

# LEF Series

Communication, Paging,  
and Entry Security System



Homes | Offices | Schools | Industrial Facilities

# Features & Benefits

## Mix and match a variety of stations

Up to 11 components can be intermixed to create the desired communication solution

## Complements CCTV system

Visitors can be seen with CCTV cameras while communicating via the intercom

## PTT and hands-free communication

Calls are made with push-to-talk operation and answered with hands-free communication

## LED and call-tone indicators

LED lights and call tones at the master station indicate which door/sub station is calling

## Selective door release

When visitors are confirmed, doors can be unlocked with the push of a button

## Selective Call and Optional All Call

Provides the option to call one station at a time or to call all stations at once

## Indoor and outdoor speakers

Announcements can be heard throughout the facility where speakers are installed

## Reliable and designed to last

Customers can rely on this system with trouble-free use for years to come



# Ideal Applications



Homes



Offices



Schools



Industrial Facilities

# Components - Mix and match up to 11 door / master / sub stations

## Door Stations



### LE-D

Audio Door Station

- Plastic chassis
- Surface mount
- Fits 1-gang box  
4-3/4"H  
3-7/16"W  
1-1/8"D



### LE-SS-1G

Audio Door Station

- Stainless steel panel
- Flush mount
- Fits 1-gang box  
4-1/2"H  
2-3/4"W  
2-1/2"D  
(back box depth)



### LE-DA

Audio Door Station

- Stainless steel cover
- Flush mount
- Fits 2-gang box  
4-1/2"H  
4-9/16"W  
2-1/2"D  
(back box depth)



### LE-SS/A

Audio Door Station

- Stainless steel panel
- Flush mount
- Fits 2-gang box  
4-3/4"H  
4-3/4"W  
2-1/2"D  
(back box depth)



### LE-SSR

Audio Door Station

- Red mushroom call button
- Stainless steel panel
- Flush mount
- Fits 2-gang box  
4-3/4"H  
4-3/4"W  
2-1/2"D  
(back box depth)



### LE-SSV

Audio Door Station

- Built-in CCTV camera
- Stainless steel panel
- Flush mount
- Fits 2-gang box  
4-3/4"H  
4-3/4"W  
2-1/2"D  
(back box depth)



Audio Door Station

- Powder-coated steel panel
- Flush mount
- Fits 3-gang box  
7-1/2"H  
5-1/2"W  
2-1/2"D  
(back box depth)

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

## Master Stations



### LEF-3

3-Call Audio Master Station

- Surface mount  
7-1/16"H  
5-5/8"W  
2-1/8"D



### LEF-3L

3-Call Audio Master Station

- Selective door release
- Surface mount  
7-1/16"H  
5-5/8"W  
2-1/8"D



### LEF-5

5-Call Audio Master Station

- Selective door release
- Surface mount  
8-1/8"H  
7-1/2"W  
2-3/16"D



### LEF-10

10-Call Audio Master Station

- Selective door release
- Surface mount  
8-1/8"H  
7-1/2"W  
2-3/16"D



### LEF-10S

10-Call Audio Master Station

- All Call button (requires BG-10C)
- Selective door release
- Surface mount  
8-1/8"H  
7-1/2"W  
2-3/16"D



### LEF-3C

3-Call Audio Master Station

- All Call button (requires BG-10C)
- Semi-flush mount  
8-1/4"H  
6-1/8"W  
2"D (9/16" goes inside wall)



### LEF-5C

5-Call Audio Master Station

- All Call button (requires BG-10C)
- Selective door release
- Semi-flush mount  
9-7/16"H  
7-7/8"W  
3"D (1-1/2" goes inside wall)



### LEF-10C

10-Call Audio Master Station

- All Call button (requires BG-10C)
- Selective door release
- Semi-flush mount  
9-7/16"H  
7-7/8"W  
3"D (1-1/2" goes inside wall)

# Components - Mix and match up to 11 door / master / sub stations

**Sub Stations** (includes sub stations, speakers, and paging adaptors)



**LE-A**  
Audio Sub Station  
• Surface mount  
6-1/4" H  
5-1/8" W  
2" D



**LE-AN**  
Privacy Audio Sub Station  
• Surface mount  
• Privacy button  
6-1/4" H  
5-1/8" W  
2" D



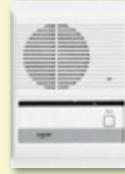
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**LE-A3**  
3-Call Audio Sub Station  
• Surface mount  
7-1/16" H  
5-5/8" W  
2-1/8" D



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**LE-AN3**  
3-Call Privacy Audio Sub Station  
• Surface mount  
• Privacy button  
7-1/16" H  
5-5/8" W  
2-1/8" D



**LE-B**  
Audio Sub Station  
• Semi-flush mount  
8-1/4" H  
6" W  
2" D (9/16" goes inside wall)



**LE-BN**  
Privacy Audio Sub Station  
• Semi-flush mount  
• Privacy button  
8-1/4" H  
6" W  
2" D (9/16" goes inside wall)



**LEF-1C**  
Audio Sub Master Station (requires BG-10C)  
• All Call button  
• Semi-flush mount  
8-1/4" H  
6" W  
2" D (9/16" goes inside wall)



**SP-20N/A**  
Ceiling Speaker (requires NP-25V)  
• 20Ω  
• Indoor use  
• Flush mount  
Diameter: 12-7/8"  
Baffle Diameter: 8"



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**AH-108**  
Horn Speaker  
• 8Ω, 10W  
• Indoor or outdoor use  
• Surface mount  
Bell Diameter: 6-1/8"  
Depth: 6-1/2"



**BA-1**  
Paging Adaptor (requires one amplifier per paging zone - use P30BGM, DMA2060, or DMA2120)  
4-1/8" H  
2-1/2" W  
1-1/2" D

## Power Supply



**PS-1225UL**  
12V DC Power Supply (required for system)

## Accessories



**BG-10C**  
All Call, Chime, and Music Adaptor (required for LEF-10S, LEF-3C, LEF-5C, LEF-10C, or LEF-1C)



**P30BGM**  
30W Paging Amplifier



**DMA2120**  
120W Paging Amplifier



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**DMA2060**  
60W Paging Amplifier



**HID-SS**  
Card Access Station with HID® ProxPoint® Plus Proximity Card Reader (requires a 3rd party host)



**KMB-45**  
45" Mullion Mounting Bracket for LE-D



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



**SBX-2G**  
Surface Mount Box for LE-DA, LE-SS/A, or LE-SSR



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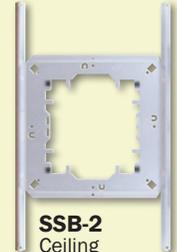
**SBX-2BH**  
Horizontal Surface Mount Box for HID-SS and one LE-DA, LE-SS/A, or LE-SSR



**SBX-NVP**  
Surface Mount Box for LS-NVP/C



**BBX-1E**  
Flush Mount Back Box for LE-B, LE-BN, LEF-1C, or LEF-3C



**SSB-2**  
Ceiling Support Bracket for SP-20N/A



**EL-12S**  
Electric Door Strike (requires PT-1210N)



**PT-1210N**  
12V AC Transformer (required for EL-12S)



**RY-PA**  
Door Release Relay



**LEW-5, LEW-10, LEW-10S**  
Terminal Box



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**NP-B**  
Flush Mount Indoor Call Button



**NP-W**  
Surface Mount Box for NP-B



**LT-1**  
20Ω-to-8Ω Matching Transformer



**NP-25V**  
33μF, 25V Non-Polarized Capacitor



**RY-AC/A**  
External Signaling Relay

## Specifications **IMPORTANT: Use 12V DC voltage only! Connecting AC voltage to an LEF Master Station can damage the unit.**

Spec ▼	Model ►	LEF-3, LEF-3L, LEF-5, LEF-10, LEF-10S, LEF-3C, LEF-5C, LEF-10C	LE-A, LE-AN, LE-A3, LE-AN3, LE-B, LE-BN, LEF-1C	BG-10C
<b>Power Source</b>		12V DC, 300mA per active master station - use PS-1225UL	Drawn from master station	12V DC, 2.5A (uses system master)
<b>Output</b>		800mW @ 20Ω (receive), 500mW @ 20Ω (transmit)		
<b>Wire Type</b>		See wiring table below		
<b>Wire Distance</b>		Door/Sub Station to farthest Master Station: 650'(22AWG) 1,600'(18AWG)		500'(22AWG) 1,000'(18AWG)

Component	Wire #	Gauge	Conductor
▼ LEF Standard Wiring			
LEF-3	822210	22 AWG	10 cond., overall shield
LEF-5	822212	22 AWG	12 cond., overall shield
LEF-10, LEF-10S	822220	22 AWG	20 cond., overall shield
▼ LEF-1C Wiring			
Homerun to BG-10C	822212	22 AWG	12 cond., overall shield
Looped (max. 9 stations)	822220	22 AWG	20 cond., overall shield
LEF-3C	822212	22 AWG	12 cond., overall shield
LEF-5C	822215	22 AWG	15 cond., overall shield
LEF-10C	822220	22 AWG	20 cond., overall shield
BG-10C to Master	822220	22 AWG	20 cond., overall shield

Component	Wire #	Gauge	Conductor
▼ Sub / Door Station Wiring			
Homerun (22AWG)	822203	22 AWG	3 cond., overall shield
Homerun (18AWG)	821803	18 AWG	3 cond., overall shield
Looped (max. 4 stations)	822206	22 AWG	6 cond., overall shield
Looped (max. 8 stations)	822210	22 AWG	10 cond., overall shield
▼ Door Release Wiring (K Terminals)			
LEF-3L	822212	22 AWG	12 cond., overall shield
LEF-5, LEF-5C, LEF-10, LEF-10S, LEF-10C	822220	22 AWG	20 cond., overall shield
Additional Wiring for Door Release (optional)	822210	22 AWG	10 cond., overall shield

LOCAL AIPHONE EXPERTS ARE HERE TO HELP.  
**CONTACT US TODAY!**



LEF Series Brochure

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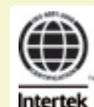
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