auxdio

High Fidelity Digital Amplifier

DM837
User's Manual

Content

Features

● With music control center, convenient and easy-operating

● Luxurious design, 3.5-inch TFT LCD screen, capacitive touch operation

● Five mode options: FM radio, USB , SD, Bluetooth, AUX.

● With compressed and lossless audio formats MP3, WMA, WAV, FLAC

● Support auxiliary input sensitivity (adjustable).

● Support FM radio; can search channels manually and automatically

; can save 20 channels at most.

● Wide voltage input, fit in with 100 ~ 240VAC, 50 / 60Hz.

● Class D differential output

● Support infrared remote control operation

● Support RS485 control

Basic Functions

1.Control Panel Instructions

Operation screen

Infrared receiving ports

SD port — USB port   Switch
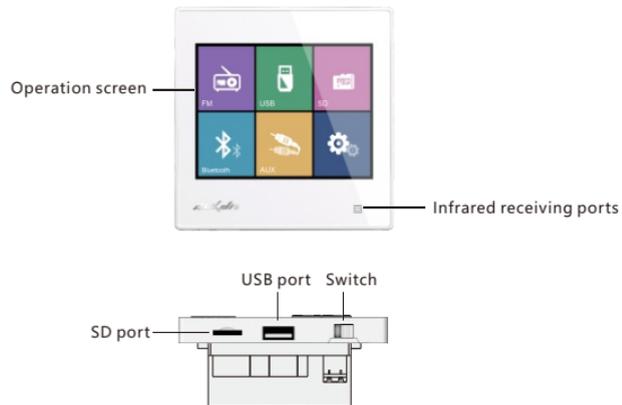
*For product appearance color, the real object in kind prevail

2. Operation of on/off and standby

ON: Turn the key to the right and start the boot.
OFF: Turn the key to the left and turn it off

OFF ← → ON
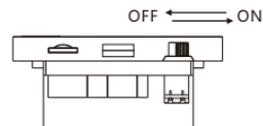
Play function

1. FM play
Twice-click the "FM" key to enter the radio mode。
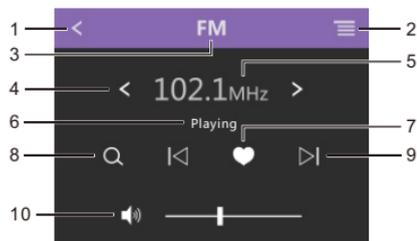
Pic. 1

1. Button of "Return "; click it and it will return to homepage.
2. Radio list button; click it and it will enter radio list interface(Pic.2).
3. It displays the current mode.
4. Button of radio frequency subtle tuning: press " < " and the frequency will go down; press " > " and it will go up. Long press " < " or " > " and it can half-automatically search radio's frequency and the searching will stop when available channel is searched .
5. Displays the current radio frequency.
6. Display the status
7. Button to save/keep the radio channel. Press it and the channel will be saved .Press it again and it will be canceled
8. Button of fully automatic channel searching. Available frequency will be saved to the radio list when it is searched
9. Radio channel switch button. Press it to move forward or backward.
10. Volume button, press it and it will be mute; slide the " 　 " and the volume will be adjusted.

Pic.2

1. Button of "Return "; press it and it will return to FM interface.
2. Radio list navigation bar, it can turn the page up and down when there are many pages,
3. The radio list display area. It displays the stored radio stations. (Save / cancel the saving in the FM interface to add or delete the station in the list.)

2. USB play

Twice click " USB " in the homepage and it will enter USB play mode.

Pic.3

1. Return button. Press it to return to homepage.
2. Play list button. Click it to enter the play list interface (Figure 4).
3. Displays the current mode.
4. Information of the song being played.
5. The playing process bar.
6. Playing control button: the previous song, play / pause, the next song.
7. Playing mode button
8. Volume button. Press it and it will go mute; slide the bar " 🔲 " and it will adjust the volume

Pic. 4

1. Button of "Return". Press it and return USB playing interface.
2. Play list navigation bar. It can turn page up and down when there are many pages.
3. Playing list area, it shows the music list in USB.

3. SD play

Twice click "SD" to use SD playing mode
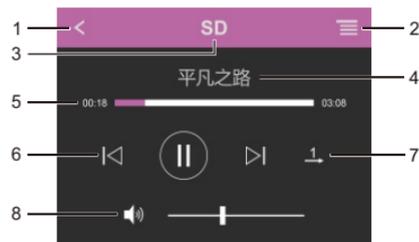
Pic.5

1. Return button. Press it to return to homepage.
2. Play list button. Click it to enter the play list interface (Figure 4).
3. Displays the current mode.
4. Information of the song being played.
5. The playing process bar.
6. Playing control button: the previous song, play / pause, the next song.
7. Playing mode button
8. Volume button. Press it and it will go mute; slide the bar " 🔲 " and it will adjust the volume

4. Bluetooth play

Twice click "Bluetooth" to use Bluetooth play mode.
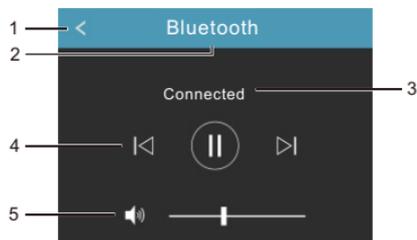
Pic. 6

1. Return button. Press it to return to homepage.
2. Displays the current mode.
3.Displays the Bluetooth connection status
4. Information of the song being played.
5. Playing control button: the previous song, play / pause, the next song.
6. Volume button. Press it and it will go mute; slide the bar " ▬▬ "
   and it will adjust the volume

5. AUX play

Twice click "AUX" icon to use AUX play mode。
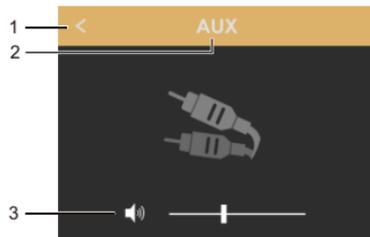
1. Return button. Press it to return to homepage.
2. Displays the current mode.
3. Volume button. Press it and it will go mute; slide the bar " ▬▬ " ,
   and it will adjust the volume

Setting

Set the system

Twice click " ⚙ " icon to enter system setting interface.。

There are following information in the setting interface：
1. Address
2. Language:, switchable system language
3. Backlight:you can set when to stand by the system without
operation for a certain period of time
4. Treble/bass adjustment setting
5. AUX sensitivity:, you can set the AUX sensitivity level
6. Baud rate setting
7. System information display: It displays system version No, device
   Bluetooth name and connection password

Bluetooth and volume configuration

Prepare a computer first and connect it to the device through the USB cable. Turn on the DM837 configuration software in the computer.

1. Modify the password and set the Bluetooth name

① Click the "Find DM837" button on the left side of the homepage of the software,and then device's information will show up in the top.

② Fill the name and password that's to be changed below "Bluetooth". Click "Configure" and it will be finished (Password can be empty).
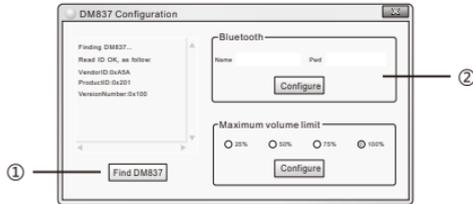
Software homepage

2. Maximum volume limit for the device

Here you can limit the total output volume of the device, you can set the total volume of "25%" "50%" Click "Configure" and it will be finished
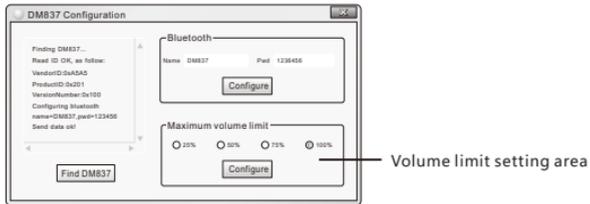

Homepage of the software

Remote description
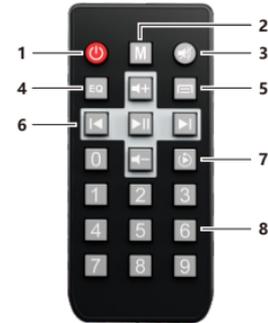
1. Standby switch
2. Mode selection. Click the button to cycle through the mode: FM, USB, SD, Bluetooth, AUX.
3. Mute
4. Sound mode selection.
5. Menu (not available).
6. Play controlling area. Can play / pause, the previous song, the next song, the volumecontrol.
7. Play mode selection. Click the button to cycle through the display: single cycle, the order of play
8. Numeric keypad: In the USB/SD card mode, the number keys directly select the track to play .In the FM radio mode, the number keys directly enters the FM frequency .
* The input range is 0870 ~ 1080. If the input frequency is out of range, it will not respond. For example: 0875 input means 87.5MHz

Parameters

|		
	Power Supply Input	~100-240V/50/60Hz
	Output Power	2 ×10W
	Rated Impedance	8Ω
	Total Harmonic Distortion	≤0.03% (1KHz, 1W, 8Ω)
	Signal to Noise Ratio	>81dB
	Frequency Response	20Hz – 20KHz
Controller	Auxiliary input sensitivity (adjustable) AUX	AUX: 1.0V / 500mV
	Audio format	MP3 , WMA , WAV , FLAC etc
	Bluetooth input	BT4.1
	Control interface	RS485
	Storage type	SDcard、USB
	Product size	86×86×38mm
Remote control	Remote control effective firing area angle	60°
	Effective remote control distance	10m
	Remote control battery	CR2032

Product Size
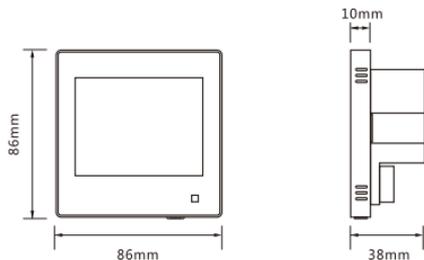
Installation and connection
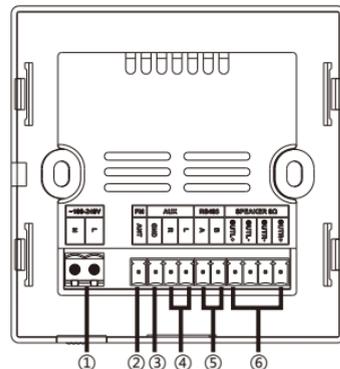
Rear of the amplifier

Coonection port description :

① Power input ~100-240V
② Fmantenna
③ Signal ground line
④ Audio input 1 (2 × 0.3mm² dual shielded audio cable)
⑤ RS485 interface⑥ Amplifier output (oxygen-free copper)

Note: All wire connections must not be exposed .

Interface terminal sub-function table

| Function	Power		FM	GND	AUX		RS485		Power Output 8Ω			
Icon	N	L	ANT		R	L	A	B	OUTL+	OUTL-	OUTR-	OUTR+
Name	Zero Line	Fire Wire	FM Antenna	Signal ground	Audio input right	Audio input left	A	B	Left speaker positive end	Left speaker negative end	Right speaker negative end	Right speaker positive end

Installation
●**Mounting box installation Note: The size of the mounting box you have purchased can not be less than 40mm.**

① Dig a groove fit in with the box in the wall and drill holes in the groove in the wall for connection later according to the screw holes at the four corners of the box bottom.


*Reserved openings

Groove in the wall
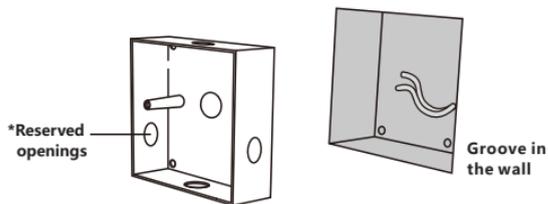
* Please arrange the alignment with the opening position of the actual mounting box.

② Put he connector through the reserved hole around the box, and put the mounting box into the wall groove by using four self-tapping screws to fix the mounting box firmly in the wall groove.


groove in the wall
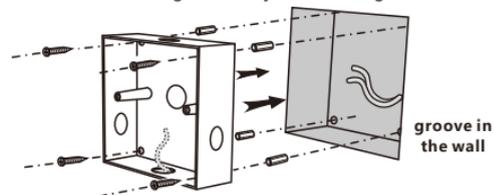
③ As shown in the demonstration below, select two buckles in the direction of A or B, and pull the outer edge out of it so that the snap is disengaged; carefully disconnect the front panel of the Bluetooth digital amplifier from the base.

base

A   B
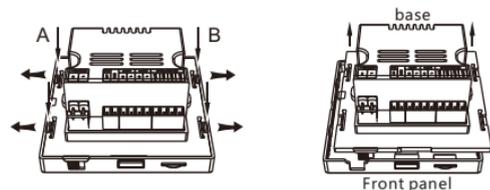
Front panel

④ Connect the connector to the interface of the Bluetooth digital amplifier base, and then fix the Bluetooth digital amplifier base with two screws on the two mounting posts of the mounting box
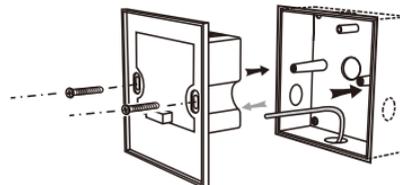
⑤ Connect the front panel of the Bluetooth digital amplifier in parallel with the fixed base, and close it tightly and carefully and check the stability.

groove in the wall

groove in the wall
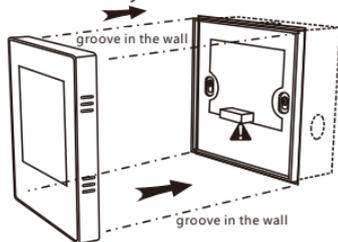
⚠ **Note: When the front panel and the base is fastened, insert the pin into the front panel hole. The needle can not be bent or damaged, otherwise it will cause serious damage to the amplifier.**

● **Note on box installation : the depth of the box must not be less than 40mm。**

① Put the connector through the reserved holes around the box, and put the mounting box into the wall groove by using four self-tapping screws to fix the mounting box firmly in the wall groove.


*reserved holes
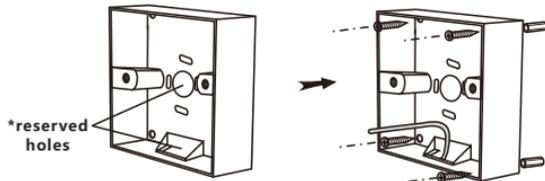
* Please arrange the alignment with the open position of the box

② Please refer yo step 3,step 4 and step 5 of the mounting box installation to complete the installation.

● **Disassembly**

① Find the gap of the combination position between the right of front panel of amplifier and the base.
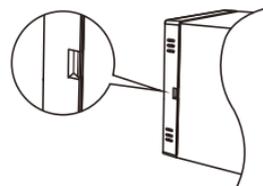
② Use a flattened screwdriver to aim at the buckle beside the gap and carefully pry the buckle, and then grasp the front panel with both hands, so that the front panel of the amplifier is as parallel as possible to the base. Be careful not to damage the pins on the base.

Screwdriver
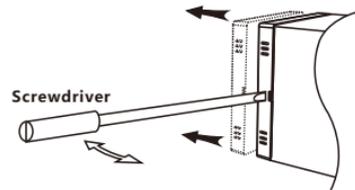
Package List

Component	quantity
Digital power amplifier	1
Remote Control	1
Product Manual	1

<u>Warning</u> <u>Statement</u>

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.