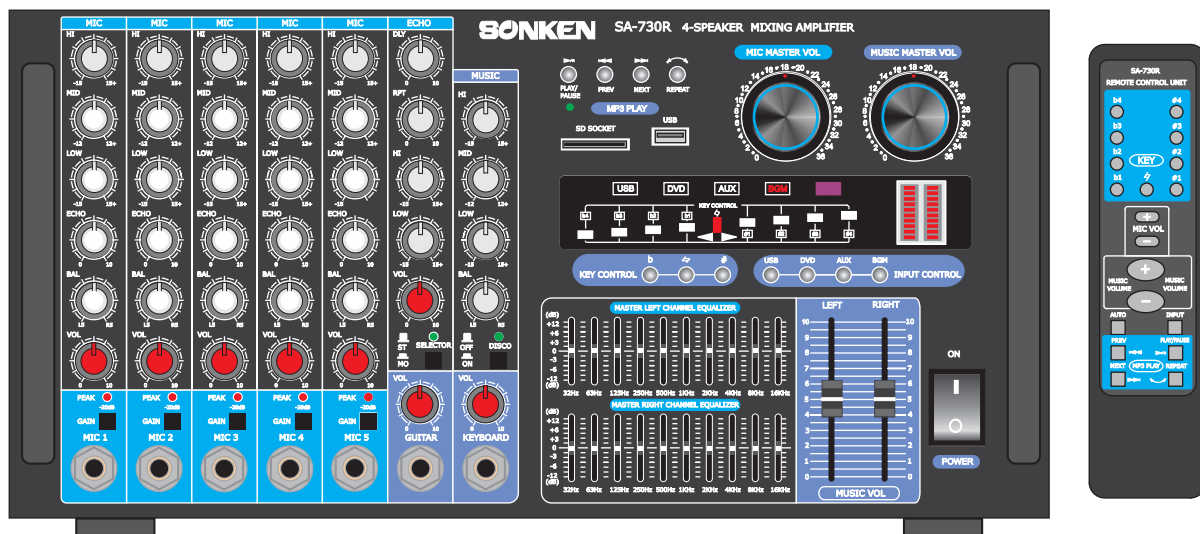




SONKEN

PROFESSIONAL MIXING AMPLIFIER

Operation Manual



MODEL: SA-730R

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Cautions And Warnings



CAUTION
RISK OF ELECTRIC
SHOCK DO NOT OPEN



CAUTION: To reduce the risk of electric shock, do not remove cover (or back) or not user-serviceable parts inside. Only for the reference of qualified service personnel.



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 operation 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, having bath 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.

8. An appliance and cart combination should be moved with care. Quick stops, excessive force on uneven surfaces may cause an overturn.



9. 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.

10. Heat - The appliance should be situated away from heat sources such as radiator, heat registers, or other appliances (including amplifiers) that produce heat.

11. Power Sources - Precautions should be taken so that the grounding or polarization marked on the appliance.

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

13. 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. Pay particular attention to cords at plugs. Convenience receptacles, and the point where they exit from the appliance.

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

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

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

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

18. 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.

19. 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.

Safety Instructions

CAUTION :READ THIS BEFORE OPERATING YOUR UNIT

- 1.To ensure the finest performance ,please read this manual carefully ,keep it in a safe place for future reference.**
- 2.Install your unit in a cool .dry ,clean place - away from windows ,heat sources ,and too much vibration .dust,moisture or cold Avoid sources of hum (transformers, motors),To prevent fire or electrical shock ,do not expose to rain or water.**
- 3.Do not operate the unit upside-down.**
- 4.Never open the cabinet .if a foreign object drops into the set ,contact your dealer.**
- 5.Place the unit in a location with adequate air circulation.Do not interfere with its proper ventilation ;this will cause the internal temperature to rise and may result in a failure.**
- 6.Do not use force on switches ,knobs or cords ,When moving the unit ,turn the unit off first ,Then gently disconnect the power plug and the cords connecting to other equipment.Never pull the cord itself.**
- 7.Do not attempt to clean the unit with chemical solvents this might damage the finish ,Use a clean ,dry cloth.**
- 8.Be sure to read the "Troubleshooting" section on common operating errors before concluding that your unit is faulty.**
- 9.This unit consumes a fair amount of power even when the power switch is turned off .We recommend that you unplug the power cord from the wall outlet if the unit is not going to be used for a long time .This will save electricity and help prevent fire hazards .To disconnect the cord .pull it out by grasping the plug .Never pull the cord itself.**
- 10.To prevent lightning damage ,pull out the power cord and remove the antenna cable during an electrical storm.**
- 11.The general signals may interfere with other equipment such as tuners or receivers .Move the system farther away from such equipment if interference is observed.**

CAUTION:

The apparatus is not disconnected from the AC power source so long as it is connected to the wall outlet ,even if the apparatus itself is turned off. To fully insure that the apparatus is indeed fully void of residual power, leave unit disconnected the AC outlet for at least fifteen seconds.

NOTE:

Please check the copyright laws in your country before recording from records ,compact discs ,radio etc.
Recording copyrighted material may infringe copyright laws.

Specifications

Amplifier Section

Power Consumption	680W
Audio Output	450W+450W
Input Impedance	47KΩ
Input Sensitivity	200mV
Bass Control	+/-15dB(100Hz)
Mid Control	+/-15dB(1KHz)
Treble Control	+/-15dB(10KHz)
T.H.D	<0.1%
Frequency Response	20Hz-20KHz -1dB
Noise Ratio	>90dB
Power Source	240V/50Hz
Dimension	430(W)X215(H)X410(D)MM
Weight:	22KG

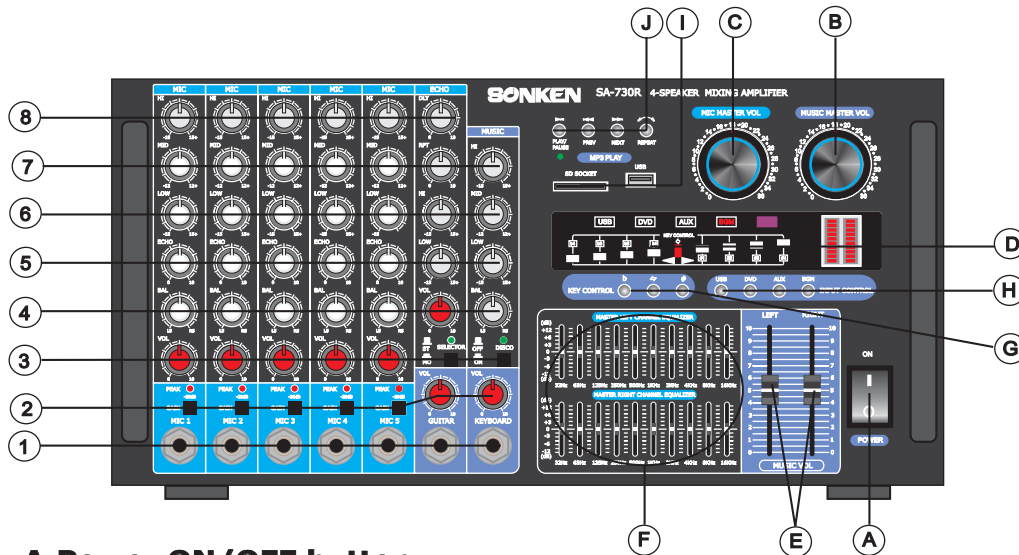
Microphone Section

Connector	1/4"TRS/Unbalanced
Input Impedance	1.5KΩ
Input Sensitivity	10mV
T.H.D	<0.5%
Frequency Response	20Hz-15KHz -3dB
Noise Ratio	>85dB
Bass Control	+/-15dB(100Hz)
Mid Control	+/-15dB(1KHz)
Treble Control	+/-15dB(10KHz)
Digital Echo	Up to 300ms

FEATURES

- Professional Digital Echo with separate repeat and delay controls**
- 3 Mic input with individual volume controls and echo on/of switches**
- Music bass/mid/treble controls**
- Mic individual Bass/mid/Treble controls**
- Source level output displays**
- Sub-woofer output, 2 sets of A/V/Video/Input/output Jacks**
- Remote control**
- Digital Sound Effect**
- vocal partner**
- Vocal cancellation (when you playing Karaoke DVD/VCD disc, the channel with singer's voice will be cancelled and replaced by the signal of another channel with music only. Therefore, you would n't hear the original singer's voice but your own voice via microphone and background music.)**

Front Panel Features



- A:Power ON/OFF button**
- B:Music Master Volume**
- C:Mic Master Volume**
- D:Function Display**
- E:VOL-Music Volume knob**
- F:Master Music Mic Equalizer Adjustment Knob**
- G:Digital Key Control**
- H:BGM AUX DVD USB Manual Input Selector**
- I:Usb/Sd Card (Mp3) Music Play Input**
- J:Usb/Sd Card (Mp3) Music Play Function Selector**

MICROPHONE

- 1:MIC1 Input And MIC5 Input Jack**
- 2:GAIN-20dB Attenuation Key**
- 3:MIC1 Vol And MIC2 Vol Controlling Knob**
- 4:BAL-Left And Right Track Balance Knob**
- 5:ECHO-Profundity Knob**
- 6:LO-Bass Adjustment Knob**
- 7:MID-Mediant Adjustment Knob**
- 8:HI-Treble Adjustment Knob**

ECHO

- 3:SELECTOR ST MO-Stereo And Mono Diversion**
- 4:VOL-Volume Knob: Revolve This Knob to Adjust Volume**
- 5:LO-Bass Control Knob: Revolve This Knob to Adjust Bass**
- 6:HI-Treble Control Knob: Revolve This Knob to Adjust Treble**
- 7:RPT-Repeating Knob: Revolve This Knob to Adjust Repeating Times**
- 8:DLY-Delay Echo Knob: Revolve This Knob to DelayEcho**

MUSIC

- 3:Bass Boost Staple key**
- 4:BAL-Left And Right Track Balance Knob**
- 5:LO-Bass Control Knob**
- 6:MID-Mediant Control Knob**
- 7:HI-Treble Control Knob**

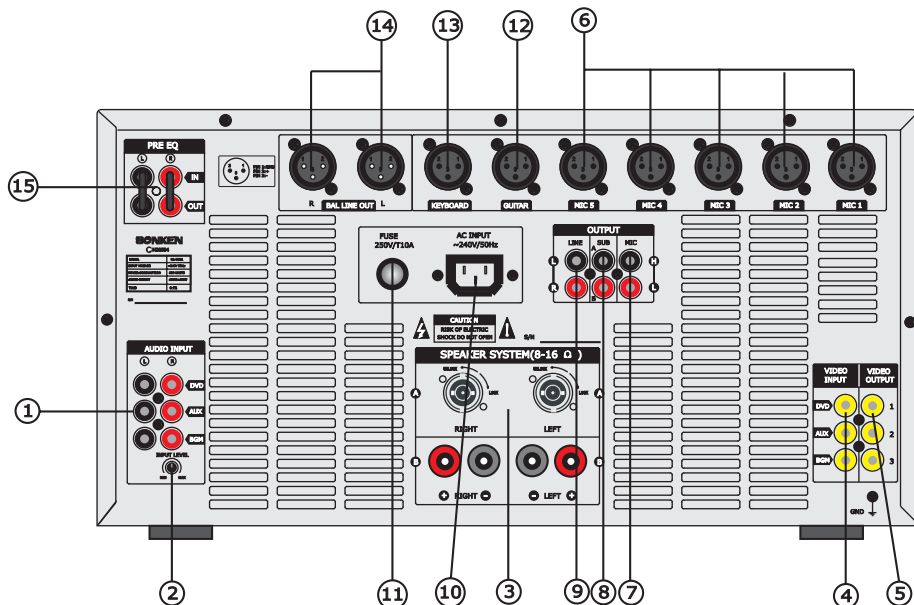
GUITAR

- 1:Guitar Input Jack**
- 2:Guitar Vol Controlling Knob**

KEYBOARD

- 1:Keyboard Input Jack**
- 2:Keyboard Vol Controlling Knob**

Rear Panel Features



1:AUDIO INPUT - Able to connect to BGM AUX DVD Audio Output Jack

2:INPUT LEVEL ADJUSTMENT for BGM AUX DVD

3:SPEAKER SYSTEM - The red port stands for "+" and the black port stands for "-".For the better sound effect, please connect the left/right speaker with left/right ports correctly.

4:VIDEO INPUT - Able to connect to BGM AUX DVD video Output Jack

5:VIDEO OUT - Able to connect to Television Video Input Jack

6:Rear Mic1 -Mic5 Input Jack

7:MIC OUT - Able to output microphone signal to jukebox directly through this port

8:SUBWOOFER OUT - Able to connect to active subwoofer in put jack

9:LINE OUT - Able to connect to right/left Audio Input of another device

10.AC 240V Input

11:FUSE - Please confirm the fuse rated capacity when change it

12:Rear Guitar Input Jack

13:Rear Keyboard Input Jack

14:Balance Line Output Jack

15:Effect Input/ Output Jack

Remote Commander

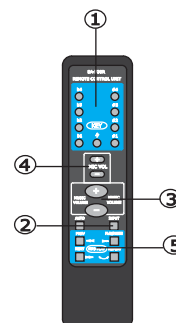
1:Digital Key Control

2:Input Selector

3:VOL+/- Music Volume Adjustment

4:MIC VOL+/- MIC Volume Adjustment

5:Usb/Sd Card (Mp3) Music Play Function Selector



Advance Operation

Switching A/V Channels

Since the SA-730R has 3 A/V inputs, you can switch between them via the INPUT button. Let's say you are performing live, and want to do 4 songs back to back, but they are on different discs! Instead of stopping to switch CD's between songs (not very good for live performances), have a disc queued in A/V 2-4, and simply hit the INPUT button and PLAY, you are back in action!

Balancing the Music with the Vocals

Have you ever been to a musical performance where the music was so loud that you could barely hear the singer? Or maybe to a performance where the singer was so loud that the music was drowned out? Those situations are created with poor musical balancing. To avoid these situations, the SA-730R has a MASTER, BASS, MID and TREBLE control for both the music and the Mic levels. If you find that music is too loud, simply adjust the MASTER MUSIC control knob for the music, Also, keep in mind that BASS, MID and TREBLE levels also affect the overall "sound" and can be adjusted to correct sound balancing problems.

Balancing Microphone Levels

When adjusting Mic levels, it is recommended to do so in this order:

- 1) Cut off the Echo and background music.
- 2) First adjust the MASTER MIC control knob to an appropriate level without background music and test.
- 3) Then balance the BASS, MID and TREBLE levels for fine tuning. Adjust these knobs till no feedback from the MIC.
- 4) Start background music and adjust each MIC CHANNEL accordingly.
- 5) Remember to compensate if the background music has striking volume changes.
- 6) Do a complete song for complete balancing success.

Using Digital Echo

The SA-730R has a built in, adjustable Digital Echo effects processor that can really add a spacious feeling to the vocals. You can adjust ECHO in several ways. First, you can adjust the overall ECHO applied to the Mic channels via the DIGITAL ECHO control knob. This limits the echo to all 3 channels together. Once you have your master ECHO level established, you can start customizing the nature of the echo via the DELAY and REPEAT controls. The DELAY knob controls the interval time between each echo and the REPEAT knob controls the # of times the echo will repeat. By fine tuning these controls, you can start customizing the nature of the echo via the DELAY and REPEAT controls. The DELAY knob controls the interval time between each echo and the REPEAT knob controls the times the echo will repeat. By fine tuning these controls, you can achieve the "perfect" echo effect. Each Mic channel has its own DIGITAL ECHO VOL knob to adjust echo individually, To add, turn clockwise, To remove, turn counter-clockwise.

Getting Connected

Step 1 -Connection A/V device(s):

The SA-730R has four A/V channels for external devices to provide audio and video signal .These devices can be , DVD ,VCR ,and BGM , Each A/V channel has a set of L/R AUDIO IN jacks and a VIDEO IN jack .For each external A/V device ,connect a stereo RCA cable from the L/R AUDIO OUT jacks to a L/R AUDIO input jacks on the SA-730R, Then connect cable from a VIDEO OUT jack on the A/V device to the VIDE IN jack in the SA-730R.

Step 2 -Connecting Speaker:

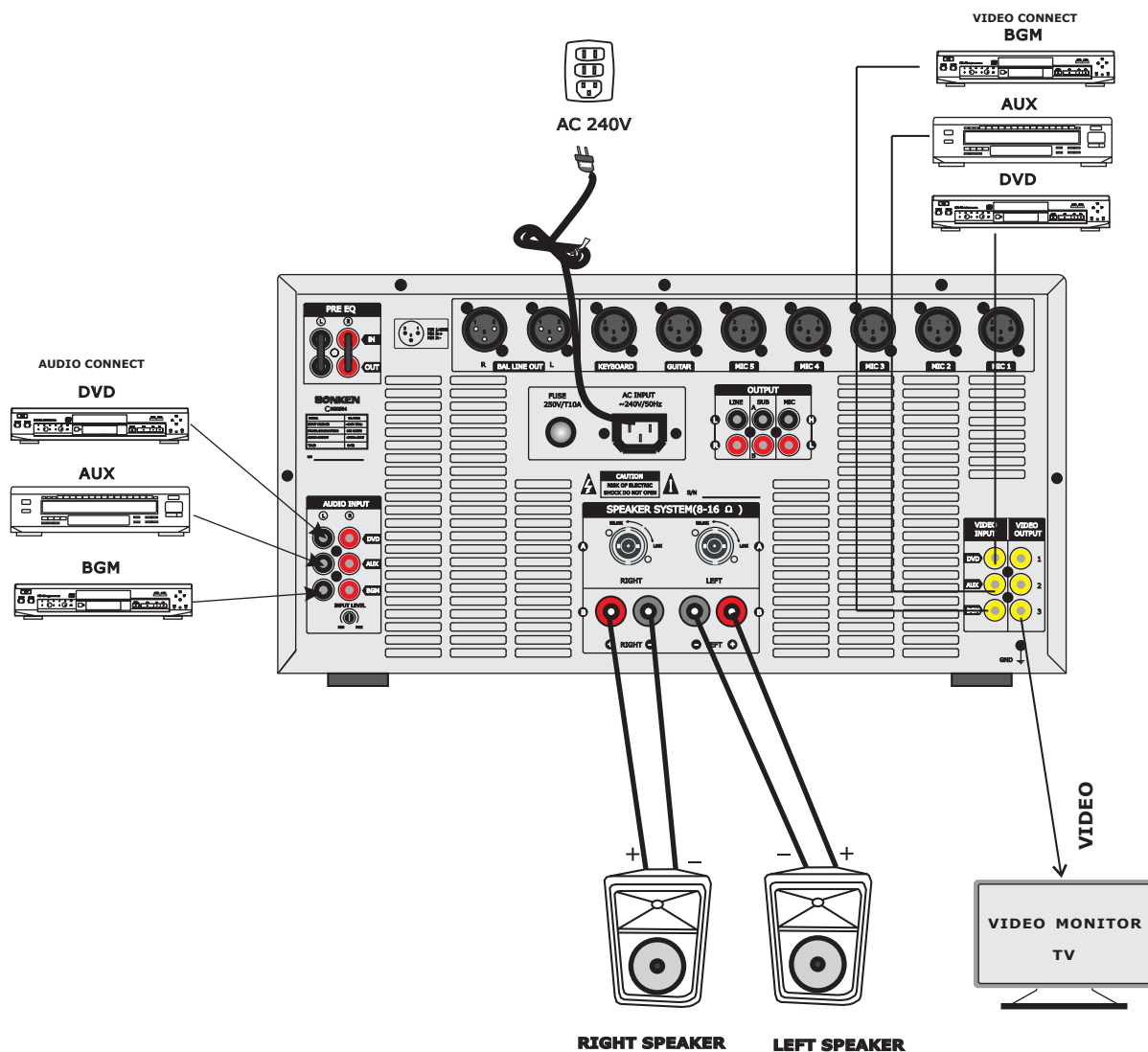
There are two sets of speaker outlets in SA-730R,Connect a speaker cable to the speaker.

Step 3 - Connecting video display device(s):

For video ,the SA-730R can output video to monitors ,TFT displays and compatible TV's ,Connect a video cable from SA-730R Video Output to the VIDIO IN jack(s) on your display device(s).

Step 4- Turn on power:

Before turning on the power to unit ,make sure the VOLUME knobs down to prevent accidental blaring and then turn up as desired , Continue checking sound levels until getting satisfied with all the levels



Troubleshooting

Problem	Possible Cause(s)	Solution(s)
<p>No output is being transmitted.</p>	<p>The input selector (BGM AUX DVD) is set to the wrong position .</p> <p>The output jacks of the SA-730R may not have proper cable connected.</p> <p>Faulty connection within external components or eternal component failure.</p> <p>The power cord to the SA-730R is not plugged in .</p>	<p>Switch source button to the correct source channel.</p> <p>Make sure the cables to the correct source channel.</p> <p>Make sure the cables from the output jacks on the SA-730R are connected to the input jacks on external equipment.</p> <p>Checks the connection of input and output jacks.</p> <p>Plug the power cord from the SA-730R to a wall outlet.</p>
<p>There is a loud "squealing" noise coming from the speaker.</p>	<p>Microphone is too close to the speakers.</p> <p>Microphone volume is too high.</p> <p>Too much treble being used.</p>	<p>Increase space between microphone and speakers</p> <p>Turn down microphone volume</p> <p>Lower the treble levels</p>

Purchase Record

FOR YOUR RECORDS

Please record the model number and serial number below for easy reference in case of loss or theft these number are located on the rear panel of the unit space is also provided for other relevant information

Model Number: _____

Serial Number: _____

Date Purchase: _____

Dealer: _____