

FRONTIER TECHNOLOGY INC.
www.frontier.com.tw

5F, No.69-8, Sec.2, Chung-Cheng E. Rd., TamShui Dist.,
New Taipei City 251,
Taiwan
Tel: +886-2-2809-6300
Fax: +886-2-2809-6225
Email: frontier@frontier.com.tw

寶銀實業有限公司
251新北市淡水區中正東路2段69-8號5樓

Karaoke Master HD

KM210 User Guide


使用手冊



IMPORTANT!

- To prevent from Bluetooth transmission lost or bad receiving of wireless microphones, DO NOT use or store the device and its microphones in a magnetic environment.
- Do NOT drop the device or apply excessive force to it.
- Do NOT subject the device to extreme temperatures.
- Do NOT expose the device to high temperatures or place it near a fire or heat source, so to avoid damaging the battery.
- This device is NOT waterproof. Do NOT use or store the device in a place near water, raindrops, juice, coffee, perspiration, etc., or otherwise in places with excessive humidity or steam.
- Clean only with a soft, dry cloth.

WARNING!

- Do NOT attempt to disassemble, repair, reassemble the device on your own, or remove the warranty sticker. Any of these actions will void the warranty and any repair services covered thereunder.
-  The information provided in this User Guide is subject to change without prior notice.

Contents

PART1	Getting Started	3
1.1	Package Contents	
1.2	Jacks	
1.3	Remote Control & Use	
PART2	Connecting Setup	7
2.1	Microphones Connecting	
2.2	Connecting to Input Devices	
2.3	Connecting to Output Devices	
PART3	Using KM210	10
3.1	Basic Operation	
3.2	Advanced Features	
PART4	Certifications, Liability, and Trademarks	12

1.1 Package Contents

Included in this package are:

- ✓ KM210 Main Set
- ✓ AC Power Adpater (DC 5V1.5A out)
- ✓ IR Remote Control
- ✓ Audio Cable
- ✓ User Guide
- ✓ Warranty Card

⚠ Actual contents may vary according to sales territories and their respective sales representatives.

Accessory options are:

- ✓ W1 2.4GHz Wireless Microphone Set

- ✓ Magic Control
- ✓ myCAST Wireless HD AV Receiver
- ✓ Portable Hi-End Active Speaker

Accessory Recommendations

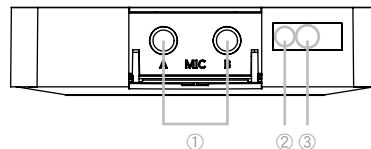
- ✓ HDMI Cable (Version 1.4a, Type A connector)
- ✓ Microphone (Ø6.3mm connector, impedance $600\Omega \pm 30\%$)
- ✓ Audio Cable (Dual RCA connectors to Ø3.5mm connector, or Ø3.5mm connectors at both ends)

1.2 Jacks

Front View



Microphone Jacks Panel Opened



① Microphone Input Jacks:

MIC-A and MIC-B

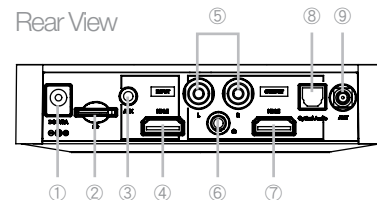
② IR Receiving Area

③ LED Indication:

Blue- Active
Blue Blinking-
Waiting for Bluetooth Connection

Red- On Recording
Red Blinking Once- Remote Control
Command Received

Rear View



① Power Jack: Input voltage DC 5V1.5A

② Micro SD Card Slot:
Storage of recorded files, for use of Micro SD cards up to 32MB

③ AUX: Wired audio input, connects to earphones using Ø3.5mm connector

④ HDMI Input Jack:
Connects to input sources using Type-A connectors

⑤ L/R Analog Output Jacks:
Connects to active speakers using RCA red/white connectors

⑥ 3.5mm: Connects to earphone using Ø3.5mm connector

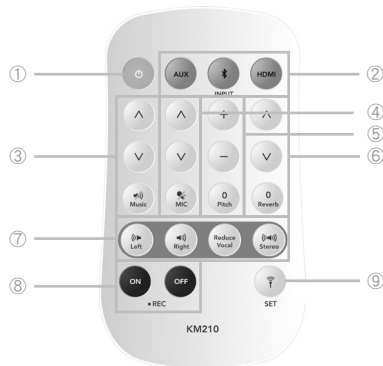
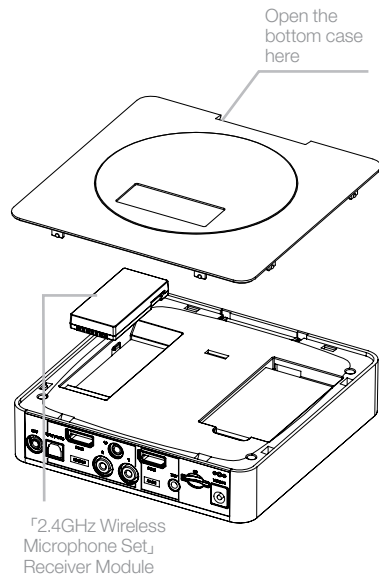
⑦ HDMI Output Jack:
Connects to TV using TYPE-A connector

⑧ Optical Audio: Connects to stereo using S/PDIF optical connector

⑨ ANT: Connection for 2.4GHz wireless microphone antenna

Perspective of Bottom View

The 2.4GHz wireless microphone receiver module can be slid into the receiver slot.



1.3 Remote Control & Use

The LED will blink RED once whenever you press any button to confirm the command received.

① Power Button

Turn on or turn off the KM210 during AC power adapter connected.

② Choose Input Sources

Choose one of input sources from AUX, Bluetooth or HDMI to enable the audio (music) input.

③ Music Volume Adjustment

Increases or decreases the music volume from 0-9 range. The lower button is mute and it is preset to "5".

④ Microphone Volume Adjustment

Increases or decreases the microphone volume from 0-9 range. The lower button is mute and it is preset to "6".

⑤ Pitch Adjustment

The device takes full range pitch adjustment from +12 to -12. Pressing the lower button 「0」 will force back to original key.

⑥ Reverb Echo Adjustment

The device is with versatile 8 reverb echo sound effects. They are Jazz, Hall, Superpro, Church, Pro, Echo, OnStage and SuperEcho in low to strong sequence. It is preset to 「OnStage」 to provide stronger effect.

⑦ Vocal Multiplexing and Vocal Reduce:

Switch between right track or left track on karaoke vocal multiplexing. The device will reduce about 80% original vocal of MP3/ Movie Video once 「Reduce Vocal」 pressed. The 「Stereo」 will release the settings and go back to preset stereo playback.

⚠ The vocal reduce effect may differ due to different song recording. Normally it will reduce 80% original vocal in average.

⑧ REC (Recording) :

Press ON to start the recording and OFF to stop the recording. Do remember to plug Micro SD card into the slot and make sure there is enough memory space. The LED will turn to RED as soon as recording started. Be aware of micro SD card may not be plugged into the slot or there is not enough memory space on SD card if LED does not turn to RED or RED light is off. The recording is using high quality 48KHz/16-bit sample rate; the file size of each recorded song (average 4 minutes) is about 45MB.

⚠ DO press the OFF button to stop recording to prevent the latest recorded file damaged.

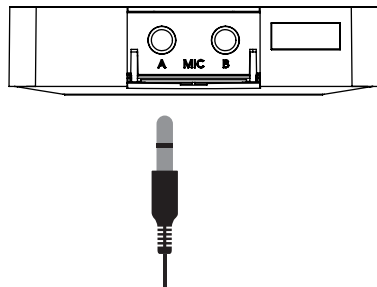
⑨ SET :

The button is to match the frequency of Wireless Microphone module with the 2.4GHz wireless microphone. The wireless microphone set is optional accessory and the module is included. Please refer to the user guide of wireless microphone for further setting instruction.

PART 2 Connecting Setup

2.1 Microphones Connecting

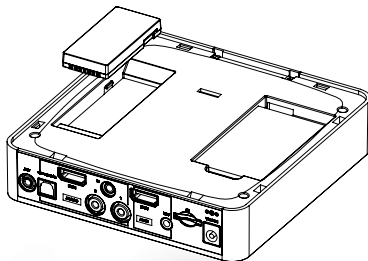
1. Connect the wired microphone plug into either MIC A or MIC B.



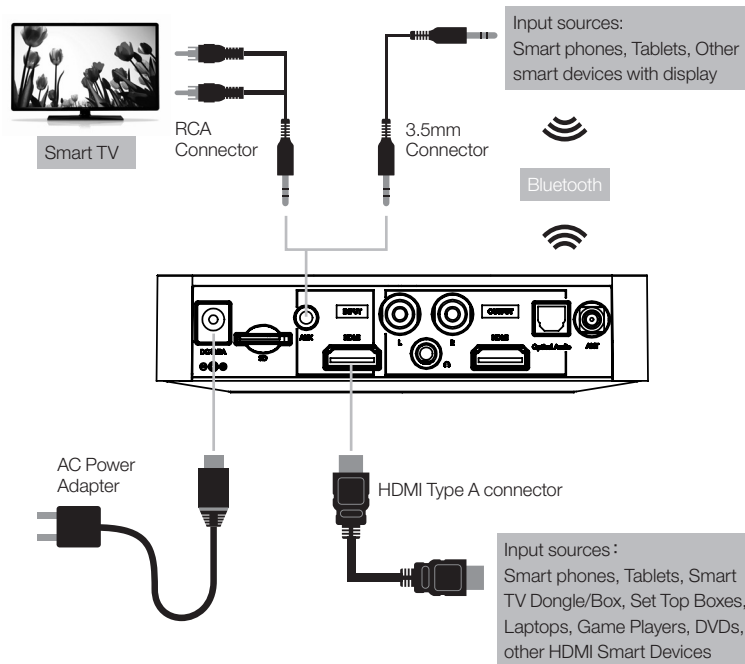
- Wired microphone inputs: 2 ports, MIC A and MIC B
- MIC Jacks: $\varnothing 6.3\text{mm}$
- Impedance: $600\Omega \pm 30\%$

2. Using 2.4GHz wireless microphone:

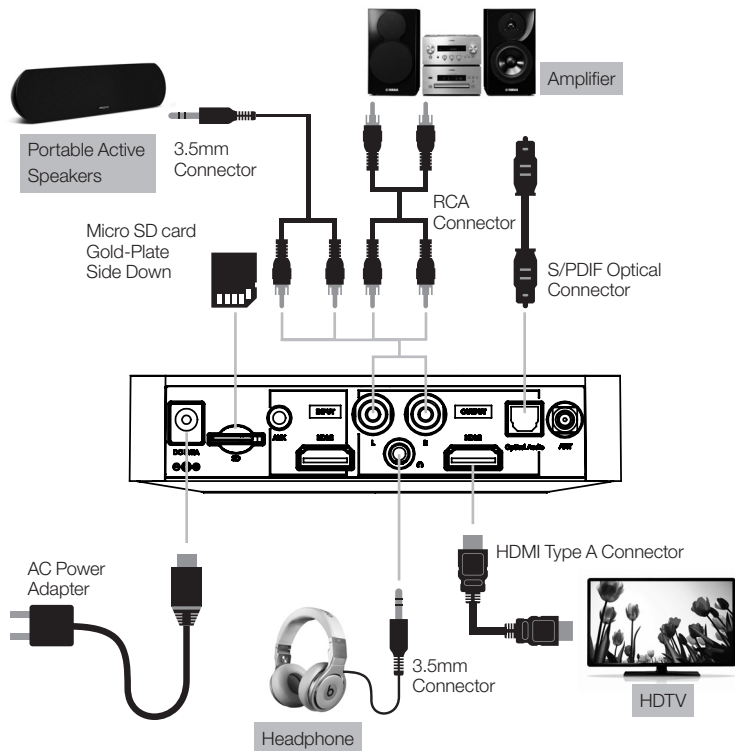
To use XCUBE' s 2.4GHz wireless microphone, you need to install the receiver module onto the designated slot and fasten the 2.4GHz Antenna on the rear side of KM210.



2.2 Connecting input devices



2.3 Connecting to Output Devices



PART 3 Using KM210

3.1 Basic Operation

DO follow PART 2 Connecting Setup to connect the necessary devices before using KM210. As soon as the setup completed and the input source is ready, follow up the procedures sequentially.

1. Turn the device ON with remote control. Speaker confirms with a beep.

⚠ The device will turn ON directly as soon as AC power adapter plugs in.

2. Select one of the following input sources with remote control.

■ AUX:

This is wired audio input by using Ø3.5mm connectors to connect KM210 AUX audio jack and input source's headphone jack.

■ Bluetooth

The device will receive wireless audio input by using Bluetooth. Press Bluetooth button and then speaker will make a beep sound that stands for waiting device match. Enable your player's Bluetooth and choose 'KM210' device, speaker will confirm with beep while devices matching completed.

■ HDMI

After TV displays the video input from HDMI source device, press HDMI button to receive audio input from HDMI source too.

3. Now start to playback songs & sing.

- AUX and Bluetooth are used for audio input only
- Input sources support smart phones, tablets, TV Dongles/boxes, STB Set top box, laptops, game players, DVD players, and other smart devices.

3.2 Advanced Features

Remember to use IR remote control as the input interface always!

Volume Control

Volumes of music and microphone can be adjusted separately. To prevent the bad sound quality caused by speaker overload, always tune your input under 80% of volume

Pitch Adjustment

Pitch can be adjusted dynamically from +12 to -12 ranges. Whenever you change a pitch, this pitch will be fixed until the 「0」 button pressed. 「0」 will make pitch to go back the original key.

Reverb Echo Effects

The device is with 8 varieties of reverb/echo sound effects. From weak to stronger effect, they are Jazz, Hall, SuperPro, Church, Pro, Echo, OnStage, and SuperEcho. OnStage is

the preset effect.

Vocal Multiplexing and Vocal

Reduce

User can switch between LEFT, RIGHT, or STEREO tracks for karaoke vocal multiplexing, otherwise to press 「Reduce Vocal」 button to remove the original vocal from MP3/MV (movie video) songs. Refer to chapter 1.3 for further information.

Recording

The device provides high quality recording feature. The recording is not only for singing recording but also music and speech recording. Pressing REC ON button will start recording immediately, and make sure to press REC OFF to stop recording for end of song playback or speech.

PART 4 Certifications, Liability, and Trademarks

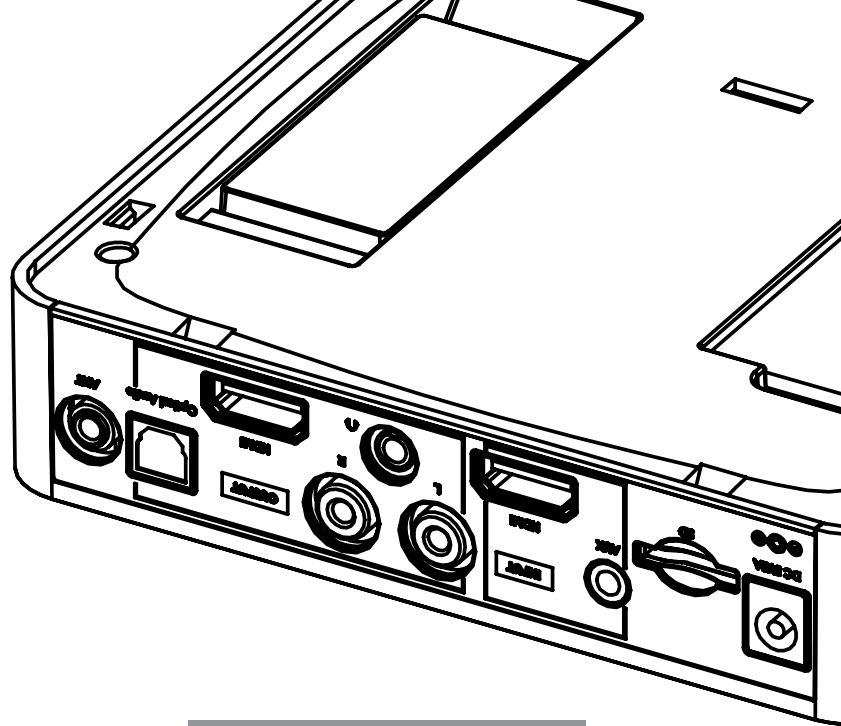
Certifications

This device is CE and FCC certified.

Limited Liability

Neither the manufacturer nor the dealer will be responsible for any accidental damage including bodily injury resulting from any misuse or improper operation by any user.

★ This product is manufactured and assembled in Taiwan.




中文篇

重要注意事項

- 不要使主機及麥克風置於鐵器或磁性環境下及使用，以避免藍芽傳輸或無線麥克風接收受到干擾。
- 請勿隨意摔落主機或者讓主機過度承受重力。
- 不要使主機承受極端過高或過低溫度。
- 不要將主機置於高溫曝曬環境下，避免電池受損。
- 本產品不防水，請勿於雨滴，水霧，果汁，咖啡，蒸汽，汗水等流體能飛濺到它的地方使用或儲存。
- 僅可使用柔軟及乾燥的布清潔主機。

重要警示

- 決不可自行拆除、修理、重組主機、或者撕除保固貼紙，上述行為將導致主機保固失效並不予維修。
- 決不可自行更換電池，上述行為將導致電池爆裂風險。

 本手冊裡提供的內容與訊息可能隨時調整，恕不另行通知。

目錄

第一章 使用前	3
1.1 包裝內容與配件	
1.2 主機插槽定義	
1.3 遙控器定義與使用	
第二章 設備連接	7
2.1 連接麥克風	
2.2 連接輸入設備	
2.3 連接輸出設備	
第三章 開始使用	10
3.1 基本操作	
3.2 功能使用	
第四章 安全認證、有限責任、與商標	12

1.1 包裝內容與配件

標準包裝內容，含下列項目：

- ✓ KM210 主機
- ✓ 電源連接器
(DC 5V1.5A out)
- ✓ IR 遙控器
- ✓ 音源線
- ✓ 使用手冊
- ✓ 保固卡

⚠ 包裝內容依地區及經銷商不同，會有不同調整。

選配項目

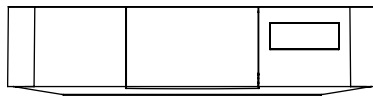
- ✓ W1 超高頻 2.4GHz
無線麥克風組
- ✓ 魔力棒 Magic Control
- ✓ myCAST 無線 HD 影音接收器
- ✓ 可攜式高音質擴音機

使用者自行購買配件建議規格

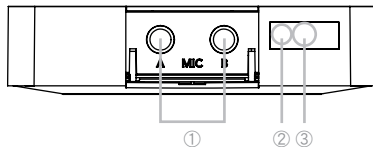
- ✓ HDMI 影音連接線
(支援 1.4a，雙邊 TypeA 接頭)
- ✓ 有線麥克風
(Ø6.3mm 接頭，600Ω±30% 阻抗)
- ✓ 音源線
(雙 RCA 接頭 - Ø3.5mm 接頭，
或雙邊 Ø3.5mm 接頭)

1.2 主機插槽定義

前視圖

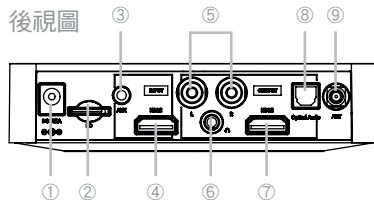


前蓋板打開後



- ① 麥克風輸入孔：
MIC-A、MIC-B
- ② IR 紅外線遙控器接收點
- ③ LED 燈號：
藍色—主機開機
藍色閃爍—藍芽搜尋中
紅色—錄音中
紅色閃爍一次—接收到遙控器按鍵訊號

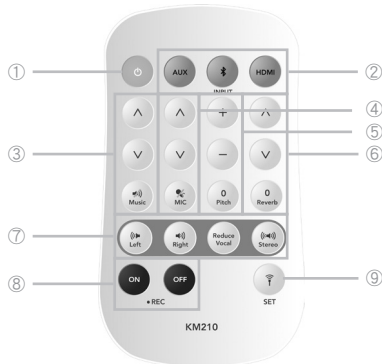
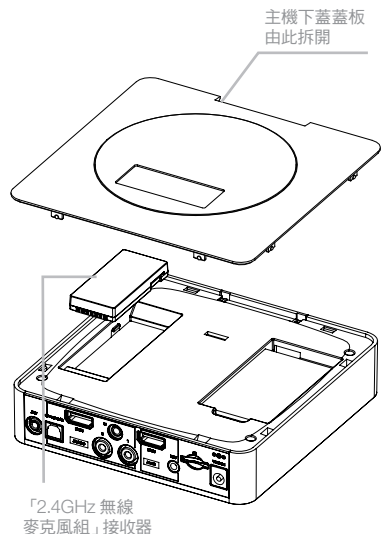
後視圖



- ① 電源輸入孔：
5V1.5A 輸入 (請使用公司標準配件)
- ② SD 卡插槽：
使用 Micro SD 卡 (支援 32GB)，提供錄音檔儲存
- ③ AUX：
音源輸入，使用 Ø3.5mm 接頭
- ④ HMDI 輸入：
使用 TYPE-A 接頭，輸入影音訊號
- ⑤ L/R 輸出：
使用 RCA 紅 / 白色雙接頭，輸出音源訊號
- ⑥ Ω：耳機輸出孔，使用 Ø3.5mm 接頭
- ⑦ HMDI 輸出：
使用 TYPE-A 接頭，輸出影音訊號至電視
- ⑧ Optical Audio：
使用 S/PDIF 光纖接頭，輸出音源訊號至擴大機
- ⑨ ANT：
2.4GHz 無線麥克風天線插孔

後蓋透視圖

將後蓋板掀起後，可將專屬選購配件「2.4GHz 無線麥克風組」之接收器插入接收器插槽，接收器插槽具方向性及防呆裝置。



1.3 遙控器定義與使用

使用遙控器時，每次按鍵後主機前端 LED 燈號會出現紅燈閃爍一次，代表收到按鍵訊息。

- ① 電源開關：
連接電源狀態下，可以開啟 (ON) 或關閉 (OFF) 主機。
- ② 輸入源選擇：
AUX/ 藍芽 /HDMI 3 種選擇，開機後必需先選擇輸入源，才會啟動音訊 (Music) 輸入。

- ③ 音樂音量調整：
音量調整範圍為 0-9 階，最下方為音樂靜音鍵，音量預設值為 5。
- ④ 麥克風音量調整：
音量調整範圍為 0-9 階，最下方為麥克風靜音鍵，音量預設值為 6。
- ⑤ 升降調 (Key) 調整：
升降調調整範圍為 +12 至 -12 全音域，最下方「0」為歸零回復原調 (Key) 鍵。
- ⑥ 迴音殘響 (Reverb) 調整：
本機具備 8 種預設音場，由低至高依序為爵士、劇院、唱將、教堂、迴蕩、歌神、演唱會、舞台；最下方「0」為迴音關閉 (OFF) 鍵，預設值為「演唱會」。
- ⑦ 聲道切換與人聲消除：
卡拉 OK 歌曲可經由按「左聲道 (Left)」或「右聲道 (Right)」選擇伴唱或原音播出，一般 MP3/MV 歌曲可選擇按「人聲消除 (Reduce Vocal)」鍵，將原音人聲降低約 80%，解除「人聲消除 (Reduce Vocal)」可按「立體聲道 Stereo」，開機預設值為「立體聲道 Stereo」。

⚠ 人聲消除 (Reduce Vocal) 效果依每首歌曲錄製特性不同而有差異，降低約 80% 為平均值。

- ⑧ 錄音 (REC)：
按開啟 (ON) 後可立即開始錄音，按關閉 (OFF) 後立即停止；開始錄音前請插入 Micro SD 卡並確認預留充足記憶空間，錄音開始後主機前方 LED 會轉為紅燈，如未轉為紅燈或紅燈消失，表示 Micro SD 卡未插入或記憶空間不足。錄音採高音質 48KHz/16 位元取樣錄製，每首歌 (4 分鐘) 錄音檔案約為 45MB。

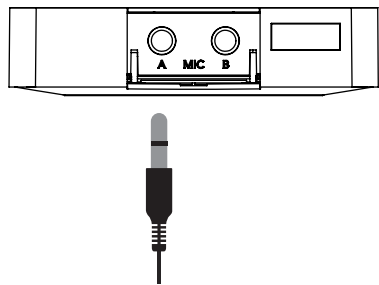
⚠ 歌唱錄音時，歌唱完畢需按關閉 (OFF) 鍵停止錄音；拔出 SD 卡前需停止錄音，以免損壞錄音檔案。

- ⑨ 無線麥克風對頻 (SET)：
本公司之選購配件「2.4GHz 無線麥克風」於出廠前會預先完成對頻，如使用時發現無法完成對頻，可按此鍵重新對頻 (SET)，操作方式參見「2.4GHz 無線麥克風」說明書。

第二章 設備連接

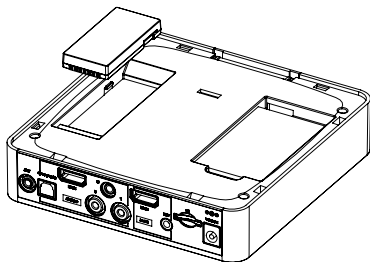
2.1 連接麥克風

1. 使用有線麥克風：將麥克風接頭插入 MIC-A 或 MIC-B。

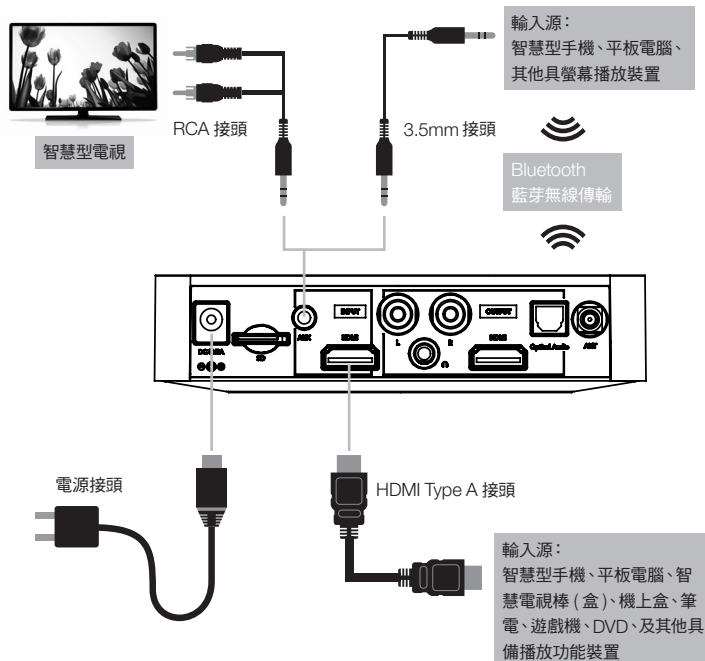


- 有線麥克風插孔：2 個（MIC-A、MIC-B）
- 接頭規格：Ø6.3mm
- 阻抗規格：600Ω±30%

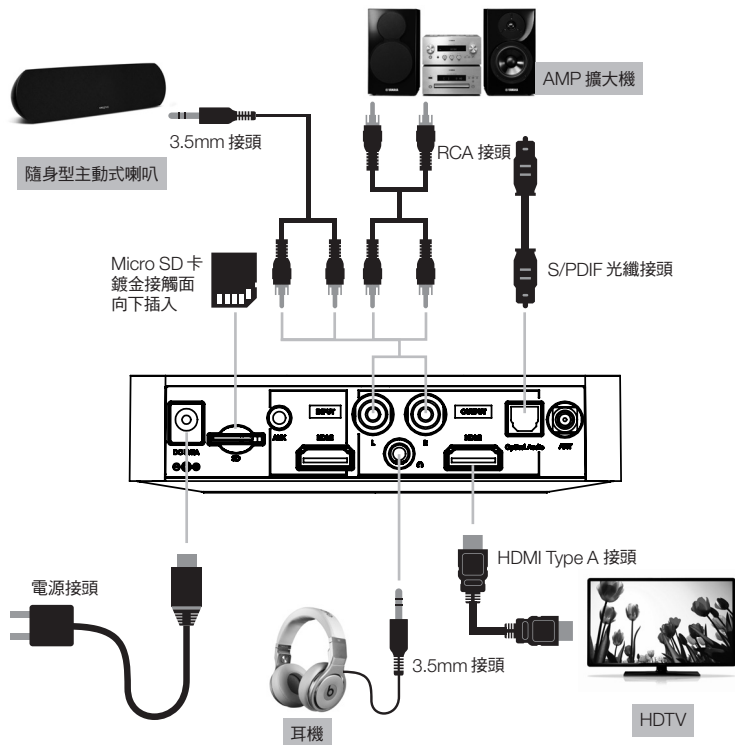
2. 使用無線麥克風：將無線麥克風接收器插入下蓋插槽，並插入天線。



2.2 連接輸入設備



2.3 連接輸出設備



第三章 開始使用

3.1 基本操作

開始使用前，請依第二章所述將主機連接音響擴大機，如欲使用 HDMI 輸入則需連接電視，插入麥克風，插入電源供應器後，並將輸入源開機待命；完成後依下列步驟順序操作。

1. 以搖控器開機，開機後喇叭會發聲確認開機完成。

⚠ 插入電源供應器，主機會直接開機。

2. 以搖控器選擇輸入源：

- **AUX:**
為有線輸入，以 3.5mm 接頭音訊線連接輸入源之耳機孔。
- **BT 藍芽無線輸入：**
按藍芽鍵後，喇叭會發聲「嘟嘟嘟嘟 - 嘟嘟」待命配對，此時輸入源請開啟藍

芽並搜尋「KM210」配對，當喇叭發聲「嘟嘟」，表示配對完成。

- **HDMI 影音輸入：**

依第 2.2/2.3 節完成連接，確認電視已出現影像後，按 HDMI 鍵即可將音訊傳入電視及音響擴大機。

3. 播放輸入源之影音，即可開始歌唱

- **AUX 及 BT 藍芽**僅為音源輸入，使用輸入源螢幕作為影像顯示。
- 輸入源可為智慧型手機、平板電腦、智慧電視棒（盒）、機上盒、筆電、遊戲機、DVD、及其他具備播放功能裝置。

3.2 功能使用

主機功能使用，以搖控器作為輸入控制介面。

音量調整

- 音樂音量與麥克風音量可分開調整，請參考第 8 頁使用說明。
- 輸入源原始音量建議勿超過 80%，以避免破音。

升降調 (key) 調整

- 本機升降調 (key) 為全音域 +12 至 -12 調整，請參考第 8 頁使用說明。
- 升降調 (key) 設定後會固定音階，唱下一首歌時可按「0」作歸零回復。

迴音殘響 (Reverb) 調整

- 本機具備 8 種預設音場，由低至高依序為爵士、劇院、唱將、教堂、歌神、迴蕩、舞台、演唱會；預設值為「舞台」。

聲道切換與人聲消除

- 卡拉 OK 歌曲由「左聲道」或「右聲道」選擇伴唱或原音播出。
- 一般 MP3/MV 歌曲選擇「人聲消除」，將原唱人聲降低。
- 解除「人聲消除」按「立體聲道」，回復預設值。

錄音 (REC)

- 按開啟 (ON) 開始錄音，按關閉 (OFF) 後立即停止。

第四章 安全認證、有限責任、與商標

安全認證

本主機通過 CE、FCC、BSMI 安全認證。

有限責任

製造商或經銷商，不對起因於使用者的錯用或不當使用，致造成包括人身傷害在內的任何意外或損壞負責。

本產品於台灣製造。