

# P/N : VAI-3106D600

## 6W AMPLIFIER + Bluetooth® Audio Receiver

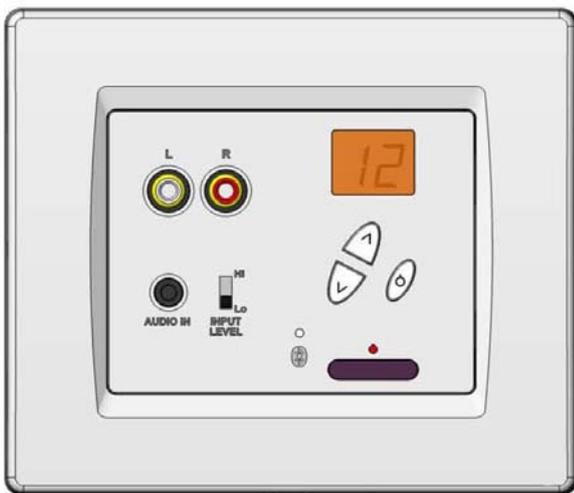
### INTRODUCTION

6W RMS left and right channel digital amplifier extra built with BT-enabled facility is ideal for being used in classroom, conference or SOHO room.

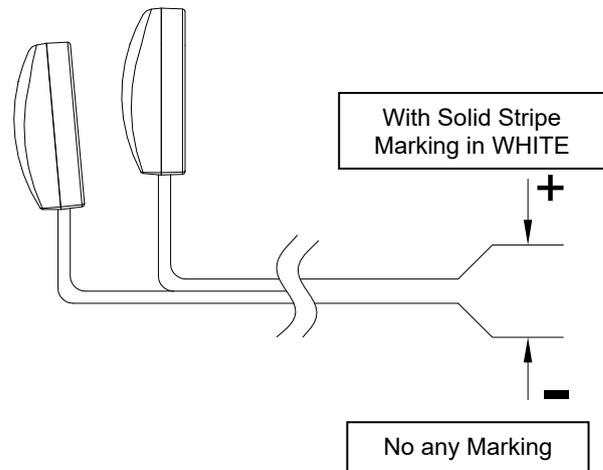
The unit is designed to not only enhance sound reinforcement but also allow to control most AV devices remotely through IR repeating function is also an additional feature.

### PARTS LIST

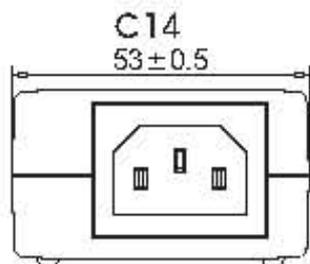
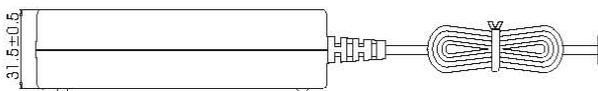
VAI-3106D600  
6W in-wall BT-enabled amplifier x 1unit



IEC-0002E-05 (optional)  
Dual emitter, bare lead x 1pc



PWS-24 (optional)  
24V switching power x 1pc



RMC-111 (optional)  
Customized amplifier remote control x 1pc



## **SPECIFICATIONS AND FEATURES:**

### **About Audio:**

- Output Power : 2 x 6W(RMS)@ 8Ω .
- Line Audio Inputs :
  - Stereo Phones ( L & R )
  - Stereo 3.5mm Jack (Priority)
  - Hard wired line input via screw terminal(Rear PCB, In parallel with 3.5mm Jack Input)
- Wireless Audio Input:
  - **Bluetooth**<sup>®</sup> Specification version 2.1+EDR for A2DP, in parallel with RCA stereo inputs
- Frequency Response : 35Hz ~ 20KHz.
- Input Sensitivity : ( Lo ) 200mv / ( Hi ) 1v.
- Speaker connectors : 4 way connectors for 14~22 AWG cable.( R+,R-,L+,L- )
- Volume control range : - 75 db
- Bass control range : +/- 12 db
- Treble control range : +/- 12 db
- Balance control range : +/- 30 db

### **About IR:**

IR frequency bandwidth in IR repeating receiver: 38 KHz  
Power Requirement for a kit: 24VDC, 1.5A

### **About Bluetooth<sup>®</sup> Receiver Module (included):**

- Support to play back the audio signal from BT-enabled devices Version 2.1 such as PC, note book or mobile phone that supporting A2DP profile
- 1- blue LED indicator to show modes of operation over BT receiver such as blinking for pairing mode and steadily light on meaning the connection completed between BT-enabled device and the receiver
- Unique 4-digit alpha-numeric ID for identifying each individual receiver when multiple units are used in one house.
- Reception Range: up to 30 feet depending on housing structure and environmental conditions.
- For indoor use only. Keep away from extreme temperatures, humidity, and moisture.

### **DIMENSIONS AND WEIGHTS:**

VAI-3106D600 6W in-wall BT-enabled amplifier

- Dimensions: 140 ( W ) × 120 ( H ) × 45 ( D ) mm.
- Weight: 0.25kg

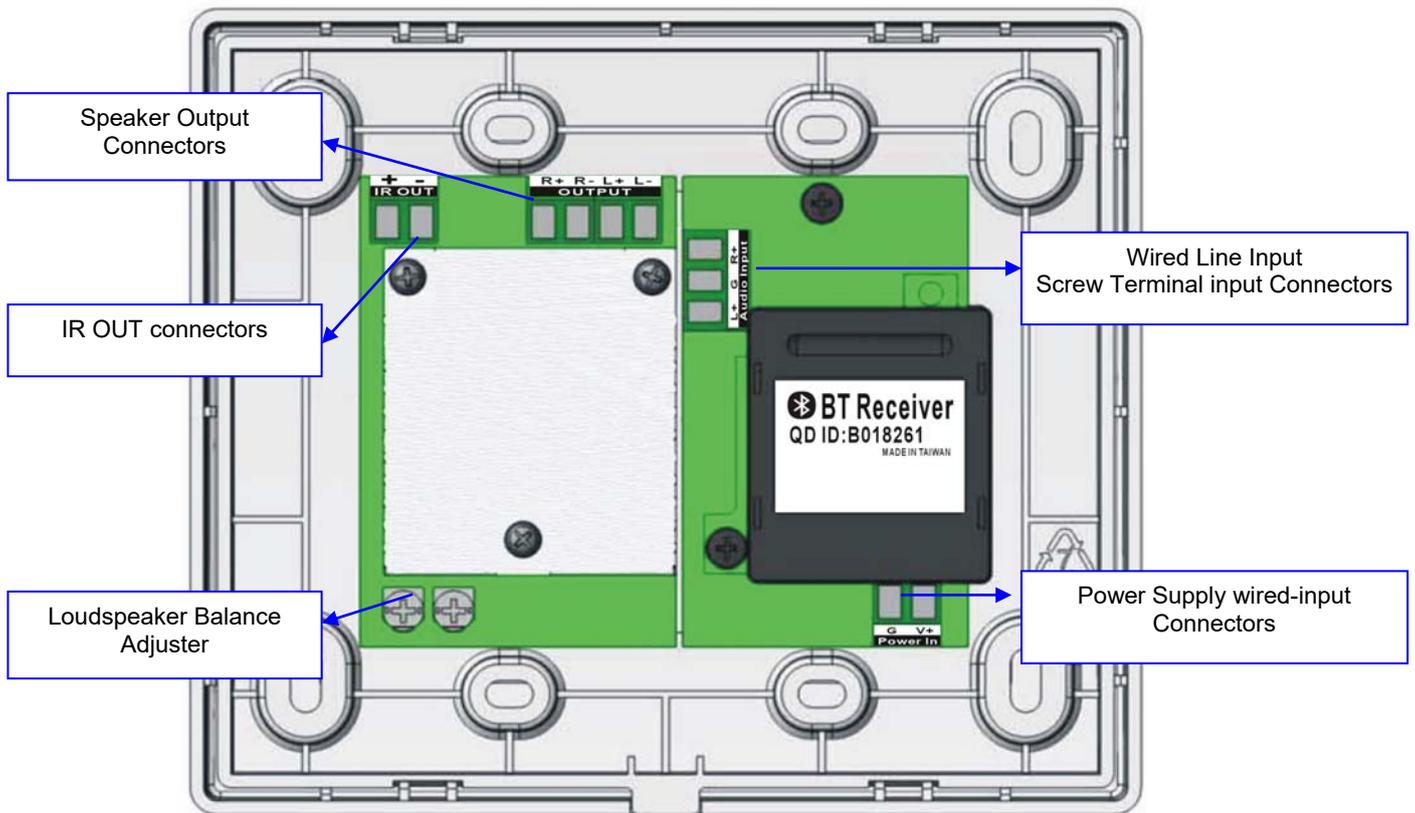
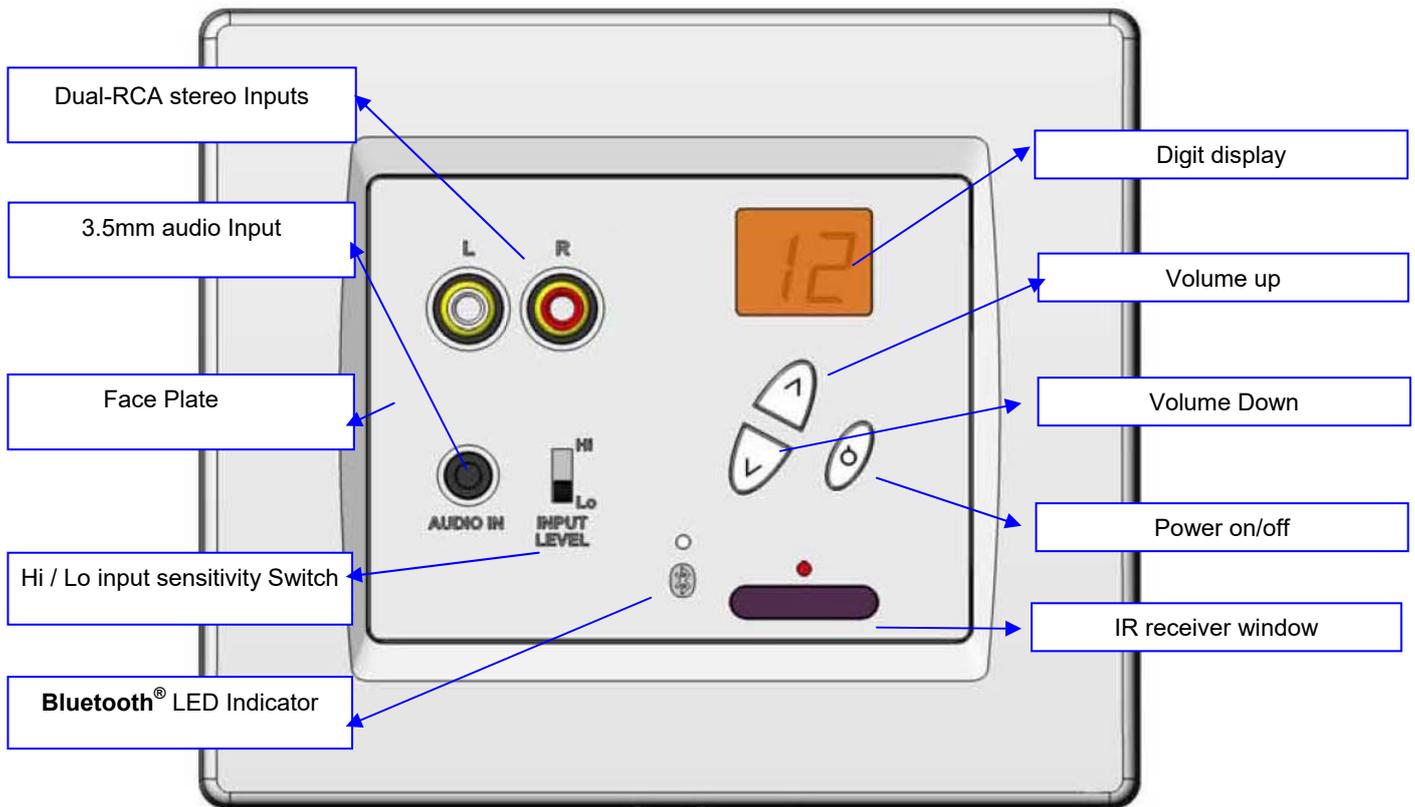
PWS-2415US Switching power, US plug

- Dimensions: 117 ( W ) × 53 ( H ) × 32 ( D ) mm.
- Weight: 0.25kg

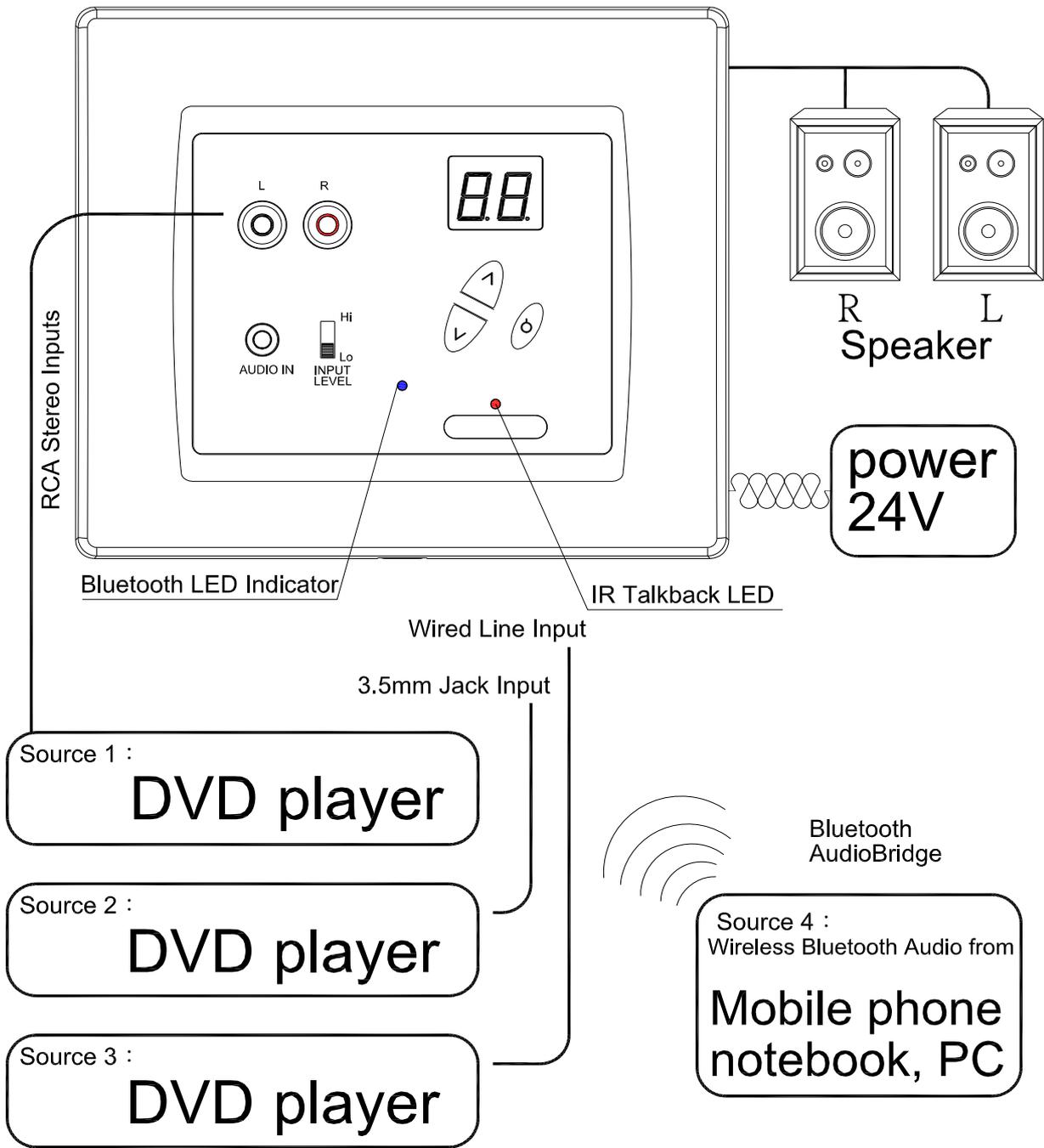
RMC-111

- Dimensions : 88x55x8mm
- Weight: 0.02kg

# PRODUCT VIEWS



**APPLICATION EXAMPLE:**



**INSTALLATIONS AND OPERATIONS:**

**INSTALLATIONS:**

**Step 1: Audio connection**

Connect line level audio devices such as MP3, CD, DVD, notebook...etc., to the unit via connectors of Dual-RCA L/R jacks or stereo 3.5mm jack at the front or another hard wired input also available at the rear while necessary. Stand-by Wireless audio connection with any BT-enabled devices that supporting A2DP profile makes music play so easy and joyful.

**Notes:**

The secondary wireless audio input of VAI-3106D600 is in parallel with dual-RCA input; if both present the signal at the same time then two sources will be mixed together. This will be happened also same to the priority input while the rear hard wired input and 3.5mm jack input both present the signal simultaneously. However all these can be retrieved by "stop" & "play"

again the source.

## Step 2: Speaker connection

4-p connectors for 14-22 AWG cable. (R+, R-, L+, L-)

## Step 3: power connection

Plug in the provided power for turning system to be standby

## Step 4: IR emitter connection (Optional)

Please refer to the last paragraph -ADDITIONAL FACILITY OF IR REPEATING FUNCTION.

### OPERATIONS:

- Press the power button of the keypads to switch the system on or using the customized remote control RMC111 to target the IR window of the unit is also desirable to get remote of the function. The orange backlight around the keypads will be illuminated while system is power on!
- Powering and playing your audio source with suggested volume setting in a half way and then increase the volume of VAI-3106D600 with factory preset volume at 8 until the level is desirable. Also the volume adjusting level from 0~31 can be displayed on the LED screen over the control by keypads up  and down  buttons or our customized remote control RMC-111 as provided. The adjustment of Treble, Bass, Balance also can be implemented according to above steps.
- High/low switch:  
For different levels of input sensitivity varied from MP3,CD,DVD or other devices, there a High/Low (HI/1V, LO/200mA)switch allowing to adjust the proper input level for a better sound reproduction without distortion or insufficiency.
- Procedures of pairing your BT-enabled devices with VAI-3106D600:
  - a. Place your **Bluetooth**<sup>®</sup> device within 1m of this unit.
  - b. Perform pairing procedure from your **Bluetooth**<sup>®</sup> device to detect VAI-3106S600 and you will find the ID name of "Audio adapter XXXX" will be appeared on the listing your BT-device. If not, power off VAI-3106D600 and repeat above procedure after 5sec of waiting.
  - c. Select "Audio adapter XXXX" on the display of the **Bluetooth**<sup>®</sup> device.
  - d. Input passkey/pin code "0000" is always required for first time connection from a same device.
  - e. Start the **Bluetooth**<sup>®</sup> connection from the **Bluetooth**<sup>®</sup> device.
  - f. Capable of storing up to 8 pairings and **also the unit is able to automatically reconnect to the previously last one paired device.**
- IR repeating function:  
IR repeating receiver window positioned at the right bottom may access IR extension to reach your IR control up to 8 units of AV devices far behind the close door using the existing remote control. Please refer to the last paragraph for more details.

### Notes on Bluetooth operations

#### 1) Working mode/sleep mode:

There is 3minutes working time for pairing or making connection when the Bluetooth receiver is powered on and entering into a working mode.

If there is no pairing/connection being made within 3 minutes, the Bluetooth receiver will enter into a sleep mode which means the “**pair**” option is no longer available until the Bluetooth receiver has been reset usually via power off and power on again to retrieve this 3minutes working time.

However the Bluetooth receiver can be woken up manually by any one of previously “**8 paired**” device for “**connection**” even if the Bluetooth receiver is being under the sleep mode.

**2) Automatic connection:**

The Bluetooth receiver will be in few seconds of searching once being powered on to sense and connect automatically to the previously **last one- paired** device.

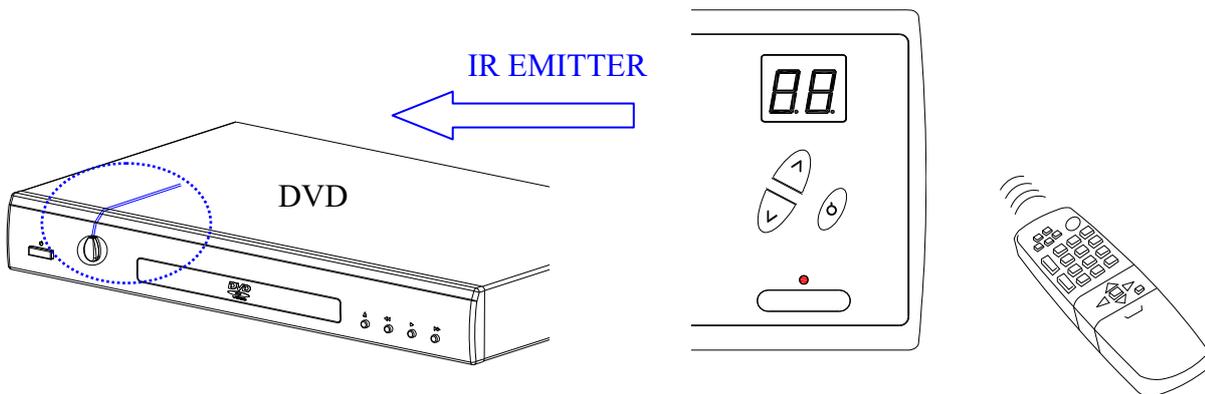
**3) memory function:**

The Bluetooth receiver is capable of storing up to 8 **pairings** and any new **pairing** will override the earliest one.

**4)** The Bluetooth connection between receiver & transmitter might be disconnected when it is out of the reception range regularly by 30feet, but the Bluetooth receiver is able to automatically connect to the transmitter device if the reception range is returning back to 30feets again in 30seconds.

**ADDITIONAL FACILITY OF IR REPEATING FUNCTION**

From a standard installation, the IR OUT terminal at the rear panel can be in parallel connection with 1units of dual emitter like as IEC-0002E-05 that allows you to get control onto your IR-controlled AV devices behind the close door up to 2units. The operation is using your own existing remote control to aim the IR receiver window positioned in front of the panel for a full control onto the remote devices far behind the cabinet.



**NOTE:**

- \*Compatibility with most 38KHz IR-controlled AV devices.
- \*Control range: Up to 50 feet indoor on axis (range depends on device being controlled and levels of IR or EM interference), 15 to 20 feet in direct sunlight.

# IR EXPANSION

From a standard installation, the IR OUT terminal at the rear panel can be in parallel connection with 1 units of dual emitter like as IEC-0002E-05. For getting more control onto the devices than 4 units over IR as mentioned above, then choosing our amplified IR connecting block for expansion up to 8 units of devices will be also a fantastic solution.

