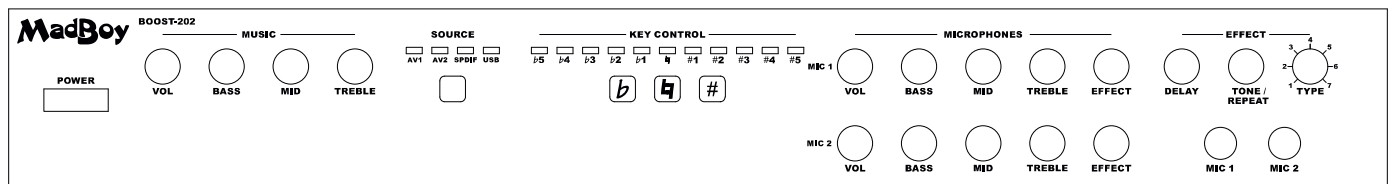


MadBoy®

BOOST-202

DIGITAL KARAOKE MIXING AMPLIFIER



OWNER'S MANUAL

WWW.MADBOY-AUDIO.COM

ENGLISH

Safety Instructions



CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Only refer servicing to qualified service personnel.

Explanation of Graphical Symbols



The lightning flash & arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of danger.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and servicing instructions.

WARNING

To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions - The safety and operating instructions should be retained for future reference.

3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions - All operating and use instructions should be followed.

5. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

6. Water and Moisture - Do not use this unit near water. For example, near a bathtub or in a wet basement and the like.

7. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

7 A. An appliance and cart combination should be removed with care. Quick stops, excessive force, and uneven surfaces may cause an overturn.

8. Ventilation - The appliance should be situated so its location does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation slots.

9. Heat - the appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

10. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

11. Grounding or Polarization - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

12. Power-cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. Cleaning - Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

14. Power lines - An outdoor antenna should be located away from power lines.

15. Nonuse Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

16. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

17. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:

- A. The power supply cord or plug has been damaged; or
- B. Objects have fallen into the appliance; or
- C. The appliance has been exposed to rain; or
- D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
- E. The appliance has been dropped, or the enclosure damaged.

18. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Note:

To CATV system installer's (U.S.A): This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected as close to the point of cable entry as practical.

For Geeks

- Digital mixing amplifier with 2 X 115 W (4 Ω) or 2 x 65 W (8 Ω) output power.
- High Performance 24-bit DSP Reverb Engine with seven adjustable effect types.
- Input selection switch for selecting different audio source.
- Two analog RCA inputs for connecting to DVD, CD player or Tablet
- Digital Toslink (S/PDIF) input and output for connecting to TV or amplifier.
- USB Audio Class 2.0 compliant audio interface for recording or audio mixing.
- Two analog RCA outputs for connecting to active speakers and TV.
- 2-way binding post outputs for connecting passive speakers.
- Digital Key Control +/- 5 semitones with LED indicators.
- Two microphone inputs with individual volume, 3-band equalizer and effect level controls.
- Effect controls with adjustable Delay, Tone / Repeat and Effect Type.
- Volume control and 3-band equalizer for music.

Inputs:

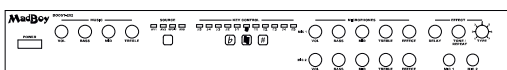
- Two microphone channels
 - Balanced 1/4" TRS jacks in the front panel
 - Balanced XLR connectors in the back panel
- Four audio inputs
 - 2 x RCA input
 - Digital Toslink S/PDIF input
 - USB audio input (USB Type B)
- Two video input
 - 2 x RCA inputs



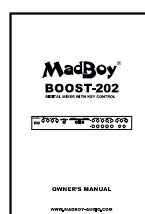
Outputs:

- Two speaker outputs for passive speakers (minimum impedance 4 Ω)
- Four audio outputs
 - 2 x RCA
 - Digital Toslink S/PDIF output
 - USB audio output (USB Type B)
- Subwoofer output for active subwoofer
 - 1 x RCA
- Two video outputs
 - 2 x RCA

Package includes:



BOOST-202 (1)



USER MANUAL (1)

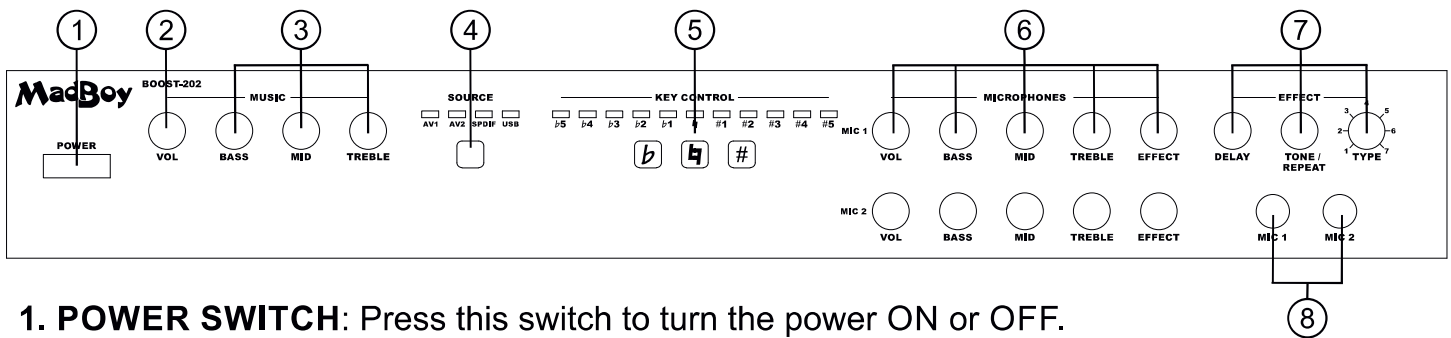


POWER CABLE (1)

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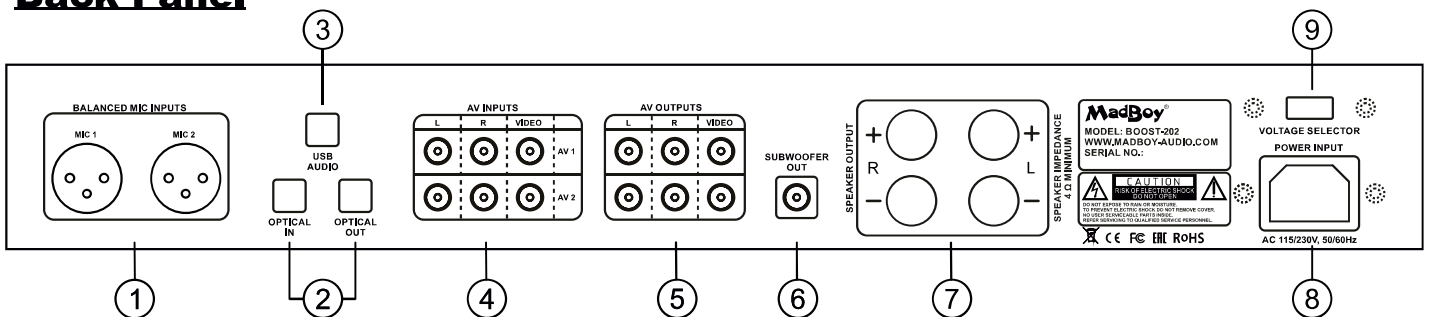
Getting Started

Front Panel



1. **POWER SWITCH:** Press this switch to turn the power ON or OFF.
2. **MUSIC VOLUME:** For adjusting the volume of the music
3. **BASS, MID and TREBLE** Use these to boost or cut the frequency of the music.
4. **INPUT SELECTION:** Press to select the input source (AV1/AV2/SPDIF/USB).
5. **KEY CONTROL:** For setting the key of the music:
 - Press **b** button to decrease key by one semitone.
 - Press **h** button to reset key back to normal.
 - Press **#** button to increase key by one semitone.
6. **MIC VOL, BASS, MID, TREBLE and EFFECT:** For adjusting the mic volume, effect volume and to boost or cut the frequency of the microphone.
7. **EFFECT DELAY, TONE / REPEAT and TYPE:** For adjusting the delay, tone (for effect types 1-5), repeat (for effect types 6-7) and the type* of the effect for the microphones.
 - *Effect types listed on page 14
8. **MICROPHONE INPUT (1/4" jack) :** Insert the microphone cable to these inputs.

Back Panel



1. **BALANCED MIC INPUTS (XLR):** Use these inputs with balanced XLR microphone cables.
2. **OPTICAL IN/OUT (S/PDIF):** For connecting digitally to/from TV/computer with Toslink cable.
3. **USB (TYPE B) IN/OUT:** For connecting to the computer to use as an audio interface for recording or audio mixing. Computer with USB interface required.
4. **AV INPUTS:** For connecting audio source ie. DVD, PC, MP3, CD via RCA cable connection.
5. **AV OUTPUTS:** For connecting to TV or active speakers via RCA cable connection.
6. **SUBWOOFER OUT:** For connecting active subwoofer using RCA cable.
7. **MAIN SPEAKER TERMINAL:** For connecting passive speakers. (Min. impedance 4 Ω).
8. **POWER INPUT:** Insert the power cable here.
9. **VOLTAGE SELECTOR:** For selecting AC voltage (230 V / 115 V).

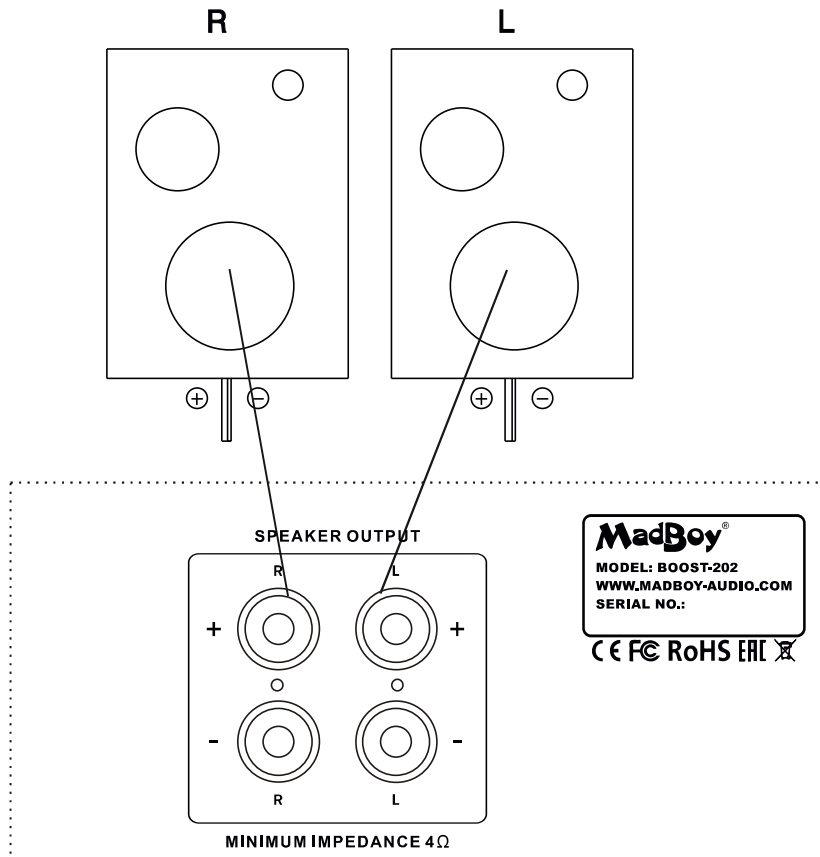
NOTICE! MAKE SURE THAT THE VOLTAGE IS SET CORRECTLY FOR YOUR REGION! WRONG VOLTAGE SETTING MAY CAUSE SERIOUS DAMAGE TO MACHINE AND VOIDS THE WARRANTY!

Getting Connected: Connection Examples

Before connecting speakers, make sure that power is turned OFF from the mixer and other devices (TV, active speakers...). For connecting BOOST-202 to speakers, speaker cable is needed.

Connecting speaker

1. Connect the speaker to speaker terminal of the unit with identical impedance.
2. Please follow the speaker polarity pole (+,-) when connecting.



Connecting the speaker with speaker wire

- 1 Strip 10mm from the end of the cable

 Twist the stripped wire
- 2 Loosen the terminal by turning it counterclockwise
- 3 Insert the stripped end of the speaker cable into the terminal
- 4 Tighten the speaker terminal by turning it clockwise

Notice! Amplifier is protected against short-circuit, overheating and overload due to too low impedance. All Key Control LEDs are blinking when the Protect Mode is ON. Amplifier is automatically recovered after the fault situation.

Connecting the speaker with a banana plug

- 1 Tighten the terminal by turning it clockwise
- 2 Insert the plug tightly into the terminal
- 3 Profile

Getting Connected: Basic Connection Examples

Before making any connections turn the power off from all devices.

The analog connection can be made according to the Basic Connection Example using RCA cable. Cables are color-coded (white, red, yellow) to make the installation easier.

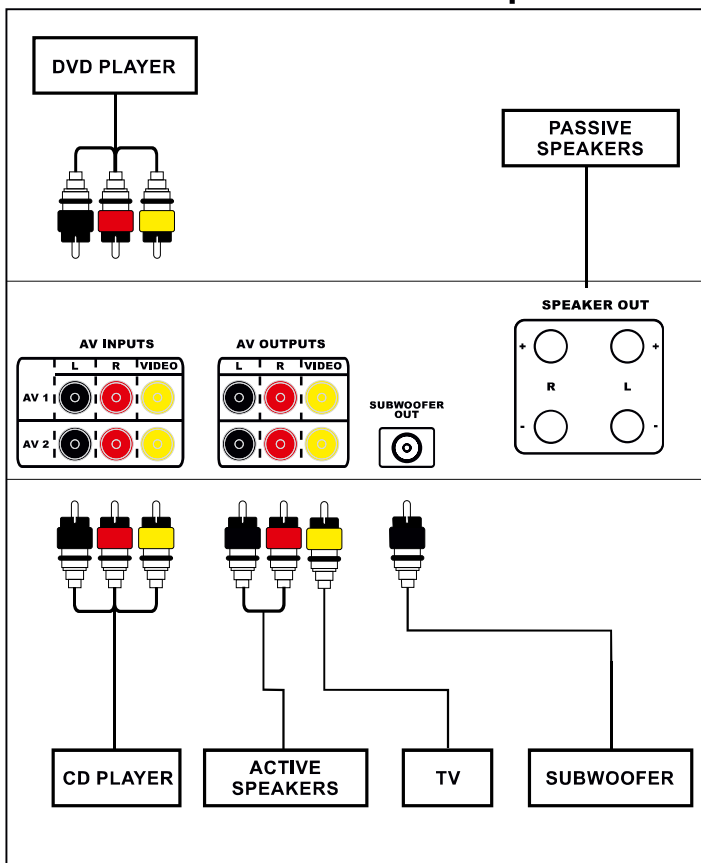
The digital connection can be made using optical Toslink cable (Fig. 1). Notice that an audio source must be set to output audio in PCM format.

BOOST-202 can be connected to the computer using USB cable. USB Type A - USB Type B cable* is needed to make the installation. The computer can be set up as an audio source and recorder.

The microphones can be connected to the front panel using balanced or unbalanced 1/4" microphone plug cable (Fig. 2) or to the back panel using balanced XLR cable (Fig. 3).

See for a detailed connection examples on the page 7-11.

Basic Connection Example



*CABLES SOLD SEPARATELY

NOTE! Only two microphones can be connected simultaneously!

Fig. 1

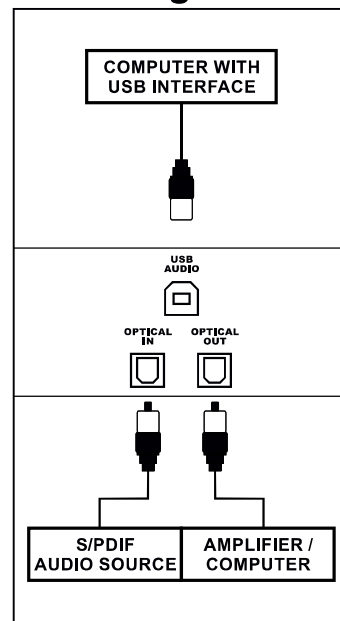


Fig. 3

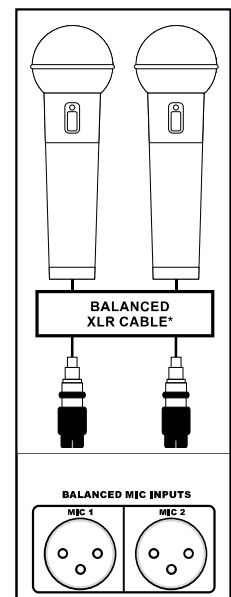
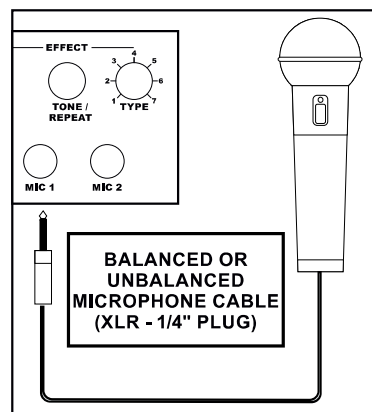


Fig. 2

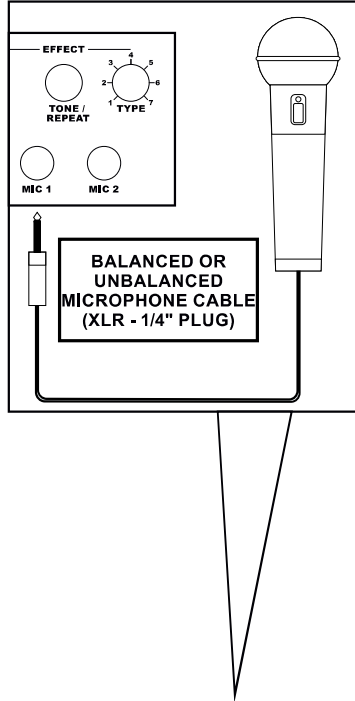


Getting Connected: Connection Examples

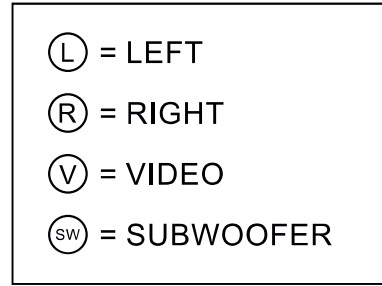
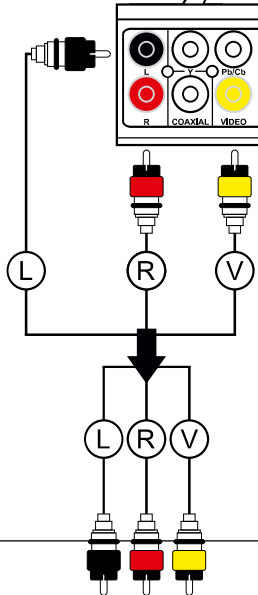
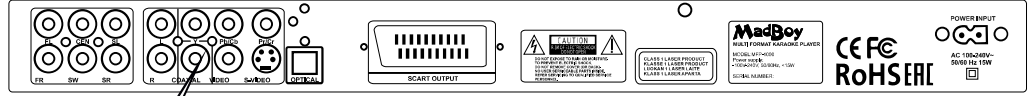
Connection examples using BOOST-202 features.

1. Connecting MFP-1000 karaoke player.

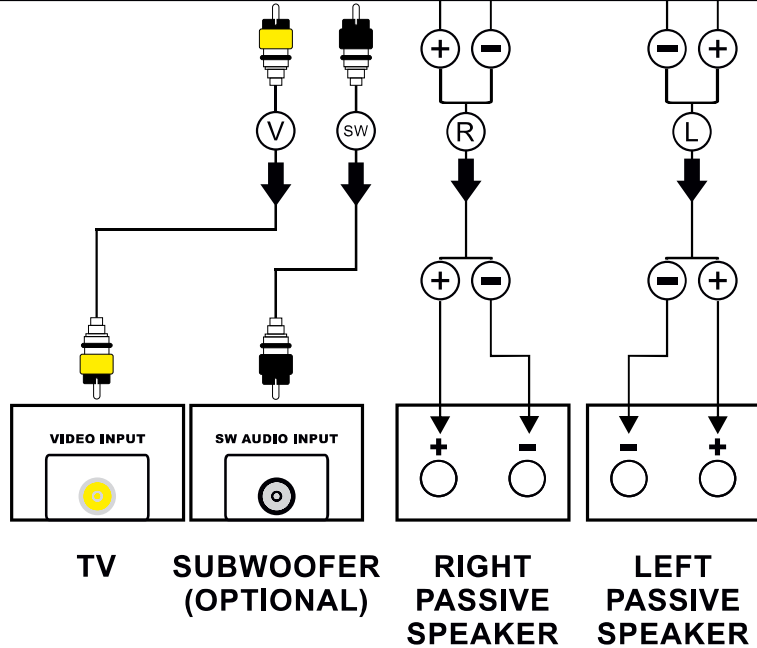
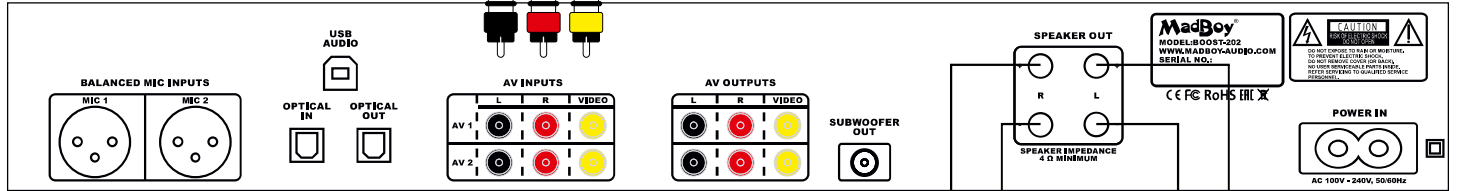
BOOST-202 FRONT PANEL



MFP-1000 BACK PANEL



BOOST-202 BACK PANEL

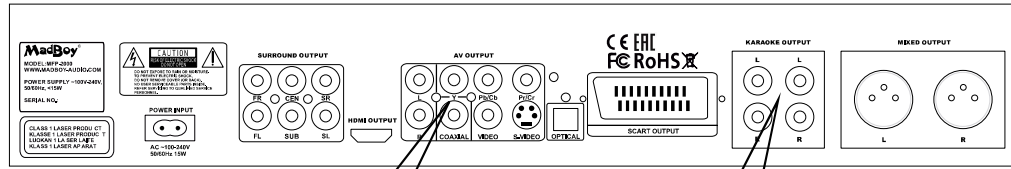


Getting Connected: Connection Examples

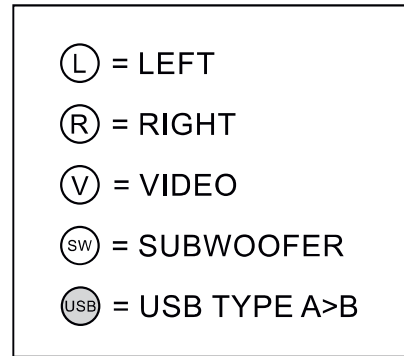
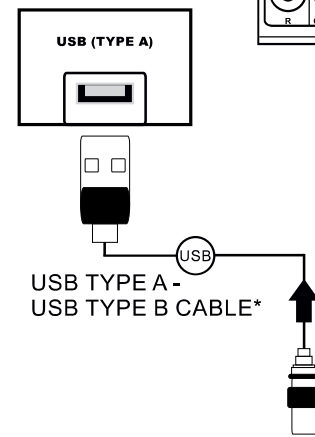
Connection examples using BOOST-202 features.

2. Connecting the MFP-2000 karaoke player as an audio source and the computer for recording.

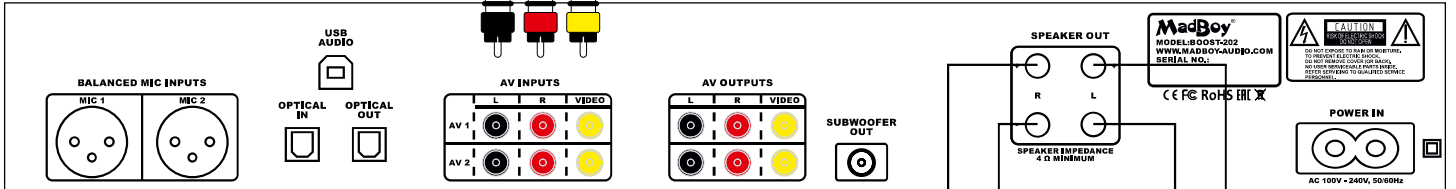
MFP-2000 BACK PANEL



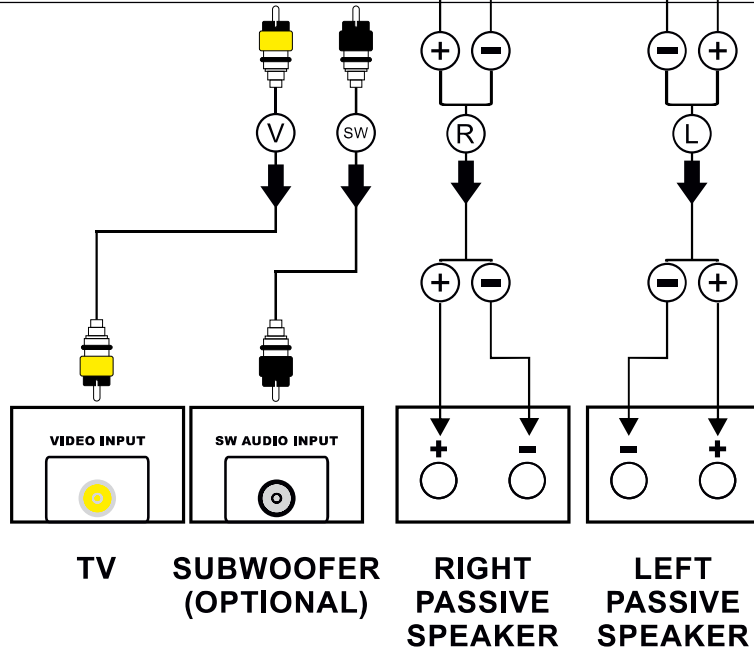
COMPUTER WITH USB INTERFACE



BOOST-202 BACK PANEL



*CABLES SOLD SEPARATELY

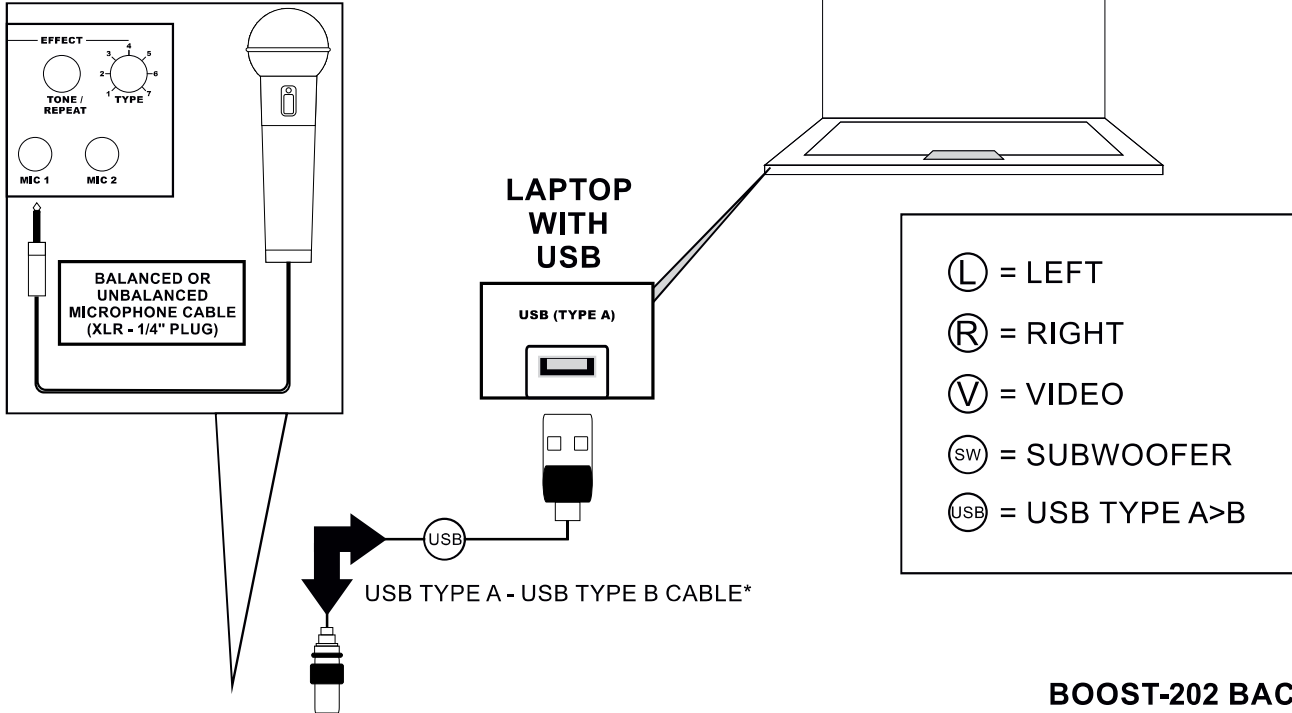


Getting Connected: Connection Examples

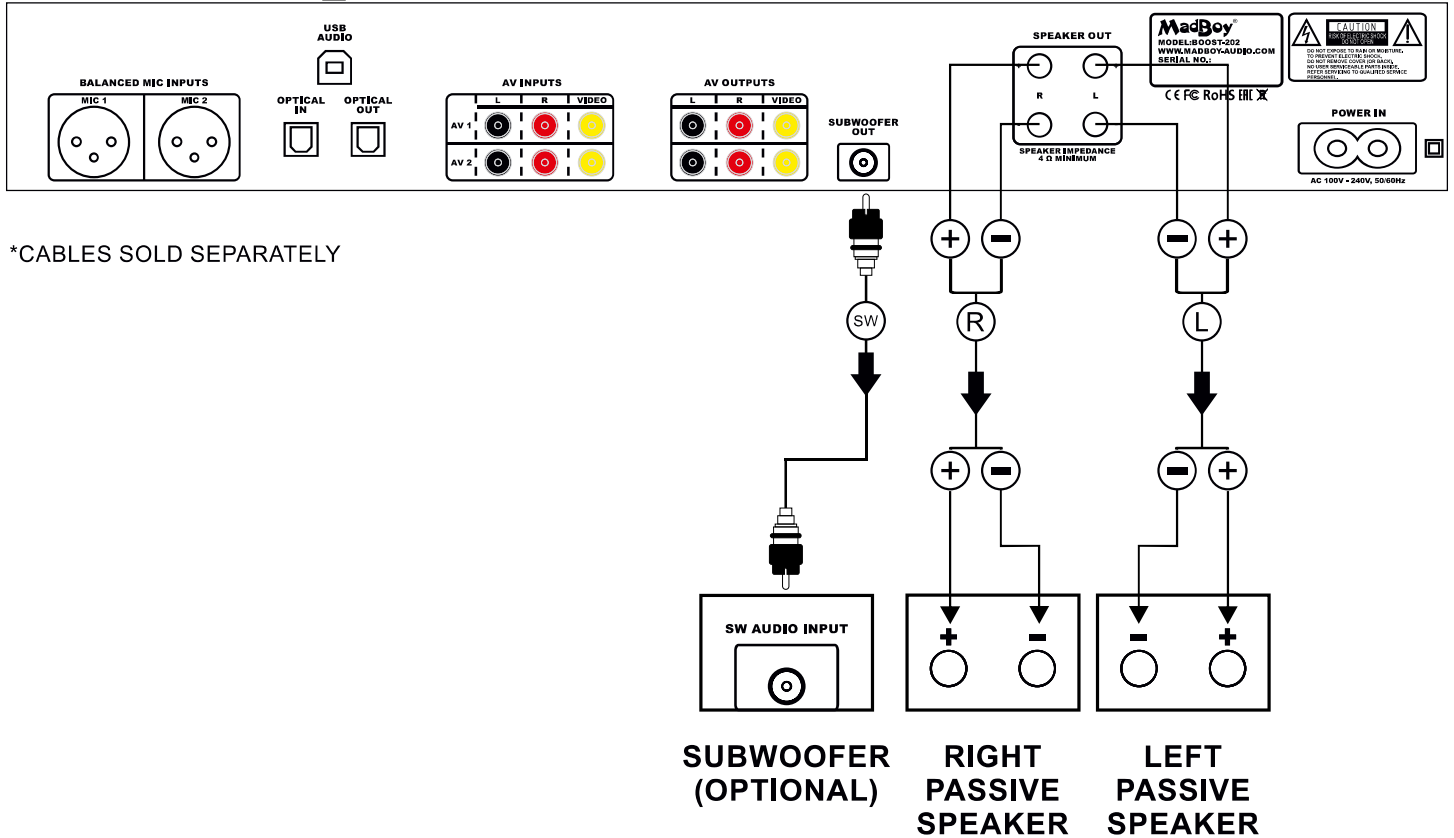
Connection examples using BOOST-202 features.

3. Connecting a computer as an audio source and for recording using USB audio interface.

BOOST-202 FRONT PANEL



BOOST-202 BACK PANEL

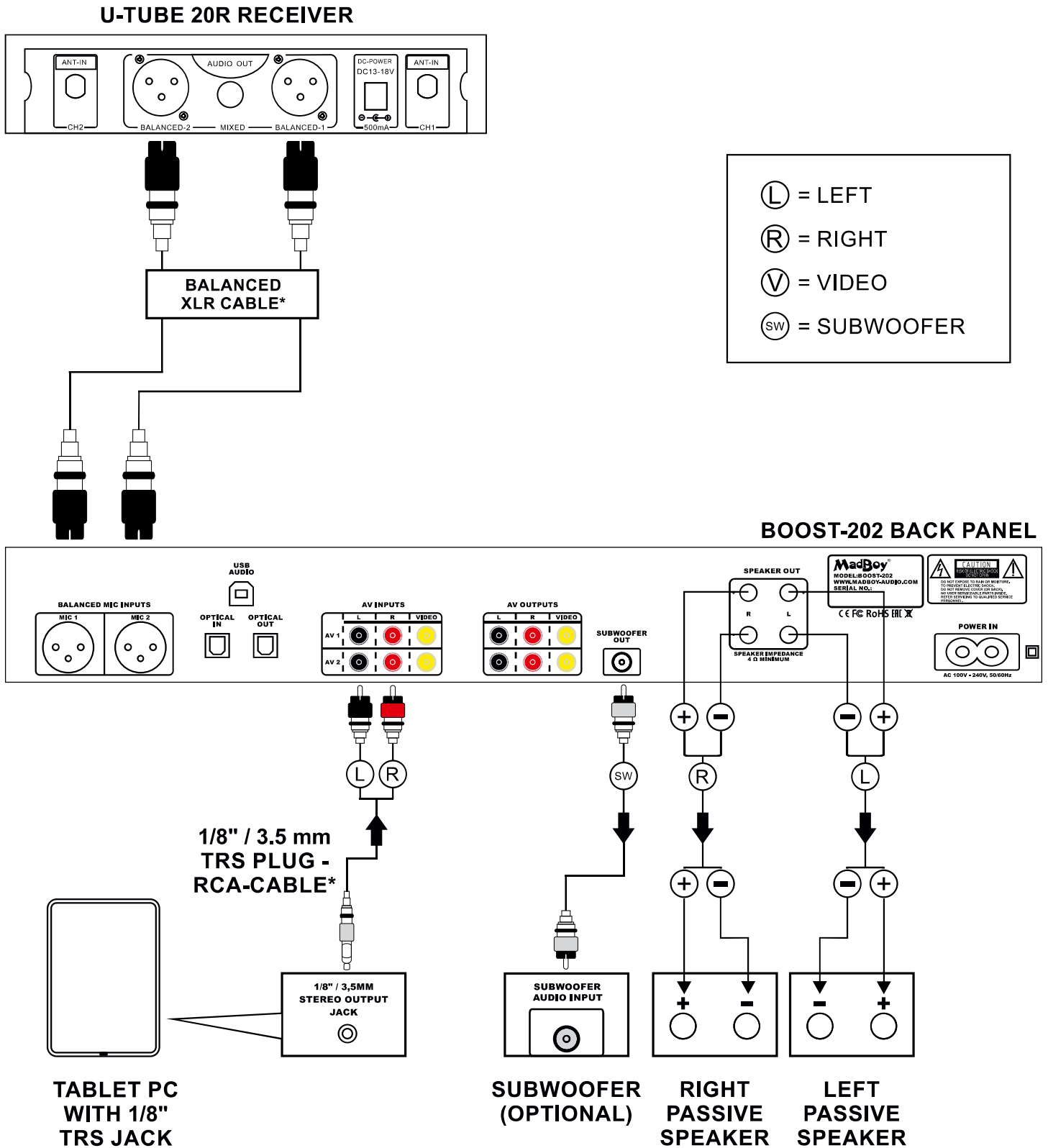


*CABLES SOLD SEPARATELY

Getting Connected: Connection Examples

Connection examples using BOOST-202 features.

4. Connecting a tablet PC as an audio source and the U-TUBE 20R wireless microphone set.



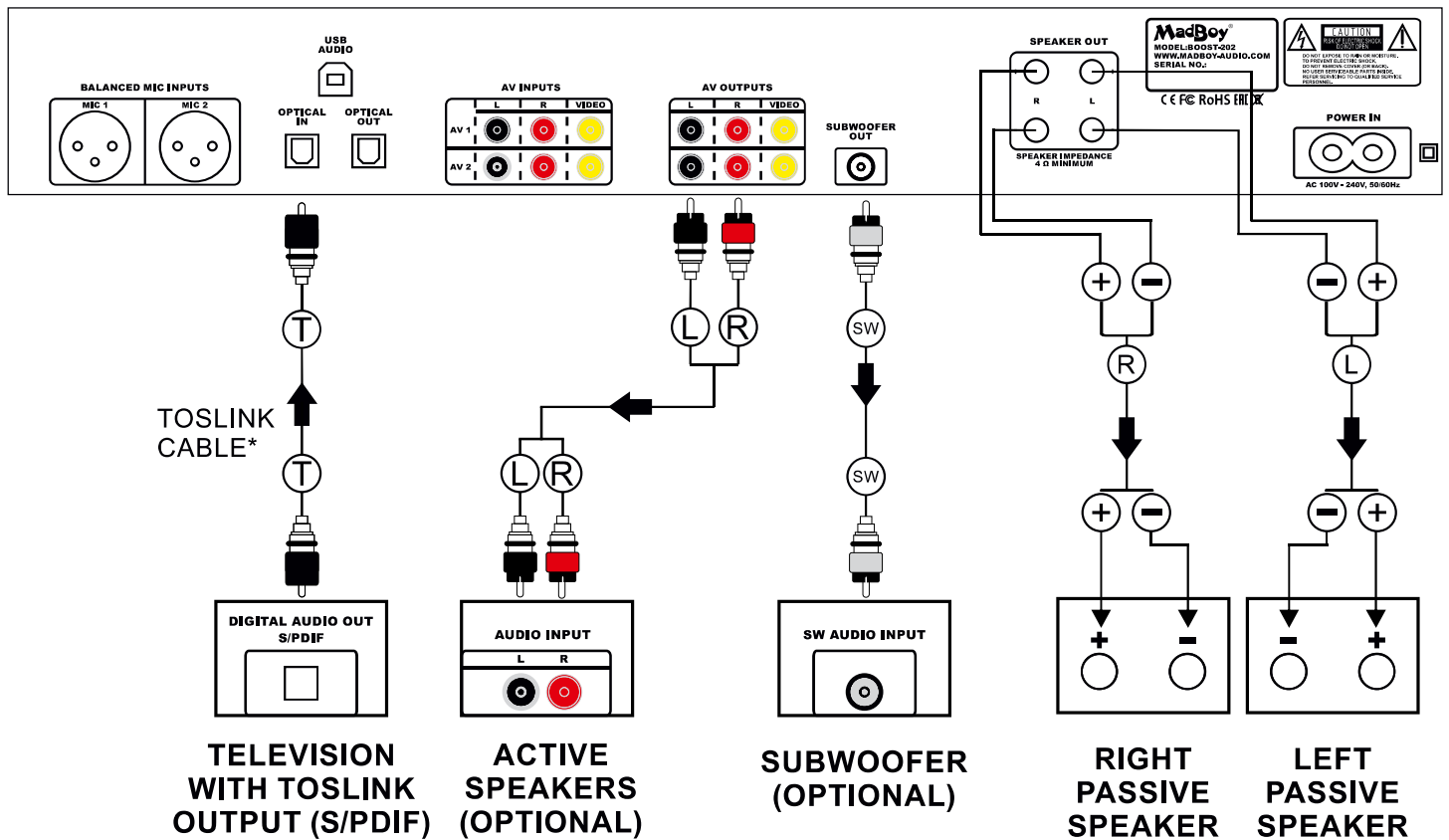
*CABLES SOLD SEPARATELY

Getting Connected: Connection Examples

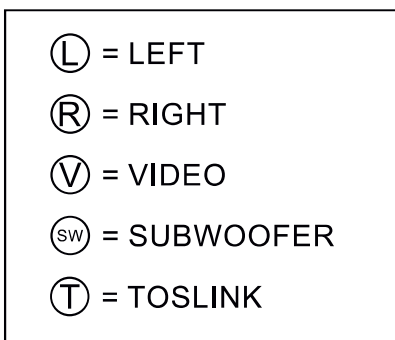
Connection examples using BOOST-202 features.

5. Connecting a television as an audio source.

BOOST-202 BACK PANEL



Notice! Television must be set to output audio in PCM format.



*CABLES SOLD SEPARATELY

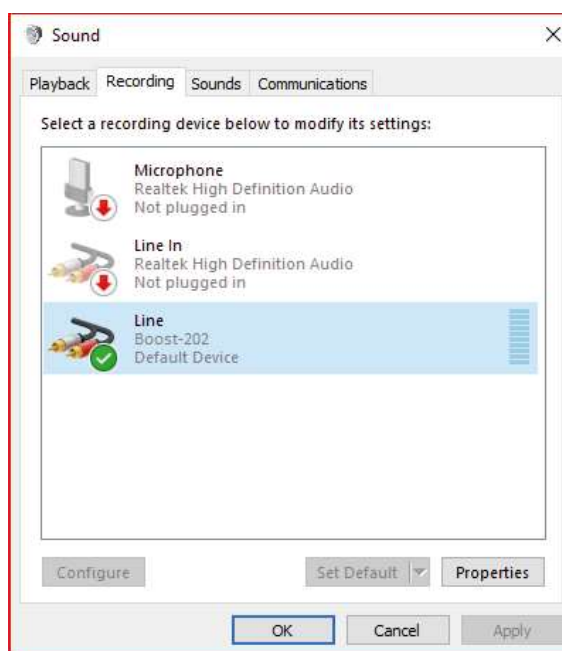
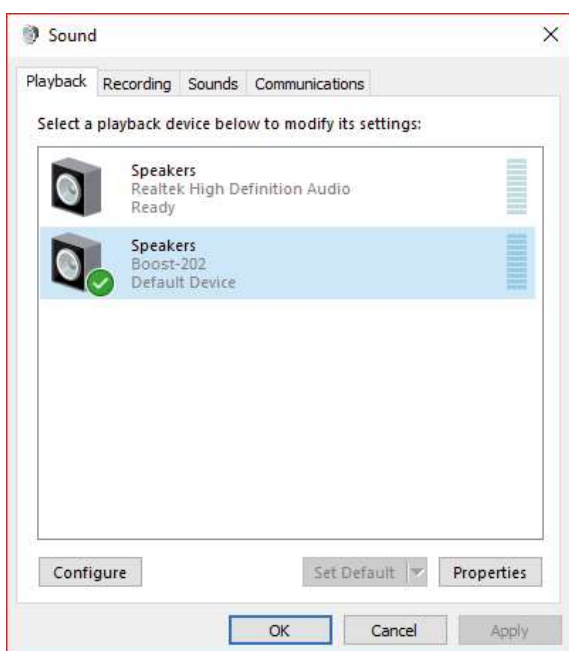
Setting up a computer as an audio source and a recorder when using USB audio interface

Connecting the BOOST-202 to the computer with Windows operating system:

Connect the BOOST-202 to the computer with USB cable. Drivers are installed automatically when the device is connected first time with the computer. Wait until the setup is completed.

You can set the BOOST-202 as the default playback device from the Windows Sound Setting's playback options.

Set the BOOST-202 as the default recording device from the Recording options.



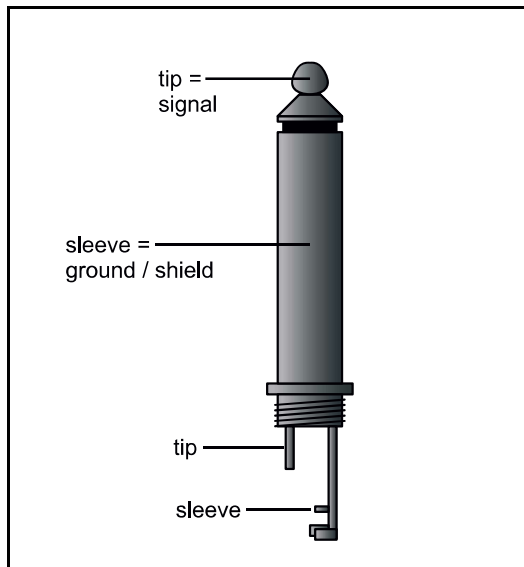
Connecting the BOOST-202 to the computer with macOS operating system:

Connect the BOOST-202 to the computer with USB cable. Drivers are automatically installed when connecting first time with macOS equipped computer. Wait until the setup is complete.

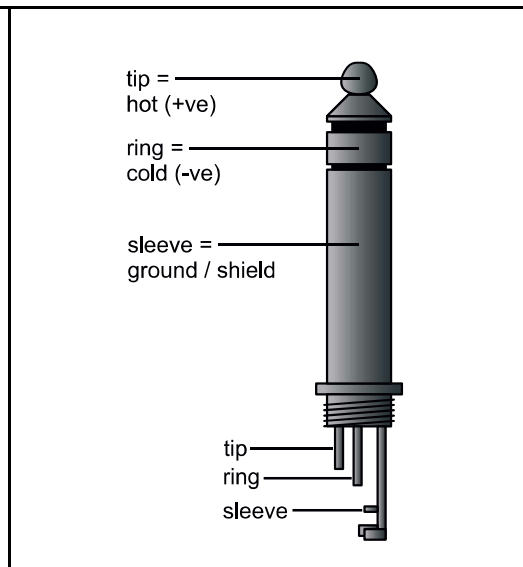
You can set the BOOST-202 as the default playback and recording device from macOS audio setup → System Settings → Sound → Audio out/Audio in → BOOST-202.

Microphone connectors

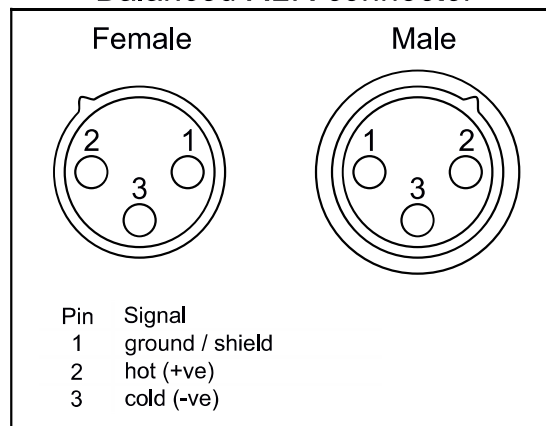
Unbalanced 1/4" TS connector



Balanced 1/4" TRS connector



Balanced XLR connector



Technical Specifications

The List of effects:

1. SMALL ROOM
2. LARGE ROOM
3. SMALL HALL
4. LARGE HALL
5. PLATE
6. ECHO
7. ECHO + REVERB

Technical specifications:

Line inputs:

Maximum input level: 0 dBV

Music controls:

VOL: $-\infty - +12$ dB
BASS: ± 12 dB / 80 Hz
MID: ± 12 dB / 2.5 kHz
TREBLE: ± 12 dB / 12 kHz

Microphone controls:

VOL: $-\infty - +18$ dB
BASS: ± 12 dB / 80 Hz
MID: ± 12 dB / 2.5 kHz
TREBLE: ± 12 dB / 12 kHz

Amplifier power output: 2 X 115 W (4 Ω) or 2 x 65 W (8 Ω)

Power:

Power input: 110 V / 60 Hz, 230V / 50 Hz
Power consumption: 250 W

Dimensions: (W) 430 mm x (D) 300 mm x (H) 65 mm