

Aiphone LEF-10S

Aiphone LEF-10S Master Intercom Instruction Manual

1. PRODUCT OVERVIEW

The Aiphone LEF-10S is an Open Voice Selective Call Master Intercom designed for surface mounting. It facilitates audio communication with visitors at a door and with other rooms within a building. This master intercom supports connection with up to 10 Aiphone LAF and LEF Series master intercoms, and LA, LE, or LS Series door and sub-master intercoms.

Key features include an All-Call button for broadcasting messages and a Door Release button for remote access control.



Image of the Aiphone LEF-10S Open Voice Selective Call Master Intercom, showing its front panel with buttons and speaker.

1.1 What's in the Box?

- Aiphone LEF-10S master intercom unit
- Mounting hardware
- Instruction manual

2. SAFETY INFORMATION

Please read and understand all instructions before installation and operation. Failure to follow these instructions may result in electric shock, fire, or damage to the product.

- **Electrical Safety:** Ensure all power is disconnected before performing any wiring or installation procedures. Installation should be performed by qualified personnel in accordance with all local electrical codes.
- **Environmental Conditions:** Do not expose the intercom to extreme temperatures, humidity, or direct water contact.
- **Handling:** Handle the unit with care to prevent physical damage.

3. INSTALLATION

The LEF-10S master intercom is designed for surface mounting.

3.1 Mounting

1. Select a suitable location for the master intercom, ensuring it is easily accessible and within reach of necessary wiring.
2. Use the provided mounting hardware to securely attach the intercom unit to a desktop or wall surface.

3.2 Wiring

The system requires hardwiring and is powered by a 12V power supply (e.g., Aiphone PS-1225UL, sold separately).

- **Power Supply:** Connect the 12V power supply to the designated terminals on the LEF-10S.
- **Intercom Connections:** Connect the LEF-10S to door, sub-master, or other master intercoms using appropriate wiring. Maximum distance from door/sub to master is 650 ft. using 22 AWG wire, or 1,600 ft. using 18 AWG wire.
- **Door Strike Connection:** For door access control, connect an electric strike (sold separately) via an Aiphone RY-PA relay (sold separately). Each intercom in the system must be connected to an Aiphone RY-PA relay.
- **All-Call Functionality:** To enable the All-Call broadcast feature, connect an Aiphone BG-10C adapter (sold separately) to the system.
- **Additional Devices:** The RY-PA relay can also connect other devices such as CCTV cameras and lights (sold separately).

4. SETUP

4.1 Initial Power-Up

Once all wiring is complete and secure, connect the 12V power supply to an electrical outlet. The intercom system will power on.

4.2 Volume Adjustment

The chime and audio volume can be adjusted using the dedicated controls on the master intercom unit. Adjust to a comfortable listening level.

5. OPERATION

5.1 Making a Call

1. Press one of the 10 selectable buttons corresponding to the desired door or sub-master intercom. An LED indicator will illuminate.
2. Press and hold the **Push-to-Talk** button to speak.
3. Release the **Push-to-Talk** button to listen for a response.

5.2 Receiving a Call

When a call is received from a sub-master intercom, a momentary chime will sound, and the corresponding LED indicator above the selectable button will illuminate for 20 seconds.

1. Press the illuminated button to establish communication.
2. Press and hold the **Push-to-Talk** button to speak, and release to listen.

5.3 All-Call Function

If an Aiphone BG-10C adapter is connected, the **All-Call** button allows you to broadcast a message to every intercom connected to the system.

1. Press the **All-Call** button.
2. Press and hold the **Push-to-Talk** button to broadcast your message.
3. Release the **Push-to-Talk** button when finished.

5.4 Door Release Function

If an electric strike is connected via an RY-PA relay, the **Door Release** button allows you to remotely unlock the entrance for a visitor.

1. Establish communication with the door intercom.
2. Press the **Door Release** button to activate the electric strike.

5.5 Privacy Function

The **Privacy** button prevents other intercom users in the system from overhearing a conversation with another intercom, ensuring confidentiality.

1. During a conversation, press the **Privacy** button to activate privacy mode.
2. Press the **Privacy** button again to deactivate it.

5.6 Monitoring Function

The master intercom allows you to listen to audio transmissions from a specified door or sub-master intercom at any time.

1. Select the desired door or sub-master intercom button.
2. The master intercom will monitor audio from that location without requiring the **Push-to-Talk** button to be held.

5.7 Silencing Chime Alerts

To temporarily silence incoming call chime alerts, switch the power button to the 'off' position. This will only silence the chime, not power down the unit entirely.

6. MAINTENANCE

6.1 Cleaning

To clean the intercom unit, gently wipe the surface with a soft, dry cloth. Do not use abrasive cleaners, solvents, or excessive moisture, as these can damage the unit.

6.2 Regular Checks

Periodically check all wiring connections to ensure they are secure. Ensure the unit is free from dust accumulation, especially around vents or speaker grilles.

7. TROUBLESHOOTING

If you experience issues with your Aiphone LEF-10S intercom, consider the following common troubleshooting steps:

- **No Power:** Ensure the 12V power supply is correctly connected and plugged into a working electrical outlet. Check all power connections.
- **No Communication:** Verify that all intercom units are properly wired and connected. Check for loose or damaged wiring. Ensure the correct intercom button is selected.
- **Poor Audio Quality:** Adjust the audio volume. Check for any obstructions near the microphone or speaker. Ensure wiring connections are secure and free from interference.
- **Door Release Not Working:** Confirm that the Aiphone RY-PA relay and electric strike are correctly installed and wired. Check the power supply to the electric strike.
- **All-Call Not Working:** Ensure the Aiphone BG-10C adapter is correctly installed and connected to the system.

If problems persist after attempting these steps, please contact Aiphone customer support or a qualified technician.

8. SPECIFICATIONS

Specification	Detail
Overall Dimensions (H x W x D)	8-1/8 x 7-1/2 x 2-3/16 inches (approx. 20.6 x 19.1 x 5.6 cm)
Communication Output (Reception)	800mW at 20 ohms
Communication Output (Transmission)	500mW at 20 ohms
Max. Distance (Door/Sub to Master, 22 AWG)	650 ft. (approx. 198 meters)
Max. Distance (Door/Sub to Master, 18 AWG)	1,600 ft. (approx. 488 meters)
Door Strike Connection	Aiphone RY-PA relay (sold separately)
Power Requirements	Aiphone PS-1225UL 12V power supply (sold separately)
Mounting Type	Surface Mount
Housing Material	White Plastic

9. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation included with your purchase or visit the official Aiphone website. Aiphone meets International Organization for Standardization (ISO) standards 9001 and 14001.

For technical support, troubleshooting assistance beyond this manual, or to inquire about replacement parts, please contact Aiphone customer service directly.

