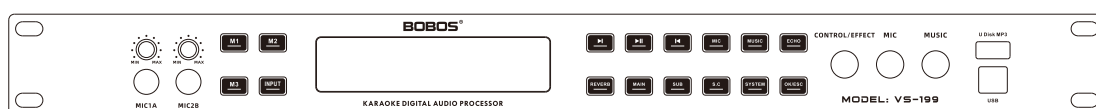


Instruction Manual

BOBOS[®]

VS-199



DIGITAL KARAOKE PROCESSOR

AUDIO CORPORATION

Look Out

Thank you for your purchase of our products!

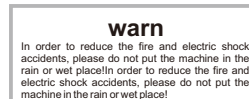
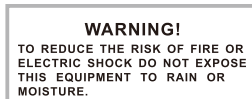
Before using this machine, please read through this instruction manual, so that you can master how to use this equipment correctly, when you read this instruction manual, please keep it properly for future reference.

In some countries and regions, the shape of the power plug and socket may be different from the shape of this system, but the connection and operation method of this device is the same.

Please note: this machine is electrical products, non-professional maintenance and technical personnel, do not open the machine without permission, so as to avoid the danger of electric shock (electric shock)!

In order to make the machine work properly, do not plug the heat dissipation holes at the front and back of the machine.

In case of failure, please contact your dealer or manufacturer.



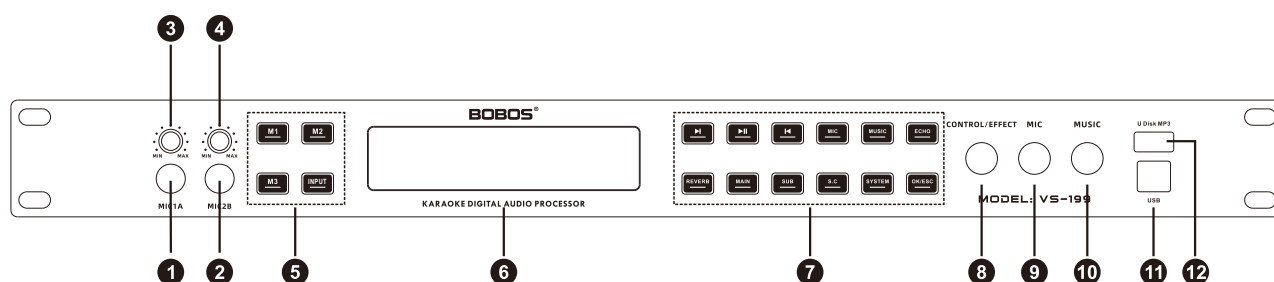
Function introduction

- This series of products is a karaoke effect with the speaker processor function of each part of the function are independently adjustable.
- It adopts 24Bit data bus and 32Bit DSP.
- Analog audio input, optical fiber, U disk, USB, Bluetooth input options.
- The MUSIC input channel has a 7-segment parametric equalization.
- The tone-changing function of music can satisfy the requirements of different singers at any time.
- MICA and MICB dual microphone input independent 15-segment parametric equalization.
- The main output is equalized with 5 parameters.
- The mid-output, the post-output and the super-bass are all equipped with 3 parameters.
- The microphone has 3 levels of feedback suppression and an OFF/ON option.
- 16 modes can be stored.
- The microphone output, main output, middle output, subwoofer output and rear output are all equipped with pressure limit and delay function.
- Built-in manager mode and user mode: user mode can not be stored after adjusting parameters.
- This machine has a full-function menu, can also be set through the PC interface (USB drive-free).

Table of contents

Note, description, table of contents.....	2
Front panel function description.....	3
Menu function description.....	4~7
Supplementary Instructions for front panel operation.....	7~9
Back board function description.....	9
Remote control function description, function connection description, accessories.....	10
System connection diagram.....	11
Performance indicators.....	12

Performance Indicators



1.MIC1A microphone input port 1A.

2.MIC2B microphone input port 2B.

3.Microphone 1a volume adjustment, left-handed volume reduction, right-handed volume increase.

4.Microphone 2B volume adjustment, left-handed volume reduction, right-handed volume increase.

5.Mode Switch Key M1-M3.

INPUT:Audio source input switch key.

6.Display screen.

7.Function Keys.

▶ Next;

▶ Play/pause;

◀ The previous one;

MIC: Microphone parameter setting;

MUSIC: Music parameter setting;

ECHO: Echo parameter setting;

REVERB: Reverb parameter setting.

MAIN: Main channel parameter setting;

SUB: Ultra-low sound parameter setting;

S.C: Post-set and mid-set parameters;

SYSTEM: System parameter setting;

OK/ESC:Confirm/Return.

8.CONTROL/EFFECT: Function/effect volume control knob.

9.MIC: Microphone volume control knob, left-handed volume reduction, right-handed volume increase.

10.MUSIC: Music Volume Control Knob, left-handed volume reduction, right-handed volume increase.

11.U DISK MP3: Card reader, U disk reading window, USB audio input port, U disk recording window.

12.USB: PC software interface.

Description of Effector Menu Functions

1. ► USB drive, Bluetooth, USB audio input, press this button to switch to the next track;
2. ►|| USB drive, Bluetooth, USB audio input, press this button to play/pause;
3. ◄ USB drive, Bluetooth, USB audio input, press this button to switch to the previous track;
4. RECALL(Call)

RECALL MODE: 1-16(Call mode)

5. Main

(1) WORK MODE SELECT

Manual: Sing/Disco/AUTO:-----

(2) Main (main channel mixer) MU: \pm (phase) 0-200 (music volume) MI: \pm (phase) 0-200 (microphone volume)

Echo: \pm (phase) 0-200 (echo effect volume) Rev: \pm (phase) 0-200 (reverb effect volume)

(3) Main/PASS: (5 Band EQ) PEQ/LSEQ/HSEQ: 19.7Hz~20.6KHz (main channel equalization)

Gain: -24db~+12db Q: 0.4~128/0.4~2.0/0.4~2.0

(4) Main AT: 0.5~90ms (start time) RT: \times (2/4/6/8/12/16/24/32) (release time)

LU: -20~14dB (startup level) Ratio: 1.0~100 (compression ratio)

(5) Main Delay L: 0-50.0ms (left channel delay time) Delay R: 0-50.0ms (right channel delay time)

(6) Main Mute L: Yes/No Mute R: Yes/No

6 S. C (rear center)

(1) WORK MODE SELECT

Manual: Sing/Disco/AUTO:-----

(2) CEN (center mixer) MU: \pm (phase) 0-200 (music volume) MI: \pm (phase) 0-200 (microphone volume)

Echo: \pm (phase) 0-200 (echo effect volume) Rev: \pm (phase) 0-200 (reverb effect volume)

(3) CEN Filter

HPF: 0-303Hz (12dB/24dB)

(4) <CEN>/PASS: (3 Band EQ) PEQ/LSEQ/HSEQ: 19.7Hz~20.6KHz (center equalization)

Gain: -24db~+12db Q: 0.4~128/0.4~2.0/0.4~2.0

(5) CEN (middle pressure limit) AT: 0.5~90ms (start time) RT: \times (2/4/6/8/12/16/24/32) (release time)

LU: -20~14dB (startup level) Ratio: 1.0~100 (compression ratio)

(6) CEN (Center Delay Mute) Delay L: 0-50.0ms (Center Output Delay)

Mute: Yes/No

(7) SUR (rear mixer) MU: \pm (phase) 0-200 (music volume) MI: \pm (phase) 0-200 (microphone volume)

Echo: \pm (phase) 0-200 (echo effect volume) Rev: \pm (phase) 0-200 (reverb effect volume)

(8) SUR Filter (Post Qualcomm)

HPF: 0-303Hz

(9) SUR/PASS: (3 Band EQ) PEQ/LSEQ/HSEQ: 19.7Hz~20.6KHz (post equalization)

Gain: -24db~+12db Q: 0.4~128/0.4~2.0/0.4~2.0

(10) SUR (post pressure limit) AT: 0.5~90ms (start time) RT: \times (2/4/6/8/12/16/24/32) (release time)

LU: -20~14dB (startup level) Ratio: 1.0~100 (compression ratio)

(11) SUR (Rear Delay) Delay L: 0-50.0ms (Rear Left Channel Delay Time)

Delay R: 0-50.0ms (rear right channel delay time)

(12) SUR (Rear Mute) Mute L: Yes/No (Rear Left Channel Mute)

Mute R: Yes/No

Description of Effector Menu Functions

7. Sub

(1) WORK MODE SELECT

Manual: Sing/Disco/AUTO:-----

(2) SUB Mixer

Music: \pm (phase) 0-400 (music volume) Mlc: \pm (phase) 0-400 (microphone volume)

(3) SUB HPF: Bessel 24dB/Butter 24dB/Link-R 24dB/User 12dB/User 24dB

(Subwoofer High Pass Filter)

FREQ: 0-303Hz Q: 0.4-1.5 (adjustable only when HPF selects User)

(4) SUB LPF: Bessel 24dB/Butter 24dB/Link-R 24dB/User 12dB/User 24dB

(Subwoofer low-pass filter)

FREQ: 0-303Hz Q: 0.4-1.5 (adjustable only when LPF selects User)

(5) <SUB>/PASS: (3 Band EQ) PEQ/LSEQ/HSEQ: 19.7Hz~20.6KHz (subwoofer equalization)

Gain: -24db~+12db Q: 0.4~128/0.4~2.0/0.4~2.0

(6) SUB AT: 0.5~90ms (start time) RT: \times (2/4/6/8/12/16/24/32) (release time)

LU: -20~14dB (startup level) Ratio: 1.0~100 (compression ratio)

(7) SUB Delay L: 0-50.0ms (subwoofer delay)

Mute L: Yes/No

8. System

(1) Save to Mode: 1-16

Factory Preset (mode name)

(2) Save to Mode: 1 No/Yes:? (Do you want to save the mode?)

(3) Music Input Port (music input port selection)

Input: AUTO/IN1/IN2/BT Bluetooth/UDisk USB drive (VOL: 1-30)/

SPDIF fiber optic/USBAUDIO USB sound card.

(4) Auto Keyset Lock

Mode: ON/OFF

(5) System Control

Password: ----- (Enter system password) (Note: Initial password: 123456; can be changed)

(6) System Password

Old/New: ----- (Old/New password) (Note: Initial password: 123456; can be changed)

(7) Keyset Password

Old/New: ----- (Old/New password) (Note: Initial password: 123456; can be changed)

(8) Music Start Volume

Volume: 0~84

(9) Music Limiter Volume

Volume: 0~84

(10) Mic Start Volume

Volume: 0~84

(11) Mic Limiter Volume

Volume: 0~84

(12) EFF Start Volume

Volume: 0-70

(13) EFF Limiter Volume

Volume: 0-70

Description of Effector Menu Functions

9. Mic (microphone)

(1) MICA VOLUME: 0-100; Microphone A volume.

(2) MICA FEEDBACK (microphone A feedback suppression with four modes available)

MODE: OFF/1/2/3.

(3) Mic A Filter

HPF FREQ: 0-303Hz

(4) MIC A/PASS: (15 Band EQ) PEQ/LSEQ/HSEQ: 19.7Hz~20.6KHz (microphone equalization)

Gain: -24db~+12db Q: 0.4~128/0.4~2.0/0.4~2.0

(5) Mic AAT: 0.5~90ms (start time) RT: × (2/4/6/8/12/16/24/32) (release time)

LU: -34~0dB (startup level) Ratio: 1.0~100 (compression ratio)

(6) MICA FS

Type: software/hardware

(7) NoiseA Gate: -100dB~0dB (noise threshold)

AT: 0.5ms~90ms (start time) RT: × (2/4/6/8/12/16/24/32) (release time)

(8) MICB VOLUME: 0-100; Microphone B volume.

(9) MICB FEEDBACK (microphone B feedback suppression with four modes available)

MODE: OFF/1/2/3.

(10) Mic B Filter

HPF FREQ: 0-303Hz

(11) MIC B/PASS: (15 Band EQ) PEQ/LSEQ/HSEQ: 19.7Hz~20.6KHz (microphone equalization)

Gain: -24db~+12db Q: 0.4~128/0.4~2.0/0.4~2.0

Gain: -24db~+12db Q: 0.4~128/0.4~2.0/0.4~2.0

(12) Mic BAT: 0.5~90ms (start time) RT: × (2/4/6/8/12/16/24/32) (release time)

LU: -34~0dB (startup level) Ratio: 1.0~100 (compression ratio)

(13) MICB FS

Type: software/hardware

(14) NoiseA Gate: -100dB~0dB (noise threshold)

AT: 0.5ms~90ms (start time) RT: × (2/4/6/8/12/16/24/32) (release time)

10. MUSIC (Music)

(1) Music To Main Ch

HPF: 0-303Hz/(12dB/24dB)

(2) Music/PASS: (7 Band EQ) PEQ/LSEQ/HSEQ: 19.7Hz~20.6KHz (music balance)

Gain: -24dB~+12dB Q: 0.4~128/0.4~2.0/0.4~2.0

(3) Music Pitch: (-5/-4/-3/-2/-1/0/+1/+2/+3/+4/+5)

(4) Music Control: Music Control

->Start Record USB drive, Bluetooth, USB audio input playback/pause

->Pre Song USB drive, Bluetooth, USB audio source input previous song

->Next Song USB drive, Bluetooth, USB audio input

Description of Effector Menu Functions

11. Echo

- (1) Echo EFF (Echo Effect Mixer) Level: \pm (Phase) 0-100 (Echo Effect Volume)
Direct Level: \pm (phase) 0-100 (echo direct sound volume)
- (2) Echo Pre_ Delay: 0-250ms (echo pre delay)
HPF: 0~+1000Hz (Echo High Pass) LPF: 5.99KHz~20.6KHz (Echo Low Pass)
- (3) Echo Delay: 0-500ms
Repeat: 0-90%
- (4) Echo Delay R: -50%~+50% (echo right channel delay)
Pre_ Delay R: 0-50% (echo right channel pre delay)
- (5) Echo/PASS: (3 Band EQ) PEQ/LSEQ/HSEQ: 19.7Hz~20.6KHz (Echo Equalization)
Gain: -24db~+12db Q: 0.4~128/0.4~2.0/0.4~2.0

12. Reverb

- (1) Reverb (Reverb Effect Mixer) Level: \pm (Phase) 0-100 (Reverb Effect Volume)
Direct Level: \pm (phase) 0-100 (reverb direct sound volume)
- (2) Reverb Time: 0-5000ms
Pre_ Delay: 0-200ms (reverberation pre delay)
- (3) Reverb HPF: 0-1000Hz
LPF: 5.99KHz~20.6KHz (reverberation low-pass)

Supplementary instructions for front panel operation

1. Turn on the machine and enter the main menu. The main menu parameters are adjusted by rotating the three knobs on the panel ("MIC", "EFFECT", "MUSIC") for setting; the automatic keyboard lock is set in the "Auto Keyset Lock" section of the "SYSTEM" section, and the keyboard lock password needs to be entered to take effect.
2. Press the corresponding function buttons to enter the settings of each function item.
3. Press the same function key again to enter the lower menu settings of that function key and cycle through them in sequence.
4. Press the "Control/EFFECT Function Knob" cursor to flash up on the display screen, enter the display screen up setting, and then rotate the "Control/EFFECT Function Knob" to set the parameters. If there are multiple parameter settings in the uplink, press the "Control/EFFECT function knob" again to enter the next parameter setting and cycle in sequence.
5. Press the "Control/EFFECT Function Knob" cursor to flash down the display screen, enter the display screen down setting, and then rotate the "Control/EFFECT Function Knob" to set the parameters. There are multiple parameter settings in the following line, then press the "Control/EFFECT function knob" to enter the next parameter setting, and cycle through them in sequence.
6. Long press and hold the 'Control/EFFECT function knob' to return to the main menu interface.
7. When setting the password, ►►ok◄◄, RECALL, MAN, S.C, SUB, SYSTEM, MIC, MUSIC (Represented by: 0/1/2/3/4/5/6/7/8/9)

Supplementary instructions for front panel operation

8. There are two usage modes for this machine: user mode and manager mode. User mode can temporarily change data, but it cannot be saved. Manager mode data can be changed and saved. The factory mode of this machine is user mode. Operating instructions: Press the "System" button multiple times to enter the system mode setting interface.

System Control
Password:-----

Press the "Control/EFFECT" function knob, the cursor flashes in the down direction, press the function button to enter the password, and enter the correct password to enter the following interface.

System Control
YES?Mode:Admin

The cursor flashes downward, and the function knob is rotated to select the mode ("Admin" is the manager mode and "User" is the user mode). After selecting the mode, press the "Control/EFFECT function knob" to confirm the selected mode, and it will return to the main interface.

The cursor flashes downward, and the function knob is rotated to select the mode ("Admin" is the manager mode and "User" is the user mode). After selecting the mode, press the "Control/EFFECT function knob" to confirm the selected mode, and it will return to the main interface.

System Password
New:-

Press the "Control/EFFECT function knob", the cursor flashes in the down direction, enter a new password, and enter the following interface

System Password	NO
New:111111	YES

Long press the "Control/EFFECT" function knob to select "NO" without saving the new password; Press the 'Control/EFFECT function knob' once to select 'YES' and save the new password. Afterwards, it will return to the main interface

10. The steps for setting the keyboard password are the same as setting the system password. The keyboard password is factory set to 1111

11. Storage: In manager mode, after adjusting all parameters, press the system key to skip to "Save to mode" to save the data. This machine can save 16 settings. After saving the new settings, the original settings for the same number mode will be overwritten.

Press the "System" button to enter the system mode setting interface

Save to Mode: 1FactoryPreset

Press the "Control/EFFECT function knob", the cursor flashes in the up direction, and rotate the function knob to select the serial number of the mode to be stored. Press the "System" button again to enter the following interface,

Save to Mode:1 No?
YES?

Long press and hold the 'Control/EFFECT function knob' to select 'NO' and not store the current parameters to the mode selected earlier; Press the "Control/EFFECT" function knob once to select "YES" and store the current mode to the mode you just selected. After confirming the storage, it will return to the main interface.

Supplementary instructions for front panel operation

12. Call:

Press the 'Recall' button to enter the system call interface

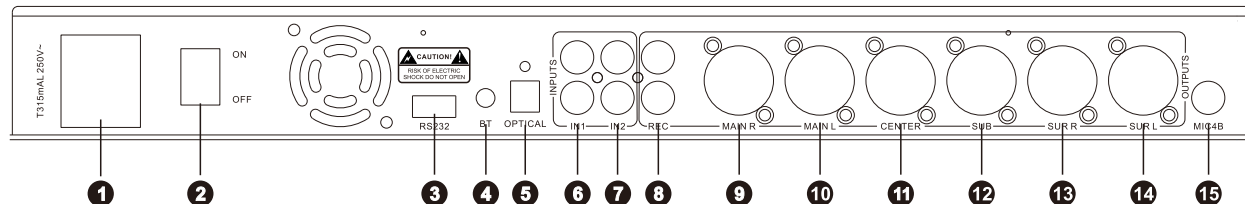
Recall Mode:
Factory Preset

Press the "Control/EFFECT function knob", the cursor will flash in the up direction, and rotate the function knob to select the setting number to be called. Press the 'Recall' button again to enter the following interface

Recall Mode:1 No?
 YES?

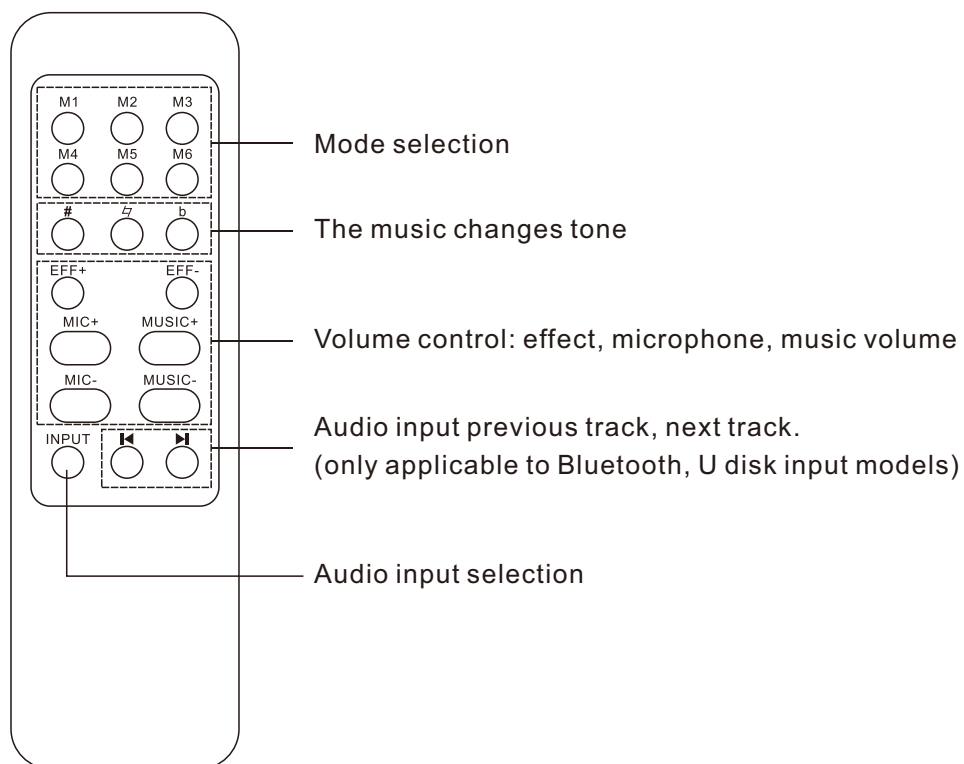
Long press the "Control/EFFECT function knob" to select "NO" and recall the previously selected setting; Press the "Control/EFFECT" function knob once to select "YES" and store the current mode to the mode you just selected. After confirming the storage, it will return to the main interface.

Rear panel function description



1. Power cord interface, connected to mains (~210V-230V/50Hz)
2. Power switch
3. RS232 serial communication interface
4. Bluetooth antenna
5. Optical fiber audio input interface
6. Audio input interface 1IN1
7. Audio input port 2IN2
8. Recording output interface REC OUT
9. Main right channel output interface MR
10. Main left channel output interface ML
11. Center output interface
12. Subwoofer output interface
13. Right rear output interface SR
14. Left rear output interface SL
15. MIC4B microphone input 4B

Names and functions of various parts of the remote control



Function Connection Description

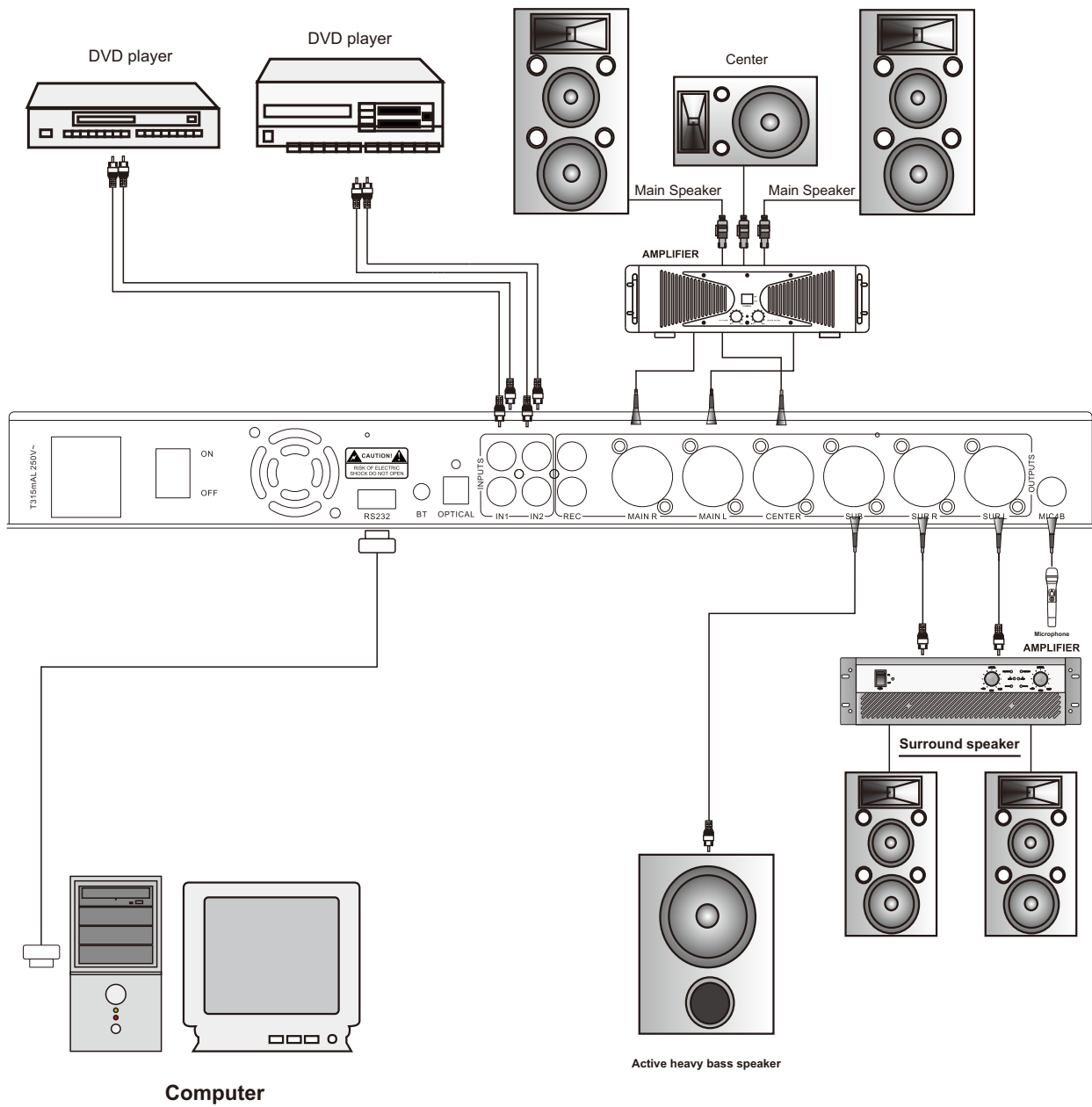
1. Connect all electrical equipment according to the diagram
2. When connecting the speaker, the positive pole should correspond to the positive pole, and the negative pole should correspond to the negative pole

Annex

When unpacking and retrieving the machine, please check if the following accessories are complete:

1. One user manual;
2. One warranty card;
3. One certificate of conformity;
4. One remote control.

System Connection Diagram



Performance Index

Maximum input level	4V (RMS)
Maximum output level	4V (RMS)
Music channel gain	MAX: 12dB
microphone sensitivity	64mV (Out: 4V)
Signal-to-noise ratio	>80dB
input voltage	~220V 50Hz
Dimensions (length x width x height)	483×218.5×47.5mm
Net weight	3.5Kg

Performance specifications are subject to change without prior notice