

Aiphone IE-2AD

Aiphone IE-2AD Intercom System Master Handset User Manual

Model: IE-2AD

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Aiphone IE-2AD Chime Tone Intercom System Master Handset. The IE-2AD is designed to facilitate communication with visitors at single or double-door entrances and to authorize access remotely.

Package Contents:

- Aiphone IE-2AD Master Handset
- Mounting Bracket
- Mounting Hardware

2. SETUP

2.1 Mounting the Master Handset

Secure the provided mounting bracket to a suitable wall location using the included mounting hardware. Ensure the location allows for easy access and clear communication. Once the bracket is secure, attach the Aiphone IE-2AD master handset to the bracket.

2.2 Wiring Connections

The IE-2AD master handset requires connection to door intercoms and a power source. It can also connect to up to two sub-master handsets (sold separately).

- **Door Intercom Wiring:** Connect the master handset to up to two door intercoms.
- **Sub-Master Handset Wiring:** The master handset supports connections for up to two sub-master handsets.
- **Door Release Wiring:** Connect the door release contacts to an electric strike (sold separately). The door release contact rating is 24V at 500mA.

Wiring Distance Guidelines:

- Maximum door distance from master: 500 ft. using 22 AWG wire, or 1,180 ft. using 18 AWG wire.
- Maximum distance from master to farthest sub-master: 250 ft. using 22 AWG wire, or 590 ft. using 18 AWG wire.
- Compatible wire (door to master): Aiphone 822202 (sold separately).
- Compatible wire (master to farthest sub): Aiphone 822206 (sold separately).

2.3 Power Requirements

The system requires a power source for operation:

- 12 to 16VAC 180mA bell transformer to power both audio and electric strike.
- Alternatively, 12 to 24VDC 160mA Aiphone PT-1210N AC transformer (sold separately) for audio only.

Important: Ensure all wiring is performed by a qualified professional and adheres to local electrical codes.



Figure 1: Front view of the Aiphone IE-2AD master handset, showing the receiver, keypad, and door release button.

3. OPERATING INSTRUCTIONS

3.1 Receiving a Visitor Call

When a visitor initiates a call from the door intercom, the master handset will activate a chime tone and an LED indicator. The chime tone is adjustable (two- or four-tone) and its volume can be set to your preference.

3.2 Communicating with a Visitor

To speak with the visitor, lift the handset. This establishes a semi-private audio connection. Speak clearly into the handset's microphone and listen for the visitor's response through the earpiece.

3.3 Authorizing Access (Door Release)

To remotely unlock the entrance for a visitor, press the **Door Release** button located on the master handset. This button activates the connected electric strike (sold separately), allowing the visitor to enter.

3.4 Internal Communication (with Sub-Masters)

If sub-master handsets are connected, visitor calls will ring on all connected handsets. Communication can be transferred between the master and sub-master handsets. The master and sub-master handsets also support internal calling between them.

4. MAINTENANCE

To ensure optimal performance and longevity of your Aiphone IE-2AD master handset, follow these general maintenance guidelines:

- **Cleaning:** Wipe the handset and unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check all visible wiring for any signs of wear or damage.
- **Environment:** Keep the unit in a dry environment, away from direct sunlight and extreme temperatures.

5. TROUBLESHOOTING

If you encounter issues with your Aiphone IE-2AD system, refer to the following common problems and solutions:

- **No Power/Unit Not Responding:**
 - Check the power supply connection and ensure it meets the specified voltage and current requirements.
 - Verify that the power outlet is functional.
- **No Audio During Communication:**
 - Ensure the handset is properly seated and lifted.
 - Check all wiring connections between the master handset and the door intercom(s) for secure contact.
 - Confirm the door intercom unit is functioning correctly.
- **Door Release Button Not Working:**
 - Verify the electric strike is correctly wired and receiving power.
 - Check the wiring connections from the master handset to the electric strike.

- Ensure the electric strike itself is operational.
- **Chime Tone Not Sounding:**
 - Check the volume setting for the chime tone.
 - Ensure the door intercom is correctly initiating a call signal.

If the problem persists after attempting these solutions, please contact Aiphone customer support or a qualified technician.

6. SPECIFICATIONS

Feature	Specification
Model Number	IE-2AD
Product Dimensions	10 x 4.4 x 3.2 inches
Item Weight	1.55 pounds
Door Release Contact Rating	24V at 500mA
Max. Door Distance (22 AWG)	500 ft.
Max. Door Distance (18 AWG)	1,180 ft.
Max. Sub-Master Distance (22 AWG)	250 ft.
Max. Sub-Master Distance (18 AWG)	590 ft.
Power Requirements	12-16VAC 180mA (audio & strike) or 12-24VDC 160mA (audio only)
Manufacturer	AIPHONE COMMUNICATIONS
Date First Available	December 24, 2013

7. WARRANTY AND SUPPORT

7.1 Warranty Information

Specific warranty details for the Aiphone IE-2AD master handset are provided by the manufacturer at the time of purchase. Please refer to the documentation included with your product or visit the official Aiphone website for the most current warranty terms and conditions.

7.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding parts and service, please contact Aiphone customer support. You can typically find contact information on the Aiphone official website or in the product packaging.

Aiphone North American Headquarters: Bellevue, WA

Aiphone meets International Organization for Standardization (ISO) standards 9001 and 14001.

