



Audio Amplifier Series

User Manual

Model : VAI-3106D600

Wall Plate Type Bluetooth Digital Amplifier



Overview

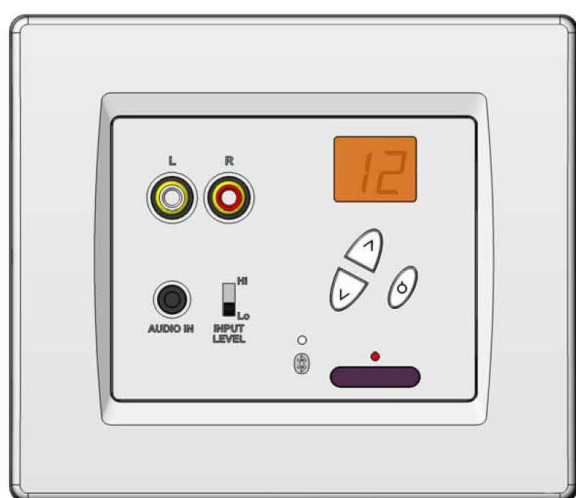
6W RMS left and right channel digital amplifier extra built with BT-enabled facility is ideal for being used in classroom, conference or SOHO room.

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

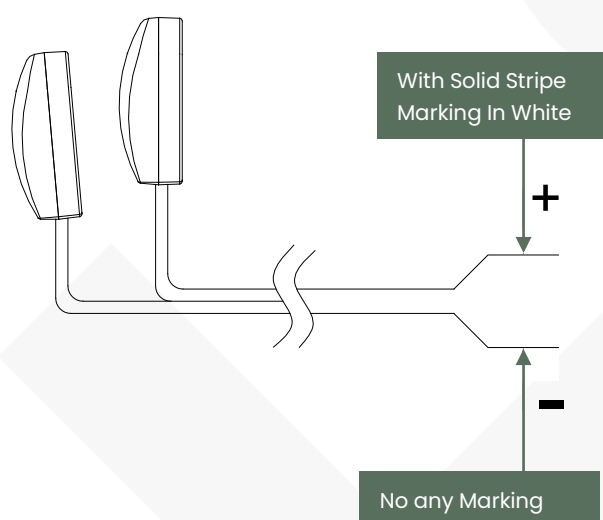
VAI-3106D600

6W in-wall BT-enabled amplifier x 1unit



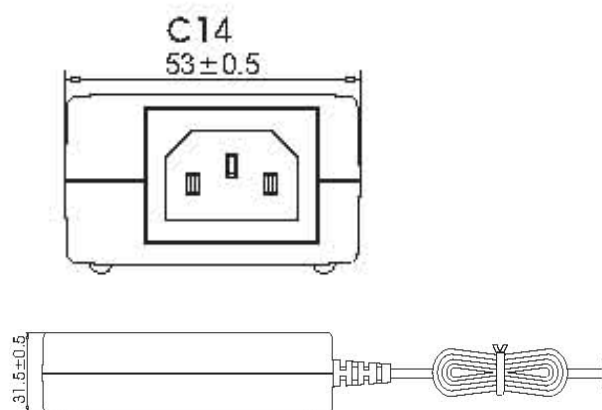
IEC-0002E-05 (optional)

Dual emitter, bare lead x 1pc



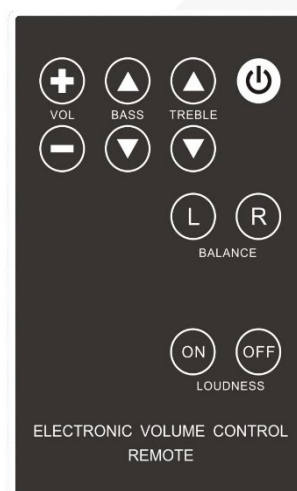
PWS-24 (optional)

24V switching power x 1pc

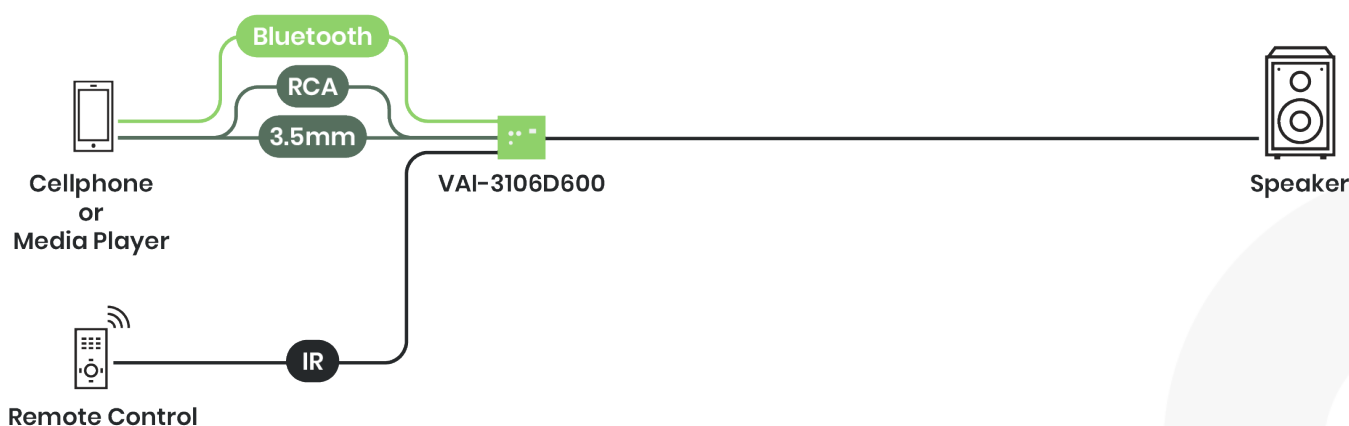


RMC-111 (optional)

Customized amplifier remote control x 1pc



Application



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® 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

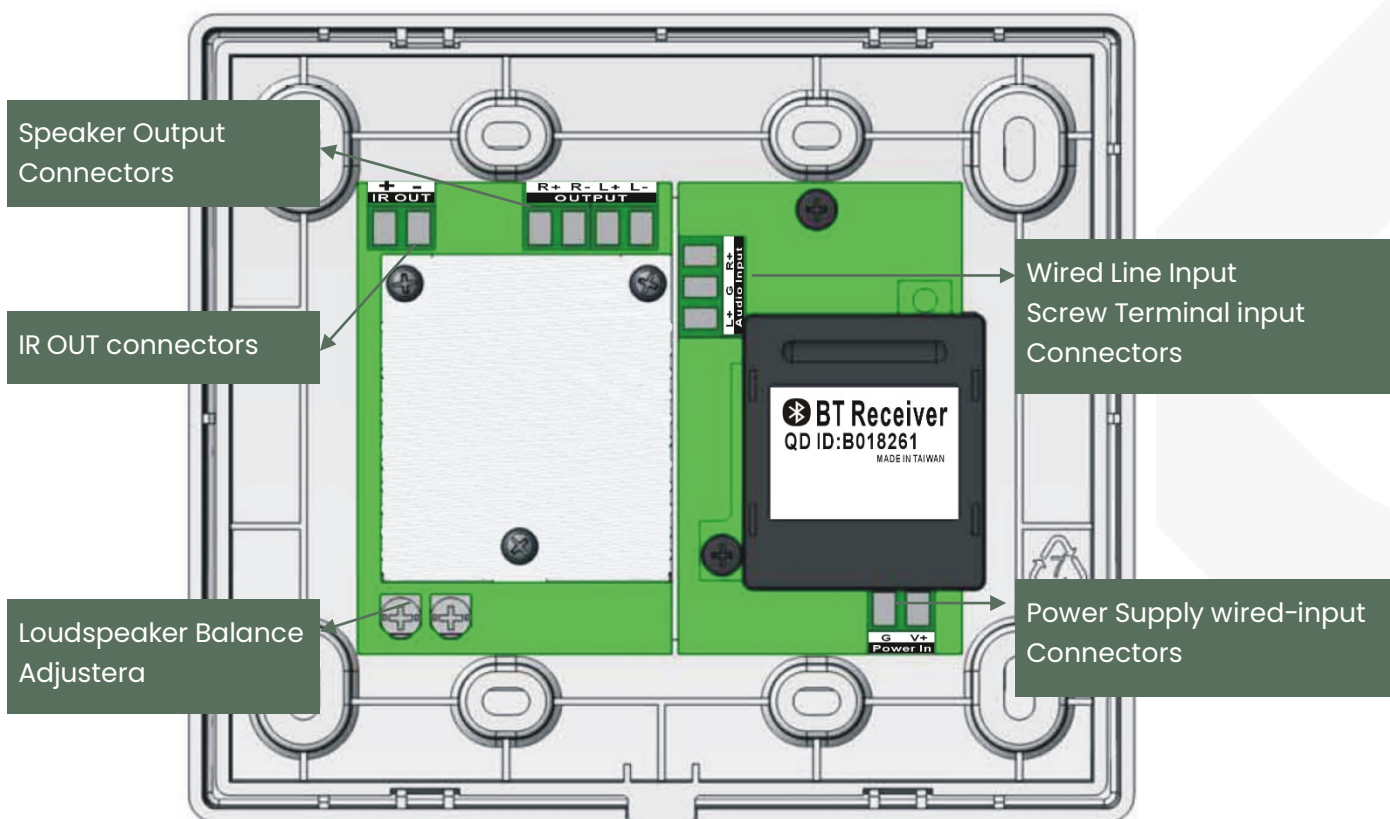
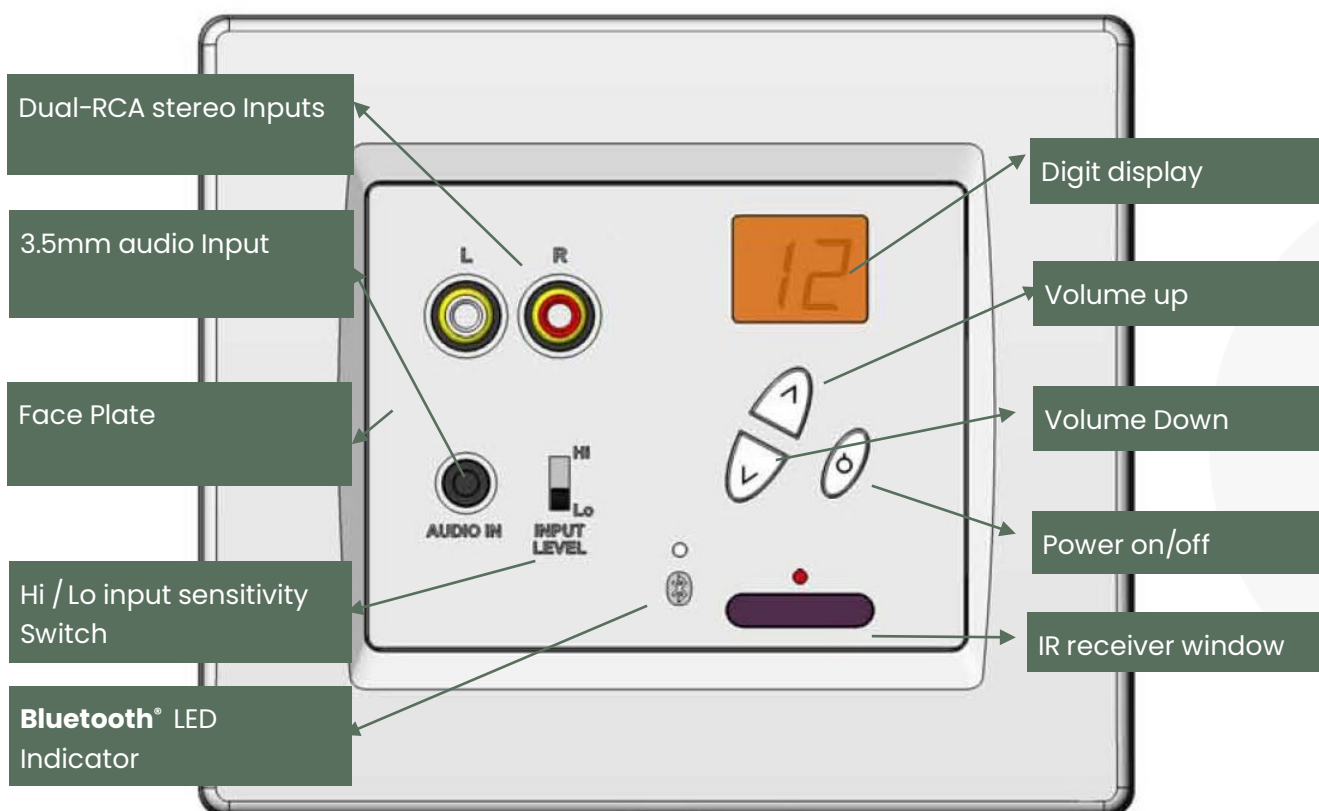
About Bluetooth® Receiver Module (included)

- 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
- 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.

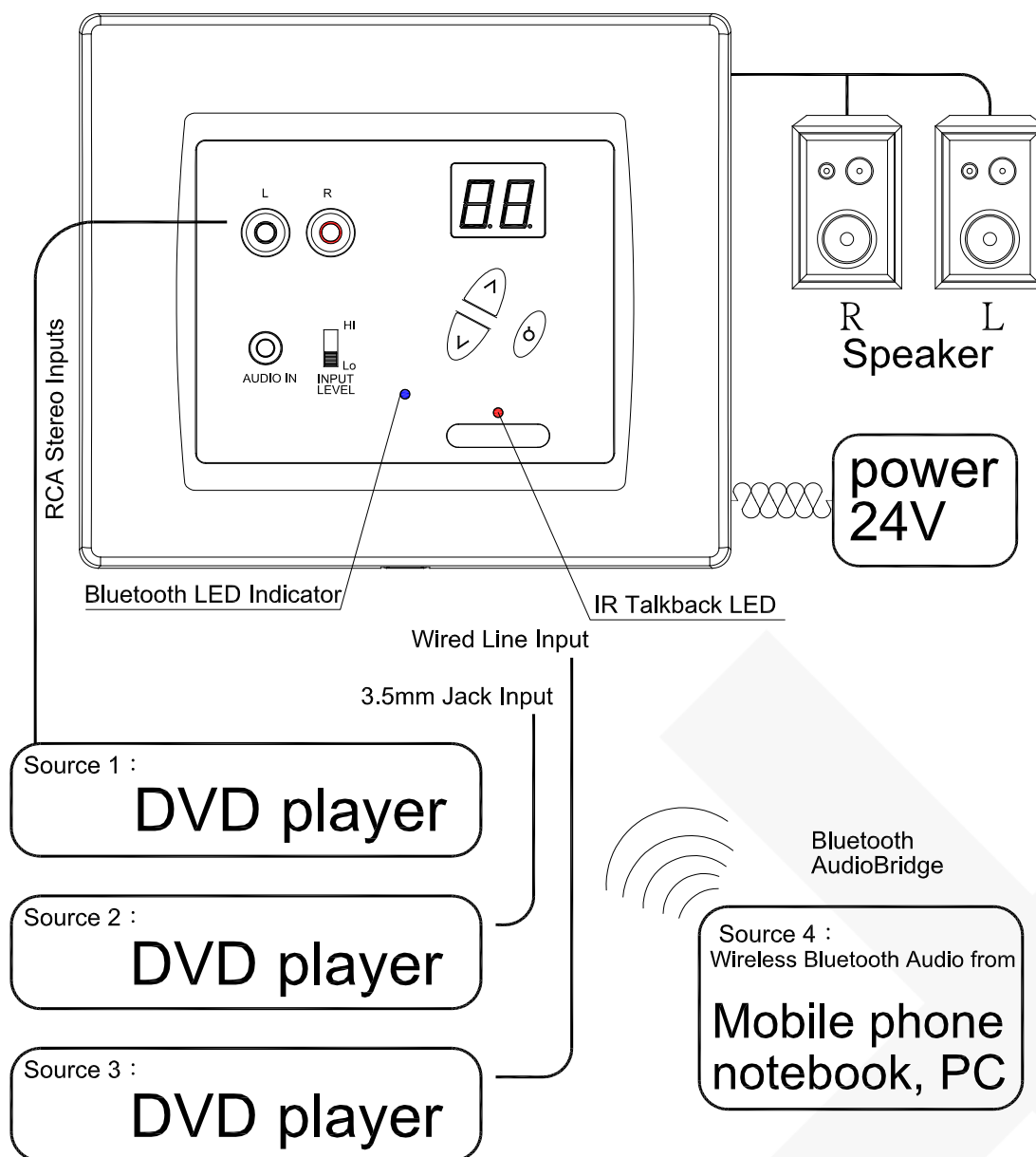
Dimensions And Weights

Model	VAI-3106D600 6W in-wall BT-enabled amplifier	PWS-2415US Switching power, US plug	RMC-111
Dimensions	140 (W) × 120 (H) × 45 (D) mm.	117 (W) × 53 (H) × 32 (D) mm.	88x55x8mm
Weight	0.25kg	0.25kg	0.02kg

Product Views



Application Example:



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.

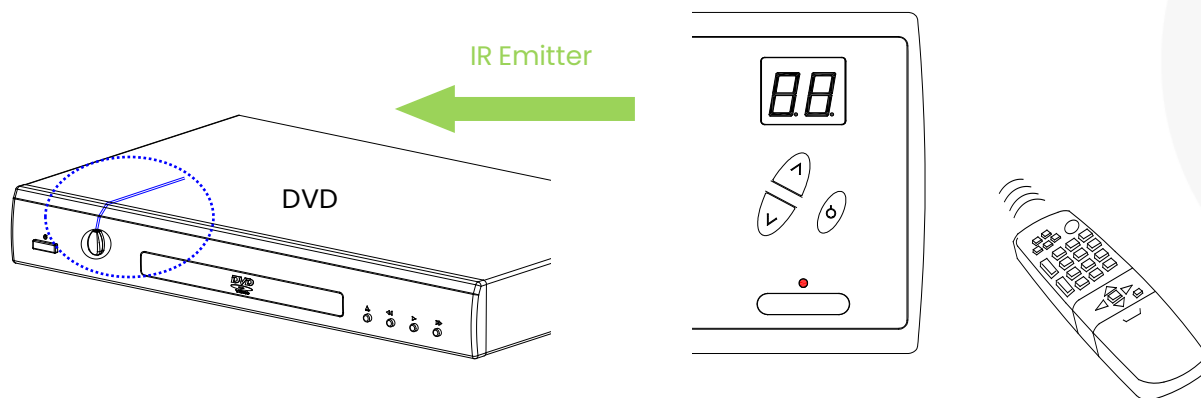
3) memory function:

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 30feet 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 1units 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.

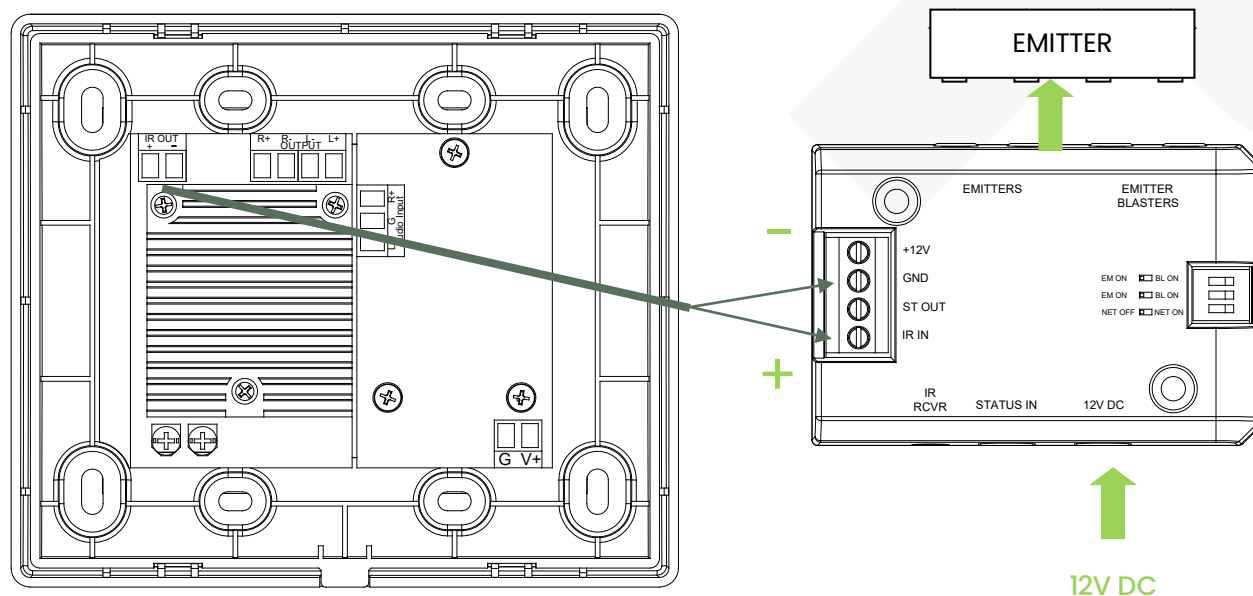


Diagram "P9"