Aiphone GBM-2MKA

Aiphone GBM-2MKA Small-Scale Apartment/Condominium Intercom System User Manual
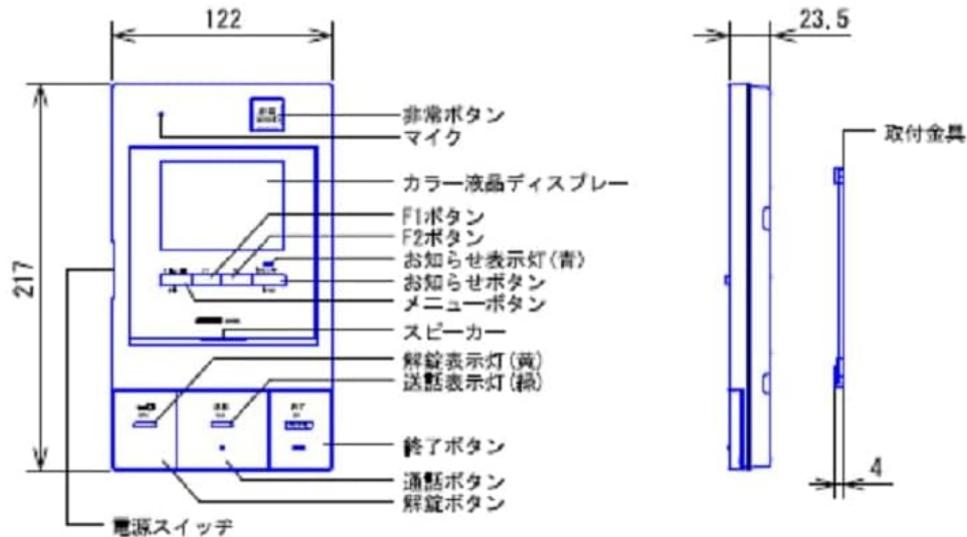
Model: GBM-2MKA

1. OVERVIEW

The Aiphone GBM-2MKA is a monitor-equipped master unit intercom system designed for small-scale apartments and condominiums. This model is the successor to the GBM-2MK. It offers enhanced features for security and convenience, including a color LCD display and various operational buttons for communication and access control.
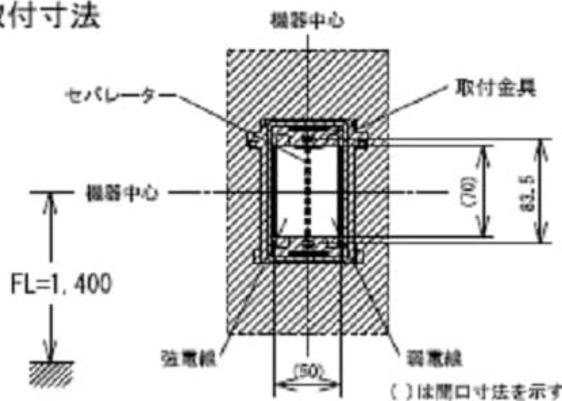
2. PRODUCT COMPONENTS AND EXTERNAL VIEW

The following diagram illustrates the external view and key components of the GBM-2MKA master unit, along with its installation dimensions and rear view connections.
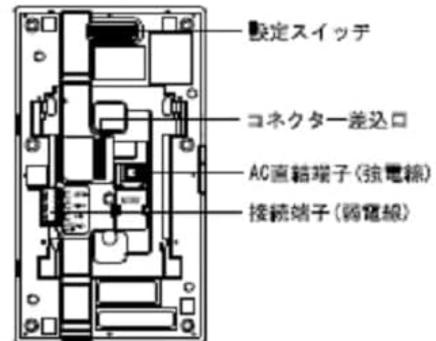
■外観図

外観図（上部）ラベル:
- 非常ボタン
- マイク
- カラー液晶ディスプレー
- F1ボタン
- F2ボタン
- お知らせ表示灯〈青〉
- お知らせボタン
- メニューボタン
- スピーカー
- 解錠表示灯〈黄〉
- 送話表示灯〈緑〉
- 終了ボタン
- 通話ボタン
- 解錠ボタン
- 電源スイッチ
- 取付金具

寸法: 122 / 217 / 23.5 / 4

●取付寸法

- 機器中心
- セパレーター
- 取付金具
- 機器中心
- FL=1,400
- 強電線
- 弱電線
- （50）
- （70）
- 63.5
- （ ）は開口寸法を示す

〈裏面〉ラベル:
- 設定スイッチ
- コネクター差込口
- AC連結端子（強電線）
- 接続端子（弱電線）

■仕様

電源電圧	AC100V 50/60Hz	呼出音	呼出音① ピンポーン, ピンポーン
消費電力	待受時1.7W 最大7.6W		呼出音② ピンポンパン
モニター	3.5型TFTカラー液晶モニター		呼出音③ ピポパンピポパンピポパンピポパン×3
画素数	23万画素		呼出音④ ピリリリピリリリ×4
通話方法	拡声自動交互通話/プレストーク通話	形状	壁取付型
使用周囲温度	0～40℃	適合ボックス	JIS1個用スイッチボックス＋セパレーター
玄関子機	1台	材質	自己消火性PC＋ABS樹脂
モニター付子機	1台	質量	約410g
お知らせ保存件数	最大40件（1件最大6枚）	色調	スノーホワイト（5Y9.3/0.1 近似マンセル値）
お知らせ保護件数	最大10件	備考	屋内専用

品名	モニター付親機（セキュリティ機能付）	図名	外観図/仕様	単位	mm	作成	2020年8月20日
品番	GBM-2MKA	図番	G51758-1-5	頁	1/5	改訂	1	アイホン株式会社

Image 1: External View, Installation Dimensions, Rear View, and Specifications of the Aiphone GBM-2MKA Intercom System.

2.1 External View (Front)

- **Emergency Button:** For emergency calls.

- **Microphone:** For voice communication.
- **Color LCD Display:** 3.5-inch TFT display for video and information.
- **F1 Button:** Function button 1.
- **F2 Button:** Function button 2.
- **Notification Indicator Light (Blue):** Illuminates when a notification is present.
- **Notification Button:** To access notifications.
- **Menu Button:** To navigate system menus.
- **Speaker:** For audio output.
- **Unlock Indicator Light (Yellow):** Illuminates when the door is unlocked.
- **Talk Indicator Light (Green):** Illuminates during a call.
- **End Button:** To terminate a call or exit a menu.
- **Call Button:** To initiate a call.
- **Unlock Button:** To unlock the door.
- **Power Switch:** To turn the unit on/off.

2.2 Rear View

- **Setting Switch:** For system configuration.
- **Connector Insertion Port:** For connecting external devices.
- **AC Power Terminal (Power Cable):** For connecting the main power supply.
- **Connection Terminal (Signal Cable):** For connecting signal wires.

3. INSTALLATION

The GBM-2MKA master unit is designed for wall-mounting. Ensure proper wiring and secure attachment for optimal performance.

3.1 Installation Dimensions

- **Unit Dimensions (W x H):** Approximately 122 mm x 217 mm.
- **Depth:** Approximately 23.5 mm (excluding mounting bracket).
- **Mounting Bracket Depth:** Approximately 4 mm.
- **Recommended Floor Level (FL):** 1,400 mm from the center of the device.
- **Opening Dimensions for Wiring:** 50 mm (width) x 70 mm (height) (indicated by parentheses in the diagram).

3.2 Mounting Procedure

1. Secure the mounting bracket to the wall using appropriate screws.
2. Connect the power cable (strong current) to the AC Power Terminal and the signal cable (weak current) to the Connection Terminal on the rear of the unit.
3. Insert the unit onto the mounting bracket, ensuring it clicks securely into place.
4. Verify all connections are firm and the unit is stable.

4. SETUP

Initial setup involves configuring the system settings to match your apartment or condominium environment.

4.1 Basic Configuration

- Use the **Setting Switch** on the rear of the unit to access configuration options. Refer to the detailed setup guide for specific switch positions and their functions.
- Ensure the **Connector Insertion Port** is used for any necessary external module connections.

4.2 System Pairing (if applicable)

If your system includes multiple monitor sub-units or door stations, follow the pairing instructions provided in the comprehensive installation manual to establish communication between all devices.

5. OPERATING INSTRUCTIONS

This section outlines the primary functions and operations of your Aiphone GBM-2MKA intercom system.

5.1 Receiving a Call

1. When a visitor presses the call button on the door station, the master unit will emit a call sound and display the visitor's image on the **Color LCD Display**.
2. Press the **Call Button** to answer the call and begin communication. The **Talk Indicator Light (Green)** will illuminate.
3. To end the call, press the **End Button**.

5.2 Communication Modes

- **Automatic Hands-free:** Allows for two-way communication without holding down a button.
- **Push-to-talk:** Requires holding down the **Call Button** to speak and releasing it to listen.

5.3 Door Release

During a call, press the **Unlock Button** to release the door lock. The **Unlock Indicator Light (Yellow)** will illuminate briefly.

5.4 Emergency and Notification Functions

- **Emergency Button:** Press this button in an emergency to alert designated contacts or security personnel.
- **Notification Button:** Press to view stored notifications. The **Notification Indicator Light (Blue)** signals new notifications.

5.5 Menu Navigation

Press the **Menu Button** to access system settings, review call history, or adjust display options. Use the **F1** and **F2** buttons to navigate through menu options and the **Call Button** to confirm selections.

5.6 Call Sounds

The system offers various call sound patterns:

- **Call Sound ①:** Ping-pong, Ping-pong
- **Call Sound ②:** Ping-pong-pan
- **Call Sound ③:** Pipopan Pipopan Pipopan Pipopan (x3)
- **Call Sound ④:** Piririri Piririri (x4)

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your intercom system.

6.1 Cleaning

- Wipe the unit's surface with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or spray directly onto the unit.

6.2 Battery Replacement (Door Station)

The door station is designed for long battery life, up to 24 months when using nickel-hydrogen batteries (capacity 2500mAh or more) and with the door monitor setting off. The master unit will notify you when the door station battery is low via a display message and an indicator light, reducing the need for frequent battery checks.

7. TROUBLESHOOTING

If you encounter any issues with your intercom system, refer to the following common troubleshooting steps. For more complex

problems, contact customer support.

- **No Power:** Check if the power switch is ON and if the AC power terminal is securely connected.
- **No Video/Audio:** Ensure all signal cables are properly connected. Check the door station for power.
- **Door Release Not Working:** Verify the wiring to the door lock mechanism and ensure the unlock button is functioning correctly.
- **Poor Image Quality:** Clean the camera lens on the door station.

8. SPECIFICATIONS

Feature	Specification
Power Voltage	AC100V 50/60Hz
Power Consumption	Standby: 1.7W, Maximum: 7.6W
Monitor	3.5-inch TFT Color LCD Monitor
Pixel Count	230,000 pixels
Call Method	Automatic Hands-free / Push-to-talk
Operating Ambient Temperature	0°C to 40°C
Door Station Units	1 unit
Monitor Sub-unit Units	1 unit
Notification Storage Count	Max 40 items (max 6 images per item)
Call Sound Patterns	Ping-pong, Ping-pong-pan, Pipopan (x3), Piririri (x4)
Shape	Wall-mounted type
Compatible Box	JIS 1-gang switch box + separator
Material	Self-extinguishing PC + ABS resin
Weight	Approx. 410g
Color Tone	Snow White (5Y9.3/0.1 approximate Munsell value)
Remarks	Indoor use only
Product Number	GBM-2MKA
Creation Date	2020/08/20

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This Aiphone product comes with a **2-year warranty period** from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty service, please contact Aiphone customer support. Refer to the official Aiphone website or your purchase documentation for the most current contact information.