






GM Series
APARTMENT ENTRY SECURITY & COMMUNICATION






Models: **GM-1MD**, *Monitor/audio station*
GM-1D, *Audio only station*

OPERATION MANUAL



 **PRECAUTIONS ON GM SYSTEM**

-  **WARNING** (Negligence could result in death or serious injury)
-  **CAUTION** (Negligence could result in injury or damage to property)
-  **GENERAL PRECAUTIONS**
-  Prohibitions to dismantle the unit.
-  Prohibitions to subject the unit to water.

 **WARNING**

1. The GM equipment is an electrical device, whose wiring & installation  must not be touched by users. Ask qualified personnel.
2. Do not change or modify GM equipment. 
3. Do not open GM-1MD monitor station. High voltage is present on inside monitor. 
4. Keep GM-1MD or GM-1D station away from water or any other liquid.  It can cause fire or electric shock.
5. Do not put any forcible strength on the video-monitor. It can cause injury. 

 **CAUTION**

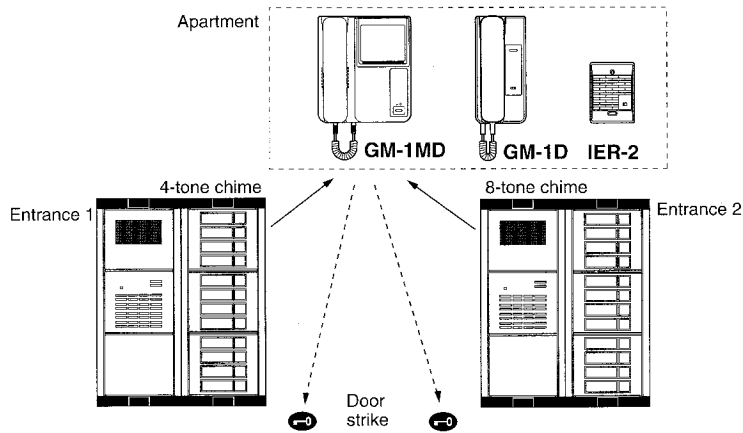
1. Make sure chime tone is verified or adjusted when handset is properly on the hook. It can cause hearing damage.
2. Do not transfer or change wall-mounting of GM-1MD or GM-1D. If dropped or  touched, it can cause injury.
3. Do not use GM-1MD or GM-1D in any of the following locations, as it may cause the system to malfunction;
 - High or extreme cold temperature areas: under direct sunlight, near equipment that varies in temperature, in front of air-conditioner, inside a refrigerated area, etc.
 - Places subject to moisture or humidity extremes.
 - Places subject to environmental conditions, such as oil, dust, chemicals, salt, etc. 
 - Places subject to constant vibration or impact.

 **GENERAL PRECAUTIONS**

1. GM system is not operable during a power failure.
2. In areas where broadcasting station antennas are close by, intercom system may be affected by radio frequency interference.
3. Keep GM-1MD or GM-1D station at least 1m away from TV or radio set.

1 SYSTEM OUTLINE & COMPONENTS

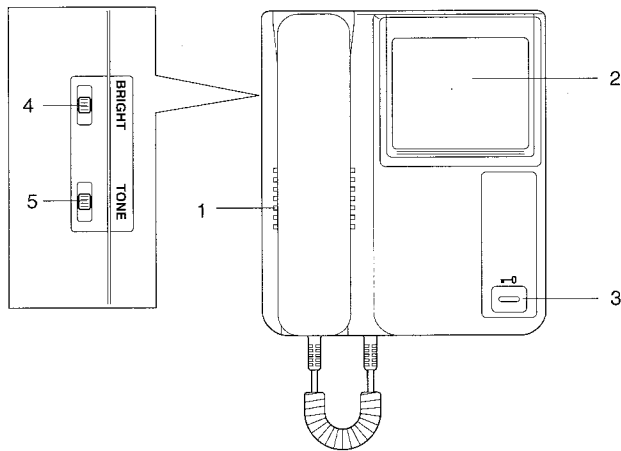
GM system provides audio or audio/video entry security and communication between one or two entrance(s) and each apartment station. The system also allows you to unlock the door remotely by pressing Key-mark button on the apartment station.



- *Entrance station*
GM Camera, Audio & Call Switches.
- *Apartment stations*
GM-1MD, Monitor / audio station.
GM-1D, Audio only station.
IER-2, Chime call extension.

2 NAMES & FEATURES

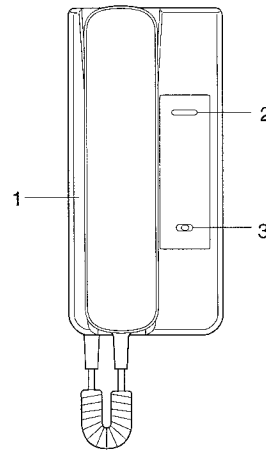
GM-1MD



1. Speaker for chime
2. Video-monitor 4" CRT
3. Door release button (Key-mark)
4. BRIGHT control, 3 positions
5. TONE control, 3 positions

- **Package contents**
- Apartment station (GM-1MD)
 - Packet of screws
 - Operation Manual

GM-1D



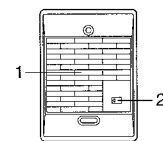
1. Speaker for chime
2. Door release button (Key-mark)
3. TONE control, 3 positions

- **Package contents**
- Apartment station (GM-1D)
 - Packet of screws
 - Operation Manual

■ **System Features**

- Entrance station calls in with 4-tone chime and image. Times out in 45 seconds.
- Communication with visual monitoring for 2-1/2 minutes.
- One or two monitor/audio or audio only stations. Reply to an entrance from either station.
- Second entrance call-in with 8-tone chime and image.
- Speaker IER-2 announces chime tone only (volume adjustable).
- BRIGHT & TONE controls

IER-2



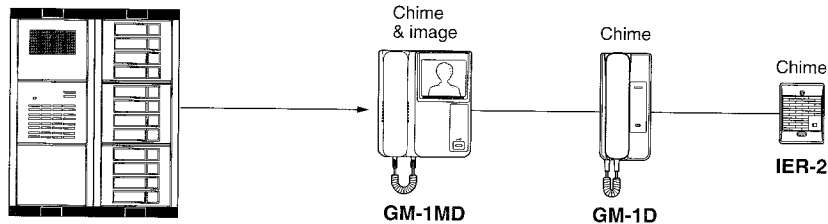
1. Speaker
2. TONE control, 3 positions

3 OPERATIONS

At Entrance Call Panel;

■ Placing a call

1. Press a call button of the apartment once.
2. Activated chime tone is fed back to entrance.
3. Communicate handsfree when the apartment station replies.



At GM-1MD & GM-1D Apartment stations

■ Receiving a call

1. Entrance 1 or 2 call-in activates both 4-tone chime and image on monitor, held for approx. 45 sec.
2. Pick up handset (either) to establish the talk channel.
3. At conclusion, replace handset on the cradle.

■ Activating door release

While GM-1MD monitor is on, or GM-1D is communicating with handset;

1. Depress and hold down Key-mark button.
2. Door strike is activated as long as the button is held down.

■ Adjustments

BRIGHT: Adjusts monitor's brightness, 3 positions.
TONE: Adjusts chime tone from speaker, 3 positions.

■ GM-1D audio station

1. GM-1D operates in the same manner as on GM-1MD, except with no visual monitoring.
2. There is no calling between room stations.

■ IER-2 call extension

IER-2 is an additional receiving device, which announces a chime tone only remotely from an apartment station.
Volume adjustable, 3 positions.

■ Standby

At end of communication, replace handset on the cradle. If handset is off the hook on one station, chime tone does not sound audibly at two stations. Only the monitor turns on with image. Hang up momentarily to connect to the calling entrance within 45 seconds.

■ Two apartment stations

Either station may reply to an entrance call. When two handsets are picked up at the same time, communication will be among entrance station and handsets. Hang up handset at one station.

4 TECHNICAL PRECAUTIONS

■ Calling priority

Calling to an apartment can be cancelled by pressing another apartment button. Last button pressed is effective, until the apartment station responds.

■ Occupied LED

When an apartment station is communicating with an Entrance station, the Occupied LED is lit on the other Entrance station. Calling becomes inoperative on the other Entrance station.

■ Communication

Answering to an Entrance is automatically cut off in 2-1/2 minutes. The apartment station cannot be reconnected to the Entrance until recalled.

■ When handset is off the hook

Upon called by an entrance station, the channel is established without being called by tone. For 45 seconds, the inside audio could be heard at the entrance. To resume communication, momentarily hang up handset within 45 seconds.

■ Apartment station

There are five combinations of apartment stations available;

- | | |
|-------------------------------------|------------------------|
| 1. One GM-1MD station. | 4. One GM-1D station. |
| 2. Two GM-1MD stations. | 5. Two GM-1D stations. |
| 3. One each GM-1MD & GM-1D station. | |

■ Cleaning

Clean your GM-1MD and GM-1D units with a soft cloth dampened with neutral household cleanser. Never use any abrasive cleaner or cloth.

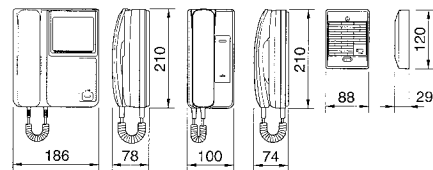
■ Before asking for repairs

If GM system becomes inoperative or malfunctions, DO NOT attempt to open or remove GM-1MD or GM-1D units. Ask qualified personnel.

5 SPECIFICATIONS (GM-1MD & GM-1D)

- Power source: DC 24V, supplied through GM-4V by PS-24ME power supply.
- Current consumption: GM-1MD: max. 410mA.
GM-1D: max. 50mA.
- Call-in timer: 45 seconds after chime tone heard.
- Communication: 2-1/2 minutes (no backup).
- Additional call device: One chime speaker IER-2 to each station.

- Dimensions: (mm)



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

WARRANTY

Aiphone warrants its products to be free from defects of material and workmanship under normal use and service for a period of two years after delivery to the ultimate user and will repair free of charge or replace at no charge, should it become defective upon which examination shall disclose to be defective and under warranty. Aiphone reserves unto itself the sole right to make the final decision whether there is a defect in materials and/or workmanship; and whether or not the product is within the warranty.

This warranty shall not apply to any Aiphone product which has been subject to misuse, neglect, accident, or to use in violation of instructions furnished, nor extended to units which have been repaired or altered outside of the factory. This warranty does not cover batteries or damage caused by batteries used in connection with the product.

This warranty covers bench repairs only, and any repairs must be made at the shop or place designated in writing by Aiphone.

Aiphone will not be responsible for any costs incurred involving on site service calls.