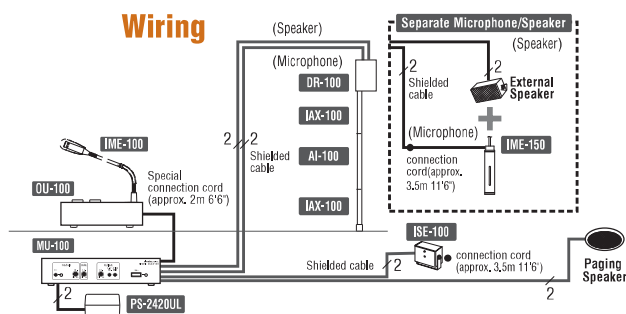
System Features

- Inconspicuous units do not obscure faces of those approaching a ticket/customer window for added visibility and security
- Flexible gooseneck microphone can be adjusted to virtually any position
- Computer style 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

Dimensions

	INCHES				MILLIMETERS			
	Height	Width	Depth	Diameter	Height	Width	Depth	Diameter
AI-100	15-1/4"	1-1/16"	15/16"	-	388	27	24	-
DR-100	5-7/8"	3-5/16"	1-7/16"	-	150	84	36	-
IAX-100	39-3/8"	1-1/16"	15/16"	-	1000	27	24	-
IME-100	20-1/16"	-	-	9/16"	510	-	-	14
IME-150	4-1/2"	7/8"	1/2"	-	115	23	13	-
ISE-100	2-3/8"	2-7/8"	1-3/16"	-	60	72	30	-
MU-100	1-3/4"	8-1/4"	8-1/8"	-	45	210	206	-
OU-100	1-15/16"	5-1/8"	6-5/16"	-	49	130	160	-

Wiring



Specifications

- Power Source** 24V DC, 120mA standby, 780mA max. — use PS-2420UL
- Communication** Hands-free (VOX) or push-to-talk (simplex)
Transmit output: 3W 4Ω
Receive output: 1.5W 16Ω
- Door Release** N/A
- Wire Type** Speaker Driver to Control Unit: 2 x 2-cond., overall shield — use Aiphone #822202 or #821802
Power Supply to Control Unit: 2-cond., overall shield — use Aiphone #822202 or #821802
- Distance** Power Supply or Speaker Driver to Control Unit: 66' (22 AWG / 18 AWG)

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.)

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

DR-100

Speaker Driver (not sold separately)

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

AI-100

Acoustic I/O Tube (not sold separately)

- Noise cancelling microphone
- Mounting rails included

IAX-100

Acoustic Tube Extension (1 required per system)

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

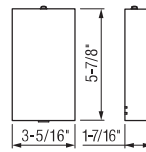
Specifications (IAI-100)

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' (22 AWG / 18 AWG)

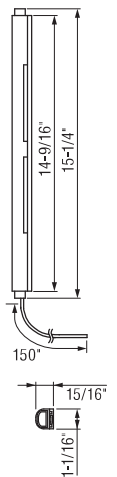
Specifications (IAX-100)

Material	Aluminum
----------	----------

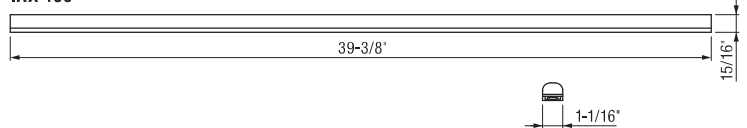
DR-100



AI-100



IAX-100



Control Unit, Operation Unit, & Gooseneck Mic

IMU-100

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

IME-100

Gooseneck Microphone (sold separately)

- Flexible neck
- Hands-free communication

MU-100

Control Unit (not sold separately)

- Operation, sensitivity, volume, and power controls
- Rubber feet prevent slipping
- Desk mount or mount under the counter with supplied bracket

OU-100

Operation Unit (not sold separately)

- Supplied connector
- Rubber feet prevent slipping
- Desk mount

Features (IMU-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

Features (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

Specifications (IMU-100)

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

Specifications (OU-100)

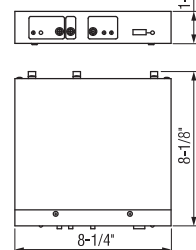
	Rated input: 40mW or more
	Max. input: 100mW or more
	Impedance: 32Ω
External Speaker	Rated input: 3W or more — use SP-2570N
	Max. input: 6W or more
	Impedance: 4 to 8Ω

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)

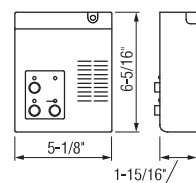
Specifications (IME-100)

Microphone	Condenser microphone, unidirectional
Input Sensitivity	–46dB

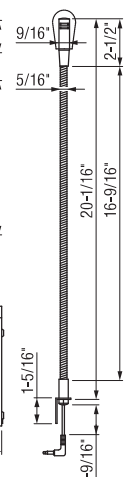
MU-100



OU-100



IME-100



Optional Microphone & Sensor



ISE-100
Proximity Sensor



IME-150
Optional Microphone

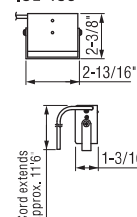
Specifications (ISE-100)

Power Source	24V DC — supplied by MU-100
Material	Aluminum
Wire	Aiphone #821802

Specifications (IME-150)

Microphone	Condenser microphone, omnidirectional
Material	Aluminum
Detect Area	2m
Wire	Aiphone #821802

ISE-150



IME-150

